



IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-HB-2X300LED-RT-60DB.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] RADIANT ZEMAX
[TESTDATE] 20200629
[ISSUEDATE] 2020-06-29 11:08:11
[MANUFAC] Larson Electronics LLC
[LUMCAT] EPL-HB-2X300LED-RT-60DB
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED FIXTURE - 60 DEGREE BEAM
[LAMP] LED
[LAMPPOSITION] 0.0
[OTHER] ZVISION 9107GT SYSTEM

CHARACTERISTICS

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	83245 (1 lamp)
Total Lamp Lumens	83245
Luminaire Lumens	82815
Downward Total Efficiency	99 %
Total Luminaire Efficiency	99 %
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	597.92
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	74557.4
Maximum Candela Angle	360H .5V
Maximum Candela (<90 Degrees Vertical)	74557.4
Maximum Candela Angle (<90 Degrees Vertical)	360H .5V
Maximum Candela At 90 Degrees Vertical	3.009 (0.0% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	216.259 (0.3% Lamp Lumens)
Cutoff Classification (deprecated)	Cutoff



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	21762.4	26.1	26.3
FM - Front-Medium (30-60)	18982.7	22.8	22.9
FH - Front-High (60-80)	532.4	0.6	0.6
FVH - Front-Very High (80-90)	18.1	0.0	0.0
BL - Back-Low (0-30)	21914.2	26.3	26.5
BM - Back-Medium (30-60)	19008.8	22.8	23.0
BH - Back-High (60-80)	552.6	0.7	0.7
BVH - Back-Very High (80-90)	20.4	0.0	0.0
UL - Uplight-Low (90-100)	0.4	0.0	0.0
UH - Uplight-High (100-180)	22.4	0.0	0.0
Total	82814.3	99.3	100.0
BUG Rating	B5-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles										
	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5	
0.0	74010.80374010.80374010.80374010.80374010.80374010.80374010.80374010.80374010.80374010.80374010.803										
0.5	74557.40074299.83274510.75674176.17774086.58273767.05073683.33773428.09474543.03774525.665										
1.0	74543.03774342.78274534.69374253.73574109.01573831.33973674.44673450.39074500.22374406.114										
1.5	74471.49874371.37174531.54774294.08774097.11573868.54573632.58973433.97674428.54774246.348										
2.0	74414.32174357.00874491.33274308.99674056.76373859.51773556.53673398.13874299.83274076.186										
2.5	74328.42074314.05774412.13374291.21473995.61973801.38373451.89573332.48174185.34273859.517										
3.0	74524.16174256.88174324.04374231.43973889.47473728.20373339.86773229.34474070.85273653.518										
3.5	74365.89974185.34274216.52974165.78173784.83273641.61773192.13873103.91273899.04973393.624										
4.0	74162.77274070.85274077.55474076.18673668.42773526.58073035.24572957.68773698.79473127.849										
4.5	73950.75473942.13673925.17573953.62673517.68973405.52572866.45172775.35273469.81472839.641										
5.0	73678.82373770.33373728.20373823.67973360.79673262.31072644.03772587.27173212.38372499.181										
5.5	73408.67173569.94173532.59973650.50873163.68773081.47972430.51472355.82972954.67872187.035										
6.0	73118.95873326.87373280.09273460.78672959.19272894.90272194.55872136.28772639.93371840.556										
6.5	72778.49873083.53073044.27373265.18272745.53272657.44271961.61271906.35072353.64071404.482										
7.0	72451.30572797.23772788.89373029.36372475.24372437.90071692.69071609.11472067.48470978.941										
7.5	72088.41272482.49372464.84772799.28972204.95472216.85471383.55471331.30271695.42670481.587										
8.0	71641.94372210.56272152.70272530.50571915.24171949.57471081.80471028.18471294.78070009.539										
8.5	71225.29371881.45571768.88072201.94571576.28571674.77170753.38170672.67770865.40969516.972										
9.0	70777.18271480.67271398.46471889.79971253.74471386.56370360.66870311.28870450.53768937.547										
9.5	70251.65071094.38871004.24671553.85370872.93271031.05670002.15269890.26170049.89068395.327										
10.0	69743.76370622.20370523.30771167.15870501.01170693.74269572.09769504.93569506.16667833.820										
10.5	69140.53770235.91970073.82870790.72370109.80370291.86569152.57469094.30368962.30567166.168										
11.0	68586.41769792.32269607.93570332.21769654.16969915.70368701.45468592.43668475.75766528.608										
11.5	68007.12869219.87369067.35769888.62069221.10469512.45868177.29068104.11067860.49465786.407										
12.0	67291.73768733.32568549.21169422.86368741.80669031.51967677.06467590.34167245.09365102.477										
12.5	66612.18568146.65067990.71468886.66268181.80468568.63567137.99066994.50166672.78164399.124										
13.0	65916.35467559.83867317.18068377.40867638.21668063.75866503.30366439.01466000.20463582.238										
13.5	65121.90166930.34966697.26567833.82067076.57367488.84665922.37365855.21165313.26562838.532										
14.0	64381.20566271.99865993.91267202.14366425.60866942.38665309.98265172.64964583.51161976.781										
14.5	63517.94865570.97065311.62366603.29365817.73166303.04864612.51064545.48563867.98461180.960										
15.0	62717.61464898.39364593.22365920.86865108.49665714.73263962.91363827.08562715.97260372.965										
15.5	61891.70064111.32663756.91465272.77664433.45765097.96463211.82163150.54162199.33159457.456										
16.0	60950.74963410.02462987.90364593.22363735.98564376.69162515.85462450.19761421.29358606.237										
16.5	60069.84762380.02662185.92663794.25662929.63263688.24761800.60061642.33960520.69457726.703										
17.0	59155.84361497.48261276.43663050.55162171.01762908.70460974.68660898.63359693.41256742.527										
17.5	58132.82060637.37260414.82162276.88961303.24662178.54060208.68560038.38658843.69755830.165										
18.0	57202.53959651.69259433.51861388.46460481.84661418.28359319.98659239.41957862.53154893.728										
18.5	56152.56958751.09358540.57960561.04559644.16960549.14558495.71458435.93856976.97953843.895										
19.0	55192.46857822.17957629.72159608.33158691.31759744.15957649.00857508.66656070.49852883.657										
19.5	54227.71756790.26656605.19458733.17457796.87458915.37356693.28456655.94255037.07951793.610										
20.0	53156.95655855.47055662.73957843.10756894.77057977.56855806.22755780.78554091.75150813.812										
20.5	52193.70954899.74654610.03456823.23155883.92257099.40254907.27054789.22353030.01849825.259										
21.0	51226.08553842.39053657.18255880.91254954.87156195.93053893.13853876.72452050.35748721.670										
21.5	50147.80152877.63952702.96354931.20753900.66155180.56852965.86652843.30651042.38147716.566										
22.0	49172.65351797.98751621.80753873.85152940.28754251.51751905.50151875.68149923.88246713.104										
22.5	48079.45950825.84950658.55952913.47751965.27653203.18950936.37250907.92048930.81545582.568										
23.0	47086.39349852.06949681.90751941.33950893.01152244.45649956.57449834.28747919.69344576.096										
23.5	46097.84148785.95948617.16550867.56849917.72651278.20048879.93148869.39946787.65243469.498										
24.0	45009.02447804.65647640.37649901.31248954.47950206.07147898.76547877.97445773.79542479.304										
24.5	44022.11346820.61846659.21048842.58847874.96449238.31046898.17546780.12944770.05941517.561										
25.0	43031.91945737.95745566.15347883.85546895.30348269.18245791.57745797.59543663.59740464.719										
25.5	41958.14944753.78144593.87846905.69945917.00947187.88844806.03444803.02442676.54939516.382										
26.0	41008.30743654.70643511.21745799.10044843.37646196.32643811.32643702.30741601.13738495.001										

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26.5	39943.56542667.52142530.05144806.03443871.10145094.10542703.35942722.78340638.02737593.034
27.0	39001.24641683.34641550.39043700.93942781.05444111.57141735.59841651.88539685.17636719.382
27.5	38076.98340609.57640469.23342725.79241804.40143127.39640670.85640694.65738659.28135777.200
28.0	37062.85139652.34739498.60041758.03140838.14542038.85339721.01439747.96137761.69134940.753
28.5	36172.78538714.40638457.65840694.65739773.40341084.63438798.11938720.56136889.68034034.273
29.0	35305.15137688.64737539.27739737.56538835.59840145.18737796.02437808.06235950.23433235.306
29.5	34355.44636782.16736640.32038807.14737918.58539102.74136910.60936928.39135116.93432470.809
30.0	33528.02835907.01035663.66737794.65736923.87738200.77436041.47035975.67634212.09431646.399
30.5	32642.47534949.78134807.79736904.59036048.85737304.82635115.56635134.99033408.61330927.999
31.0	31880.85134099.93033971.62535918.91035092.99636326.66934289.65234214.96732636.45630247.079
31.5	31126.61333183.19033051.60235052.78134237.40035466.42233474.27133404.09931813.68929504.878
32.0	30330.79232387.09632254.14034204.57133410.11834522.59932590.22332624.55631096.79328868.823
32.5	29658.76231613.57131395.53433286.05332517.04233693.81231818.20331768.82330399.32128204.180
33.0	29046.37130783.14330654.83832485.71831731.61732881.44030984.90231019.23529663.27627660.592
33.5	28414.83030079.78929949.84331704.67030895.30732015.17430263.49330314.24029022.43327151.338
34.0	27884.51129342.23929212.15630871.37030168.01631259.56929578.05829560.13928356.55926636.202
34.5	27393.31228737.23528592.37830147.08829475.05830518.87228856.78628924.08427793.54826210.524
35.0	26888.57228181.74728023.48529385.46328746.26229734.81528247.54128244.39527282.78925820.820
35.5	26473.28927603.82627438.04128744.75828139.89029065.79527615.72627648.69226767.51625423.594
36.0	26037.35227120.01426963.25728137.01827585.90728377.35127079.66227103.59926338.82925086.006
36.5	25666.93626673.40726524.17427523.25927015.50927790.40226583.94926546.47025944.61224757.446
37.0	25317.58526215.03726073.05427027.27326549.61627246.81426085.09126092.47725533.98024409.599
37.5	24950.17725829.71125693.74626570.40826120.92926692.83125668.44125665.43125189.00624104.977
38.0	24636.52725433.98925293.64726110.53325680.34126246.36125283.11425238.38524820.23123777.784
38.5	24296.06725100.91624950.17725731.22525317.58525831.21624883.01524887.39324514.10423492.586
39.0	24006.35424785.89724632.01325335.36724935.13125398.15124554.45524520.12224204.96723210.259
39.5	23727.03724446.80524293.05724991.89724614.09425032.24924240.80524201.95823870.52522893.737
40.0	23429.80124154.08324006.35424673.87024301.94824664.84223901.84923889.81223573.28922605.528
40.5	23159.51223864.37023725.53224334.91423973.38824348.18223607.62323558.24323277.55822262.059
41.0	22881.69923550.72023423.91924039.04623685.18024042.19223288.09123258.13422944.48421922.966
41.5	22571.19523286.44923158.14423752.47923373.17123709.11822998.37822958.02622626.45721572.110
42.0	22294.88723023.68322860.90823449.22523099.87323419.40522701.14222627.82522257.54521167.497
42.5	21970.84122724.94322593.62823186.32222829.58423140.08822365.05922324.84421911.20320783.676
43.0	21661.70522462.17722327.71622890.72722527.83422832.45622050.04021976.86021558.70520368.393
43.5	21327.26322167.95022041.01322630.83422251.52622545.75321725.99421655.82321159.97419871.176
44.0	20919.50421894.65221775.10122365.05921946.90422214.32021359.95521315.22620789.55719379.841
44.5	20516.25921612.46221487.02922063.44621587.02021918.58921019.49520937.42320384.94418801.783
45.0	20081.69021255.45121133.02721776.74221250.93721600.42520617.75420586.43019890.60018252.314
45.5	19562.04020907.60420782.03421465.96420903.09021224.12720244.60220177.30319408.15617674.393
46.0	19057.30020481.92620356.49321106.08020495.33120858.36119841.35719778.57218837.75817008.382
46.5	18527.11720057.75219938.33820750.71020099.74620474.53919360.41719344.00318289.65616391.614
47.0	17907.34019587.48219472.44520328.04119633.71620035.45618880.98218813.89217711.73615752.413
47.5	17308.49019018.45218910.93919916.04219181.09119612.78718374.87418307.57517038.20115011.717
48.0	16618.67918482.25118371.72819457.53518688.38819118.44317787.92517772.87916415.55114339.687
48.5	15977.83617922.24917813.23118901.91118111.97118636.13517232.43717148.72415779.22313661.776
49.0	15313.33017277.16617169.65318373.23317553.47418117.85316594.74116570.80415049.05912910.547
49.5	14571.12916675.30816558.90317816.24016971.03917507.10416001.77415976.46814385.92112238.517
50.0	13890.20816043.63015928.59317171.02116296.00016935.20115385.00615278.99713643.72011472.379
50.5	13204.63715310.32115201.43916564.78515667.33216340.86614674.26614630.90412956.91710773.539
51.0	12431.11214636.78614530.77715937.62114952.07815652.42214027.54113911.13712262.31810068.681
51.5	11732.27213881.18013775.30815210.33014297.83115014.72613363.03513255.38411490.4359290.642
52.0	10955.60113197.25013088.23214548.83313631.81914293.45312619.33012595.39210801.9918602.198
52.5	10258.40312505.79712392.26513802.11812877.71813630.45211950.30911853.19110041.7347928.664
53.0	9562.436 11724.88611617.23513116.68312199.67012961.29511276.77511178.2899354.795 7485.204
53.5	8794.793 11021.53210915.38612438.63511512.73112222.10310534.57410506.1238670.865 6544.116
54.0	8110.863 10324.06010222.42811680.02010751.10611551.5789856.526 9758.040 7922.645 5858.681

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54.5	7623.905	9547.389	9454.922	10995.953	10065.672	10806.368	9103.929	9089.020	7268.535	5262.841
55.0	6697.590	8851.559	8773.865	10228.447	9309.929	10134.338	8439.423	8355.710	6624.956	4692.033
55.5	6068.785	8098.962	8030.159	9533.984	8627.640	9456.427	7816.636	7707.618	5739.267	4093.732
56.0	5378.699	7435.824	7592.581	8845.540	7954.106	8702.326	7044.753	7075.940	5342.451	3593.368
56.5	4771.917	6772.822	6703.335	8091.439	7509.004	8039.187	6418.820	6384.487	4765.898	3122.961
57.0	4199.330	5742.003	5994.920	7426.933	6580.364	7389.453	5810.396	5661.299	4165.818	2628.753
57.5	3608.278	5434.918	5372.954	6778.704	5967.426	6687.741	5158.884	5158.337	3671.063	2222.636
58.0	3112.702	4773.695	4715.287	5774.695	5302.099	5781.260	4604.080	4617.759	3162.356	1834.164
58.5	2601.807	4209.042	4146.941	5476.501	4720.895	5424.933	4023.287	4104.401	2730.249	1539.116
59.0	2190.217	3670.379	3605.679	4893.930	4102.075	4855.493	3538.654	3569.704	2336.168	1295.911
59.5	1832.249	3108.599	3046.498	4272.921	3593.368	4304.656	3081.652	3117.900	1968.351	1083.619
60.0	1496.712	2638.739	2588.265	3741.371	3123.372	3719.348	2616.990	2694.547	1682.331	931.239
60.5	1242.427	2217.848	2170.110	3190.397	2630.532	3237.178	2243.290	2277.213	1420.112	816.886
61.0	1040.668	1808.721	1762.488	2731.343	2225.782	2795.906	1918.013	1947.559	1177.591	752.186
61.5	892.118	1496.712	1452.804	2309.358	1874.242	2351.215	1605.868	1657.710	1005.924	706.226
62.0	807.858	1212.608	1181.421	1903.240	1550.196	2000.495	1357.328	1383.317	861.341	682.836
62.5	752.870	1014.679	991.562	1592.326	1305.486	1696.283	1132.862	1179.232	778.176	663.822
63.0	698.019	876.935	857.511	1333.527	1114.532	1413.683	982.534	994.981	733.036	644.809
63.5	668.884	792.265	767.917	1114.669	956.955	1209.735	868.044	868.044	702.670	624.702
64.0	643.852	745.621	735.088	969.813	848.620	1052.432	773.662	783.510	682.836	606.372
64.5	623.197	717.579	707.047	854.092	763.403	918.108	739.602	725.650	663.959	589.684
65.0	604.184	696.104	682.836	787.203	703.764	823.178	687.350	696.378	642.621	572.586
65.5	586.538	673.397	660.676	744.800	675.996	752.460	663.412	673.671	624.291	558.634
66.0	572.449	646.587	631.951	715.117	651.785	712.929	642.484	653.837	607.193	543.724
66.5	558.087	623.881	612.117	692.548	631.951	688.170	621.145	634.824	589.684	530.183
67.0	545.639	606.783	594.609	670.799	610.339	664.096	602.132	616.221	575.322	515.410
67.5	533.192	589.548	576.553	647.955	593.104	645.493	585.171	599.533	559.592	498.311
68.0	518.009	575.048	560.959	628.668	578.331	627.711	567.252	583.666	538.390	482.718
68.5	503.920	562.327	546.323	609.108	563.148	608.424	551.658	566.568	531.003	464.115
69.0	489.420	542.767	531.550	592.557	549.606	594.062	536.611	529.635	514.315	446.880
69.5	470.817	533.465	518.829	577.374	537.159	577.237	520.744	539.074	499.132	429.371
70.0	452.762	518.693	504.604	562.738	523.343	563.148	506.519	524.027	481.213	409.264
70.5	433.201	503.920	490.515	533.602	510.349	541.809	492.156	509.254	464.388	392.029
71.0	415.966	488.463	475.605	536.885	495.165	534.423	475.468	492.430	447.290	372.879
71.5	399.142	469.313	457.412	521.565	480.392	520.197	459.601	475.331	428.277	350.172
72.0	379.171	450.163	439.630	505.971	464.115	502.962	441.545	458.233	410.358	330.612
72.5	359.200	432.381	420.480	488.326	444.555	486.821	423.626	439.493	390.661	313.787
73.0	342.102	412.547	397.910	470.407	428.140	470.133	405.844	421.301	367.407	297.510
73.5	323.909	394.491	377.393	451.667	410.905	448.932	386.694	403.929	348.394	283.010
74.0	308.316	375.204	356.464	431.697	390.387	430.602	368.912	384.505	331.159	264.134
74.5	289.302	357.148	339.640	413.231	370.280	413.231	351.403	366.039	314.334	244.573
75.0	270.973	340.597	322.952	393.944	350.719	393.123	331.296	343.880	299.561	225.150
75.5	252.370	321.174	304.622	370.553	331.296	374.520	312.830	326.508	280.138	206.820
76.0	233.767	305.170	285.336	350.309	315.018	355.644	292.722	310.367	263.313	191.637
76.5	219.405	288.071	267.280	331.022	297.646	334.852	276.171	294.227	245.804	175.633
77.0	205.726	266.049	249.224	314.881	281.232	317.070	260.988	278.496	227.065	158.261
77.5	189.312	247.036	233.220	299.835	263.313	298.604	245.121	260.304	210.650	143.215
78.0	174.129	230.211	211.745	280.001	244.300	282.600	229.664	241.838	195.467	128.716
78.5	158.261	213.933	191.774	260.577	228.296	265.365	207.094	224.876	179.737	114.763
79.0	141.300	199.434	173.992	239.376	213.113	247.036	188.901	206.820	167.016	99.307
79.5	126.253	180.284	159.903	222.414	196.561	231.032	172.487	190.133	151.832	83.303
80.0	110.523	162.775	146.361	206.137	181.105	216.259	157.851	173.855	135.965	70.718
80.5	98.212	146.771	129.810	187.670	164.827	198.476	143.078	157.304	119.825	60.733
81.0	85.354	131.451	112.575	170.846	150.738	181.241	127.485	143.762	104.368	54.304
81.5	70.308	118.457	99.033	155.389	137.333	163.596	112.028	131.588	91.647	44.182
82.0	57.860	102.863	86.859	140.206	121.603	149.097	99.854	115.311	76.600	33.513

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CANDELA TABULATION - (Cont.)

82.5	49.653	89.868	74.548	127.621	106.830	136.786	87.953	99.717	64.700	26.400
83.0	41.309	78.242	61.554	109.839	93.014	121.466	72.770	85.218	54.714	16.551
83.5	29.546	66.341	54.441	94.656	79.336	106.420	60.870	73.864	39.805	10.259
84.0	20.791	56.219	46.507	81.661	66.752	92.741	51.842	63.742	30.093	5.745
84.5	16.551	42.540	39.668	70.308	54.578	78.515	45.550	52.936	24.485	1.778
85.0	9.712	34.333	31.050	60.323	48.149	67.983	38.437	40.078	16.961	0.410
85.5	5.335	25.989	22.159	46.370	37.479	55.945	29.272	30.366	12.037	0.137
86.0	2.873	17.235	15.730	37.069	27.357	42.130	22.023	20.928	8.618	0.000
86.5	0.684	12.037	9.849	29.819	20.108	33.786	14.910	16.688	5.882	0.000
87.0	0.547	7.797	3.420	20.928	13.131	24.074	6.976	9.985	4.104	0.000
87.5	0.000	4.240	0.958	14.636	7.386	17.782	2.052	5.745	2.189	0.000
88.0	0.000	3.693	0.684	9.985	4.788	12.037	0.821	4.924	2.189	0.000
88.5	0.000	2.052	0.000	5.882	1.231	7.386	0.000	3.556	1.641	0.000
89.0	0.000	2.052	0.000	4.377	0.410	5.061	0.000	2.736	1.778	0.000
89.5	0.000	1.915	0.000	3.556	0.137	3.830	0.000	1.778	1.231	0.000
90.0	0.000	1.094	0.000	2.189	0.000	3.009	0.000	1.231	1.368	0.000
90.5	0.000	1.368	0.000	1.641	0.000	2.052	0.000	1.368	1.231	0.000
91.0	0.000	1.915	0.000	1.505	0.000	1.778	0.000	0.547	1.231	0.000
91.5	0.000	1.505	0.000	1.505	0.000	1.505	0.000	0.547	1.505	0.000
92.0	0.000	0.684	0.000	1.094	0.000	1.505	0.000	0.958	1.368	0.000
92.5	0.000	0.958	0.000	1.231	0.000	1.231	0.000	1.094	1.231	0.000
93.0	0.000	0.958	0.000	1.505	0.000	1.094	0.000	1.368	1.231	0.000
93.5	0.000	1.094	0.000	1.368	0.000	1.368	0.000	0.958	0.684	0.000
94.0	0.000	0.821	0.000	0.684	0.000	1.231	0.000	1.094	0.958	0.000
94.5	0.000	0.684	0.000	0.958	0.000	0.821	0.000	0.821	0.684	0.000
95.0	0.000	0.684	0.000	0.821	0.000	0.821	0.000	0.684	0.547	0.000
95.5	0.000	0.684	0.000	0.684	0.000	0.684	0.000	0.821	0.821	0.000
96.0	0.000	0.410	0.000	0.274	0.000	0.684	0.000	0.684	0.547	0.000
96.5	0.000	0.821	0.000	0.547	0.000	0.684	0.000	0.684	0.958	0.000
97.0	0.000	0.410	0.000	0.684	0.000	0.684	0.000	0.684	0.410	0.000
97.5	0.000	0.684	0.000	0.410	0.000	0.410	0.000	0.821	0.410	0.000
98.0	0.000	0.274	0.000	0.274	0.000	0.274	0.000	0.821	1.094	0.000
98.5	0.000	0.274	0.000	0.410	0.000	0.547	0.000	0.410	0.684	0.000
99.0	0.000	0.274	0.000	0.410	0.000	0.274	0.000	0.137	0.410	0.000
99.5	0.000	0.410	0.000	0.410	0.000	0.410	0.000	0.410	0.547	0.000
100.0	0.000	0.547	0.000	0.410	0.000	0.410	0.000	0.274	0.547	0.000
100.5	0.000	0.547	0.000	0.137	0.000	0.684	0.000	0.137	0.684	0.000
101.0	0.000	0.274	0.000	0.274	0.000	0.821	0.000	0.137	0.958	0.000
101.5	0.000	0.274	0.000	0.000	0.000	0.547	0.000	0.547	0.821	0.000
102.0	0.000	0.137	0.000	0.410	0.000	0.547	0.000	0.410	0.821	0.000
102.5	0.000	0.410	0.000	0.410	0.000	0.274	0.000	0.547	0.821	0.000
103.0	0.000	0.547	0.000	0.410	0.000	0.137	0.000	0.684	0.274	0.000
103.5	0.000	0.274	0.000	0.137	0.000	0.274	0.000	0.274	0.547	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.274	1.231	0.000
104.5	0.000	0.274	0.000	0.137	0.000	0.274	0.000	0.274	0.684	0.000
105.0	0.000	0.410	0.000	0.410	0.000	0.274	0.000	0.547	0.410	0.000
105.5	0.000	0.000	0.000	0.274	0.000	0.274	0.000	0.547	0.547	0.000
106.0	0.000	0.410	0.000	0.547	0.000	0.137	0.000	0.274	0.410	0.000
106.5	0.000	0.137	0.000	0.410	0.000	0.684	0.000	0.000	0.684	0.137
107.0	0.000	0.410	0.000	0.000	0.000	0.274	0.000	0.000	0.547	0.137
107.5	0.000	0.410	0.000	0.000	0.000	0.274	0.000	0.274	0.684	0.274
108.0	0.000	0.410	0.000	0.547	0.000	0.000	0.000	0.274	0.821	0.000
108.5	0.000	0.274	0.000	0.274	0.000	0.274	0.000	0.274	0.547	0.274
109.0	0.000	0.000	0.000	0.410	0.000	0.000	0.000	0.137	0.821	0.000
109.5	0.000	0.410	0.000	0.274	0.000	0.000	0.000	0.274	0.684	0.274
110.0	0.000	0.274	0.000	0.137	0.000	0.410	0.000	0.274	0.410	0.000

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CANDELA TABULATION - (Cont.)

110.5	0.000	0.410	0.000	0.000	0.000	0.274	0.000	0.137	0.684	0.274
111.0	0.000	0.137	0.000	0.274	0.000	0.274	0.000	0.410	0.410	0.274
111.5	0.000	0.274	0.000	0.137	0.000	0.137	0.000	0.410	0.821	0.137
112.0	0.000	0.137	0.000	0.274	0.000	0.137	0.000	0.274	0.958	0.274
112.5	0.000	0.274	0.000	0.000	0.000	0.000	0.000	0.137	1.368	0.410
113.0	0.000	0.274	0.000	0.137	0.000	0.274	0.000	0.274	0.821	0.410
113.5	0.000	0.410	0.000	0.274	0.000	0.274	0.000	0.274	0.821	0.274
114.0	0.000	0.274	0.000	0.137	0.000	0.274	0.000	0.274	1.231	0.684
114.5	0.000	0.410	0.000	0.137	0.410	0.547	0.000	0.410	0.821	0.410
115.0	0.000	0.137	0.000	0.684	0.000	0.137	0.000	0.000	1.368	0.410
115.5	0.000	0.274	0.137	0.410	0.000	0.274	0.000	0.274	0.958	0.547
116.0	0.000	0.274	0.000	0.274	0.000	0.410	0.000	0.547	0.821	0.821
116.5	0.000	0.000	0.000	0.274	0.000	0.547	0.000	0.547	1.368	0.410
117.0	0.274	0.410	0.000	0.684	0.000	0.410	0.000	1.094	1.094	0.410
117.5	0.000	0.274	0.000	0.274	0.000	0.137	0.000	0.137	1.231	0.410
118.0	0.137	0.410	0.000	0.137	0.000	0.137	0.000	0.410	1.231	0.410
118.5	0.000	0.547	0.000	0.137	0.000	0.821	0.000	0.684	1.505	1.231
119.0	0.000	0.684	0.137	0.274	0.000	0.410	0.000	0.137	1.505	0.684
119.5	0.000	0.274	0.000	0.821	0.000	0.958	0.547	0.684	1.505	0.821
120.0	0.274	0.547	0.000	0.958	0.410	0.274	0.000	0.410	1.505	1.094
120.5	0.137	0.547	0.410	0.410	0.000	0.684	0.137	0.410	1.231	1.231
121.0	0.000	0.547	0.274	0.547	0.000	0.547	0.410	0.410	2.325	1.505
121.5	0.274	0.684	0.137	0.958	0.547	0.547	0.410	0.547	1.778	1.231
122.0	0.137	0.547	0.000	0.410	0.410	0.958	0.000	0.821	1.778	1.368
122.5	0.547	0.821	0.274	1.368	0.137	0.547	0.000	0.547	1.778	1.641
123.0	0.547	0.821	0.684	0.684	0.274	0.821	0.274	0.821	1.778	1.641
123.5	0.547	0.547	0.274	0.410	0.684	0.410	0.274	0.958	2.736	1.505
124.0	0.958	0.684	0.274	0.684	0.000	0.547	0.274	0.958	2.873	2.052
124.5	0.000	0.958	0.274	1.231	0.137	1.231	0.137	0.547	3.146	2.736
125.0	0.410	1.505	0.958	0.684	0.410	0.684	0.274	0.958	2.325	1.778
125.5	0.410	0.821	0.274	0.958	0.410	0.958	0.684	0.684	2.325	1.641
126.0	0.821	1.368	0.137	0.821	0.410	1.094	0.547	1.368	3.420	2.325
126.5	0.821	1.368	0.684	1.368	0.410	0.958	0.410	1.094	3.146	2.189
127.0	0.821	1.368	0.958	1.368	0.274	0.958	0.684	0.958	2.873	2.325
127.5	0.547	1.368	0.821	1.368	0.547	1.094	1.094	1.505	3.009	3.009
128.0	0.958	2.052	0.958	1.231	0.274	1.231	0.821	1.231	3.556	2.599
128.5	0.821	1.505	0.684	1.231	0.410	2.189	0.821	2.052	3.283	2.736
129.0	1.094	1.778	0.410	1.505	0.684	1.368	0.547	1.094	3.556	2.873
129.5	1.094	1.505	0.684	1.368	0.684	1.368	0.821	1.505	3.283	2.736
130.0	1.641	1.915	0.958	1.505	0.821	1.094	1.094	1.505	3.693	3.420
130.5	1.368	1.641	1.094	1.505	0.958	1.505	0.684	1.368	3.967	3.693
131.0	1.505	1.915	1.231	1.778	1.094	1.368	0.958	2.052	4.240	3.967
131.5	2.052	2.052	1.505	2.052	0.684	1.778	1.505	2.325	4.514	3.967
132.0	1.641	2.325	1.368	1.778	1.368	1.915	1.505	1.641	5.061	3.283
132.5	1.368	1.778	1.368	2.052	1.094	2.325	1.915	2.189	4.514	4.240
133.0	1.641	1.641	1.368	1.778	1.368	2.052	1.368	1.778	4.651	3.420
133.5	2.052	2.052	1.641	1.641	1.641	1.641	1.641	2.599	4.651	4.788
134.0	1.915	2.736	1.641	2.052	1.505	2.599	1.641	2.189	5.061	4.788
134.5	1.915	3.009	1.778	2.189	1.778	2.325	1.915	3.146	5.335	4.788
135.0	2.189	2.189	1.915	2.052	1.641	2.325	1.778	1.915	6.292	4.651
135.5	2.599	2.736	1.915	3.009	1.915	2.189	1.915	2.325	5.471	5.471
136.0	2.599	3.009	2.189	2.599	1.641	2.736	1.915	3.283	5.745	5.608
136.5	2.736	3.146	2.052	2.873	1.778	2.873	2.052	2.873	5.471	5.745
137.0	2.052	2.189	1.915	2.599	3.009	2.873	2.325	2.599	6.155	6.155
137.5	2.599	3.146	2.599	2.052	2.052	3.009	2.873	3.556	6.976	6.292
138.0	2.736	4.104	2.325	3.693	2.599	3.146	2.873	3.420	6.155	6.429

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CANDELA TABULATION - (Cont.)

138.5	3.420	3.556	2.736	3.146	2.325	2.873	2.873	3.420	7.250	7.113
139.0	3.693	3.830	2.325	3.283	2.736	3.693	3.009	3.967	7.250	6.839
139.5	3.283	4.104	2.736	3.283	3.146	3.283	2.873	2.325	7.250	7.797
140.0	4.377	4.924	3.146	3.283	3.420	4.104	3.146	3.967	7.934	7.660
140.5	3.556	3.693	3.556	3.146	3.283	3.556	3.830	3.967	7.934	8.070
141.0	4.240	4.104	3.556	3.693	3.146	4.104	3.967	3.556	8.891	8.207
141.5	3.693	3.967	4.240	3.693	3.283	3.556	3.146	3.693	8.207	8.207
142.0	4.514	4.377	4.104	3.693	3.693	3.830	3.967	4.377	8.754	8.070
142.5	4.651	4.788	3.967	4.514	3.693	4.514	4.104	4.788	8.754	8.754
143.0	4.924	4.240	3.693	4.104	3.693	5.061	4.514	5.061	9.165	9.165
143.5	5.061	4.651	4.788	4.514	4.377	5.471	4.377	4.788	9.028	10.259
144.0	4.924	5.471	4.240	4.240	4.377	5.061	4.514	5.335	9.165	8.754
144.5	5.198	4.788	3.967	4.514	4.514	5.061	4.924	5.335	9.985	9.575
145.0	5.061	5.061	4.924	4.924	5.198	5.335	5.061	5.608	10.259	9.575
145.5	5.471	6.019	5.198	4.924	4.514	5.471	5.061	6.019	10.396	9.849
146.0	6.292	6.019	5.745	6.019	5.335	6.155	5.061	6.019	10.259	10.533
146.5	5.745	5.608	5.608	5.471	5.471	6.292	5.471	6.839	10.806	10.122
147.0	6.429	6.292	5.608	6.566	5.471	6.292	6.019	6.703	10.943	11.216
147.5	6.566	7.250	5.335	5.882	5.471	5.608	6.703	6.703	10.943	10.669
148.0	7.250	6.292	6.019	6.155	6.019	6.566	6.839	6.566	11.490	12.037
148.5	7.250	7.660	6.839	6.155	6.155	6.566	6.429	6.566	12.037	12.037
149.0	7.660	7.660	6.019	6.976	6.839	7.386	6.703	7.250	11.490	12.311
149.5	7.660	7.386	6.839	6.976	7.250	8.344	6.976	7.660	12.174	11.900
150.0	8.481	6.839	7.250	7.250	6.839	7.797	7.934	8.207	11.764	12.858
150.5	8.207	8.344	7.250	7.113	7.250	7.934	8.344	8.070	12.721	12.174
151.0	9.575	8.070	8.070	7.386	8.344	8.070	7.797	8.754	12.311	13.131
151.5	8.891	8.618	8.344	8.070	7.934	7.660	8.344	8.618	13.268	13.542
152.0	8.754	8.207	8.618	7.934	7.934	8.618	7.797	8.891	12.311	13.679
152.5	8.481	9.438	8.891	9.165	8.207	8.754	8.754	10.122	13.542	13.952
153.0	9.575	8.481	9.438	8.344	8.481	9.165	8.618	9.301	14.089	13.679
153.5	9.301	9.301	9.165	8.618	9.028	9.985	9.438	10.122	14.089	13.542
154.0	9.849	9.028	9.438	9.028	9.028	8.754	9.301	10.533	14.636	14.636
154.5	10.122	10.669	9.575	9.712	8.754	9.712	10.122	10.669	15.183	14.089
155.0	9.849	10.533	9.712	9.575	9.712	9.712	10.669	10.943	14.226	13.815
155.5	10.533	10.533	10.122	10.259	10.806	10.122	9.985	11.627	15.046	15.594
156.0	10.943	10.943	9.985	10.396	10.396	10.669	10.533	11.353	14.636	15.594
156.5	11.216	10.943	10.396	10.122	10.396	11.353	10.533	11.490	14.910	14.636
157.0	11.353	11.900	10.396	11.627	10.669	10.943	10.669	11.627	15.183	15.730
157.5	11.627	11.353	10.806	10.943	11.900	11.216	11.627	11.764	14.910	15.183
158.0	11.490	11.216	10.943	11.900	11.900	12.174	11.627	12.174	15.867	15.320
158.5	12.174	12.174	11.900	10.533	11.900	11.216	12.037	12.174	15.183	16.141
159.0	12.311	12.858	11.080	11.764	11.627	12.037	11.627	12.995	16.551	16.414
159.5	12.037	13.405	11.900	12.584	11.900	12.037	12.584	12.584	15.730	15.594
160.0	13.405	13.405	11.900	11.900	12.174	12.037	12.858	13.405	16.961	16.141
160.5	13.131	13.405	12.174	12.858	12.858	12.721	13.131	14.363	16.825	16.141
161.0	13.405	13.268	12.858	13.542	12.995	12.858	13.268	13.542	16.825	16.961
161.5	14.089	13.405	13.679	12.995	13.405	13.815	12.995	13.679	16.688	17.235
162.0	13.131	13.405	13.131	13.405	12.858	13.268	13.405	13.405	16.688	17.782
162.5	13.815	14.226	14.226	12.995	12.995	14.226	14.499	14.089	16.551	17.372
163.0	13.815	13.815	14.089	13.542	14.089	14.089	14.636	14.636	16.414	17.919
163.5	13.952	14.499	14.363	13.952	13.131	14.226	14.499	14.773	17.645	16.414
164.0	14.499	13.815	14.363	15.320	13.815	15.320	14.226	14.363	16.688	16.961
164.5	15.046	14.363	13.952	14.636	13.815	14.226	14.499	15.183	17.645	16.551
165.0	15.867	14.773	14.499	14.089	15.730	14.636	15.320	15.457	17.645	16.961
165.5	14.636	14.910	15.046	14.226	13.952	14.363	15.046	15.730	17.372	18.193
166.0	14.499	15.457	14.499	15.457	15.320	14.773	15.457	15.457	17.645	17.919

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CANDELA TABULATION - (Cont.)

166.5	16.414	15.867	14.773	14.773	15.457	16.004	14.499	15.320	18.193	18.466
167.0	15.457	15.183	14.910	15.046	14.773	15.867	14.910	16.004	18.193	18.876
167.5	15.867	15.457	15.867	15.046	15.457	15.730	16.004	16.141	18.876	18.193
168.0	16.004	16.414	16.004	15.320	16.141	16.004	15.046	16.004	17.919	18.329
168.5	16.551	16.551	16.961	15.867	15.046	16.278	16.278	16.961	18.329	18.193
169.0	16.414	16.278	15.320	15.457	15.867	15.457	16.141	16.688	18.876	18.466
169.5	16.961	16.688	16.551	17.235	15.867	16.551	16.414	17.098	19.013	18.603
170.0	17.098	16.551	16.414	16.141	16.141	16.551	17.235	17.782	19.287	18.740
170.5	17.098	17.782	16.414	17.098	15.457	16.961	16.825	17.098	18.329	18.876
171.0	17.645	16.141	16.825	16.688	16.688	17.235	17.645	17.098	19.287	19.013
171.5	17.372	16.278	16.825	16.688	17.098	16.551	16.825	17.372	19.287	18.603
172.0	17.782	16.688	16.961	17.098	16.961	17.098	16.961	17.235	19.013	18.740
172.5	16.688	17.372	16.961	17.372	17.098	18.329	16.688	17.645	19.150	18.603
173.0	17.645	16.961	16.961	17.782	17.919	16.961	17.919	18.466	19.287	19.560
173.5	18.466	17.235	17.372	17.372	17.098	17.098	17.645	17.782	19.424	19.013
174.0	17.645	18.056	17.372	17.782	17.235	16.688	17.919	17.372	19.560	17.919
174.5	19.287	16.688	18.056	17.645	17.098	17.919	17.919	18.329	18.876	19.150
175.0	18.876	18.193	18.329	18.193	17.919	18.603	18.193	18.603	19.287	19.424
175.5	18.329	17.372	17.372	17.645	18.740	18.603	18.740	18.056	19.013	19.150
176.0	18.193	18.193	17.645	18.466	17.919	17.782	17.919	19.013	19.287	18.876
176.5	17.919	18.603	18.466	18.466	18.876	18.466	19.287	18.740	19.424	19.013
177.0	17.919	19.013	18.603	18.193	19.150	18.603	19.287	19.150	19.013	18.740
177.5	18.876	18.603	19.560	18.193	18.740	18.603	18.603	18.603	20.244	19.150
178.0	17.919	19.013	18.329	18.193	19.013	19.013	18.740	18.740	19.150	18.603
178.5	18.329	19.013	18.740	18.466	18.329	19.424	19.834	18.329	18.876	18.740
179.0	18.329	18.193	19.834	19.013	19.424	19.013	18.466	19.013	19.424	19.560
179.5	19.150	19.150	18.329	19.560	19.287	18.876	18.876	19.287	19.560	19.697
180.0	18.931	18.931	18.931	18.931	18.931	18.931	18.931	18.931	18.931	18.931

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	74010.80374010	74010.80374010	74010.80374010	74010.80374010	74010.80374010	74010.80374010	74010.80374010
0.5	74376.29573959	74376.29573959	74376.29573959	74376.29573959	74376.29573959	74376.29573959	74376.29573959
1.0	74277.67273810	74277.67273810	74277.67273810	74277.67273810	74277.67273810	74277.67273810	74277.67273810
1.5	74147.86273625	74147.86273625	74147.86273625	74147.86273625	74147.86273625	74147.86273625	74147.86273625
2.0	73999.86073433	73999.86073433	73999.86073433	73999.86073433	73999.86073433	73999.86073433	73999.86073433
2.5	73802.88873221	73802.88873221	73802.88873221	73802.88873221	73802.88873221	73802.88873221	73802.88873221
3.0	73602.77072956	73602.77072956	73602.77072956	73602.77072956	73602.77072956	73602.77072956	73602.77072956
3.5	73377.34772685	73377.34772685	73377.34772685	73377.34772685	73377.34772685	73377.34772685	73377.34772685
4.0	73109.93072357	73109.93072357	73109.93072357	73109.93072357	73109.93072357	73109.93072357	73109.93072357
4.5	72836.63272010	72836.63272010	72836.63272010	72836.63272010	72836.63272010	72836.63272010	72836.63272010
5.0	72500.68571636	72500.68571636	72500.68571636	72500.68571636	72500.68571636	72500.68571636	72500.68571636
5.5	72168.97971196	72168.97971196	72168.97971196	72168.97971196	72168.97971196	72168.97971196	72168.97971196
6.0	71810.73770772	71810.73770772	71810.73770772	71810.73770772	71810.73770772	71810.73770772	71810.73770772
6.5	71383.55470315	71383.55470315	71383.55470315	71383.55470315	71383.55470315	71383.55470315	71383.55470315
7.0	70969.91369769	70969.91369769	70969.91369769	70969.91369769	70969.91369769	70969.91369769	70969.91369769
7.5	70520.43469265	70520.43469265	70520.43469265	70520.43469265	70520.43469265	70520.43469265	70520.43469265
8.0	69993.26168674	69993.26168674	69993.26168674	69993.26168674	69993.26168674	69993.26168674	69993.26168674
8.5	69493.03568105	69493.03568105	69493.03568105	69493.03568105	69493.03568105	69493.03568105	69493.03568105
9.0	68918.12367512	68918.12367512	68918.12367512	68918.12367512	68918.12367512	68918.12367512	68918.12367512
9.5	68349.09366836	68349.09366836	68349.09366836	68349.09366836	68349.09366836	68349.09366836	68349.09366836
10.0	67765.15466198	67765.15466198	67765.15466198	67765.15466198	67765.15466198	67765.15466198	67765.15466198
10.5	67090.11565531	67090.11565531	67090.11565531	67090.11565531	67090.11565531	67090.11565531	67090.11565531
11.0	66462.81464754	66462.81464754	66462.81464754	66462.81464754	66462.81464754	66462.81464754	66462.81464754
11.5	65808.84064028	65808.84064028	65808.84064028	65808.84064028	65808.84064028	65808.84064028	65808.84064028

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12.0	65038.32563199.92163954.02262775.74864319.92563895.88867291.737
12.5	64314.04362421.74563119.21761884.31363576.21963071.47966612.185
13.0	63497.15761627.42962344.18861061.40962728.00962302.33165916.354
13.5	62745.92860712.05761449.60760214.70361932.05161422.79765121.901
14.0	61972.26759871.23460629.84959245.57461127.06660594.01164381.205
14.5	61106.27459000.45459790.53058349.48960189.26159744.15963517.948
15.0	60293.76658016.41558806.35557350.40459324.50058773.52662717.614
15.5	59450.06957124.84457905.89256437.90558346.34357884.96461891.700
16.0	58479.29956113.85957000.91655508.99157442.87256982.99760950.749
16.5	57584.85655174.41355967.49854444.24956521.48155973.51660069.847
17.0	56578.24754229.22155020.80253472.11155477.66755054.99859155.843
17.5	55655.35253170.49853961.80552501.34154527.96254017.06658132.820
18.0	54726.57552193.70952986.79451420.18453576.61553062.84757202.539
18.5	53673.59751212.54352002.48250444.90052508.86452099.60056152.569
19.0	52713.49650104.57650922.83049372.77151550.13151054.28155192.468
19.5	51733.83449129.29249949.18748415.40650495.64750113.46754227.717
20.0	50634.62248031.58448982.93147458.17749538.41949171.14853156.956
20.5	49641.55647037.15047895.75646371.00248594.73248115.29752193.709
21.0	48656.01246029.03746923.61845395.85547522.46747155.19651226.085
21.5	47520.96244906.16145926.03744411.81646548.82446073.90350147.801
22.0	46503.95843914.46244817.93443330.52345569.16345097.25149172.653
22.5	45366.03542922.90143832.25442365.77144481.98744124.97648079.459
23.0	44363.94141826.69842751.23441295.14743503.83143045.32447086.393
23.5	43369.37040863.45141780.46440334.77342424.04242080.57246097.841
24.0	42283.70039916.61840827.61339387.94041468.31841011.31645009.024
24.5	41323.59938880.32739776.27538372.57740522.99040061.61144022.113
25.0	40257.21537979.72838851.87637476.49239470.14839129.68843031.919
25.5	39311.88737009.23137940.88136595.45438542.73938115.69341958.149
26.0	38401.02936154.86636955.33835636.58437633.38637222.61841008.307
26.5	37407.96335309.66536081.82234788.37436643.19236341.57939943.565
27.0	36534.17434383.76135136.35733864.11135766.53135373.95539001.246
27.5	35672.55933560.85634291.15733059.12534816.82534524.10338076.983
28.0	34751.16832675.30433459.36132258.65333976.13933680.40737062.851
28.5	33938.65931904.78832578.18631400.04833154.73932776.93636172.785
29.0	33145.71131158.07331806.16530651.82832269.04932001.90635305.151
29.5	32291.61930348.57430968.48829936.57431505.92031168.60634355.446
30.0	31538.88629651.23930233.67329195.74130759.34230441.31533528.028
30.5	30739.91828991.10929534.69728576.10129966.39429745.34732642.475
31.0	30045.59328313.19828810.55227929.37629307.76929033.10331880.851
31.5	29374.93127753.19628195.28827391.67128611.80228431.24431126.613
32.0	28671.57727184.16627630.63626903.48128029.36727866.72830330.792
32.5	28081.75626712.25527061.74326406.12827477.02527287.30329658.762
33.0	27541.04126280.69526601.73225997.00126921.40026803.49129046.371
33.5	26999.09525834.22526173.18125607.29726465.90326358.38928414.830
34.0	26558.37025454.91825720.69325198.03426006.02825899.88327884.511
34.5	26096.99125103.92525348.90924866.46425610.17025519.07027393.312
35.0	25708.79224748.55524960.57324520.12225235.37625118.83426888.572
35.5	25344.39524442.29124637.89524212.35424856.06924776.86926473.289
36.0	24969.60124145.19224325.88623915.25424531.88624451.31926037.352
36.5	24654.44623833.04623989.80323598.59524212.35424110.85825666.936
37.0	24354.33723561.38923700.09023320.78223874.76623812.11825317.585
37.5	24034.66923267.16223416.53323044.61223580.67623518.02824950.177
38.0	23761.37023005.76423119.29722736.84323299.85423204.37824636.527
38.5	23456.74822729.45722849.00822466.55422990.71822919.17924296.067
39.0	23192.47722426.33922550.26722187.37422710.03322599.64724006.354
39.5	22928.20722148.52622279.97821858.81422404.04322323.20223727.037

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CANDELA TABULATION - (Cont.)

40.0	22617.42921854.30021996.28421546.80522127.59822052.91323429.801
40.5	22324.84421492.91121658.69621188.28921842.39921742.40923159.512
41.0	21970.84121146.43221345.04520844.81921500.43421449.55022881.699
41.5	21636.40020726.77321006.09020477.41221180.76521133.02722571.195
42.0	21280.89320310.25920598.46720032.44720846.32420759.73822294.887
42.5	20858.36119845.87120196.72719590.35520456.48420395.34021970.841
43.0	20443.07919281.35519717.29219112.56120075.80819960.77121661.705
43.5	19999.48218746.65919245.38018551.05519663.53519536.73421327.263
44.0	19466.56318194.18018745.15418014.99019161.80419072.20920919.504
44.5	18946.64017562.36518147.80917390.56218677.99218516.58420516.259
45.0	18336.02716966.52517577.27516799.23618107.45817985.03420081.690
45.5	17761.11516264.67616985.94916182.46817565.51117424.89519562.040
46.0	17159.12015607.55716299.01015464.20516990.46316785.83119057.300
46.5	16466.29914941.40915652.42214808.58916313.91916185.47718527.117
47.0	15824.08914188.94914917.60814060.50715689.62815491.15217907.340
47.5	15168.47313507.89114254.60613380.95415052.06914841.41817308.490
48.0	14427.77712819.44713583.94412699.89614336.67814174.03916618.679
48.5	13751.37012042.77712820.95211930.88613678.05313427.32415977.836
49.0	12986.73711339.42312136.88511240.93712929.97112749.27615313.330
49.5	12298.29310567.53911455.96510552.49312253.56412081.76114571.129
50.0	11597.8129867.058 10691.3319783.345 11561.97411324.51313890.208
50.5	10819.7739163.705 10002.8879083.001 10800.34910646.46513204.637
51.0	10113.5478396.062 9227.857 8397.566 10109.0339883.473 12431.112
51.5	9410.193 7761.375 8540.918 7734.565 9418.947 9198.038 11732.272
52.0	8647.064 6973.624 7862.870 6985.114 8657.460 8521.494 10955.601
52.5	7969.016 6333.602 7128.192 6270.818 7991.312 7816.636 10258.403
53.0	7314.768 5711.910 6484.614 5647.894 7264.021 7045.847 9562.436
53.5	6592.128 5046.583 5656.101 5043.710 6615.929 6489.949 8794.793
54.0	5741.182 4477.143 5186.652 4405.467 5716.150 5803.967 8110.863
54.5	5313.316 3931.093 4605.311 3863.384 5317.419 5201.972 7623.905
55.0	4737.310 3358.233 4002.495 3296.953 4737.720 4560.035 6697.590
55.5	4186.472 2878.525 3496.524 2824.905 4123.551 4002.769 6068.785
56.0	3602.396 2442.861 3006.830 2394.302 3595.830 3478.331 5378.699
56.5	3113.660 2016.089 2508.519 1965.341 3102.854 2937.343 4771.917
57.0	2616.853 1685.204 2119.362 1628.985 2600.439 2490.600 4199.330
57.5	2217.848 1397.269 1779.039 1345.154 2198.972 2086.944 3608.278
58.0	1862.615 1145.036 1457.181 1107.009 1849.210 1706.679 3112.702
58.5	1526.942 983.765 1220.678 948.885 1515.315 1414.914 2601.807
59.0	1285.515 866.676 1039.300 821.810 1264.723 1177.864 2190.217
59.5	1086.902 791.444 900.599 757.658 1055.851 982.260 1832.249
60.0	950.389 746.715 818.254 694.463 923.989 870.233 1496.712
60.5	852.587 704.311 758.478 664.780 824.409 779.270 1242.427
61.0	776.671 681.194 722.777 644.946 742.611 742.611 1040.668
61.5	739.875 659.992 698.156 626.890 700.481 683.109 892.118
62.0	716.212 636.465 673.945 607.740 677.501 658.077 807.858
62.5	691.316 615.537 653.016 591.736 656.573 639.885 752.870
63.0	671.346 594.609 633.593 572.860 638.517 621.829 698.019
63.5	648.502 577.647 613.896 556.993 621.692 606.509 668.884
64.0	629.489 562.327 598.165 542.767 603.500 591.189 643.852
64.5	611.297 546.734 582.435 528.404 588.864 574.501 623.197
65.0	593.514 533.192 568.893 516.094 572.997 560.275 604.184
65.5	578.058 519.650 532.371 503.509 521.702 546.460 586.538
66.0	562.738 503.646 539.484 487.779 542.493 532.098 572.449
66.5	542.630 488.052 524.711 473.143 531.824 518.966 558.087
67.0	532.918 470.133 507.202 456.865 518.966 503.236 545.639
67.5	516.914 451.531 490.241 438.536 505.287 487.095 533.192

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CANDELA TABULATION - (Cont.)

68.0	500.910	432.517	473.964	422.395	489.147	470.681	518.009
68.5	485.317	412.820	456.181	403.655	472.869	452.625	503.920
69.0	465.756	394.901	439.220	385.463	453.309	434.159	489.420
69.5	446.606	374.520	420.480	367.407	434.706	415.419	470.817
70.0	427.867	354.823	397.363	345.521	415.556	397.363	452.762
70.5	407.075	334.715	377.256	327.466	395.312	380.539	433.201
71.0	387.378	315.839	357.695	308.589	376.709	362.346	415.966
71.5	366.450	300.656	339.093	293.269	359.337	341.555	399.142
72.0	349.351	286.293	323.909	277.402	338.956	323.089	379.171
72.5	332.253	267.280	306.264	258.115	318.985	302.844	359.200
73.0	312.693	248.403	289.576	241.564	297.920	286.156	342.102
73.5	294.637	230.484	272.478	225.423	281.916	269.605	323.909
74.0	277.676	211.745	253.738	207.641	267.553	250.045	308.316
74.5	259.893	196.835	236.777	190.406	247.993	232.947	289.302
75.0	241.154	179.326	218.174	173.855	228.022	216.669	270.973
75.5	216.532	164.006	202.306	155.799	209.556	199.708	252.370
76.0	198.203	148.960	188.081	142.257	191.911	181.515	233.767
76.5	182.746	132.956	173.171	129.536	176.317	161.407	219.405
77.0	169.341	120.235	159.629	116.268	157.030	146.224	205.726
77.5	153.884	106.283	143.762	100.948	141.163	132.546	189.312
78.0	137.333	88.911	125.980	84.944	127.895	117.910	174.129
78.5	120.098	75.096	110.660	72.497	115.037	103.957	158.261
79.0	106.830	64.153	95.340	61.964	101.769	90.142	141.300
79.5	93.014	55.535	82.208	54.030	87.133	76.463	126.253
80.0	79.609	48.422	69.351	45.276	73.317	64.563	110.523
80.5	67.983	38.027	56.766	36.932	62.785	54.304	98.212
81.0	57.450	28.588	43.224	27.768	54.030	47.465	85.354
81.5	45.823	22.159	33.786	19.424	41.720	39.531	70.308
82.0	36.795	13.679	24.621	11.216	33.102	29.272	57.860
82.5	28.315	7.797	19.013	5.471	24.485	22.296	49.653
83.0	21.886	4.104	13.268	1.915	16.414	14.499	41.309
83.5	14.363	1.368	10.259	0.684	11.080	6.839	29.546
84.0	9.165	0.274	6.566	0.274	6.566	2.189	20.791
84.5	7.113	0.000	4.240	0.000	3.556	0.137	16.551
85.0	3.830	0.000	3.009	0.000	3.283	0.000	9.712
85.5	3.556	0.000	2.599	0.000	2.325	0.000	5.335
86.0	2.325	0.000	1.641	0.000	1.368	0.000	2.873
86.5	1.505	0.000	2.052	0.000	1.094	0.000	0.684
87.0	1.231	0.000	1.094	0.000	1.778	0.000	0.547
87.5	1.641	0.000	1.505	0.000	2.052	0.000	0.000
88.0	1.778	0.000	1.231	0.000	1.778	0.000	0.000
88.5	1.505	0.000	1.094	0.000	0.958	0.000	0.000
89.0	1.094	0.000	1.505	0.000	0.958	0.000	0.000
89.5	1.231	0.000	0.958	0.000	1.094	0.000	0.000
90.0	1.505	0.000	0.821	0.000	1.094	0.000	0.000
90.5	1.778	0.000	0.958	0.000	0.684	0.000	0.000
91.0	1.231	0.000	0.821	0.000	0.684	0.000	0.000
91.5	0.821	0.000	0.958	0.000	0.958	0.000	0.000
92.0	0.958	0.000	0.684	0.000	0.958	0.000	0.000
92.5	0.410	0.000	0.821	0.000	0.684	0.000	0.000
93.0	0.821	0.000	1.231	0.000	0.684	0.000	0.000
93.5	0.684	0.000	0.547	0.000	0.958	0.000	0.000
94.0	0.684	0.000	0.684	0.000	0.684	0.000	0.000
94.5	0.547	0.000	0.547	0.000	0.684	0.000	0.000
95.0	0.684	0.000	0.547	0.000	0.410	0.000	0.000
95.5	1.094	0.000	0.274	0.000	0.684	0.000	0.000

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

96.0	0.684	0.000	0.684	0.000	0.547	0.000	0.000
96.5	0.821	0.000	0.547	0.000	0.547	0.000	0.000
97.0	1.094	0.000	0.547	0.000	0.684	0.000	0.000
97.5	0.547	0.000	0.684	0.000	0.410	0.000	0.000
98.0	0.821	0.000	0.821	0.000	0.684	0.000	0.000
98.5	0.958	0.000	0.958	0.000	0.274	0.000	0.000
99.0	0.547	0.000	0.547	0.000	0.137	0.000	0.000
99.5	0.684	0.000	0.410	0.000	0.821	0.000	0.000
100.0	0.684	0.000	0.958	0.000	0.684	0.000	0.000
100.5	0.684	0.000	0.547	0.000	0.274	0.000	0.000
101.0	0.547	0.000	0.821	0.000	1.094	0.000	0.000
101.5	0.958	0.000	0.137	0.000	0.684	0.000	0.000
102.0	1.368	0.000	0.410	0.000	0.274	0.000	0.000
102.5	0.684	0.000	0.547	0.000	0.274	0.000	0.000
103.0	0.274	0.000	0.684	0.000	0.684	0.000	0.000
103.5	0.684	0.000	0.274	0.000	0.410	0.000	0.000
104.0	0.684	0.000	0.821	0.000	0.410	0.000	0.000
104.5	0.684	0.000	0.547	0.000	0.547	0.000	0.000
105.0	0.684	0.000	0.410	0.000	0.684	0.000	0.000
105.5	0.274	0.000	0.684	0.000	0.410	0.000	0.000
106.0	0.684	0.137	0.684	0.000	0.410	0.000	0.000
106.5	0.410	0.000	0.410	0.137	0.410	0.000	0.000
107.0	0.547	0.000	0.958	0.000	0.821	0.000	0.000
107.5	0.274	0.000	0.547	0.000	0.547	0.000	0.000
108.0	0.410	0.000	0.684	0.000	0.410	0.000	0.000
108.5	0.684	0.137	1.094	0.137	0.684	0.137	0.000
109.0	0.684	0.000	0.821	0.000	0.821	0.000	0.000
109.5	0.958	0.274	0.547	0.000	0.821	0.274	0.000
110.0	1.094	0.274	0.821	0.000	0.684	0.137	0.000
110.5	1.094	0.410	0.547	0.137	0.958	0.137	0.000
111.0	0.410	0.000	0.821	0.137	1.094	0.000	0.000
111.5	0.684	0.000	0.958	0.274	0.684	0.000	0.000
112.0	1.231	0.137	1.094	0.274	0.821	0.000	0.000
112.5	1.094	0.274	0.958	0.000	1.094	0.000	0.000
113.0	0.958	0.274	0.547	0.684	1.094	0.137	0.000
113.5	0.821	0.547	1.505	0.410	0.684	0.410	0.000
114.0	1.368	0.410	1.505	0.137	0.958	0.137	0.000
114.5	0.821	0.410	0.821	0.137	1.094	0.684	0.000
115.0	1.505	0.821	0.821	0.684	0.821	0.274	0.000
115.5	1.231	0.274	1.231	0.274	0.821	0.958	0.000
116.0	1.231	0.410	1.505	0.410	1.231	0.274	0.000
116.5	1.094	0.821	1.641	0.410	1.231	0.821	0.000
117.0	1.231	1.094	1.505	0.821	1.231	0.410	0.274
117.5	1.641	0.547	1.915	0.410	0.958	0.547	0.000
118.0	1.641	0.821	1.368	0.958	1.505	0.547	0.137
118.5	1.778	0.958	1.641	0.410	1.505	0.684	0.000
119.0	1.505	1.368	2.189	0.821	1.641	0.684	0.000
119.5	1.368	1.368	2.052	0.958	1.915	0.821	0.000
120.0	1.641	0.958	2.873	1.505	1.915	0.958	0.274
120.5	1.641	0.958	1.915	1.368	2.189	1.094	0.137
121.0	1.505	1.231	1.641	1.641	2.052	1.231	0.000
121.5	1.778	1.641	2.325	1.231	2.189	1.368	0.274
122.0	2.325	1.231	2.325	1.641	3.146	1.368	0.137
122.5	2.599	1.641	2.873	2.052	2.052	1.778	0.547
123.0	2.325	1.641	2.325	2.599	2.736	1.368	0.547
123.5	2.736	1.915	2.325	2.052	2.189	1.915	0.547

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

124.0	2.325	1.778	2.736	2.052	2.873	1.641	0.958
124.5	2.873	1.915	2.736	1.915	2.873	2.599	0.000
125.0	2.599	2.052	3.283	2.325	2.736	2.599	0.410
125.5	2.736	2.873	3.967	1.641	3.556	1.778	0.410
126.0	2.873	1.915	3.283	2.189	3.693	2.189	0.821
126.5	3.009	2.736	4.377	2.736	3.556	3.009	0.821
127.0	3.693	3.009	3.830	3.146	3.693	2.325	0.821
127.5	3.830	2.599	3.146	3.283	3.967	2.325	0.547
128.0	3.830	3.283	4.240	3.420	3.967	3.009	0.958
128.5	4.104	3.556	3.967	3.556	3.283	3.009	0.821
129.0	3.830	3.420	4.377	3.420	3.967	3.556	1.094
129.5	4.240	3.693	4.924	3.283	4.377	3.283	1.094
130.0	4.240	4.104	4.651	3.146	4.924	3.556	1.641
130.5	4.788	3.556	4.240	4.377	4.788	4.240	1.368
131.0	4.514	3.967	4.924	3.967	5.471	3.830	1.505
131.5	4.651	4.104	4.788	4.788	4.514	3.967	2.052
132.0	5.198	4.788	5.608	3.830	5.471	4.651	1.641
132.5	5.061	4.240	5.745	5.335	5.745	3.967	1.368
133.0	6.019	4.924	5.882	4.651	5.745	5.335	1.641
133.5	5.198	5.608	5.745	5.198	6.292	4.651	2.052
134.0	6.155	5.061	6.019	5.335	6.155	5.061	1.915
134.5	6.155	4.788	5.882	4.924	5.745	5.745	1.915
135.0	6.429	5.745	6.566	6.019	6.429	5.335	2.189
135.5	6.019	6.429	6.292	5.745	6.566	5.745	2.599
136.0	6.019	5.882	6.839	5.608	7.113	6.155	2.599
136.5	7.386	6.019	7.250	6.019	7.250	6.703	2.736
137.0	6.976	6.566	7.386	6.839	7.386	6.292	2.052
137.5	7.113	7.250	7.113	6.839	7.797	6.703	2.599
138.0	7.113	6.566	7.386	7.250	6.976	6.703	2.736
138.5	7.797	6.976	7.797	7.113	8.207	7.113	3.420
139.0	8.207	7.934	8.344	8.207	8.070	7.113	3.693
139.5	8.070	7.660	8.070	7.797	8.070	8.207	3.283
140.0	8.754	8.070	8.891	9.301	8.207	7.660	4.377
140.5	7.934	8.891	9.301	7.797	8.891	7.797	3.556
141.0	9.712	8.481	8.618	9.028	9.028	8.344	4.240
141.5	8.891	9.028	9.575	9.165	9.575	7.934	3.693
142.0	9.438	9.165	9.712	9.575	8.891	8.754	4.514
142.5	9.849	9.028	10.396	9.165	9.712	9.438	4.651
143.0	9.849	9.849	9.575	10.122	9.985	9.712	4.924
143.5	10.533	9.028	9.712	11.080	10.396	9.712	5.061
144.0	10.396	9.301	11.080	9.712	10.669	10.396	4.924
144.5	10.122	10.259	10.122	10.669	10.943	10.669	5.198
145.0	10.669	10.122	10.533	10.806	11.216	10.806	5.061
145.5	11.216	10.533	11.353	11.490	10.943	10.806	5.471
146.0	11.353	11.080	11.353	11.627	11.216	10.396	6.292
146.5	11.490	10.943	12.174	11.764	11.216	11.490	5.745
147.0	12.037	11.353	11.764	11.490	12.037	10.396	6.429
147.5	12.584	11.216	12.858	12.174	12.174	11.353	6.566
148.0	12.311	12.037	12.721	11.900	12.174	12.174	7.250
148.5	12.311	12.995	12.858	12.721	12.311	11.900	7.250
149.0	11.764	12.858	12.995	12.311	13.268	12.174	7.660
149.5	12.584	12.995	12.995	13.542	13.131	12.995	7.660
150.0	13.679	13.268	12.858	13.405	12.995	13.405	8.481
150.5	12.858	12.995	12.858	13.679	13.679	13.405	8.207
151.0	13.268	13.815	13.679	13.952	14.636	14.226	9.575
151.5	13.542	14.089	13.679	13.542	14.089	14.226	8.891

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

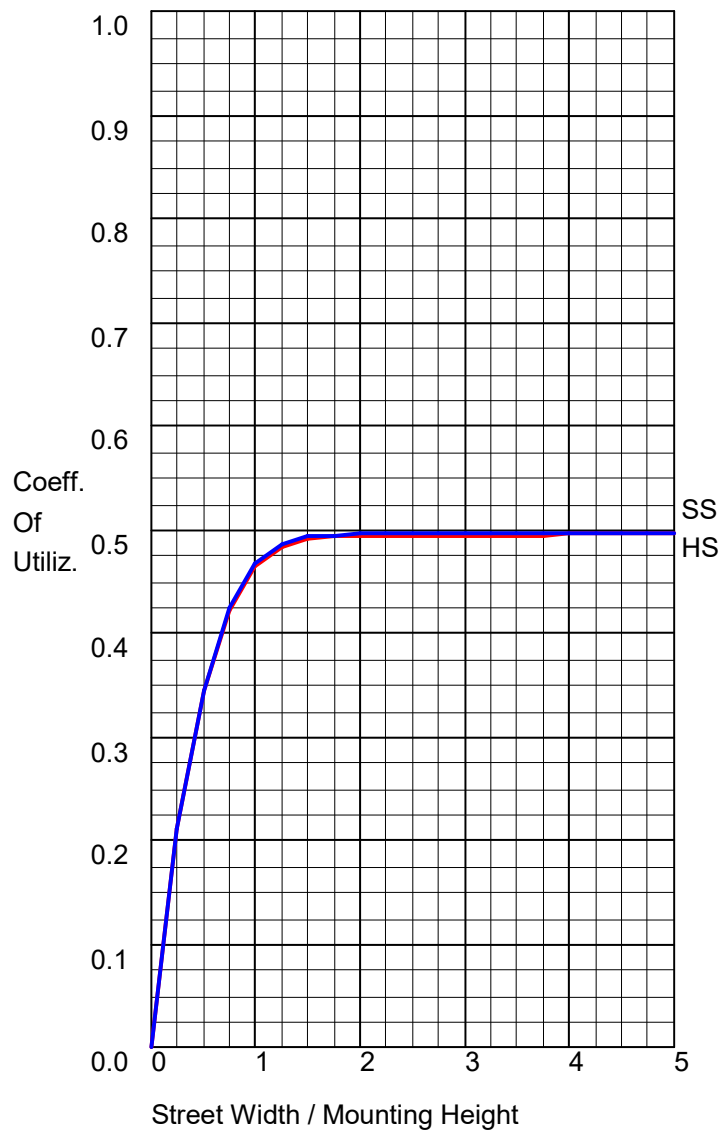
152.0	13.679	13.542	14.499	13.815	14.363	13.679	8.754
152.5	13.679	14.226	14.773	14.910	14.910	14.089	8.481
153.0	14.636	14.089	14.910	13.815	14.089	14.636	9.575
153.5	14.499	14.089	14.089	15.183	14.910	15.046	9.301
154.0	14.226	15.183	15.183	15.320	15.594	14.499	9.849
154.5	15.183	15.046	15.594	14.773	14.636	15.183	10.122
155.0	15.457	15.320	15.320	14.910	15.457	15.183	9.849
155.5	15.730	15.594	15.457	15.867	16.551	14.499	10.533
156.0	16.278	15.183	15.867	15.730	15.457	14.773	10.943
156.5	15.730	15.457	15.457	15.867	15.867	14.636	11.216
157.0	16.278	15.730	17.098	15.867	16.004	16.414	11.353
157.5	16.004	15.320	16.688	16.551	16.004	15.594	11.627
158.0	16.688	16.414	16.004	15.867	16.551	16.141	11.490
158.5	15.867	15.867	16.141	17.645	16.414	16.278	12.174
159.0	15.594	16.961	16.961	16.688	16.551	16.688	12.311
159.5	16.141	16.141	17.098	16.961	18.329	16.141	12.037
160.0	16.825	16.278	16.688	16.961	16.688	16.825	13.405
160.5	16.551	16.278	16.961	16.961	16.825	17.098	13.131
161.0	17.098	17.235	17.098	18.466	17.098	17.372	13.405
161.5	18.056	16.961	17.235	17.372	16.961	18.056	14.089
162.0	16.688	16.551	17.372	17.235	17.098	17.645	13.131
162.5	17.645	17.919	16.688	17.372	17.235	18.056	13.815
163.0	17.235	17.645	17.919	17.372	17.645	17.919	13.815
163.5	17.782	16.825	17.645	18.329	18.329	18.193	13.952
164.0	17.235	17.235	19.013	17.919	18.193	18.466	14.499
164.5	17.782	17.782	18.056	18.876	18.329	18.740	15.046
165.0	17.782	17.782	17.782	17.919	19.013	18.329	15.867
165.5	18.466	17.372	18.329	18.603	18.466	18.876	14.636
166.0	18.193	18.740	17.782	19.424	18.603	18.329	14.499
166.5	17.645	18.603	18.466	18.876	18.740	18.466	16.414
167.0	18.740	18.466	18.876	18.193	19.013	18.466	15.457
167.5	19.150	18.329	17.782	19.013	18.466	18.740	15.867
168.0	18.466	18.876	18.876	19.424	19.834	19.013	16.004
168.5	19.697	17.919	18.056	19.150	18.876	18.329	16.551
169.0	18.193	19.697	19.013	19.287	19.424	19.560	16.414
169.5	19.013	18.876	19.150	19.971	19.150	19.697	16.961
170.0	18.876	18.876	19.013	19.834	19.560	19.560	17.098
170.5	19.424	19.013	19.834	18.740	19.560	20.244	17.098
171.0	18.603	19.013	19.150	19.560	19.971	18.876	17.645
171.5	19.560	19.150	19.424	18.603	19.013	18.466	17.372
172.0	18.876	18.876	19.287	19.150	19.424	19.560	17.782
172.5	19.150	18.466	19.013	19.287	19.150	19.424	16.688
173.0	18.056	19.560	18.740	18.876	20.381	19.013	17.645
173.5	19.150	19.424	19.560	19.424	19.971	19.697	18.466
174.0	18.876	19.287	19.424	20.518	19.971	20.108	17.645
174.5	19.287	19.150	19.287	19.560	19.697	19.424	19.287
175.0	18.466	18.876	19.834	19.424	19.834	19.150	18.876
175.5	18.876	19.697	19.424	18.740	20.381	19.287	18.329
176.0	19.697	19.424	19.560	19.971	19.697	19.287	18.193
176.5	19.287	18.740	19.150	19.424	19.424	19.697	17.919
177.0	19.013	19.834	19.287	18.740	19.697	19.424	17.919
177.5	19.013	19.013	19.287	19.013	19.424	20.108	18.876
178.0	19.834	19.150	19.697	19.013	19.971	19.287	17.919
178.5	19.560	18.876	19.150	18.740	20.108	19.287	18.329
179.0	19.013	19.150	19.150	19.013	20.381	19.287	18.329
179.5	18.740	19.013	18.329	18.740	19.560	18.740	19.150

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

180.0	18.931	18.931	18.931	18.931	18.931	18.931	18.931
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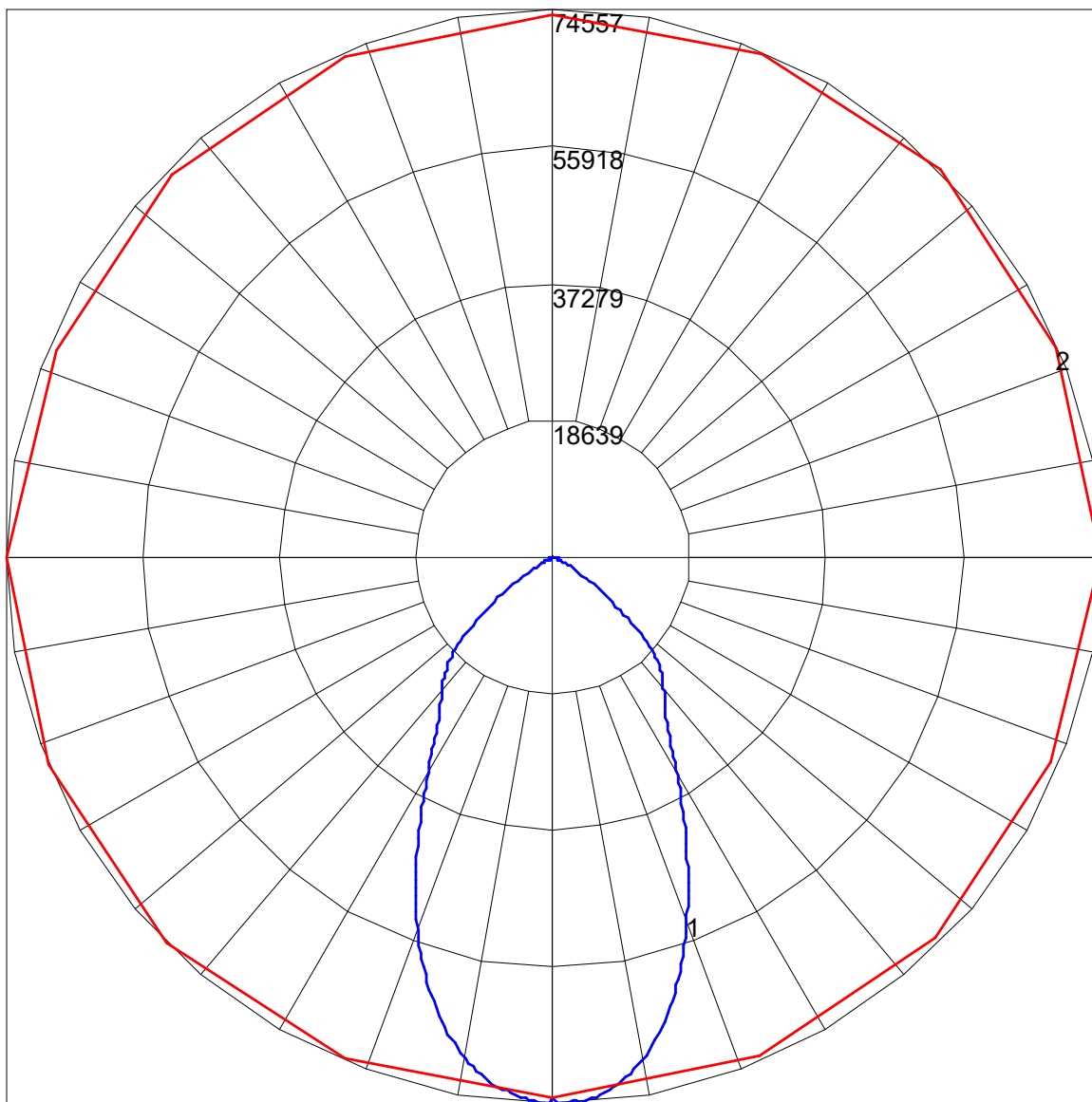
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

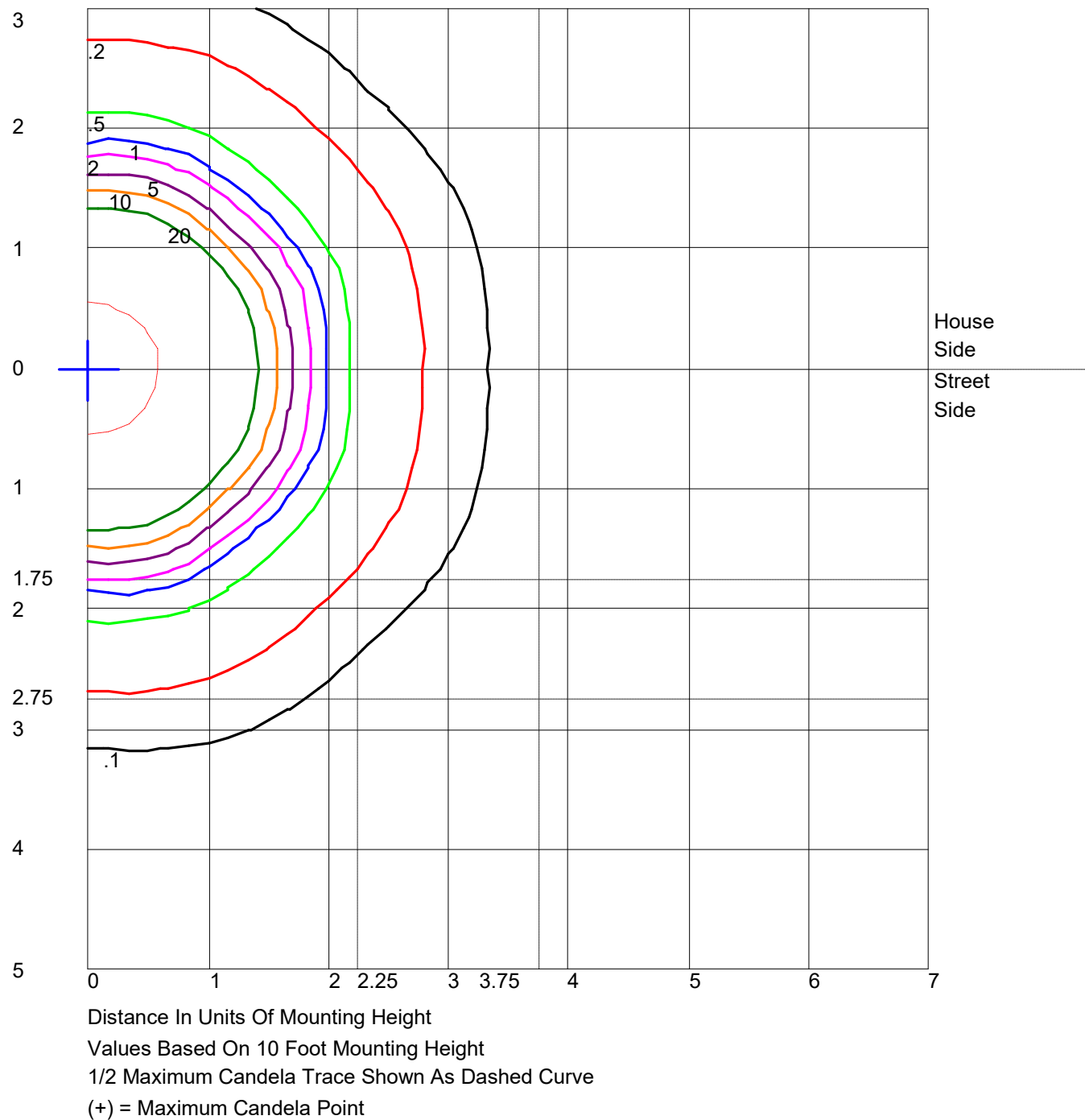
	Lumens	Percent Of Lamp
Downward Street Side	41295.7	49.6
Downward House Side	41496.0	49.8
Downward Total	82791.7	99.5
Upward Street Side	11.0	0.0
Upward House Side	11.8	0.0
Upward Total	22.8	0.0
Total Flux	82814.5	99.5

POLAR GRAPH

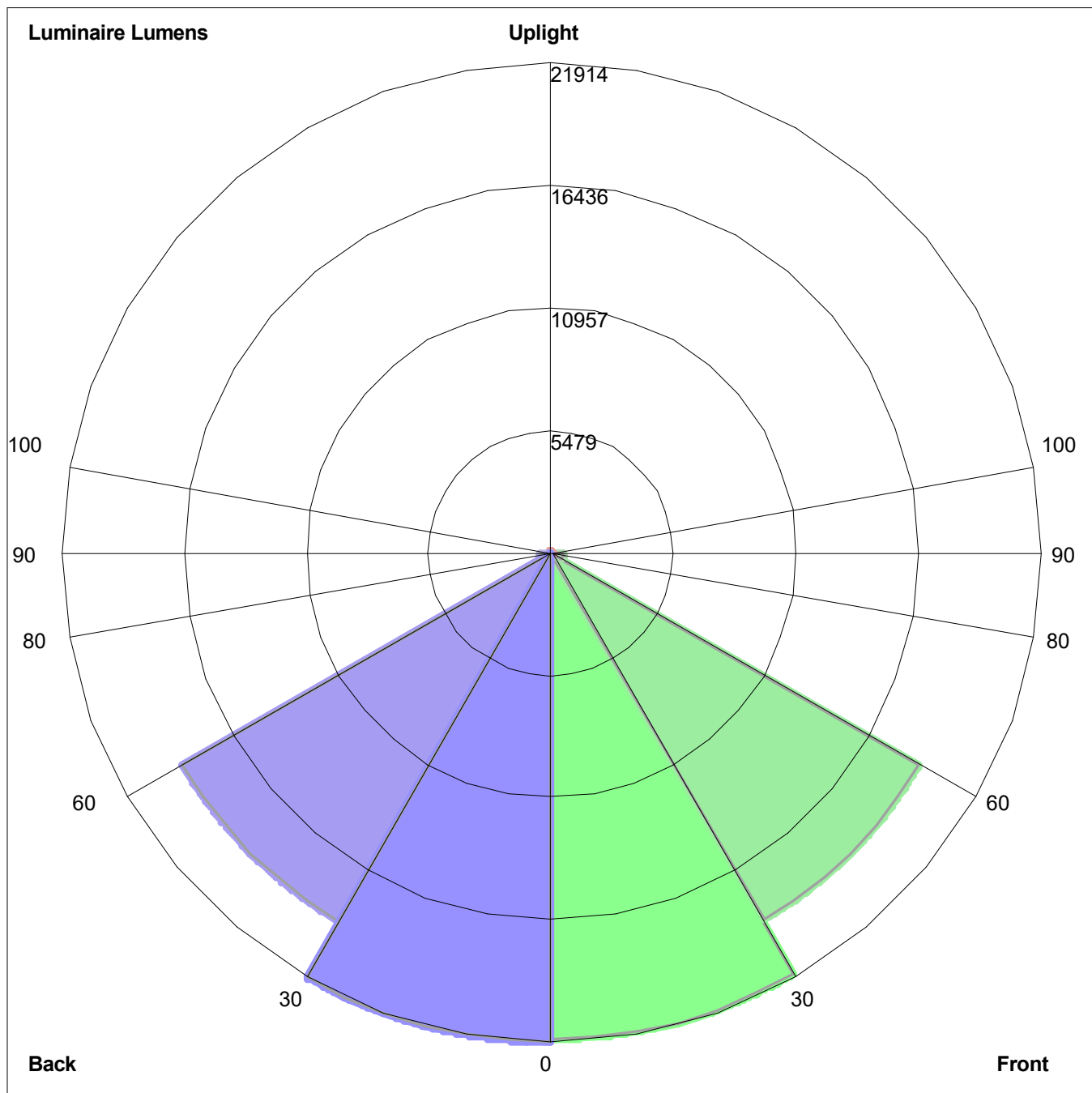


Maximum Candela = 74557.4 Located At Horizontal Angle = 360, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=21762.4, Medium=18982.7, High=532.4, Very High=18.1
Back: Low=21914.2, Medium=19008.8, High=552.6, Very High=20.4
Uplight: Low=0.4, High=22.4

BUG Rating : B5-U2-G2



IES ROAD REPORT

PHOTOMETRIC FILENAME : EPL-HB-2X300LED-RT-125DB.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] RADIANT ZEMAX
[TESTDATE] 20200629
[ISSUE DATE] 2020-06-29 12:57:43
[MANUFAC] Larson Electronics LLC
[LUMCAT] EPL-HB-2X300LED-RT-125DB
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED FIXTURE - 125 DEGREE BEAM
[LAMP] LED
[LAMPPOSITION] 0.0
[OTHER] ZVISION 9107GT SYSTEM

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	83245 (1 lamp)
Total Lamp Lumens	83245
Luminaire Lumens	83208
Downward Total Efficiency	100 %
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	597.92
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	40886.992
Maximum Candela Angle	180H 1V
Maximum Candela (<90 Degrees Vertical)	40886.992
Maximum Candela Angle (<90 Degrees Vertical)	180H 1V
Maximum Candela At 90 Degrees Vertical	4.255 (0.0% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	815.176 (1.0% Lamp Lumens)
Cutoff Classification (deprecated)	Cutoff



IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-HB-2X300LED-RT-125DB.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	15434.3	18.5	18.5
FM - Front-Medium (30-60)	23015.7	27.6	27.7
FH - Front-High (60-80)	2433.5	2.9	2.9
FVH - Front-Very High (80-90)	54.1	0.1	0.1
BL - Back-Low (0-30)	15551.4	18.7	18.7
BM - Back-Medium (30-60)	23998.9	28.8	28.8
BH - Back-High (60-80)	2621.2	3.1	3.2
BVH - Back-Very High (80-90)	77.4	0.1	0.1
UL - Uplight-Low (90-100)	1.0	0.0	0.0
UH - Uplight-High (100-180)	20.3	0.0	0.0
Total	83207.8	99.8	100.0
BUG Rating	B5-U2-G2		

IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-HB-2X300LED-RT-125DB.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	40464.11140464.11140464.11140464.11140464.11140464.11140464.11140464.11140464.11140464.11140464.111									
0.5	40876.75240731.53740579.14040481.93140370.09340290.17140203.06940124.61040886.99240741.776									
1.0	40866.51340725.68540563.18240468.76540352.67340281.52840192.96240121.81740886.99240743.239									
1.5	40854.94340709.86140539.91040452.80840329.53440267.03340177.00440118.89140885.39640740.313									
2.0	40840.44840695.23340515.30940426.74340303.33740252.53840163.83940113.17340881.14140735.925									
2.5	40818.63940675.02040486.18640402.14240269.82540232.05840142.16340101.60440870.90140722.893									
3.0	40798.29340644.56740451.47840370.09340233.65440203.06940113.17340086.97640854.94340708.398									
3.5	40763.58540616.90740415.04140333.65640188.70740172.61640082.72040068.09240839.11940692.307									
4.0	40724.35640582.06640370.09340297.48540146.55140140.70040044.82140044.82140817.17740670.631									
4.5	40689.51440541.37340314.90640250.94240095.62040100.00840007.05440020.21940792.57540644.567									
5.0	40640.17840502.14440265.43740198.81340036.17740060.77839962.10639986.84140760.52740615.444									
5.5	40589.24740447.08940201.60640146.55139979.52740010.11339912.77039950.40440728.74440582.066									
6.0	40538.58140396.15840142.16340081.12539919.95139949.07439854.79039906.91940686.58940542.969									
6.5	40477.54240341.10340073.94440021.68239847.34339896.67939801.06639866.22740644.56740505.069									
7.0	40416.63740271.42139999.87339949.07439776.19839834.31139731.25139816.89140599.48640455.733									
7.5	40346.82140203.06939928.72839879.39239694.94739760.24039668.74939757.44840545.76240409.323									
8.0	40278.60240133.38639847.34339802.39639615.15839690.69139600.53039702.26140487.64940349.747									
8.5	40207.45740053.59739754.52239719.68139530.98139607.84439517.81539642.68540428.20640290.171									
9.0	40123.28039976.60139668.74939639.75939438.02739532.31039439.48939570.07740356.92840227.803									
9.5	40041.89539893.88739567.15239551.19439347.99839452.52239358.10539501.85840288.70940149.344									
10.0	39957.71839798.00739477.25639455.44739249.32639358.10539263.82139421.93640216.10140079.662									
10.5	39859.04639709.57539375.52539363.95639150.52139271.00239176.71839345.20640130.59439998.410									
11.0	39767.55439606.38139269.53939252.11939054.77439170.86739076.45039260.89540050.67239919.951									
11.5	39668.74939507.70939165.01639153.44638934.29339077.91338980.57139165.01639952.00039832.848									
12.0	39557.04539410.36639056.23739047.46038823.91838977.77838880.56939075.12039864.89739735.639									
12.5	39452.52239292.81138934.29338929.90538715.00738863.01538764.34338982.16639767.55439642.685									
13.0	39330.57839186.82538820.86038812.34938588.67438757.02938662.74538873.25539658.64339545.476									
13.5	39221.66639079.37638686.01738703.30438472.58238649.58038555.29638775.91239558.50839435.101									
14.0	39109.82838954.50638568.32838572.71738357.81938524.71038433.35238659.81939445.20839330.578									
14.5	38979.24138831.23238440.53338453.69838216.99138410.08038317.25938556.75939342.14739224.591									
15.0	38857.29738716.47038304.09438334.54738092.12238277.89738186.53938446.38439236.16139104.110									
15.5	38729.50238580.03138177.76238192.39037946.90638160.34138068.85038325.90339112.88738992.273									
16.0	38591.60038455.16138042.78638063.13237814.85638035.60537942.51838206.88538996.66138863.015									
16.5	38465.26838309.94537888.79337916.45337675.49137891.85237801.69038089.32938876.18038739.741									
17.0	38320.05238174.83637746.63637777.08937520.03637756.74337668.17737952.75738735.35338614.872									
17.5	38183.61338041.32337585.46337633.46937373.49037620.30437531.73837827.88838609.02138470.986									
18.0	38042.78637886.00137434.52937473.75837219.49837460.59337373.49037681.20938460.87938340.398									
18.5	37884.53837748.09937283.46237326.94737043.96237316.84037229.73837549.15938328.82938203.959									
19.0	37740.78537582.53737109.12337173.22036887.17737167.23637059.78737408.33238192.39038048.504									
19.5	37575.35637430.14036943.69536994.62636701.26936995.95636904.46537255.93538035.60537909.139									
20.0	37424.28937281.99936781.19136831.85736528.52736834.91636743.42537107.79437884.53837748.099									
20.5	37264.71237103.40536588.10236641.69436352.72536653.26336561.90536942.23237735.06737599.958									
21.0	37084.52236936.51436410.83836467.48836149.66336483.44636392.08836782.52137565.25037443.173									
21.5	36914.70536763.63836204.71736290.49035960.96236306.44836214.95636624.27337401.15137267.504									
22.0	36737.57336564.83136008.83536079.84735763.35236104.58236010.29836441.42437213.78037101.942									
22.5	36535.70836383.31135809.89535889.68435532.49635914.41935820.13536268.68137045.29236935.051									
23.0	36345.54436170.00935581.96535686.48835316.26835721.19735619.59936088.62436865.36836739.036									
23.5	36154.05135975.45735364.14235455.50035097.11535491.93735388.87635888.35436660.57736557.650									
24.0	35933.30235776.51735146.45135236.34634850.30135281.42735175.44135699.52136471.87736368.816									
24.5	35732.89935538.48034893.78635015.73034619.31335036.07634933.01635499.11836270.01136156.844									
25.0	35490.47435323.44934661.46834765.99134363.72234815.32734706.41635274.11336046.46935963.755									
25.5	35266.93235098.44534427.82034530.88034128.61134588.86034472.76735059.34835840.34835737.287									
26.0	35031.68834841.52534157.73434265.05033888.97934329.01434214.38434840.06235597.92335519.597									

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CANDELA TABULATION - (Cont.)

26.5	34767.45434600.42933915.17634024.08833614.63834092.30733977.67734584.47235369.99335298.848
27.0	34530.88034336.32833637.91033778.73733369.28833848.42033729.40134353.61635136.21135047.646
27.5	34286.85934090.84533385.37833501.33833122.47433573.94633459.31634092.30734870.51534812.402
28.0	34008.13033841.23933135.50633256.12032843.74533321.41433209.57733852.80834630.88234549.763
28.5	33758.52433566.76532855.31433003.45632592.54333071.67532926.46033607.32434390.05334310.131
29.0	33482.58833312.77032598.39432720.33832316.74032792.94632676.72033334.44634112.78734061.855
29.5	33226.99733057.18032350.11832472.06232067.00132543.20732424.18933086.17033861.58533791.769
30.0	32967.15232774.19632068.46432196.12631826.03832263.01532148.25232833.63933581.26033542.163
30.5	32681.10932519.93531821.65031949.31231561.80432010.35131897.18432549.05833322.87733287.903
31.0	32424.18932235.35531554.49031706.88731330.94931765.00031648.77432293.46833064.36132999.067
31.5	32138.14631982.82431322.17231438.39831101.55631489.19731381.74832009.02132771.13732736.296
32.0	31885.48131736.01031085.59831195.97330846.09931253.95331146.63731759.14932514.21732447.328
32.5	31635.87531467.38830827.21530964.98430623.88730994.10730892.37631515.39432229.63732191.870
33.0	31371.50831230.68130602.21130713.91530400.34530763.25130663.11631243.84631975.64331934.817
33.5	31139.19030998.36230378.66930488.77830153.53130536.78430442.50031002.75131728.69631654.758
34.0	30909.93030741.44230130.26030269.62429935.70830292.89630197.01630772.02831464.46231410.738
34.5	30655.93530517.90129908.18130025.73629694.61330070.68429980.65630523.61931230.68131171.238
35.0	30432.26030289.97029680.25129806.58329472.66729845.81329760.04030301.67330998.36230917.244
35.5	30205.79330037.30629427.58629558.17429249.12529600.32929519.07730078.13130744.36830682.000
36.0	29958.98029812.30129201.11929334.63229008.03029376.78729296.86529829.72230519.36330456.995
36.5	29729.58729558.17428945.52829109.62828782.89229151.78329050.18529603.25430289.97030202.868
37.0	29479.84829333.16928719.06128861.35128559.35128903.37328829.43629359.36730037.30629979.193
37.5	29251.91829105.23928483.95028627.57028290.86128681.42728608.82029138.75029810.83829726.661
38.0	29029.70628846.85628199.37028389.53328029.42028463.60428362.00628920.92729564.15829500.061
38.5	28777.17428617.46327929.28528099.10227750.82428205.08828138.46428677.032929340.35029273.727
39.0	28546.31828362.00627646.16727827.55427429.80727961.20027904.55028462.00829118.40429022.525
39.5	28318.38828116.52227313.58127506.80327127.80627667.97627633.00228242.85528871.59128798.983
40.0	28055.48427856.67726998.68127209.19026775.00627394.96527370.36427994.57928650.84228578.234
40.5	27808.80427544.56926622.60926883.91826441.22327098.81627058.25727769.70728404.02828327.032
41.0	27506.80327241.23926268.34726503.59126070.87026753.33026746.01627511.19128179.02428099.102
41.5	27213.57926917.42925882.16926131.90825619.39826417.95126416.35527262.91527946.70527837.926
42.0	26894.15726531.11825408.88825739.87925178.03326062.22626020.20426991.36727681.00827604.012
42.5	26505.05426152.25424950.10225269.52424639.45825638.28125632.56326663.30227435.65827365.975
43.0	26118.87625739.87924449.29524797.70624126.94825227.36925215.79926345.34327169.96127084.321
43.5	25702.11225253.56623856.99524224.15723582.52224777.22724698.90126005.57626846.15126811.443
44.0	25185.34724781.61523284.90923675.34322939.29124225.75324203.81125591.73826518.08626509.442
44.5	24659.67124211.12522625.72123093.15022332.36423703.00323620.28825183.88426099.99326137.759
45.0	24038.38223656.45922010.15022423.85521705.22323075.86323048.20324677.22525673.12225757.433
45.5	23450.33823058.44221366.91921799.64020976.48522489.28222452.97824184.92725214.46925284.019
46.0	22840.61922358.69420625.01621144.84020302.80221866.39721770.51723656.45924658.34124804.887
46.5	22132.09421703.89419931.11920385.51619531.90821153.48421123.03123030.78224131.20324288.121
47.0	21467.18721034.59819144.26819696.00818824.84620479.93320453.73522434.09423566.56423682.657
47.5	20773.15720263.70518426.96618917.66718101.82719713.29519691.61921814.13522894.34323104.853
48.0	19987.76919568.07917701.02118209.27517290.10819017.93518993.33421096.96722267.20322496.463
48.5	19274.98818779.89916879.32917489.18116556.98218309.41018199.03620427.53821615.19521782.220
49.0	18470.58418059.67116144.73916692.09115821.06317525.48517476.14919672.73620868.90321109.999
49.5	17731.60617325.08215404.29915963.22015012.27016805.39116751.53318978.70620177.93220424.746
50.0	16989.70316497.53914573.83015138.60214277.68116075.05715940.08118267.25519392.54419661.033
50.5	16164.95315752.71013842.03314390.98113548.81015247.51415199.50817449.81918672.45018949.716
51.0	15417.33115012.27013036.29913650.54012738.68714499.75914461.99316747.27817852.08718136.668
51.5	14655.08214192.04112310.48712830.17812017.13013676.60513641.76315928.51217098.61517391.839
52.0	13814.50613455.98811593.31812111.54711234.66712946.40412901.32315196.71516345.14216642.755
52.5	13071.14012644.27010809.26011411.66510547.95112234.95312176.84014466.38115516.13615799.254
53.0	12335.22111924.30910126.79910658.1939872.805 11455.28311384.27113643.22614771.30715038.467
53.5	11530.81711217.1149463.488 9996.212 9129.572 10758.46110685.85312918.74414017.83514274.755
54.0	10812.18510460.7168759.219 9277.580 8500.836 10081.8529927.992 12202.90513177.12713438.435

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

54.5	10038.367	9798.867	8148.036	8653.232	7928.750	9355.906	9258.697	11413.261	12433.893	12693.739
55.0	9370.401	9077.177	7509.326	8052.156	7422.224	8724.377	8618.391	10720.694	11628.026	11879.228
55.5	8727.303	8445.648	7230.464	7427.942	6797.610	8055.082	7937.527	9959.908	10916.709	11147.564
56.0	8034.736	7838.721	6455.449	6896.548	6263.424	7490.443	7455.469	9287.687	10208.184	10431.726
56.5	7496.161	7204.400	5949.854	6404.384	5825.915	6953.198	6805.190	8635.812	9432.902	9652.056
57.0	6798.807	6673.006	5542.665	5945.598	5441.865	6392.682	6250.791	7943.245	8750.442	8965.473
57.5	6297.334	6183.635	5181.088	5488.807	5073.240	5983.365	5801.845	7359.722	8100.030	8294.582
58.0	5842.405	5591.469	4834.539	5117.523	4773.101	5512.345	5363.539	6807.983	7442.437	7590.445
58.5	5387.209	5330.958	4569.507	4811.533	4511.394	5144.252	5017.787	6241.748	6877.665	7258.125
59.0	5037.468	5013.399	4319.768	4550.224	4274.288	4840.390	4723.233	5635.087	6286.695	6459.438
59.5	4752.888	4707.142	4132.929	4307.533	4109.125	4550.091	4450.754	5398.380	5666.337	5920.066
60.0	4486.526	4466.180	3992.633	4126.945	3960.984	4328.677	4251.282	5007.148	5436.944	5487.344
60.5	4279.341	4243.835	3882.126	3974.814	3856.460	4147.823	4082.928	4710.733	5035.872	5062.336
61.0	4125.615	4096.891	3800.874	3871.620	3767.762	3989.176	3929.334	4447.829	4720.574	4737.462
61.5	4016.703	3991.969	3722.681	3783.853	3680.792	3882.525	3824.279	4255.804	4460.861	4471.233
62.0	3937.845	3904.334	3637.041	3698.745	3604.594	3798.747	3735.447	4095.162	4288.118	4251.149
62.5	3849.678	3828.002	3559.114	3623.078	3524.672	3711.777	3657.387	3948.750	4147.956	4110.854
63.0	3766.964	3747.283	3470.150	3544.486	3431.984	3635.312	3575.471	3847.684	4022.687	4005.267
63.5	3679.861	3656.323	3386.371	3455.921	3347.009	3556.321	3484.512	3766.831	3936.382	3911.382
64.0	3582.652	3575.471	3296.609	3371.211	3252.459	3465.096	3401.531	3681.324	3855.530	3832.923
64.5	3492.490	3479.857	3203.788	3286.502	3171.739	3381.185	3317.753	3600.737	3760.714	3744.357
65.0	3400.467	3389.829	3122.669	3195.011	3090.488	3288.497	3225.331	3511.640	3669.888	3659.382
65.5	3298.338	3300.997	3041.019	3116.286	2999.927	3209.772	3145.276	3414.829	3572.279	3568.024
66.0	3207.245	3204.852	2948.464	3026.524	2915.484	3130.116	3058.173	3327.726	3479.857	3464.431
66.5	3104.451	3118.680	2861.893	2943.543	2828.913	3041.152	2977.055	3235.304	3385.174	3375.999
67.0	3008.704	3030.779	2772.529	2857.903	2731.704	2958.570	2893.808	3154.851	3288.364	3288.231
67.5	2911.229	2930.910	2668.937	2760.295	2639.814	2874.260	2798.992	3073.200	3202.591	3185.170
68.0	2803.647	2835.296	2572.392	2671.330	2536.620	2777.316	2709.762	2981.443	3114.956	3095.009
68.5	2704.044	2726.119	2461.220	2579.972	2440.741	2687.288	2616.941	2895.537	3013.624	3004.449
69.0	2590.345	2625.718	2357.627	2474.518	2340.872	2583.430	2511.487	2798.062	2918.543	2898.595
69.5	2483.561	2526.115	2253.104	2375.580	2228.768	2486.619	2414.942	2705.241	2810.562	2800.854
70.0	2376.245	2409.490	2135.947	2264.141	2127.569	2388.745	2304.169	2608.297	2712.289	2689.815
70.5	2257.093	2300.844	2030.227	2164.006	2026.636	2278.104	2203.369	2497.258	2610.824	2586.222
71.0	2148.979	2192.996	1924.507	2064.137	1915.730	2177.304	2101.106	2394.862	2490.742	2478.108
71.5	2040.865	2075.175	1808.813	1954.827	1813.467	2064.802	1985.013	2289.408	2381.564	2354.436
72.0	1919.453	1969.587	1704.954	1855.356	1696.311	1962.805	1881.687	2170.655	2272.386	2242.731
72.5	1810.941	1853.628	1589.261	1754.158	1590.856	1861.208	1778.094	2065.999	2152.171	2132.091
73.0	1702.960	1748.306	1487.663	1641.123	1490.323	1749.370	1663.331	1963.869	2045.919	2010.147
73.5	1585.936	1642.719	1386.597	1539.526	1382.741	1647.639	1560.537	1851.500	1940.066	1902.831
74.0	1482.477	1529.153	1275.956	1429.151	1289.255	1546.574	1450.162	1748.971	1819.451	1779.557
74.5	1369.043	1430.747	1178.082	1331.543	1196.567	1437.529	1349.894	1631.948	1712.534	1666.390
75.0	1269.440	1333.803	1084.197	1236.727	1094.437	1342.979	1249.360	1527.956	1594.713	1555.350
75.5	1172.497	1224.626	981.669	1131.406	1004.143	1250.291	1139.252	1427.688	1490.588	1435.800
76.0	1069.436	1130.608	883.794	1035.393	916.109	1144.571	1045.101	1321.303	1388.459	1329.149
76.5	979.940	1040.047	778.739	939.514	821.027	1048.957	952.413	1228.216	1279.281	1223.695
77.0	891.374	943.503	729.403	838.182	752.808	944.833	844.033	1135.395	1184.066	1108.400
77.5	794.697	859.326	610.385	753.739	652.008	853.608	761.451	1034.728	1091.910	1008.132
78.0	738.712	766.106	527.803	660.120	576.607	768.101	665.838	948.423	994.435	913.183
78.5	620.491	681.796	454.397	579.666	502.138	674.482	581.395	853.342	907.997	814.777
79.0	545.889	601.475	388.705	482.191	421.152	590.570	509.186	770.361	811.851	747.355
79.5	475.010	489.637	324.209	434.849	352.002	491.898	432.057	688.312	727.142	627.273
80.0	397.614	453.201	271.814	372.481	289.368	442.695	369.289	598.017	648.018	546.421
80.5	330.858	388.971	226.600	314.767	225.802	380.194	314.102	493.760	563.974	473.813
81.0	263.569	319.554	184.179	256.920	173.940	315.698	258.516	457.988	475.807	401.737
81.5	207.451	259.048	149.205	209.180	126.066	261.308	215.297	389.503	412.242	343.092
82.0	156.652	200.802	109.843	167.158	94.018	211.307	180.190	331.257	344.954	291.628

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CANDELA TABULATION - (Cont.)

82.5	111.438	157.184	73.406	125.401	71.677	164.631	142.024	269.553	283.915	237.638
83.0	81.252	119.683	54.389	93.353	56.783	128.726	105.986	217.558	222.079	190.163
83.5	59.576	86.438	26.197	63.299	40.027	94.816	66.757	173.009	173.408	145.615
84.0	41.889	61.570	15.958	38.033	24.868	68.219	50.134	131.918	133.779	109.444
84.5	26.197	34.176	9.708	27.527	15.825	40.958	26.463	100.135	100.933	74.869
85.0	14.096	23.272	6.250	22.341	11.037	29.921	15.692	72.608	76.065	52.927
85.5	8.777	20.080	3.590	19.282	7.048	22.740	11.702	42.022	56.251	29.389
86.0	6.117	15.559	1.596	14.495	3.590	18.085	7.048	29.522	32.713	18.085
86.5	3.059	12.234	0.532	10.373	1.064	14.628	2.793	22.474	24.203	10.240
87.0	1.463	9.575	0.000	5.851	0.000	10.240	1.197	17.687	19.149	5.319
87.5	0.000	5.851	0.000	4.388	0.000	6.250	0.133	14.096	14.894	2.793
88.0	0.000	3.590	0.000	3.458	0.000	3.856	0.000	9.309	11.170	1.197
88.5	0.000	3.590	0.000	3.059	0.000	3.590	0.000	6.250	6.915	0.133
89.0	0.000	2.527	0.000	3.192	0.000	3.723	0.000	4.787	4.255	0.133
89.5	0.000	3.325	0.000	2.926	0.000	3.325	0.000	3.590	4.388	0.000
90.0	0.000	3.192	0.000	2.527	0.000	2.261	0.000	3.192	3.458	0.000
90.5	0.000	2.660	0.000	2.527	0.000	2.660	0.000	2.660	3.856	0.000
91.0	0.000	2.128	0.000	2.261	0.266	2.128	0.000	2.660	2.527	0.000
91.5	0.000	2.793	0.000	1.729	0.000	2.128	0.000	2.527	3.059	0.000
92.0	0.000	1.995	0.000	2.128	0.000	1.995	0.133	2.128	2.660	0.000
92.5	0.000	1.729	0.000	1.596	0.000	1.463	0.000	2.128	2.660	0.000
93.0	0.000	1.197	0.000	1.995	0.000	1.862	0.000	1.995	1.995	0.000
93.5	0.000	1.729	0.000	1.330	0.000	1.729	0.000	1.729	2.793	0.000
94.0	0.000	1.330	0.000	1.463	0.000	1.596	0.000	2.660	1.862	0.000
94.5	0.000	1.330	0.000	0.931	0.000	1.463	0.000	1.729	2.527	0.000
95.0	0.000	0.931	0.000	1.197	0.000	1.995	0.000	0.931	1.862	0.133
95.5	0.000	0.931	0.000	1.330	0.000	1.197	0.000	1.330	1.596	0.000
96.0	0.000	1.064	0.000	1.463	0.000	1.330	0.000	1.596	1.729	0.000
96.5	0.000	1.197	0.000	1.064	0.000	0.931	0.000	1.463	1.330	0.000
97.0	0.000	1.064	0.000	0.931	0.133	1.330	0.000	0.931	1.330	0.000
97.5	0.000	0.798	0.000	1.064	0.000	1.330	0.000	0.665	1.330	0.000
98.0	0.000	1.064	0.000	1.197	0.000	0.798	0.000	1.596	1.596	0.000
98.5	0.000	0.665	0.000	0.665	0.000	1.330	0.000	1.463	1.862	0.133
99.0	0.000	1.064	0.000	0.665	0.000	0.798	0.000	0.931	1.197	0.000
99.5	0.000	0.798	0.000	0.798	0.000	1.197	0.000	1.064	1.330	0.000
100.0	0.000	0.798	0.000	0.399	0.000	0.931	0.000	0.532	1.064	0.000
100.5	0.000	0.665	0.000	0.798	0.000	1.064	0.000	1.064	1.463	0.266
101.0	0.000	0.665	0.000	0.798	0.000	1.064	0.000	0.931	1.330	0.000
101.5	0.000	0.931	0.000	0.266	0.000	0.931	0.000	1.064	1.197	0.133
102.0	0.000	1.463	0.000	0.665	0.000	1.330	0.000	0.532	1.330	0.000
102.5	0.000	0.532	0.000	0.266	0.000	0.931	0.000	0.532	1.064	0.000
103.0	0.000	1.064	0.000	0.798	0.000	0.532	0.000	0.665	1.463	0.000
103.5	0.000	1.064	0.000	0.665	0.000	0.931	0.000	0.266	1.064	0.000
104.0	0.000	0.931	0.000	0.798	0.000	1.064	0.000	0.399	1.463	0.000
104.5	0.000	0.665	0.000	1.064	0.000	0.399	0.000	0.665	0.798	0.000
105.0	0.000	0.665	0.000	0.399	0.000	0.665	0.000	0.798	1.596	0.266
105.5	0.000	0.798	0.000	0.931	0.000	0.798	0.000	0.798	1.064	0.000
106.0	0.000	0.665	0.000	0.798	0.000	0.798	0.000	0.798	1.596	0.266
106.5	0.000	0.399	0.000	0.665	0.000	0.665	0.000	0.399	1.463	0.266
107.0	0.000	0.532	0.000	1.064	0.000	0.798	0.000	0.798	1.064	0.000
107.5	0.000	0.532	0.000	0.931	0.000	0.931	0.133	0.931	1.596	0.000
108.0	0.000	1.064	0.000	0.931	0.000	0.798	0.000	0.798	1.596	0.133
108.5	0.000	0.532	0.000	0.665	0.000	1.064	0.000	0.931	1.330	0.266
109.0	0.000	1.463	0.000	0.931	0.399	1.064	0.000	0.798	1.463	0.133
109.5	0.000	0.931	0.000	0.532	0.399	1.064	0.000	0.798	1.330	0.532
110.0	0.000	1.064	0.399	0.931	0.000	0.665	0.133	0.798	1.729	0.266

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CANDELA TABULATION - (Cont.)

110.5	0.133	1.064	0.000	1.064	0.133	1.064	0.000	1.197	1.596	0.399
111.0	0.133	1.330	0.000	1.463	0.399	1.596	0.000	0.931	2.128	0.266
111.5	0.000	1.064	0.399	0.665	0.000	1.064	0.399	0.798	1.862	0.133
112.0	0.133	1.064	0.266	0.931	0.000	0.665	0.133	1.064	1.596	0.931
112.5	0.000	0.798	0.266	1.064	0.000	1.064	0.000	1.197	1.862	0.798
113.0	0.399	1.197	0.000	1.729	0.399	0.532	0.000	1.330	1.729	0.532
113.5	0.266	1.064	0.399	1.596	0.133	1.064	0.532	0.665	1.995	0.532
114.0	0.000	1.064	0.399	0.931	0.399	1.197	0.266	0.931	1.995	0.798
114.5	0.133	1.197	0.399	1.463	0.399	0.931	0.133	0.665	1.995	1.064
115.0	0.399	0.931	0.532	1.463	0.399	1.463	0.665	0.798	1.995	0.665
115.5	0.133	1.330	0.000	1.330	0.133	1.330	0.133	0.931	2.527	0.931
116.0	0.399	1.463	0.266	1.197	0.000	1.330	0.266	0.931	1.995	0.931
116.5	0.532	1.330	0.532	1.064	0.399	1.197	0.399	1.064	2.128	0.931
117.0	0.266	1.197	0.532	1.064	0.798	1.064	0.665	1.064	2.793	0.665
117.5	0.399	1.064	0.399	1.463	0.399	1.197	0.399	1.064	2.793	1.197
118.0	0.798	1.197	0.532	1.463	0.532	1.330	0.798	1.064	2.793	1.197
118.5	0.532	1.862	0.532	1.330	0.399	1.729	0.399	1.064	2.660	1.330
119.0	0.399	1.729	0.266	1.463	0.798	1.064	0.399	0.931	2.527	0.931
119.5	0.532	1.197	0.931	2.128	0.532	1.330	0.798	1.330	3.325	1.064
120.0	0.532	1.862	0.798	1.995	1.064	1.995	0.798	1.862	2.793	1.330
120.5	0.931	1.596	1.330	1.995	0.532	1.596	0.931	1.330	2.660	1.463
121.0	0.798	1.729	0.532	1.330	0.665	1.729	0.532	1.729	2.793	1.330
121.5	0.798	1.463	1.064	1.463	0.931	1.596	0.665	2.128	3.856	1.463
122.0	1.330	1.463	1.064	2.261	1.064	1.729	1.064	1.463	3.989	1.995
122.5	0.931	2.128	0.931	1.729	1.064	2.128	1.330	2.128	3.458	1.862
123.0	1.596	1.995	1.330	1.862	1.064	1.330	1.197	2.128	4.122	1.862
123.5	1.596	2.261	0.798	3.192	1.330	1.729	1.064	1.729	3.856	2.261
124.0	1.596	2.527	1.463	1.995	1.596	2.128	1.197	1.995	3.590	2.793
124.5	1.330	2.128	1.197	2.261	1.330	1.995	1.064	1.862	3.590	2.527
125.0	1.463	2.261	1.596	2.926	1.463	2.128	0.931	2.128	4.122	2.128
125.5	1.596	3.059	1.463	3.590	1.596	2.128	1.463	1.862	3.856	2.660
126.0	1.729	2.926	1.862	2.261	1.596	3.059	1.330	1.729	4.255	2.660
126.5	1.729	2.527	1.729	2.128	0.931	1.729	1.330	2.793	4.255	2.793
127.0	1.729	2.793	1.862	2.128	2.527	2.660	1.596	1.995	4.255	2.527
127.5	1.995	2.660	1.729	3.059	1.330	2.660	1.463	2.527	4.521	3.458
128.0	1.596	2.793	2.527	2.261	2.128	2.926	1.995	3.192	5.186	3.325
128.5	1.995	3.590	2.926	3.059	2.660	2.926	2.660	3.458	4.920	3.059
129.0	1.197	3.325	2.261	3.192	2.926	3.325	2.793	2.793	5.186	3.989
129.5	2.793	3.590	2.793	3.458	2.527	3.192	2.793	3.059	5.053	3.856
130.0	1.729	3.059	2.261	3.458	3.059	3.590	2.128	2.660	5.053	3.723
130.5	2.261	3.590	1.995	4.122	2.261	3.458	2.527	2.926	5.319	3.590
131.0	2.261	4.122	2.926	4.255	2.527	3.458	2.527	3.325	5.585	4.521
131.5	2.926	3.989	3.723	3.590	2.926	3.192	2.793	2.793	5.452	4.521
132.0	2.128	4.122	3.192	3.590	3.325	4.122	1.995	3.856	5.585	4.654
132.5	3.325	3.458	3.458	3.856	2.660	3.590	3.325	3.325	5.718	4.122
133.0	2.926	3.458	2.261	4.388	3.192	3.856	2.527	3.325	6.250	4.521
133.5	3.590	3.723	2.926	4.388	2.793	4.255	3.192	3.458	6.250	4.654
134.0	3.590	4.122	3.325	4.787	3.059	4.255	2.660	3.723	6.117	4.654
134.5	3.723	3.856	3.458	4.122	3.192	3.856	2.660	3.192	6.649	4.654
135.0	2.793	4.654	3.059	4.388	3.059	3.989	3.192	3.856	6.782	5.319
135.5	3.856	4.255	3.989	5.053	4.122	4.388	2.926	4.122	6.649	5.851
136.0	3.723	5.053	4.521	3.856	3.458	5.186	3.723	3.989	6.516	4.920
136.5	3.723	4.521	4.521	4.521	3.856	4.255	3.325	4.654	6.117	4.654
137.0	4.388	5.186	3.856	4.787	4.521	4.521	3.325	4.122	6.782	5.585
137.5	4.388	5.053	4.521	4.787	3.856	4.521	3.723	4.122	7.181	5.319
138.0	4.122	5.319	3.856	5.186	3.989	4.388	3.458	4.654	6.383	5.718

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CANDELA TABULATION - (Cont.)

138.5	3.856	4.654	4.255	5.319	4.388	4.920	3.856	4.787	7.048	5.851
139.0	3.989	5.718	3.989	5.585	3.856	4.654	4.122	3.989	6.516	6.516
139.5	4.787	5.718	4.255	5.718	5.053	5.186	4.255	5.053	8.245	6.250
140.0	4.920	5.718	4.521	5.319	4.920	5.319	4.521	4.920	7.048	6.250
140.5	4.122	5.585	5.053	5.718	3.989	4.654	4.521	4.920	7.580	5.984
141.0	4.654	5.585	4.654	5.585	4.388	4.654	3.856	4.654	7.447	6.782
141.5	4.787	5.585	4.787	6.383	4.920	4.787	4.388	4.521	8.378	6.516
142.0	4.654	5.851	5.053	5.984	5.053	5.452	4.654	5.186	8.245	7.181
142.5	5.053	5.851	5.186	5.718	5.186	5.851	4.787	5.319	7.580	6.915
143.0	5.585	5.585	5.186	5.851	5.585	6.250	4.920	5.585	8.245	7.580
143.5	5.186	5.718	5.718	6.250	5.585	5.984	5.053	5.319	8.112	7.447
144.0	5.186	6.516	5.984	5.851	5.319	6.649	4.920	5.053	8.910	8.245
144.5	5.585	6.782	5.851	5.984	5.851	5.585	5.319	5.319	8.245	7.846
145.0	5.851	6.915	5.319	6.915	6.117	6.250	5.053	5.319	8.777	7.713
145.5	6.250	6.383	5.718	6.782	6.782	5.984	5.585	5.718	9.309	7.979
146.0	6.516	6.782	6.117	6.649	6.915	6.383	5.053	5.851	8.777	8.777
146.5	5.851	7.447	5.718	6.782	6.383	6.250	5.585	6.117	9.841	7.846
147.0	6.782	7.580	6.383	7.048	5.984	6.516	6.250	5.452	9.708	7.846
147.5	6.782	7.979	6.915	7.447	6.516	6.649	5.718	6.782	9.176	8.644
148.0	6.250	8.112	6.649	7.713	6.250	6.516	5.452	7.580	9.841	8.910
148.5	6.782	7.713	7.181	7.447	6.516	7.447	6.649	7.580	10.107	8.511
149.0	6.250	7.580	7.580	7.181	7.447	7.181	7.181	6.915	10.107	8.777
149.5	7.447	7.979	7.048	7.713	7.181	7.181	7.048	6.782	10.107	8.644
150.0	6.782	8.112	7.048	8.245	7.181	7.713	6.383	7.447	9.708	8.910
150.5	7.713	8.644	7.048	7.846	7.580	7.580	6.782	6.782	9.974	9.708
151.0	7.713	9.043	8.112	8.644	7.713	7.979	6.915	7.580	9.841	9.575
151.5	8.112	8.378	8.511	8.644	7.979	8.644	7.181	7.181	9.974	8.644
152.0	8.644	8.910	7.713	8.112	8.378	8.378	7.181	7.181	10.373	10.240
152.5	9.176	9.043	8.644	8.910	8.777	7.979	8.511	6.782	10.240	9.974
153.0	7.713	8.777	8.910	8.511	8.245	8.511	7.979	8.511	10.771	9.974
153.5	9.043	9.309	8.378	9.309	7.846	8.644	8.245	7.979	9.708	9.575
154.0	8.511	9.309	9.043	8.910	8.511	8.644	7.447	7.846	11.436	10.107
154.5	8.511	8.777	8.511	9.176	8.378	9.043	7.713	8.511	11.170	10.107
155.0	8.910	9.841	8.777	9.176	8.511	9.043	8.511	8.777	10.904	10.240
155.5	9.575	9.176	9.442	9.575	9.309	9.043	8.511	8.511	11.436	10.373
156.0	10.240	9.708	9.442	9.176	9.176	9.575	8.777	8.378	11.436	11.303
156.5	9.575	9.841	9.442	10.506	8.910	9.176	8.777	9.043	11.569	10.240
157.0	9.176	9.841	9.708	9.708	9.309	9.841	8.644	8.644	11.569	10.771
157.5	9.841	9.841	9.309	8.777	9.043	10.240	8.644	9.309	10.373	11.835
158.0	9.841	11.303	9.043	9.708	10.506	9.575	8.644	9.442	11.569	10.506
158.5	9.442	9.841	9.974	10.506	10.107	9.575	8.378	9.309	11.037	10.639
159.0	9.442	10.904	9.708	10.240	9.309	9.841	8.378	9.442	11.303	10.639
159.5	10.240	10.240	10.107	10.771	9.575	10.107	9.841	10.240	12.234	10.506
160.0	9.442	10.373	10.240	10.240	9.575	10.240	9.043	10.373	12.234	11.170
160.5	9.043	9.974	10.240	10.506	9.974	10.373	9.575	9.575	12.633	11.170
161.0	10.904	10.639	10.639	10.373	10.373	10.506	9.176	9.043	11.170	11.835
161.5	11.037	10.506	10.771	10.240	10.107	9.841	9.575	10.373	11.835	11.303
162.0	10.240	11.569	11.170	10.771	9.708	11.037	9.841	9.708	12.234	11.303
162.5	10.373	10.639	11.303	10.373	9.841	10.506	10.506	9.575	12.500	11.436
163.0	10.771	11.436	10.639	11.037	10.904	10.506	10.904	10.506	12.899	11.303
163.5	11.037	10.904	10.904	10.240	10.107	10.904	10.107	10.240	11.835	11.702
164.0	10.506	11.702	10.771	10.904	10.904	11.037	10.107	10.506	11.835	11.702
164.5	11.170	11.436	10.107	10.771	10.506	10.771	10.107	10.240	11.835	11.569
165.0	11.303	11.968	11.037	10.639	9.974	10.506	10.639	10.240	12.766	11.170
165.5	11.170	11.835	10.506	12.234	10.904	10.639	9.974	10.904	12.899	12.500
166.0	10.904	11.569	11.835	11.569	10.639	10.771	10.373	11.170	11.835	11.968

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CANDELA TABULATION - (Cont.)

166.5	11.303	11.170	11.569	11.569	10.904	10.771	10.904	10.639	12.367	12.234
167.0	11.968	11.702	11.170	11.835	11.037	10.904	11.569	10.771	12.899	11.835
167.5	11.436	11.968	12.500	11.569	10.904	11.569	10.904	11.037	12.633	11.569
168.0	11.436	11.702	11.569	11.835	10.771	11.436	10.639	10.904	13.165	11.968
168.5	11.037	11.702	12.500	11.569	11.303	10.904	11.303	10.904	12.899	13.165
169.0	11.303	11.835	11.303	11.436	11.569	11.170	10.904	10.904	12.234	11.702
169.5	12.234	12.234	11.968	12.633	11.569	12.234	10.240	11.303	13.032	12.367
170.0	11.037	11.702	11.303	11.569	11.170	10.771	11.569	11.436	13.032	11.835
170.5	12.234	11.835	11.835	11.835	11.303	11.835	11.436	11.170	12.633	11.968
171.0	11.569	12.899	11.702	11.569	11.968	11.569	10.904	11.702	12.367	12.367
171.5	11.702	12.766	11.968	11.702	11.702	11.303	10.771	11.170	13.697	12.899
172.0	11.835	12.234	11.835	11.968	11.436	11.968	11.968	11.170	12.766	12.500
172.5	12.500	11.702	11.702	11.702	11.968	12.500	11.835	11.037	12.367	12.234
173.0	11.835	12.899	11.436	12.500	11.968	12.234	12.633	11.303	13.165	12.633
173.5	11.835	12.766	11.569	11.835	12.234	11.037	11.303	10.904	12.234	12.500
174.0	11.436	12.367	11.835	12.234	11.303	11.569	11.835	11.436	12.234	13.697
174.5	12.234	12.500	11.702	12.367	11.702	11.835	11.968	11.303	12.899	13.032
175.0	12.367	11.569	12.367	12.234	11.702	11.835	11.702	11.436	12.633	11.436
175.5	11.037	12.367	11.968	12.367	11.702	12.899	10.904	11.436	12.367	12.633
176.0	11.569	11.968	11.436	11.436	12.367	12.367	11.037	11.569	12.234	12.234
176.5	12.234	12.766	12.234	12.899	11.968	11.968	12.234	12.367	13.697	13.032
177.0	11.835	12.766	11.569	11.436	11.835	12.367	11.569	11.968	12.500	11.968
177.5	11.436	12.766	12.234	12.367	11.835	11.037	11.436	12.367	13.165	11.835
178.0	11.702	12.633	12.633	12.633	11.569	11.702	11.037	11.968	12.367	11.835
178.5	11.835	12.899	12.367	12.367	11.835	11.569	11.702	10.904	12.633	12.633
179.0	11.835	13.032	12.633	12.367	11.170	11.303	11.569	11.968	12.899	12.367
179.5	11.968	11.835	12.766	11.835	12.367	11.835	11.835	11.436	12.766	12.367
180.0	12.181	12.181	12.181	12.181	12.181	12.181	12.181	12.181	12.181	12.181

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	40464.11140464.11140464.11140464.11140464.11140464.11140464.111						
0.5	40600.94940502.14440390.43940297.48540210.38340120.35440876.752						
1.0	40606.80040507.99540397.75340300.41140211.84540110.11540866.513						
1.5	40613.98140506.53240400.54640293.09740208.92040100.00840854.943						
2.0	40613.98140505.06940403.47140293.09740203.06940086.97640840.448						
2.5	40615.44440497.75540403.47140285.91640194.42540071.01840818.639						
3.0	40606.80040489.11240397.75340271.42140184.31840050.67240798.293						
3.5	40596.56040476.07940388.97740256.92640171.15340017.29440763.585						
4.0	40582.06640459.98940375.81140233.65440149.34439988.17140724.356						
4.5	40564.64540435.38740361.31640211.84540124.61039953.46240689.514						
5.0	40545.76240413.71140339.64040184.31840100.00839912.77040640.178						
5.5	40518.10140387.51440319.16140147.88140066.63039872.07840589.247						
6.0	40492.03740356.92840288.70940108.78540030.32639825.66740538.581						
6.5	40458.65940322.22040255.33040063.83739992.55939769.01740477.542						
7.0	40419.42940281.52840221.95240020.21939946.01539712.36740416.637						
7.5	40380.20040233.65440182.72239969.28739896.67939654.25440346.821						
8.0	40335.25240178.33440136.31239915.56339841.62539584.70540278.602						
8.5	40281.52840123.28040084.05039859.04639782.18239516.35340207.457						
9.0	40230.72940066.63040024.60839795.08239722.47439436.43140123.280						
9.5	40166.76539998.41039972.34639721.14439651.46239358.10540041.895						
10.0	40102.93439931.65439899.73839654.25439583.24239273.92839957.718						
10.5	40036.17739850.40239834.31139568.74739497.46939178.04839859.046						
11.0	39954.79239776.19839763.29939485.90039414.75539089.61539767.554						
11.5	39877.79639692.02139677.52639400.26039330.57838995.19939668.749						

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CANDELA TABULATION - (Cont.)

12.0	39798.00739603.58839600.53039303.05039234.83138886.28739557.045
12.5	39706.51639513.42739515.02339211.55939143.34038781.76339452.522
13.0	39618.08339423.53239417.68039117.14239045.99738662.74539330.578
13.5	39516.35339317.54539326.18939005.43838937.08638556.75939221.666
14.0	39421.93639220.20339228.98038905.17038835.48838446.38439109.828
14.5	39323.26439108.49939121.39838780.30138720.85838317.25938979.241
15.0	39208.50139001.05039017.00738671.52238610.48338203.95938857.297
15.5	39104.11038890.67538895.06438559.68438495.72038080.55238729.502
16.0	38993.73638768.73138790.40738431.88938367.92537941.18838591.600
16.5	38868.86638651.04338677.24038312.87138247.44437813.39338465.268
17.0	38748.25238518.99238547.98238189.33138122.57537668.17738320.052
17.5	38611.81338395.58538426.03838048.50437980.28537530.27538183.613
18.0	38485.61438270.71638288.13637920.84237851.02737396.76238042.786
18.5	38362.20738124.17038166.19237775.62637716.18337235.58937884.538
19.0	38218.45437987.59838034.00937634.79937563.65437093.29937740.785
19.5	38083.34537854.08537891.85237493.97237427.21536946.62037575.356
20.0	37942.51837697.30037755.41337338.64937273.22236779.72837424.289
20.5	37787.19637549.15937617.37837192.10437126.67736624.27337264.712
21.0	37641.98037405.53937460.59337036.78236978.66936464.69637084.522
21.5	37473.75837234.12637310.98936859.51736804.46336283.17636914.705
22.0	37324.15437075.87837142.63536698.47736647.54536111.89636737.573
22.5	37168.83236895.82136987.31236509.64336486.37235921.73336535.708
23.0	36990.23836725.87136826.13936339.82636300.59635741.54336345.544
23.5	36824.67636553.26136643.15736164.15836130.77935550.04936154.051
24.0	36653.26336355.78436479.19135966.68035934.63235332.22635933.302
24.5	36451.53036171.33936306.44835779.30935750.31935131.82335732.899
25.0	36264.29335987.02636108.97035592.07235557.23034924.23935490.474
25.5	36056.57635773.59135930.37635368.53035341.00334688.99535266.932
26.0	35866.41235573.18835740.21335165.33435136.21134465.45335031.688
26.5	35664.67935342.33335519.59734953.22934924.23934209.99634767.454
27.0	35432.36135130.36035316.26834709.47434687.53233976.08234530.880
27.5	35214.67034908.28135078.23234488.72534463.99033736.58234286.859
28.0	34989.53334658.54234863.20134228.87934238.98633469.55634008.130
28.5	34734.07634430.61234644.04733992.17233980.47033228.46033758.524
29.0	34500.29434195.50134394.30833751.21033743.76332981.64733482.588
29.5	34244.83733934.06034164.91533484.05133478.19932697.20033226.997
30.0	33998.02433690.17233931.13433237.23733228.46032444.53532967.152
30.5	33752.54033443.49133659.71932958.50832975.79632162.74732681.109
31.0	33478.19933169.01833412.90532708.76932695.60431905.82732424.189
31.5	33221.27932914.89033131.25132453.17932435.75831650.37032138.146
32.0	32959.97132633.23632872.86832165.80632180.30131377.49231885.481
32.5	32669.53932371.92732612.88931907.29031897.18431129.08331635.875
33.0	32408.23132116.33732326.84631645.98231644.65230888.12131371.508
33.5	32120.72531828.96432065.53831362.99731365.79030626.81231139.190
34.0	31865.26831574.83731810.08131108.73731113.12530398.88230909.930
34.5	31612.60331298.90031534.27730864.98230866.31230144.75530655.935
35.0	31333.87431055.14531284.40530590.50830605.00329918.42030432.260
35.5	31089.85330808.19931008.60230353.80130368.29629694.61330205.793
36.0	30827.21530541.17230760.32630093.95630131.72329449.39529958.980
36.5	30584.65730308.85430516.43829861.63729880.52129230.24229729.587
37.0	30348.08330075.07230249.27829633.70729655.51629008.03029479.848
37.5	30086.64229816.69030015.63029386.89429404.44728758.29129251.918
38.0	29851.53129582.90829784.77429156.03829182.23528531.82329029.706
38.5	29626.39329352.05329530.64728926.64528957.09828286.47328777.174
39.0	29372.39929100.85129299.79128675.44328706.02928057.08028546.318
39.5	29143.00628878.77229048.58928456.29028481.02427829.15028318.388

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40.0	28915.07628627.57028825.04728231.28528260.40827573.55928055.484
40.5	28663.87428396.84728602.83527981.54628010.53627341.24127808.804
41.0	28434.61428168.91728353.22927755.07927786.99527101.74127506.803
41.5	28179.02427913.32728125.29927502.41427530.07526823.01227213.579
42.0	27946.70527679.54627871.17227273.02127293.36826554.39026894.157
42.5	27715.85027440.04627640.44927039.37327052.40526226.19226505.054
43.0	27450.28627168.63127409.46026776.60226779.39525896.66426118.876
43.5	27203.33926914.37127145.35926523.93726532.58125526.44425702.112
44.0	26940.70126613.96626907.19026249.46426265.42125066.32825185.347
44.5	26634.17926327.92326657.45125925.65425935.89424610.33524659.671
45.0	26338.02926022.99626359.83825590.40825590.40824122.55924038.382
45.5	25976.58625642.67026066.48125170.85225157.68623528.79723450.338
46.0	25622.32325265.13525742.93824741.05624717.78422956.71122840.619
46.5	25231.75724839.72825340.66924267.77524235.85922355.63522132.094
47.0	24752.62524315.64824925.50123707.39123659.38521655.88721467.187
47.5	24273.62623810.45224421.63423155.65123099.00121008.40120773.157
48.0	23707.39123203.52523933.85922573.45922516.80920267.96019987.769
48.5	23148.47022628.64623412.57221894.05721837.40719578.31919274.988
49.0	22558.96422020.38922786.89421250.82621191.38318871.39018470.584
49.5	21869.32221311.86422187.28120516.23720525.01418078.55517731.606
50.0	21218.91020651.34621565.85919846.94119754.12017351.14716989.703
50.5	20548.15219968.88520842.83919157.30019045.46316625.20116164.953
51.0	19784.44019196.52920172.21418371.91218251.43115807.89715417.331
51.5	19083.22918487.87219405.57617647.29617524.02215061.60614655.082
52.0	18361.67217683.73318689.73716911.24416792.22614229.67413814.506
52.5	17539.98016940.23417971.10616095.40315980.64013484.97813071.140
53.0	16796.61416194.07517165.37215356.42615253.23212745.86812335.221
53.5	15969.07115362.14416432.24514528.88214438.72111950.37311530.817
54.0	15225.70514610.13415694.59713794.29313715.70111243.44410812.185
54.5	14489.65313865.30514871.57513066.88512997.07010542.10010038.367
55.0	13672.21613048.00214123.82112252.37412195.7249781.314 9370.401
55.5	12937.62712313.27913301.99611527.89111481.4819109.093 8727.303
56.0	12194.39411581.61612563.15110812.18510771.4938455.888 8034.736
56.5	11378.28710785.98811834.14710038.3679990.360 7770.502 7496.161
57.0	10664.04410087.70311027.0839348.725 9309.496 7385.787 6798.807
57.5	9885.970 9331.172 10315.6338675.041 8571.981 6569.015 6297.334
58.0	9203.509 8675.041 9618.810 7965.187 7931.808 6063.952 5842.405
58.5	8544.321 8043.513 8881.163 7456.932 7326.344 5613.677 5387.209
59.0	7844.573 7464.113 8238.064 6712.502 6696.145 5175.503 5037.468
59.5	7250.811 6793.887 7549.886 6188.688 6176.454 4841.587 4752.888
60.0	6694.815 6223.263 6972.082 5716.737 5562.612 4567.778 4486.526
60.5	6128.581 5755.302 6434.837 5258.616 5254.627 4315.246 4279.341
61.0	5567.931 5341.198 5659.954 4904.487 4912.865 4142.636 4125.615
61.5	5211.142 4939.328 5458.221 4567.113 4597.433 4005.533 4016.703
62.0	4864.193 4635.997 5064.065 4323.624 4355.540 3921.488 3937.845
62.5	4581.209 4390.647 4692.780 4148.355 4171.493 3842.763 3849.678
63.0	4331.071 4187.584 4445.435 4020.692 4039.443 3752.203 3766.964
63.5	4157.530 4050.347 4259.128 3935.983 3955.665 3669.090 3679.861
64.0	4031.331 3937.313 4098.886 3856.195 3866.035 3582.785 3582.652
64.5	3929.866 3851.939 3991.437 3763.905 3785.847 3484.777 3492.490
65.0	3851.141 3765.235 3893.429 3676.537 3704.197 3394.483 3400.467
65.5	3771.618 3663.371 3806.326 3580.657 3611.908 3300.864 3298.338
66.0	3680.659 3570.152 3718.825 3491.028 3523.741 3196.740 3207.245
66.5	3591.562 3477.331 3620.950 3398.473 3432.383 3105.648 3104.451
67.0	3486.107 3369.616 3530.523 3293.816 3333.046 3003.784 3008.704
67.5	3397.276 3277.459 3435.042 3201.394 3239.427 2907.771 2911.229

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68.0	3312.567	3185.436	3328.258	3107.509	3145.409	2808.035	2803.647
68.5	3218.416	3080.115	3235.703	2995.273	3042.614	2698.458	2704.044
69.0	3128.653	2982.108	3139.159	2894.872	2950.458	2599.653	2590.345
69.5	3035.699	2866.680	3030.380	2786.891	2845.270	2497.923	2483.561
70.0	2933.703	2766.811	2928.915	2688.485	2747.795	2378.771	2376.245
70.5	2840.749	2666.144	2816.945	2586.488	2643.138	2271.056	2257.093
71.0	2733.167	2554.174	2718.539	2470.395	2520.928	2151.107	2148.979
71.5	2629.574	2448.586	2615.345	2364.143	2411.352	2041.663	2040.865
72.0	2521.859	2340.340	2500.848	2256.561	2302.307	1934.746	1919.453
72.5	2400.979	2221.188	2396.724	2136.479	2176.507	1811.606	1810.941
73.0	2291.402	2113.606	2291.668	2027.301	2059.483	1699.901	1702.960
73.5	2181.826	2005.891	2176.374	1904.427	1933.018	1591.521	1585.936
74.0	2053.499	1889.134	2070.121	1792.057	1821.047	1473.168	1482.477
74.5	1937.140	1781.286	1950.039	1679.555	1712.002	1367.581	1369.043
75.0	1824.106	1661.204	1844.452	1557.478	1590.457	1264.121	1269.440
75.5	1700.433	1554.287	1737.269	1447.370	1477.689	1148.693	1172.497
76.0	1589.261	1446.838	1617.320	1339.522	1353.219	1047.893	1069.436
76.5	1462.263	1330.080	1511.865	1221.966	1247.233	943.370	979.940
77.0	1351.091	1225.690	1408.007	1116.778	1145.369	853.342	891.374
77.5	1244.972	1111.990	1295.904	1016.244	1034.595	768.765	794.697
78.0	1133.001	1011.589	1200.024	911.056	936.721	658.790	738.712
78.5	1033.265	916.641	1096.698	820.628	846.028	584.852	620.491
79.0	923.556	815.442	1005.605	746.558	751.744	510.516	545.889
79.5	829.139	751.611	916.242	632.061	672.753	435.381	475.010
80.0	743.233	637.513	815.176	553.469	592.698	373.412	397.614
80.5	655.598	549.878	724.882	474.345	484.451	313.171	330.858
81.0	578.469	478.334	637.247	408.253	443.227	264.766	263.569
81.5	490.169	412.109	494.425	347.214	377.135	218.089	207.451
82.0	432.057	340.565	465.967	283.915	324.874	168.620	156.652
82.5	372.082	280.059	383.119	230.058	280.458	129.923	111.438
83.0	319.820	218.488	316.762	178.860	236.973	92.156	81.252
83.5	270.617	173.142	257.186	139.896	195.084	61.304	59.576
84.0	229.659	134.311	198.541	104.390	143.753	40.958	41.889
84.5	182.052	95.747	154.923	67.688	103.725	22.740	26.197
85.0	138.434	64.895	121.279	51.597	69.017	10.904	14.096
85.5	97.342	50.134	90.826	32.049	29.788	5.585	8.777
86.0	59.975	32.314	66.624	14.495	19.681	3.856	6.117
86.5	31.650	13.963	38.964	5.452	14.362	1.463	3.059
87.0	19.415	6.117	23.405	1.596	11.968	1.463	1.463
87.5	14.495	1.729	14.761	0.665	9.708	0.133	0.000
88.0	11.569	0.798	10.904	0.266	7.181	0.000	0.000
88.5	9.176	0.266	7.979	0.000	4.787	0.000	0.000
89.0	5.718	0.000	6.516	0.000	4.122	0.000	0.000
89.5	5.053	0.133	5.053	0.000	3.989	0.000	0.000
90.0	4.255	0.000	3.989	0.000	3.325	0.000	0.000
90.5	2.261	0.000	3.458	0.000	3.590	0.000	0.000
91.0	3.325	0.000	3.192	0.000	3.059	0.000	0.000
91.5	3.192	0.000	3.723	0.000	2.793	0.000	0.000
92.0	3.590	0.000	2.660	0.000	2.793	0.000	0.000
92.5	1.862	0.000	3.192	0.000	2.926	0.000	0.000
93.0	2.527	0.000	2.128	0.000	1.995	0.000	0.000
93.5	2.128	0.000	2.926	0.000	2.527	0.000	0.000
94.0	1.862	0.000	1.995	0.000	2.793	0.000	0.000
94.5	1.862	0.133	2.261	0.000	1.729	0.000	0.000
95.0	2.128	0.000	1.596	0.000	1.596	0.000	0.000
95.5	1.995	0.000	1.463	0.000	1.596	0.000	0.000

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

96.0	1.330	0.000	1.729	0.000	1.197	0.000	0.000
96.5	1.862	0.000	1.064	0.000	1.729	0.000	0.000
97.0	1.197	0.000	1.729	0.000	1.197	0.000	0.000
97.5	1.596	0.000	1.463	0.000	1.197	0.000	0.000
98.0	1.330	0.000	1.862	0.000	1.596	0.133	0.000
98.5	1.729	0.000	1.596	0.000	1.330	0.000	0.000
99.0	1.463	0.000	1.463	0.000	1.729	0.000	0.000
99.5	1.995	0.000	1.729	0.000	1.330	0.133	0.000
100.0	1.463	0.000	1.330	0.000	1.064	0.000	0.000
100.5	0.931	0.000	1.463	0.000	1.596	0.000	0.000
101.0	1.064	0.000	1.729	0.000	1.330	0.000	0.000
101.5	1.064	0.133	1.463	0.000	0.931	0.000	0.000
102.0	1.330	0.133	1.463	0.000	1.463	0.000	0.000
102.5	1.330	0.000	1.330	0.000	1.463	0.000	0.000
103.0	1.330	0.000	1.330	0.000	1.463	0.000	0.000
103.5	1.463	0.133	1.330	0.000	1.064	0.000	0.000
104.0	1.064	0.000	1.330	0.000	0.798	0.133	0.000
104.5	1.596	0.000	1.596	0.000	1.463	0.000	0.000
105.0	1.596	0.000	0.931	0.000	0.931	0.000	0.000
105.5	1.596	0.000	1.330	0.000	1.064	0.000	0.000
106.0	0.798	0.266	0.931	0.000	1.330	0.000	0.000
106.5	1.064	0.000	1.197	0.000	1.064	0.000	0.000
107.0	1.995	0.266	0.931	0.000	1.463	0.399	0.000
107.5	1.862	0.000	1.330	0.399	0.798	0.266	0.000
108.0	1.330	0.133	0.798	0.133	1.330	0.000	0.000
108.5	1.197	0.000	1.064	0.266	1.596	0.266	0.000
109.0	1.330	0.399	1.729	0.399	1.596	0.000	0.000
109.5	1.729	0.266	1.064	0.133	1.463	0.133	0.000
110.0	1.596	0.532	1.330	0.399	1.330	0.399	0.000
110.5	1.729	0.266	1.197	0.399	1.064	0.000	0.133
111.0	1.330	0.266	1.330	0.532	1.197	0.399	0.133
111.5	0.931	0.266	1.729	0.266	1.596	0.266	0.000
112.0	1.995	0.665	1.862	0.266	1.330	0.266	0.133
112.5	1.596	0.532	1.729	0.266	1.463	0.532	0.000
113.0	1.729	0.532	1.862	0.399	1.596	0.532	0.399
113.5	1.729	0.399	2.660	0.399	1.862	0.665	0.266
114.0	1.862	0.266	1.862	0.931	1.862	0.931	0.000
114.5	1.596	0.266	1.463	0.532	1.596	0.665	0.133
115.0	1.862	0.532	1.862	0.798	1.729	0.266	0.399
115.5	2.527	0.532	1.463	1.197	1.862	0.798	0.133
116.0	1.596	0.532	1.596	0.931	1.596	0.798	0.399
116.5	2.128	0.798	1.862	1.330	2.261	1.064	0.532
117.0	1.862	0.931	2.527	0.665	1.862	0.532	0.266
117.5	1.995	1.064	1.862	0.665	1.995	0.931	0.399
118.0	1.995	0.798	2.128	0.931	2.261	1.197	0.798
118.5	1.596	1.064	1.995	0.798	1.995	0.798	0.532
119.0	2.793	1.463	2.261	0.798	3.192	1.197	0.399
119.5	2.793	0.931	2.660	0.931	2.527	1.463	0.532
120.0	3.059	1.064	2.660	1.330	2.926	1.729	0.532
120.5	2.793	1.729	3.059	1.064	2.261	1.729	0.931
121.0	3.192	1.330	2.660	1.463	2.261	1.596	0.798
121.5	2.926	1.064	2.660	1.729	2.660	1.729	0.798
122.0	2.527	1.197	2.660	1.596	2.527	1.862	1.330
122.5	2.926	1.330	2.926	1.862	2.527	1.862	0.931
123.0	3.325	1.729	3.325	2.128	3.458	2.128	1.596
123.5	3.458	1.995	3.059	1.330	2.926	1.862	1.596

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

124.0	3.458	1.995	3.192	2.128	3.059	2.793	1.596
124.5	3.059	2.261	2.926	2.128	3.192	2.527	1.330
125.0	3.059	1.995	3.192	2.128	3.723	2.128	1.463
125.5	3.059	2.527	3.590	1.995	3.856	2.128	1.596
126.0	3.590	2.793	3.059	1.995	3.989	2.793	1.729
126.5	3.856	3.325	3.458	3.192	4.122	2.128	1.729
127.0	4.521	2.128	3.458	2.926	4.388	2.793	1.729
127.5	4.388	2.527	3.723	3.059	4.388	3.059	1.995
128.0	4.122	2.660	4.388	3.856	4.122	3.723	1.596
128.5	4.521	2.926	3.856	3.325	4.521	3.590	1.995
129.0	4.654	2.527	3.989	2.527	3.590	2.926	1.197
129.5	4.787	3.325	4.388	3.325	4.920	3.723	2.793
130.0	4.654	3.723	3.723	3.458	5.452	3.590	1.729
130.5	3.989	3.458	4.654	3.325	4.787	3.723	2.261
131.0	4.388	3.458	5.452	3.723	4.654	3.856	2.261
131.5	4.654	2.926	4.654	3.856	4.654	3.192	2.926
132.0	4.521	3.856	5.186	3.856	4.521	4.122	2.128
132.5	4.920	3.856	5.186	3.590	5.452	3.989	3.325
133.0	5.585	4.122	5.319	4.388	4.654	4.521	2.926
133.5	5.851	4.521	5.319	4.255	4.920	4.122	3.590
134.0	5.186	4.654	5.585	4.122	5.585	4.122	3.590
134.5	5.053	4.388	5.186	4.787	5.851	4.388	3.723
135.0	6.250	4.920	5.585	4.521	5.984	4.388	2.793
135.5	5.984	4.920	5.585	4.787	6.250	4.388	3.856
136.0	6.117	4.920	6.117	4.654	5.186	4.787	3.723
136.5	5.718	4.521	6.250	4.787	5.851	5.186	3.723
137.0	6.250	5.585	7.048	5.585	6.117	5.186	4.388
137.5	6.383	5.452	6.383	5.186	6.117	5.718	4.388
138.0	6.250	5.585	6.250	5.851	6.782	5.718	4.122
138.5	6.117	5.718	6.516	5.053	7.048	5.585	3.856
139.0	6.516	6.117	6.782	5.851	6.649	5.851	3.989
139.5	7.447	6.117	6.782	5.452	6.915	6.250	4.787
140.0	7.713	5.053	6.649	5.718	7.048	5.851	4.920
140.5	6.915	6.117	7.846	5.984	6.782	5.984	4.122
141.0	7.181	5.452	6.516	5.984	7.048	6.250	4.654
141.5	7.447	5.984	7.580	5.585	6.383	6.383	4.787
142.0	7.846	6.250	7.447	6.250	6.782	5.984	4.654
142.5	7.181	7.048	7.979	6.117	7.447	6.915	5.053
143.0	6.915	6.117	8.245	6.915	7.447	6.915	5.585
143.5	7.713	6.915	6.782	6.649	7.713	6.782	5.186
144.0	8.644	7.447	7.447	7.181	7.713	7.048	5.186
144.5	9.309	6.782	8.112	6.915	8.112	7.048	5.585
145.0	9.309	7.580	7.979	7.713	7.846	8.245	5.851
145.5	8.511	7.713	8.378	7.580	7.846	7.713	6.250
146.0	8.245	8.112	7.979	7.713	8.644	6.915	6.516
146.5	8.777	7.181	8.378	7.181	8.245	7.713	5.851
147.0	8.777	7.181	8.245	7.580	8.777	7.713	6.782
147.5	8.644	7.846	8.511	7.979	7.846	8.511	6.782
148.0	9.575	8.245	8.511	8.245	8.112	7.846	6.250
148.5	8.910	8.777	9.575	7.979	9.176	8.511	6.782
149.0	9.043	8.378	9.841	8.910	9.043	8.112	6.250
149.5	9.442	9.442	9.043	8.511	8.910	8.511	7.447
150.0	9.309	8.777	8.644	8.245	9.176	7.713	6.782
150.5	10.639	8.378	9.043	8.511	9.442	8.112	7.713
151.0	9.841	8.378	8.777	8.910	9.708	8.910	7.713
151.5	9.309	8.910	9.309	8.511	9.974	8.112	8.112

IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-HB-2X300LED-RT-125DB.IES

CANDELA TABULATION - (Cont.)

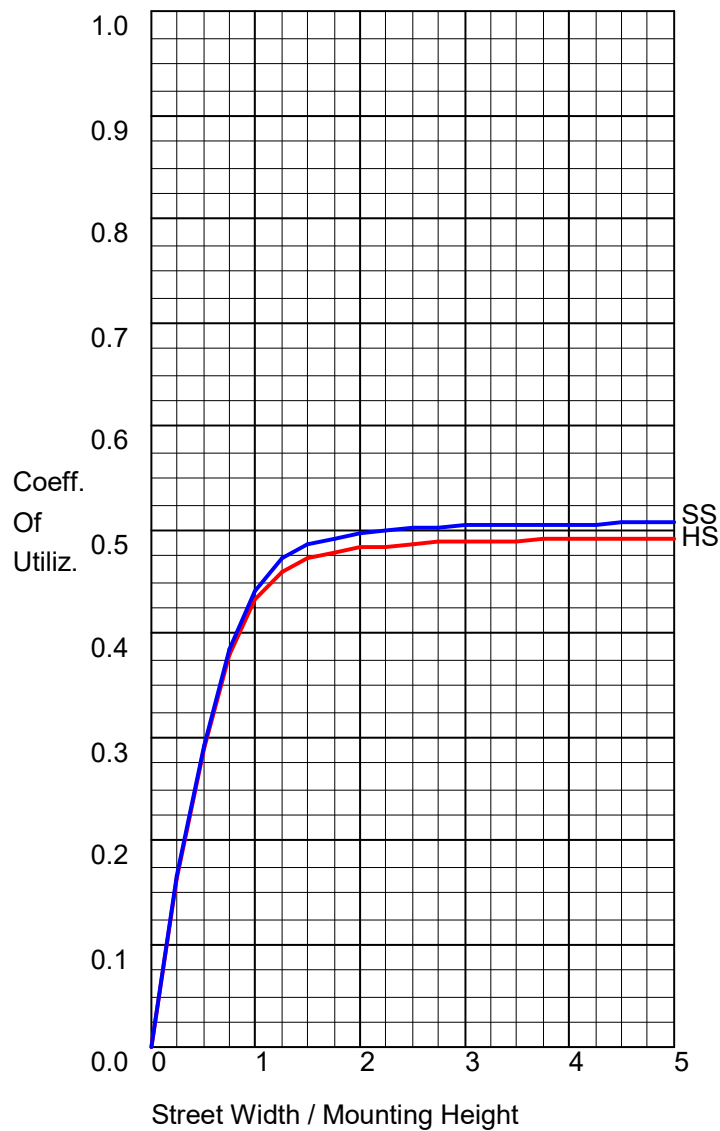
152.0	9.974	9.575	10.373	8.910	9.841	9.575	8.644
152.5	10.373	9.708	9.575	8.910	9.841	9.708	9.176
153.0	9.974	9.442	10.107	9.442	9.442	9.043	7.713
153.5	9.708	9.575	9.575	9.442	9.708	9.043	9.043
154.0	10.373	9.708	10.639	9.043	9.708	9.575	8.511
154.5	10.904	10.240	9.708	9.974	9.974	9.841	8.511
155.0	10.771	9.974	9.974	10.107	9.575	10.373	8.910
155.5	9.974	9.708	10.373	9.442	10.506	8.511	9.575
156.0	11.037	9.841	10.639	10.107	9.708	9.841	10.240
156.5	11.436	11.436	10.240	10.506	11.170	9.841	9.575
157.0	11.037	9.974	10.373	9.176	10.240	9.708	9.176
157.5	11.170	9.841	10.639	10.506	10.904	10.506	9.841
158.0	11.170	10.639	10.107	9.176	10.904	9.841	9.841
158.5	11.436	10.240	11.037	9.442	10.373	10.373	9.442
159.0	11.303	10.240	10.904	9.708	9.575	10.904	9.442
159.5	11.170	10.904	10.771	11.170	11.037	10.639	10.240
160.0	11.569	10.639	10.639	11.436	10.639	10.904	9.442
160.5	11.436	10.904	11.170	10.240	10.904	11.303	9.043
161.0	11.968	10.771	11.170	10.904	10.904	10.506	10.904
161.5	11.569	11.303	10.904	10.904	11.170	9.974	11.037
162.0	12.367	11.037	11.170	10.639	12.234	10.240	10.240
162.5	12.500	11.170	11.702	11.037	11.569	9.974	10.373
163.0	11.569	10.904	11.702	11.303	11.835	10.639	10.771
163.5	11.702	10.904	11.835	12.234	10.639	11.569	11.037
164.0	12.367	11.170	12.234	11.835	11.170	11.170	10.506
164.5	11.702	11.037	11.037	10.373	11.835	11.436	11.170
165.0	13.032	11.569	11.436	11.436	11.702	11.037	11.303
165.5	11.702	11.835	11.569	11.569	11.170	11.037	11.170
166.0	11.968	12.367	12.367	11.170	11.835	11.569	10.904
166.5	12.500	11.968	11.835	11.569	11.569	11.170	11.303
167.0	12.234	11.835	11.702	11.702	11.303	11.835	11.968
167.5	12.367	11.569	12.500	11.569	11.436	11.436	11.436
168.0	11.702	11.835	12.234	11.303	11.968	11.569	11.436
168.5	12.367	12.234	11.968	11.436	11.968	11.303	11.037
169.0	12.899	11.436	11.569	11.569	11.968	11.037	11.303
169.5	12.367	12.234	11.968	12.367	11.436	11.569	12.234
170.0	12.367	11.569	11.968	12.367	12.234	10.639	11.037
170.5	11.968	11.702	12.367	11.436	11.702	11.170	12.234
171.0	11.835	11.835	11.569	11.835	11.835	11.702	11.569
171.5	12.899	12.234	13.032	13.032	11.968	11.436	11.702
172.0	12.899	11.702	11.702	11.436	12.633	12.500	11.835
172.5	12.234	11.968	11.702	12.766	11.835	12.234	12.500
173.0	12.500	11.835	12.367	11.170	13.032	12.234	11.835
173.5	12.500	11.569	11.968	11.436	12.234	12.500	11.835
174.0	12.234	12.367	13.032	11.436	11.702	12.500	11.436
174.5	12.766	11.436	11.968	11.968	12.766	10.639	12.234
175.0	12.899	11.835	11.968	11.835	12.500	11.702	12.367
175.5	11.303	11.968	12.766	12.766	11.968	12.367	11.037
176.0	13.564	11.835	12.766	12.234	13.165	10.904	11.569
176.5	12.367	12.234	11.968	12.234	11.436	11.436	12.234
177.0	11.702	12.766	12.234	11.968	11.702	12.500	11.835
177.5	12.234	12.633	11.702	11.702	11.702	11.835	11.436
178.0	12.500	12.367	12.500	12.500	11.968	11.702	11.702
178.5	12.500	12.234	11.436	11.968	11.835	11.303	11.835
179.0	11.968	11.702	11.968	12.234	12.234	11.835	11.835
179.5	12.899	12.500	11.968	11.702	11.835	11.702	11.968

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

180.0	12.181	12.181	12.181	12.181	12.181	12.181	12.181
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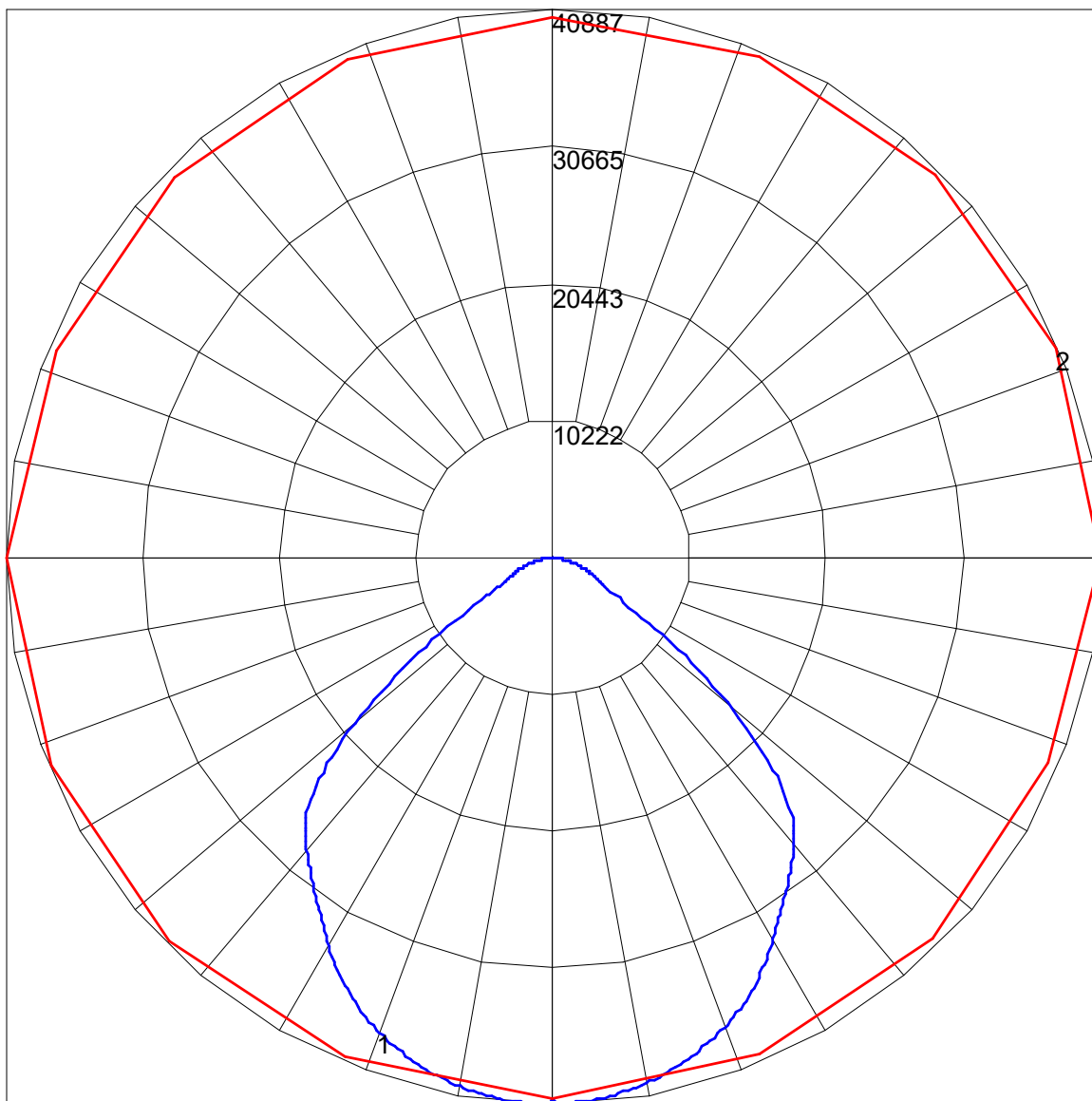
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

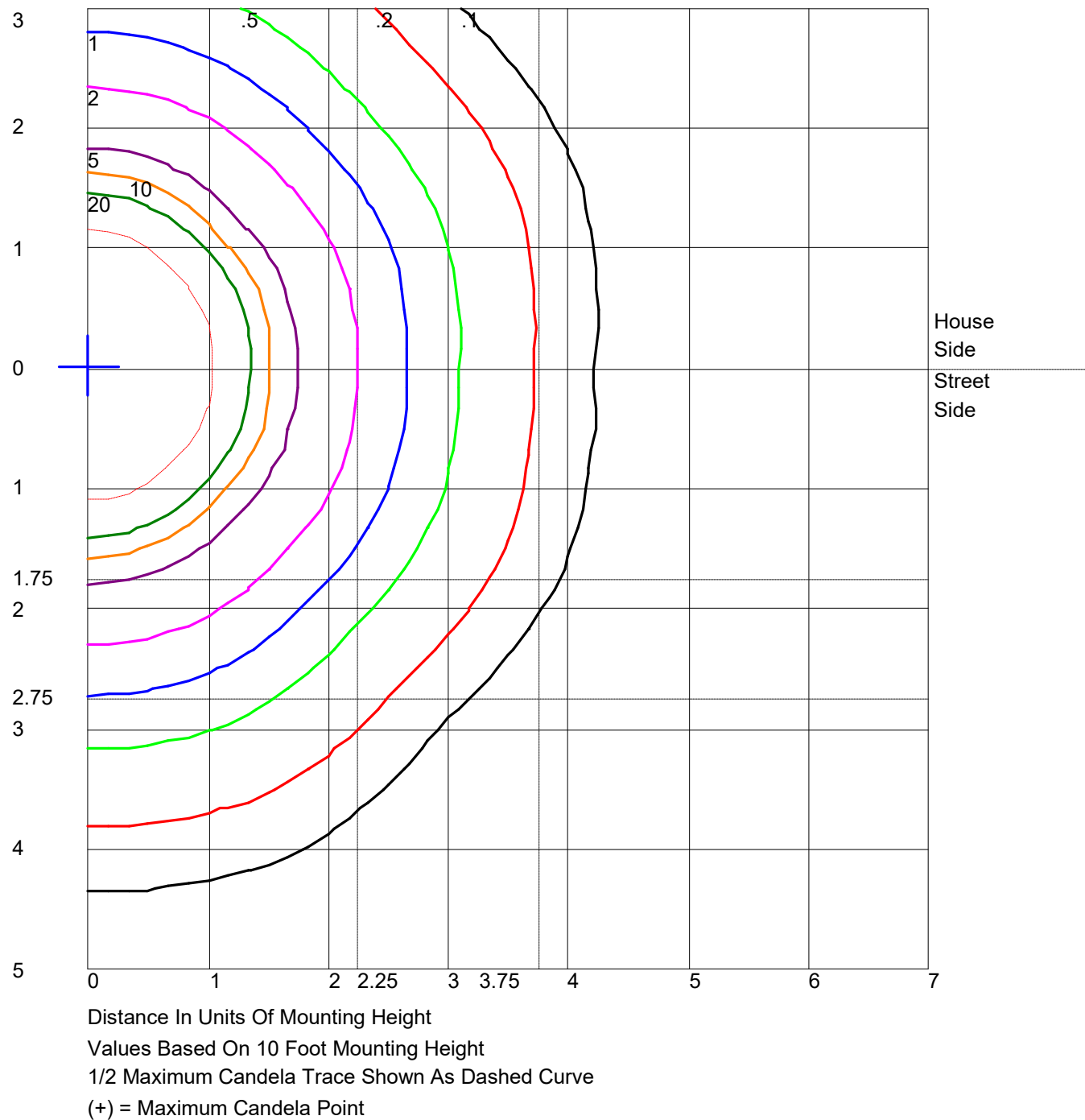
	Lumens	Percent Of Lamp
Downward Street Side	40937.7	49.2
Downward House Side	42248.9	50.8
Downward Total	83186.6	99.9
Upward Street Side	10.3	0.0
Upward House Side	11.0	0.0
Upward Total	21.3	0.0
Total Flux	83207.9	100.0

POLAR GRAPH

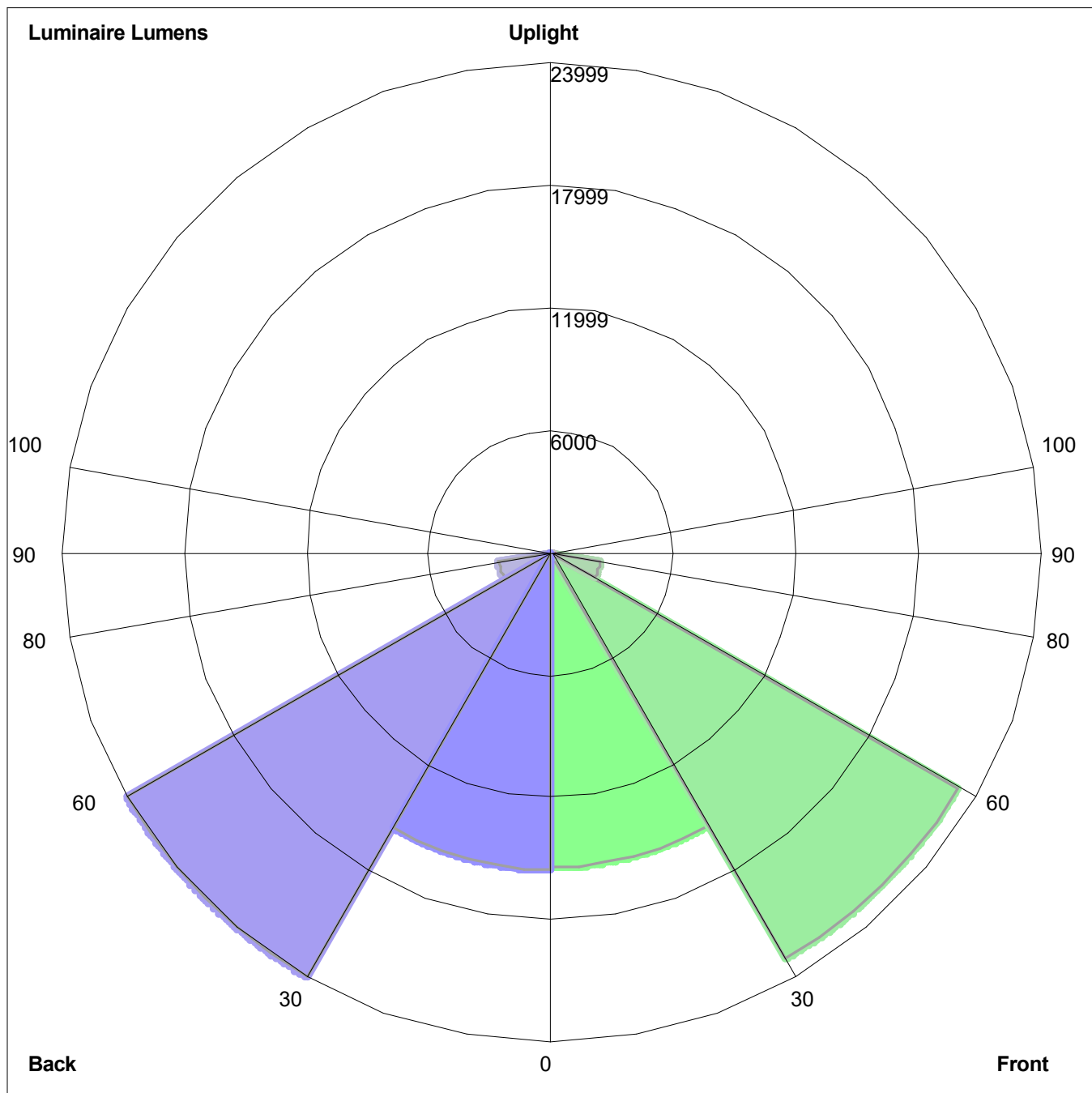


Maximum Candela = 40886.992 Located At Horizontal Angle = 180, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=15434.3, Medium=23015.7, High=2433.5, Very High=54.1
Back: Low=15551.4, Medium=23998.9, High=2621.2, Very High=77.4
Uplight: Low=1.0, High=20.3

BUG Rating : B5-U2-G2



IES ROAD REPORT

PHOTOMETRIC FILENAME : EPL-HB-2X300LED-RT-140DB.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] RADIANT ZEMAX
[TESTDATE] 20200629
[ISSUE DATE] 2020-06-29 10:37:36
[MANUFAC] Larson Electronics LLC
[LUMCAT] EPL-HB-2X300LED-RT-140DB
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED FIXTURE - 140 DEGREE BEAM
[LAMP CAT] LED
[LAMP POSITION] 0,0
[OTHER] ZVISION 9107GT SYSTEM

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	83245 (1 lamp)
Total Lamp Lumens	83245
Luminaire Lumens	83070
Downward Total Efficiency	100 %
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	597.92
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	29781.411
Maximum Candela Angle	225H 58.5V
Maximum Candela (<90 Degrees Vertical)	29781.411
Maximum Candela Angle (<90 Degrees Vertical)	225H 58.5V
Maximum Candela At 90 Degrees Vertical	7.534 (0.0% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	731.843 (0.9% Lamp Lumens)
Cutoff Classification (deprecated)	Cutoff



IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-HB-2X300LED-RT-140DB.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	6074.9	7.3	7.3
FM - Front-Medium (30-60)	23498.5	28.2	28.3
FH - Front-High (60-80)	11419.6	13.7	13.7
FVH - Front-Very High (80-90)	112.4	0.1	0.1
BL - Back-Low (0-30)	6101.6	7.3	7.3
BM - Back-Medium (30-60)	24224.6	29.1	29.2
BH - Back-High (60-80)	11505.7	13.8	13.9
BVH - Back-Very High (80-90)	114.2	0.1	0.1
UL - Uplight-Low (90-100)	2.4	0.0	0.0
UH - Uplight-High (100-180)	16.0	0.0	0.0
Total	83069.9	99.6	100.0
BUG Rating	B5-U2-G4		

IES ROAD REPORT
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CANDELA TABULATION

Vert. Angles	Horizontal Angles										
	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5	
0.0	15548.44215548.44215548.44215548.44215548.44215548.44215548.44215548.44215548.442										
0.5	15699.88415646.38015601.02415548.90315515.23215485.09815451.58015426.36615699.88415639.461										
1.0	15694.81115649.60915592.56815552.28615510.15915483.56015443.12415424.67415693.27315632.850										
1.5	15684.97115642.84415584.26515543.83015498.47415473.41315433.13115417.90915686.50815619.474										
2.0	15671.44115632.85015567.35315537.06515483.56015466.64815417.90915409.45315678.05215606.098										
2.5	15652.99115619.47415547.21215523.68815463.26515451.58015401.15115397.76815664.67615592.568										
3.0	15631.15915599.17915522.15115505.39215438.20415434.82215374.24515384.39215647.91715572.427										
3.5	15604.25315579.19215486.78915481.71515402.84215411.29815347.33915362.56015626.08515545.521										
4.0	15574.11815553.97715448.19815456.65415364.25115377.78115315.66715337.49915595.95015508.621										
4.5	15538.91015518.76815411.29815417.90915325.50715345.80115275.38415303.82815565.66215474.950										
5.0	15496.93615488.48015364.25115382.70115277.07615307.21015233.25715270.31115527.07115438.204										
5.5	15451.58015449.88915323.96915339.03615236.79415261.85515188.05515231.72015486.78915392.695										
6.0	15404.68715397.76815278.61315292.14315189.59315221.57215144.39115186.36415444.81515350.875										
6.5	15355.94915354.25715224.95515245.09615134.24315179.59915100.72615147.77315394.54015302.137										
7.0	15308.90215303.82815172.83415191.43815087.35015125.94115048.60515104.10915352.41315251.707										
7.5	15256.78115255.09015129.17015144.39115033.53815077.20314998.32915050.29715297.06315211.425										
8.0	15211.42515206.50515079.04815092.42414991.56515026.77314958.04715003.40315250.17015161.149										
8.5	15169.60515156.07615038.61215043.68514952.97414979.88014914.38314954.66515206.50515117.485										
9.0	15131.01515114.25615000.02115001.71214914.38314939.59814879.17414916.07415156.07615079.048										
9.5	15097.34415072.12914964.81214963.12114885.78614901.00714845.65714879.17415119.17615043.685										
10.0	15068.90015033.53814939.59814922.83914862.41614867.48914818.75114842.12115079.04815013.397										
10.5	15041.99415006.78614912.69214897.62414838.89214845.65714801.99314817.06015053.67914991.565										
11.0	15018.47114978.18814890.85914872.56314818.75114822.13414780.16014800.30115025.23514971.423										
11.5	14998.32914949.59114869.02714848.88614800.30114805.37514763.24814778.46915004.94114959.739										
12.0	14979.88014927.91314843.96614823.82514778.46914786.77114743.26114758.17414986.64514941.289										
12.5	14959.73914909.30914818.75114801.99314756.63714766.78414723.12014738.18714966.35014926.068										
13.0	14941.28914882.40314791.84514781.69814729.73114744.95214697.90514718.04614942.82614906.080										
13.5	14916.07414853.96014756.63714754.94514706.20714718.04614670.99914692.83114922.83914885.786										
14.0	14895.93314827.20714726.50214723.12014679.30114692.83114644.09314664.38814894.39514857.342										
14.5	14869.02714798.45614691.14014697.90514649.16614662.54314612.26714639.17314870.71814830.436										
15.0	14842.12114768.32214662.54314665.92514620.72314630.87014580.44114608.88414838.89214800.301										
15.5	14815.52214733.11314627.33414632.40814590.43414605.50214551.69014575.36714806.91214776.778										
16.0	14788.61614702.82514593.81714598.89114561.83714575.36714513.25314543.38714775.08714753.254										
16.5	14761.71014674.38114563.68214566.91114538.46714546.92414481.27314514.94414749.87214728.039										
17.0	14733.11314642.55514530.01114534.93114511.56114518.17314457.90314484.80914719.58314709.743										
17.5	14712.97214610.57614503.25914504.79614486.34714489.72914427.61514457.90314696.21314686.066										
18.0	14691.14014582.13214477.89014474.66214466.20614466.20614402.40014429.30614674.38114664.388										
18.5	14662.54314551.69014451.13814447.75614441.14514444.37314380.56814404.09114652.54914639.173										
19.0	14642.55514530.01114417.62114422.54114420.85014417.62114357.19814380.56814627.33414613.958										
19.5	14617.34014504.79614393.94414390.71514395.78914393.94414328.60114353.81514598.89114588.743										
20.0	14597.19914477.89014358.73514363.80914370.57414370.57414300.15714331.82914577.05814563.682										
20.5	14573.52214454.52114333.67414335.36614348.74214347.05014273.25114308.46014548.46114534.931										
21.0	14545.07914422.54114301.69514305.07714321.83614321.83614244.65414279.86214526.62914509.870										
21.5	14521.55514395.78914271.40614274.78914296.62114293.23814212.82814249.72814498.18514477.890										
22.0	14488.03814362.27214242.96314242.96314273.25114261.56614185.92214216.21014468.05114446.218										
22.5	14457.90314331.82914214.36514214.36514246.34514234.66014155.78714185.92214441.14514415.776										
23.0	14434.38014298.31214182.53914185.92214224.51314200.98914133.95514155.78714414.23914385.641										
23.5	14410.85614263.10414159.01614152.25114211.13714179.15714110.43114128.88114393.94414365.500										
24.0	14385.64114238.04314137.33714123.80714195.91614160.70714093.67314108.58614375.64814347.050										
24.5	14368.88314212.82814122.11614101.97514184.23114143.94914085.21714088.59914357.19814335.366										
25.0	14353.81514194.37814107.04914076.91414177.61914132.26414081.83414076.91414341.97714328.601										
25.5	14341.97714175.77414093.67314054.92814170.85514120.57914080.14314068.30414333.67414313.533										
26.0	14335.36614159.01614083.52514034.78714165.78114108.58614076.91414058.31114330.29214308.460										

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CANDELA TABULATION - (Cont.)

26.5	14335.36614142.25714071.84014018.02814169.16314100.28414076.91414058.31114323.52714301.695
27.0	14330.29214130.41914070.14914006.34414170.85514091.82814071.84014056.61914320.14414295.083
27.5	14333.67414117.04314066.76713992.96714179.15714083.52514070.14914051.54614321.83614295.083
28.0	14338.59414108.58614063.38413981.12914187.61314083.52514068.30414053.39114328.60114295.083
28.5	14345.35914101.97514061.69313974.36414197.60714083.52514068.30414056.61914333.67414303.386
29.0	14358.73514100.28414058.31113969.44414212.82814088.59914068.30414065.07614343.66814316.916
29.5	14372.11114096.90114063.38413971.13514232.96914093.67314081.83414076.91414355.35314341.977
30.0	14390.71514101.97514071.84013967.59914256.49314105.35814098.74614088.59914377.18514365.500
30.5	14414.23914107.04914086.90813976.05514281.55414118.73414118.73414107.04914395.78914395.789
31.0	14444.37314118.73414100.28413984.51114313.53314138.87514152.25114133.95514425.92314437.608
31.5	14486.34714127.19014125.34513997.88714343.66814160.70714192.53314167.47214464.51414488.038
32.0	14536.77614142.25714154.09614012.95514393.94414180.84814239.58014209.29214504.79614555.226
32.5	14598.89114165.78114190.99614034.78714441.14514219.43914295.08314276.48014558.60914627.334
33.0	14681.14614195.91614246.34514063.38414494.64914261.56614365.50014345.35914629.02514709.743
33.5	14770.01314242.96314308.46014100.28414566.91114308.46014469.58814430.99714699.59614803.530
34.0	14862.41614303.38614380.56814143.94914642.55514373.95614593.81714540.00514798.45614899.162
34.5	14990.02714382.25914491.42014192.53314749.87214452.82914790.15414667.61614897.62415000.021
35.0	15125.94114457.90314632.40814256.49314867.48914580.44115028.61814833.81815001.71215136.088
35.5	15305.51914563.68214842.12114340.43915021.85314736.34215371.01615083.81415137.62615293.834
36.0	15522.15114696.21315266.92814430.99715243.40514941.28915761.99915375.93615290.29815500.319
36.5	15889.61014877.48315678.05214561.83715557.35915305.51916168.35615711.72315474.95015760.461
37.0	16408.35815209.88816022.29514701.13316079.33615756.92516705.55416128.07415760.46116215.250
37.5	16754.13815659.60216310.88114894.39516866.52916232.00817396.96116639.90316195.26216866.529
38.0	17012.59016045.81916594.70115260.16317719.21816876.67617912.32717311.47716896.81717556.399
38.5	17313.01516367.92217014.28115812.42818195.99317516.11718170.77817982.74417603.44618135.570
39.0	17600.06316692.02417496.12916655.12418429.38317925.70318187.53718335.28918175.85218543.465
39.5	18080.22017079.62417658.94917370.05518469.51218110.35518115.42918456.13518555.30318687.835
40.0	18461.20917504.43217588.37817668.78918244.57718127.11317850.21218397.40318632.33118582.056
40.5	18451.21617682.31917376.82017677.39917949.22617930.77717491.05618232.89218476.27718326.987
41.0	18276.55717647.11017121.75117492.74717667.25117610.21117249.36317917.40018204.44918016.261
41.5	18007.95817499.35816935.40817252.59117459.07617313.01517093.15417594.99017929.08517689.084
42.0	17776.41317254.43616848.07916972.30817368.51817128.36317032.73117318.08817675.70817459.076
42.5	17642.19017012.59016856.53516827.93817366.82717042.87817039.49617190.47717517.96217380.203
43.0	17645.41916947.24716916.80516780.89117438.93517026.12017121.75117163.57117469.22317413.720
43.5	17721.06316982.45517032.73116819.63517558.24417103.30217254.43617188.94017496.12917532.875
44.0	17848.52117067.93917207.23616888.36117729.36617229.06817465.84117291.18217591.76117717.527
44.5	18011.49517190.47717408.80017019.35517961.06517415.41117705.84217494.28417741.05117922.474
45.0	18239.65717371.74717680.78117190.47718224.59017635.27217977.82417719.21817962.75618170.778
45.5	18486.42417573.15717962.75617398.65318560.22317888.80318315.14817982.74418222.74518488.115
46.0	18773.31917806.54818273.17517677.39918895.85618209.52318659.23718320.22218513.17618796.996
46.5	19141.08518120.50218672.61317969.36719266.85218536.70019094.03818650.93518869.10419149.542
47.0	19500.24218437.83919057.13918293.31619706.72718897.70119511.92719023.46819216.42219587.571
47.5	19935.04318827.13119466.72518692.90820131.38019324.04619968.56019466.72519651.37720020.681
48.0	20349.70319211.65619955.03119080.50920584.47719745.31720508.98719916.44020079.25920537.584
48.5	20797.88019624.47120425.19419540.52421125.05720255.60921010.97620393.21420532.51021020.970
49.0	21333.23320104.47420923.64719992.08421647.18820754.21621541.40920940.40521073.09021541.409
49.5	21821.69220577.86621499.43520473.77822212.82921281.26622164.09021454.07921591.68422155.788
50.0	22337.05821086.46622050.00921051.25822843.81321903.94822734.80522069.99622145.64122729.731
50.5	22927.76021689.00722666.08021600.14123434.82322486.50123382.85622654.39522776.93223329.044
51.0	23473.41322244.80823231.72122242.96324082.71923083.96823986.93423258.47323350.87624008.766
51.5	24079.33722882.55823815.81222822.13424650.20523758.77124591.32023940.04024012.30224619.763
52.0	24621.60823473.41324467.09123407.91725185.55824361.31225251.05524552.72924613.15225279.498
52.5	25146.96724059.19625046.10824064.26925751.19925029.34925851.90425145.27625194.01425885.575
53.0	25700.92324702.17225616.97624643.28726214.59725588.37926429.38425796.55525823.46126447.834
53.5	26155.71225277.96126221.20825188.94026603.88926098.67127040.38126348.82026340.36427000.099
54.0	26580.36525816.69626746.72125739.51426969.81026615.57427567.43126884.17226788.54127441.665

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CANDELA TABULATION - (Cont.)

54.5	26979.95826353.74027303.90626180.92627270.38927033.61628057.58227315.59127203.20127829.265
55.0	27293.75926793.61427741.93626610.65427564.04927389.39028547.73227693.19727532.22328173.354
55.5	27600.94827216.57728102.78426926.29927798.97727718.56628932.10428030.82927887.99728413.510
56.0	27832.64727532.22328431.80627182.90627983.62927948.42029230.99128274.06028141.37528633.370
56.5	28023.91127802.51328634.90827426.44428143.22028159.97829402.11328473.93328364.77128754.217
57.0	28201.95228034.05828725.77327599.41128232.24028299.42829452.38928613.07528547.73228853.231
57.5	28309.26828180.11928730.53927716.87528262.37528401.67129400.42228703.94128670.27028943.789
58.0	28354.62428277.44228624.91427807.43328262.37528473.93329247.75028760.98228752.37228970.695
58.5	28359.69828309.26828420.12127832.64728205.33428487.30929002.67428760.98228794.49928957.318
59.0	28309.26828290.81828139.83727798.97728086.02528452.10128638.29028727.31128806.18428881.674
59.5	28181.81128205.33427804.05027713.49227916.59428347.85928211.94528601.39028747.45228745.760
60.0	27997.15828060.96427347.57127569.12227653.06928198.56927636.15728415.04728645.05528586.323
60.5	27755.31227854.48026830.66827369.40327240.10027955.18527040.38128176.73728467.01428356.469
61.0	27431.51727557.28426221.20827114.18026828.82327656.45226350.51127836.03028186.73028111.240
61.5	27080.66327257.01325430.63326781.93026385.71927287.14725501.05027480.10227861.09127758.694
62.0	26662.77426887.70924614.84326323.60525816.69626761.63524641.59527080.66327461.65227324.047
62.5	26164.16826426.00223609.32725823.46125232.60526194.30223688.20026575.44526976.57526796.997
63.0	25638.80925951.07222657.62325237.52524577.94325566.54722571.98526055.00626521.63326075.147
63.5	25039.49725340.07521670.55724505.68223814.27424775.97221522.95925407.11025957.68325328.237
64.0	24446.95024705.40120532.51023792.44223078.89523961.87320438.41624747.37425400.34524384.835
64.5	23804.12723988.77919465.03422911.00122199.45322983.26319209.81123998.77224733.99823434.823
65.0	23028.46523093.96218355.43022038.32421286.34022041.55318063.46223078.89523986.93422437.763
65.5	22256.49322211.13717039.49621109.99020304.19421047.87616717.23922180.84923253.55321256.051
66.0	21375.05321259.43415829.18719981.93719136.01219827.41915446.50721187.17222410.85720131.380
66.5	20252.22720087.71614464.51418890.9371965.98518654.16414130.41919995.31321366.75018929.527
67.0	19187.97918932.91013178.86917606.82816759.05817212.30912646.74518788.54020389.98517487.673
67.5	17964.29417580.07611872.92816366.38515446.50715882.99911280.38117373.59219245.17316087.638
68.0	16759.05816324.41110399.09415058.75313987.89414600.4289910.635 15995.38917747.96914630.870
68.5	15456.65415023.5449150.194 13541.25412383.22013081.3928823.017 14540.00516403.28413022.660
69.0	13799.85913469.1467645.149 12116.15811065.44011548.8266995.869 12928.72015031.84711538.832
69.5	12183.34612012.2246371.649 10664.3109420.484 10064.9985632.580 11374.32113449.0059843.446
70.0	10697.82710488.1145163.647 8989.066 7569.505 8366.230 4552.650 9824.997 11664.7528864.837
70.5	9218.920 8871.448 4064.652 7558.896 6250.034 6392.405 3497.319 8310.880 9969.367 6912.076
71.0	7158.996 7422.982 3074.203 6033.402 4556.340 5565.546 2412.930 6288.471 8248.766 5438.703
71.5	5498.050 5893.799 2217.824 4801.107 3264.544 4205.793 1664.021 5309.400 5976.669 4094.786
72.0	4105.549 4701.632 1496.896 3517.460 2437.684 2994.254 1209.079 3955.798 4822.017 2905.849
72.5	2972.422 3474.411 1108.220 2395.864 2004.574 2061.154 992.140 2928.142 3409.836 1974.901
73.0	2145.100 2404.628 958.161 1770.569 1784.714 1610.824 919.109 2171.853 2333.750 1524.264
73.5	1766.110 1782.100 896.201 1432.629 1617.589 1362.981 880.672 1741.510 1833.913 1280.418
74.0	1559.780 1427.556 863.606 1234.447 1475.679 1199.085 850.383 1452.924 1615.129 1128.361
74.5	1434.321 1206.158 831.934 1117.752 1380.047 1105.606 828.859 1224.608 1472.758 1048.258
75.0	1344.531 1083.774 798.570 1024.581 1308.862 1032.883 795.341 1075.471 1391.579 989.833
75.5	1274.422 998.905 765.053 966.310 1247.670 987.988 765.822 966.156 1315.781 951.858
76.0	1223.839 953.549 725.540 921.569 1193.089 952.626 732.151 928.180 1267.350 919.878
76.5	1170.949 923.875 688.025 881.748 1125.132 909.730 689.716 902.966 1217.381 876.367
77.0	1112.064 885.131 646.052 841.312 1059.328 862.991 649.742 866.681 1155.574 840.082
77.5	1055.945 843.004 609.306 794.727 991.525 810.563 609.459 823.324 1094.229 774.585
78.0	994.292 796.879 571.484 740.299 914.958 754.752 564.872 775.662 1026.887 713.086
78.5	921.723 742.759 528.280 693.714 853.920 702.939 524.744 719.697 948.936 660.350
79.0	858.378 692.637 487.844 645.283 772.894 650.510 479.234 669.114 878.212 603.156
79.5	779.044 636.827 448.177 583.783 710.780 584.860 439.106 588.396 807.641 549.344
80.0	714.162 579.940 406.358 538.581 652.509 539.350 400.669 564.411 731.843 494.455
80.5	651.433 541.195 370.688 484.154 591.625 484.308 361.770 512.598 664.655 436.800
81.0	584.245 486.614 335.172 440.028 538.889 440.028 330.252 458.632 584.398 388.830
81.5	528.280 440.490 306.882 399.746 490.458 399.900 301.501 414.199 543.809 341.629
82.0	475.544 393.904 278.592 358.388 440.336 358.234 270.290 370.688 492.303 304.422

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CANDELA TABULATION - (Cont.)

82.5	422.194	356.697	247.843	325.793	398.516	324.717	244.153	335.633	439.567	272.443
83.0	378.068	322.718	223.704	296.427	355.621	295.505	220.475	304.576	396.825	241.078
83.5	333.327	289.509	202.487	266.908	317.798	264.909	196.952	275.210	351.623	216.017
84.0	298.119	262.449	180.347	242.462	279.207	239.540	177.887	250.764	313.801	194.031
84.5	265.985	237.388	162.666	218.169	235.850	214.479	158.207	228.470	278.746	171.276
85.0	231.699	213.403	144.216	197.106	196.337	192.801	140.680	205.408	242.923	151.904
85.5	199.412	192.647	118.233	175.888	154.979	171.276	118.694	185.882	212.481	132.224
86.0	162.512	172.352	89.482	146.676	110.084	141.756	88.252	166.663	182.961	113.159
86.5	114.543	143.909	66.419	114.389	80.718	110.699	65.651	143.601	149.136	89.020
87.0	77.797	111.160	39.513	80.103	37.515	82.717	43.357	116.541	116.080	65.804
87.5	48.123	73.953	6.919	31.672	5.227	33.671	10.762	83.332	82.563	47.047
88.0	18.450	27.214	0.000	10.609	0.154	11.531	0.769	33.210	32.441	15.529
88.5	0.922	9.379	0.000	6.150	0.000	7.226	0.000	13.530	14.760	1.076
89.0	0.000	6.765	0.000	6.457	0.000	5.842	0.000	7.380	10.609	0.307
89.5	0.000	5.381	0.000	5.689	0.000	5.996	0.000	5.996	9.225	0.000
90.0	0.000	5.381	0.000	4.766	0.000	4.766	0.000	4.920	7.534	0.154
90.5	0.154	5.996	0.000	4.305	0.000	4.151	0.000	4.766	7.841	0.307
91.0	0.000	4.612	0.154	4.612	0.000	4.459	0.000	4.920	6.919	0.154
91.5	0.000	5.227	0.000	3.690	0.000	4.151	0.000	3.536	6.765	0.154
92.0	0.000	4.151	0.000	4.151	0.000	3.844	0.000	4.612	6.150	0.307
92.5	0.000	4.151	0.307	4.151	0.000	3.536	0.000	3.536	6.457	0.000
93.0	0.307	4.459	0.000	4.151	0.000	3.844	0.000	3.844	6.611	0.307
93.5	0.000	4.151	0.000	3.997	0.000	3.690	0.000	3.075	5.074	0.000
94.0	0.154	3.229	0.000	3.229	0.000	3.382	0.000	2.614	4.920	0.461
94.5	0.000	3.382	0.000	3.844	0.000	3.229	0.000	3.844	5.381	0.461
95.0	0.154	3.075	0.000	2.614	0.000	2.614	0.000	2.921	4.612	0.461
95.5	0.000	3.382	0.000	2.921	0.000	3.075	0.000	2.614	5.535	0.461
96.0	0.000	2.460	0.000	2.306	0.154	2.614	0.000	2.921	5.842	0.461
96.5	0.154	3.690	0.000	3.075	0.000	2.460	0.000	2.614	4.612	0.307
97.0	0.000	3.075	0.000	3.075	0.000	2.460	0.154	2.614	4.766	0.769
97.5	0.000	3.075	0.154	1.999	0.000	2.306	0.307	2.921	5.074	0.615
98.0	0.307	2.152	0.000	3.536	0.000	3.075	0.307	2.152	4.766	1.076
98.5	0.307	3.536	0.154	2.460	0.000	2.460	0.461	2.152	4.920	0.461
99.0	0.000	3.229	0.000	3.075	0.307	2.614	0.461	2.152	5.074	0.922
99.5	0.000	2.460	0.000	3.229	0.154	2.152	0.000	3.229	4.920	1.537
100.0	0.000	2.460	0.000	3.075	0.307	2.306	0.154	2.921	4.766	0.461
100.5	0.461	1.999	0.000	2.614	0.000	2.306	0.461	2.460	4.612	0.922
101.0	0.307	2.921	0.154	3.075	0.307	2.921	0.154	1.845	4.459	0.769
101.5	0.154	2.614	0.461	1.999	0.154	2.152	0.307	3.229	4.612	0.922
102.0	0.615	3.382	0.154	3.075	0.307	2.306	0.000	2.306	4.920	0.922
102.5	0.154	2.614	0.307	2.152	0.000	2.921	0.000	2.306	4.305	1.076
103.0	0.154	2.460	0.154	3.690	0.461	2.921	0.154	3.075	3.997	1.230
103.5	0.461	3.075	0.307	2.921	0.615	3.229	0.461	2.152	4.766	1.230
104.0	0.615	3.229	0.154	2.152	0.769	3.382	0.769	1.845	3.997	0.922
104.5	0.769	2.921	0.769	3.536	0.922	2.306	0.615	3.229	4.459	1.537
105.0	1.384	3.382	0.922	2.152	0.769	2.460	0.615	2.614	4.459	1.691
105.5	0.615	2.921	0.307	3.536	0.769	2.152	0.307	2.306	4.766	1.076
106.0	0.461	2.921	0.307	2.306	0.615	2.614	0.307	2.921	4.612	1.230
106.5	0.922	1.999	0.307	3.382	0.307	3.229	0.461	2.921	4.920	1.537
107.0	0.922	2.921	0.615	2.152	0.922	3.382	0.307	2.306	4.305	0.615
107.5	0.769	2.614	0.769	3.382	0.461	3.075	0.307	2.921	4.612	1.384
108.0	0.615	3.536	1.230	3.075	0.615	3.075	0.922	2.306	4.305	1.384
108.5	0.615	3.536	0.461	3.536	0.769	2.460	1.076	2.152	5.074	2.460
109.0	1.076	3.075	0.769	2.460	0.769	2.614	0.615	1.999	4.305	1.537
109.5	0.922	3.382	1.076	2.614	0.615	2.152	0.769	3.075	4.612	1.230
110.0	1.384	3.229	0.922	3.075	1.384	3.690	0.461	3.690	4.459	1.537

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CANDELA TABULATION - (Cont.)

110.5	1.845	3.229	0.461	3.690	1.076	3.229	1.076	3.075	4.305	1.845
111.0	1.537	3.690	1.076	3.382	0.769	3.690	0.615	3.075	4.151	2.306
111.5	1.691	3.690	1.230	3.382	1.076	3.229	0.769	3.690	4.612	1.845
112.0	1.384	2.921	1.230	2.921	0.769	2.460	0.922	3.690	5.381	2.152
112.5	1.845	2.614	1.537	3.536	1.537	2.614	1.384	2.460	4.766	1.845
113.0	1.076	3.382	1.230	3.382	1.230	3.075	1.230	3.229	4.459	1.999
113.5	1.076	3.382	1.230	2.921	1.999	3.536	1.230	3.075	4.151	2.921
114.0	1.537	3.382	1.384	3.536	1.384	1.999	0.769	3.229	5.074	1.845
114.5	1.537	3.536	1.230	3.844	1.076	2.921	1.230	2.614	4.612	1.999
115.0	1.384	3.229	1.384	3.844	1.384	2.614	1.384	3.075	4.459	2.460
115.5	1.384	3.844	1.537	3.229	1.691	3.536	0.769	3.844	5.227	2.152
116.0	1.691	3.382	1.230	4.305	1.537	3.229	1.230	3.690	4.920	2.306
116.5	1.845	3.536	1.537	2.921	1.076	3.382	1.230	3.844	4.920	2.921
117.0	1.537	4.305	1.537	3.229	1.537	3.229	1.076	4.151	4.920	2.460
117.5	1.537	3.229	1.999	3.997	1.845	3.690	1.691	3.382	5.842	2.614
118.0	1.230	3.690	1.537	3.844	1.845	4.305	1.537	3.382	4.766	2.921
118.5	1.691	4.459	1.230	3.844	1.845	3.690	1.076	3.690	5.381	1.999
119.0	1.691	3.844	1.691	3.075	1.845	3.690	1.076	2.921	4.459	3.075
119.5	2.152	3.844	1.537	4.151	2.152	3.075	1.230	3.690	5.074	2.306
120.0	2.152	3.997	1.384	3.997	1.691	3.229	1.845	4.151	5.227	2.306
120.5	1.999	3.997	1.691	3.382	1.845	3.382	1.845	2.921	5.996	2.306
121.0	2.306	3.844	1.691	4.305	1.845	2.921	1.537	2.921	4.920	3.536
121.5	1.999	3.382	1.999	3.997	2.306	3.229	1.999	3.075	5.074	3.229
122.0	1.691	3.382	1.537	3.382	1.845	3.690	1.691	3.844	5.074	2.306
122.5	2.306	3.690	1.999	4.305	1.384	3.382	1.999	2.614	4.920	3.229
123.0	2.152	4.459	2.614	3.997	1.845	3.536	1.537	3.690	4.766	3.382
123.5	1.845	3.997	2.306	3.382	1.230	3.536	1.384	3.690	5.227	3.075
124.0	1.999	4.151	1.691	3.229	1.999	3.536	1.691	3.075	4.920	3.229
124.5	1.691	3.997	2.921	3.690	2.614	3.536	1.845	3.075	4.766	3.075
125.0	1.845	3.844	1.384	3.536	1.691	3.382	2.152	3.690	4.920	2.614
125.5	1.076	3.382	1.999	2.921	2.460	2.152	1.691	3.382	5.381	3.075
126.0	1.845	4.305	1.691	3.690	2.152	3.382	2.306	3.075	5.381	3.382
126.5	2.306	3.229	1.845	3.382	2.152	3.690	1.537	3.229	5.074	3.229
127.0	2.614	3.844	2.306	3.536	2.306	3.382	2.152	3.536	4.459	2.306
127.5	2.306	2.921	1.845	4.151	1.999	3.075	1.537	3.690	4.459	3.382
128.0	3.075	3.382	1.537	4.305	2.306	3.997	1.845	3.229	5.074	3.075
128.5	3.075	4.305	2.152	3.844	1.999	2.460	1.999	2.614	4.920	3.536
129.0	2.306	3.844	2.306	3.844	2.306	3.844	2.152	3.229	4.766	3.075
129.5	1.845	4.459	1.999	3.382	1.845	3.844	1.384	3.382	5.074	3.382
130.0	1.845	3.844	1.691	3.690	2.306	3.536	1.537	3.229	5.074	4.151
130.5	1.845	3.844	2.460	3.382	2.460	3.382	2.152	2.921	4.459	3.229
131.0	2.921	3.536	3.229	4.151	3.075	2.614	1.691	3.075	4.305	3.690
131.5	2.460	3.844	2.306	3.997	2.306	3.229	2.306	2.614	5.074	3.075
132.0	2.460	4.151	2.306	3.536	2.306	4.305	1.384	3.382	4.920	3.229
132.5	2.921	3.844	2.614	3.844	1.999	3.690	1.537	2.306	5.535	3.844
133.0	2.152	4.151	2.460	3.844	2.460	3.536	1.999	3.690	5.227	3.382
133.5	3.382	3.997	1.845	3.844	2.306	3.382	2.306	3.382	4.612	3.229
134.0	2.460	3.536	2.460	3.536	2.460	3.075	1.691	3.382	4.920	2.921
134.5	3.075	4.766	2.614	4.920	2.306	3.997	2.460	3.536	5.535	3.844
135.0	2.460	4.766	2.460	3.844	2.306	3.844	3.382	3.075	5.996	3.382
135.5	2.460	4.151	1.845	3.690	2.614	4.151	2.306	3.690	4.920	4.305
136.0	2.614	3.690	2.614	4.305	3.075	3.690	1.845	3.844	4.459	4.459
136.5	2.614	3.997	3.382	3.536	3.229	3.075	2.306	3.997	5.381	3.997
137.0	2.921	4.151	2.460	4.151	3.075	3.690	2.921	3.536	5.689	4.459
137.5	3.382	4.459	2.306	3.997	2.921	3.844	2.306	3.382	5.074	3.536
138.0	2.152	4.459	2.921	4.612	3.536	3.690	2.460	3.075	5.381	3.690

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CANDELA TABULATION - (Cont.)

138.5	3.382	4.305	3.229	3.997	2.614	4.459	2.921	3.075	4.920	3.997
139.0	3.229	4.151	3.844	4.305	3.536	4.305	3.229	4.305	4.459	3.690
139.5	3.844	4.459	2.460	4.920	2.152	4.612	2.306	3.844	4.459	3.997
140.0	3.075	4.151	3.229	4.766	2.614	4.920	3.229	3.844	5.535	3.844
140.5	3.690	4.920	3.690	4.305	3.075	4.151	3.690	4.612	5.074	3.382
141.0	4.151	5.074	3.229	5.381	2.614	3.844	3.229	4.151	4.459	3.382
141.5	3.382	4.612	3.382	3.690	2.921	4.151	3.536	4.612	5.689	3.690
142.0	3.229	4.459	3.844	4.612	3.382	4.151	3.229	3.690	5.227	5.227
142.5	3.075	4.766	2.614	4.612	2.460	3.844	2.921	3.997	4.920	3.844
143.0	3.690	3.997	3.997	4.151	2.460	4.151	2.460	4.151	4.766	3.536
143.5	3.997	5.074	3.844	5.074	3.075	3.997	3.690	3.844	4.920	3.690
144.0	4.305	4.305	3.382	4.459	3.382	4.459	3.075	4.920	4.920	3.536
144.5	4.151	4.459	3.075	3.844	3.536	4.151	3.690	3.536	3.997	3.997
145.0	3.997	4.459	3.536	4.766	3.690	3.382	3.382	4.305	4.920	1.845
145.5	3.997	5.074	3.382	4.766	3.997	4.612	3.382	4.766	5.074	3.690
146.0	3.536	4.459	3.690	4.305	3.997	4.151	4.305	3.382	4.459	3.382
146.5	3.997	4.920	3.536	4.305	3.536	3.997	2.921	4.305	4.766	2.614
147.0	4.151	5.535	3.536	4.459	3.844	4.151	3.229	3.690	4.459	3.229
147.5	4.612	4.305	3.690	4.612	3.536	3.690	3.382	3.997	3.844	3.690
148.0	4.459	4.612	3.229	4.766	3.536	4.459	2.614	4.766	3.997	3.536
148.5	3.844	4.305	4.305	4.151	3.536	4.612	2.306	4.151	4.459	2.921
149.0	3.844	4.612	3.536	4.766	2.460	3.844	3.382	4.459	4.151	3.690
149.5	3.075	4.305	3.536	4.920	4.151	4.459	3.229	3.844	3.997	2.921
150.0	3.075	4.459	3.229	4.612	3.690	4.305	2.460	4.151	3.844	3.075
150.5	3.382	4.305	3.690	5.074	3.382	4.612	3.229	3.536	4.459	2.306
151.0	3.844	4.766	3.536	4.151	3.382	4.612	3.844	3.997	4.612	3.844
151.5	3.690	4.151	3.229	4.920	3.382	3.690	2.921	3.536	4.612	3.229
152.0	3.229	4.151	3.229	4.459	3.075	4.612	3.229	3.690	4.305	3.690
152.5	3.690	4.459	3.997	5.381	3.844	3.690	2.152	3.844	3.997	3.382
153.0	4.305	4.920	3.844	4.459	3.229	4.766	3.536	4.305	4.766	2.921
153.5	3.844	4.766	3.536	4.766	3.075	4.612	3.997	3.229	4.151	3.536
154.0	4.459	4.151	3.690	4.612	3.690	3.844	3.075	4.151	4.151	3.536
154.5	3.844	4.459	3.382	4.151	3.536	4.305	2.152	3.844	3.536	3.075
155.0	3.997	4.920	3.536	3.997	3.382	4.305	2.460	3.690	3.690	3.229
155.5	3.997	4.305	3.690	4.151	3.229	3.690	2.921	3.844	4.612	3.229
156.0	3.536	4.920	3.690	4.305	3.536	4.612	3.382	3.536	3.690	3.690
156.5	3.229	4.612	3.075	3.690	3.690	4.305	3.382	3.229	3.997	4.151
157.0	3.690	4.612	3.690	3.844	3.844	4.151	3.997	3.844	3.997	2.460
157.5	3.844	4.305	3.229	4.151	3.075	4.151	3.382	2.921	4.305	2.921
158.0	3.229	3.844	3.229	4.151	3.382	3.229	2.460	4.151	3.536	1.691
158.5	4.151	4.151	2.921	3.382	3.690	2.921	2.306	3.844	3.690	2.921
159.0	3.536	4.151	3.997	4.305	2.614	3.536	2.614	3.536	4.151	2.921
159.5	3.382	3.997	3.229	3.997	3.382	3.382	3.382	3.690	3.997	2.460
160.0	4.459	4.151	3.536	3.844	3.075	3.690	3.382	5.074	3.997	3.382
160.5	3.229	3.997	3.229	3.844	2.306	3.690	3.075	2.921	3.382	2.921
161.0	3.382	3.229	2.614	3.690	2.460	3.382	2.614	3.690	3.229	2.921
161.5	3.229	3.690	2.921	3.997	3.075	3.229	2.460	2.921	3.690	2.921
162.0	3.690	4.305	3.075	3.997	3.229	4.766	2.460	3.536	3.690	3.229
162.5	3.690	3.844	2.921	3.075	2.921	2.921	2.921	3.690	3.075	3.075
163.0	3.075	3.536	2.921	3.229	3.536	3.229	1.999	2.921	3.844	3.075
163.5	3.229	4.459	2.614	3.690	2.306	3.536	2.306	3.075	3.536	3.690
164.0	3.229	3.382	2.460	3.382	3.229	3.690	2.614	3.690	3.382	2.306
164.5	3.075	3.229	2.306	3.382	2.921	3.536	2.460	3.075	3.997	3.382
165.0	3.690	4.151	2.614	2.921	2.921	4.151	2.460	3.229	3.075	3.382
165.5	3.536	3.844	2.614	3.229	2.460	3.229	2.614	3.229	2.921	3.382
166.0	2.306	3.075	3.229	3.075	2.460	2.921	2.614	3.997	3.382	3.536

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CANDELA TABULATION - (Cont.)

166.5	2.460	3.844	2.921	2.921	2.460	3.382	2.614	3.690	3.690	3.536
167.0	3.075	3.382	3.382	3.382	2.921	3.536	2.614	3.997	3.690	3.075
167.5	3.382	3.844	1.999	3.382	2.614	3.075	2.921	3.229	3.382	2.152
168.0	3.229	3.690	3.075	3.075	2.460	2.921	2.460	2.614	4.151	3.229
168.5	2.614	3.536	3.075	3.229	3.382	2.152	2.152	3.844	3.690	3.075
169.0	3.536	4.151	3.075	3.382	2.460	2.460	1.691	3.229	3.229	2.306
169.5	2.921	3.844	2.921	3.229	2.921	3.382	2.460	3.075	3.997	3.075
170.0	2.460	3.844	1.999	2.614	3.075	3.382	2.152	2.460	3.536	2.460
170.5	2.306	3.536	3.075	3.229	2.152	3.690	1.999	3.229	3.075	2.921
171.0	2.152	3.229	2.306	2.460	1.999	2.614	1.999	3.075	2.460	2.306
171.5	3.229	3.844	2.306	2.614	2.152	2.614	2.152	3.075	3.382	2.921
172.0	2.306	3.382	3.229	3.229	2.306	3.075	2.152	3.229	3.844	2.306
172.5	3.382	3.382	1.537	3.382	2.460	3.229	2.306	2.152	3.997	2.152
173.0	3.229	2.306	2.921	3.536	2.306	2.306	2.460	1.845	3.229	2.152
173.5	2.614	3.690	1.845	2.460	2.152	2.921	2.306	2.306	3.075	2.460
174.0	2.921	3.229	2.921	2.921	2.306	3.229	1.691	2.460	2.921	1.999
174.5	2.921	3.229	1.845	2.614	1.691	2.306	2.152	1.537	2.614	2.306
175.0	2.614	3.229	1.845	3.075	1.691	2.306	2.306	1.999	1.999	2.152
175.5	1.691	2.460	2.152	2.614	1.999	3.075	2.152	2.460	2.306	1.845
176.0	2.306	2.152	1.999	1.845	1.845	2.921	1.537	1.999	2.921	1.999
176.5	2.460	2.614	2.152	2.460	1.845	2.460	2.152	2.152	2.306	1.999
177.0	1.845	2.921	1.691	1.845	1.537	2.152	2.152	2.921	2.152	1.999
177.5	2.460	3.075	2.306	1.999	1.845	2.306	2.921	2.306	2.921	1.537
178.0	1.384	2.460	1.691	1.999	1.537	1.537	1.999	2.614	2.614	1.999
178.5	1.537	1.999	2.306	1.845	2.152	1.999	1.999	1.537	2.306	1.537
179.0	2.460	1.999	1.999	2.460	1.845	1.691	1.384	2.306	2.460	2.460
179.5	2.306	1.691	1.845	1.845	2.152	1.999	1.537	1.845	2.306	1.691
180.0	1.983	1.983	1.983	1.983	1.983	1.983	1.983	1.983	1.983	1.983

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	15548.44215548.44215548.44215548.44215548.44215548.44215548.442						
0.5	15602.56115548.90315518.76815480.02415453.11815422.98315699.884						
1.0	15601.02415542.13815517.07715478.48615453.11815414.52715694.811						
1.5	15597.64215531.99115513.69515468.33915449.88915406.22515684.971						
2.0	15589.33915518.76815506.93015456.65415443.12415396.07715671.441						
2.5	15577.34715503.54715493.40015443.12415434.82215377.78115652.991						
3.0	15563.97115483.56015480.02415424.67415417.90915355.94915631.159						
3.5	15543.83015459.88315461.72815407.91615401.15115334.11615604.253						
4.0	15522.15115428.05715444.81515381.01015375.93615302.13715574.118						
4.5	15490.17115397.76815417.90915349.18415355.94915270.31115538.910						
5.0	15461.72815362.56015384.39215310.59315327.35115224.95515496.936						
5.5	15429.74815318.89515349.18415263.54615288.76115184.67315451.580						
6.0	15386.08315278.61315308.90215221.57215251.70715142.69915404.687						
6.5	15349.18415234.94915268.46615176.21715208.19615092.42415355.949						
7.0	15310.59315184.67315221.57215124.25015159.45815045.22315308.902						
7.5	15258.62615136.08815174.67915073.97415114.25614996.63815256.781						
8.0	15211.42515085.65915127.63215026.77315065.51814942.82615211.425						
8.5	15162.68715043.68515077.20314973.26815016.77914904.23515169.605						
9.0	15119.17615004.94115025.23514934.52414968.19514860.72415131.015						
9.5	15079.04814964.81214983.10814892.55014919.45614823.82515097.344						
10.0	15031.84714936.21514944.67114857.34214880.86614793.53615068.900						
10.5	14998.32914916.07414906.08014828.74514840.58314763.24815041.994						
11.0	14971.42314892.55014877.48314801.99314808.60414743.26115018.471						
11.5	14944.67114880.86614847.19514780.16014780.16014716.35514998.329						

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12.0	14927.91314869.02714828.74514763.24814760.01914697.90514979.880
12.5	14906.08014853.96014813.67714746.48914738.18714676.07214959.739
13.0	14890.85914838.89214795.22814726.50214723.12014652.54914941.289
13.5	14880.86614813.67714776.77814706.20714702.82514632.40814916.074
14.0	14860.72414791.84514753.25414681.14614684.37514610.57614895.933
14.5	14842.12114761.71014733.11314652.54914661.00514577.05814869.027
15.0	14817.06014729.73114711.28114623.95214637.48214551.69014842.121
15.5	14793.53614702.82514684.37514595.50814612.26714523.24614815.522
16.0	14770.01314674.38114657.46914566.91114587.05214488.03814788.616
16.5	14751.56314642.55514630.87014531.70214561.83714459.44114761.710
17.0	14741.41614618.87814600.42814501.56814536.77614430.99714733.113
17.5	14719.58314592.12614571.98514472.81714501.56814404.09114712.972
18.0	14692.83114568.60214538.46714442.68214469.58814379.03014691.140
18.5	14662.54314546.92414511.56114419.31214449.44714348.74214662.543
19.0	14654.24014521.55514489.72914387.33314439.30014325.21814642.555
19.5	14622.26014498.18514462.97714358.73514393.94414296.62114617.340
20.0	14585.36114471.27914439.30014331.82914357.19814264.79514597.199
20.5	14551.69014447.75614415.77614308.46014316.91614241.27114573.522
21.0	14520.01814415.77614388.87014281.55414290.01014212.82814545.079
21.5	14488.03814377.18514370.57414246.34514246.34514179.15714521.555
22.0	14447.75614340.43914336.90314211.13714207.75414145.64014488.038
22.5	14415.77614313.53314301.69514175.77414179.15714110.43114457.903
23.0	14385.64114276.48014269.86914135.49214147.17714080.14314434.380
23.5	14350.43314244.65414234.66014103.66614118.73414053.39114410.856
24.0	14321.83614222.82214206.06314075.06914088.59914023.10214385.641
24.5	14295.08314207.75414184.23114044.93414054.92814001.27014368.883
25.0	14268.17714194.37814155.78714024.64014024.64013977.74614353.815
25.5	14252.95614190.99614137.33714009.72613996.19613960.98814341.977
26.0	14246.34514189.30414122.11613997.88713979.43813945.76714335.366
26.5	14241.27114185.92214111.96913987.89413972.67313930.85314335.366
27.0	14239.58014179.15714107.04913979.43813964.37013920.70614330.292
27.5	14236.19814182.53914107.04913972.67313960.98813907.32914333.674
28.0	14229.58714190.99614103.66613969.44413955.91413895.49114338.594
28.5	14229.58714207.75414111.96913971.13513947.61213895.49114345.359
29.0	14236.19814229.58714115.50513977.74613942.53813890.57114358.735
29.5	14248.03614264.79514132.26413994.50513942.53813892.26214372.111
30.0	14258.03014303.38614155.78714012.95513944.22913897.18214390.715
30.5	14274.78914353.81514190.99614041.55213952.68513903.94714414.239
31.0	14309.99714414.23914232.96914081.83413974.36413919.01414444.373
31.5	14348.74214469.58814288.16514132.26413994.50513942.53814486.347
32.0	14390.71514525.09114345.35914182.53914009.72613974.36414536.776
32.5	14441.14514603.96414405.78214248.03614050.00814012.95514598.891
33.0	14496.49414691.14014468.05114309.99714096.90114061.69314681.146
33.5	14555.22614796.91914531.70214377.18514145.64014107.04914770.013
34.0	14634.09914892.55014620.72314461.13214202.68014162.39814862.416
34.5	14704.67014979.88014701.13314536.77614261.56614241.27114990.027
35.0	14786.77115102.41714781.69814615.64914333.67414313.53315125.941
35.5	14882.40315246.63314867.48914686.06614395.78914388.87015305.519
36.0	14981.57115443.12414956.35614776.77814471.27914491.42015522.151
36.5	15110.72015775.52915070.43814911.15414563.68214592.12615889.610
37.0	15297.06316223.70615231.72015063.82614659.31414738.18716408.358
37.5	15523.68816705.55415433.13115270.31114788.61614916.07416754.138
38.0	15973.55717195.55115756.92515599.17914939.59815142.69917012.590
38.5	16503.99017704.15116190.18916082.71815152.84715505.39217313.015
39.0	17071.32218320.22216770.89716856.53515493.40015940.04017600.063
39.5	17766.26618650.93517517.96217541.33115953.41616566.10418080.220

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40.0	18236.27518692.90818080.22017930.77716591.31917220.76518461.209
40.5	18427.69218483.04118397.40318026.40817338.22917410.33818451.216
41.0	18378.95418147.40818499.80017898.79717660.48617279.49718276.557
41.5	18169.24117710.91618318.53017603.44617600.06316957.24018007.958
42.0	17789.78917418.79417939.23317266.12117328.23616717.23917776.413
42.5	17491.05617266.12117605.13717078.08717012.59016587.93617642.190
43.0	17297.94717251.05417376.82016955.54916794.26716540.88917645.419
43.5	17214.00117318.08817247.51816957.24016707.09116564.41317721.063
44.0	17229.06817442.31717230.75917054.56316683.72216676.95717848.521
44.5	17323.16217643.72817281.18917215.84616743.99116837.93118011.495
45.0	17485.98217873.73617412.18217395.42416864.83717014.28118239.657
45.5	17680.78118179.08017584.99617603.44617032.73117245.98018486.424
46.0	17944.30618481.35017794.86317882.03817214.00117502.74018773.319
46.5	18214.44318810.37218078.37518167.39617435.70617821.76919141.085
47.0	18526.55219219.95818387.41018525.01517729.36618132.18719500.242
47.5	18916.15119617.70618765.01618882.48018021.33418479.65919935.043
48.0	19293.75820050.81619136.01219270.23418345.43618899.39320349.703
48.5	19705.03520579.55719523.76619745.31718743.18419293.75820797.880
49.0	20201.79721089.84919997.15820193.49519130.93819772.22321333.233
49.5	20668.42421613.51720440.26120665.19519550.51820228.70321821.692
50.0	21222.38022221.13120917.03621234.21920042.51320710.55122337.058
50.5	21754.50422803.68521490.97921783.10120519.13421279.42122927.760
51.0	22305.07823476.64222039.86222353.81621088.15821820.00123473.413
51.5	22939.75224084.41022672.69122994.94821618.59022382.26024079.337
52.0	23530.45424702.17223265.39223579.19322174.23823001.71324621.608
52.5	24123.00125380.20423864.39624243.84822805.37623574.11925146.967
53.0	24794.42125971.05924513.98424834.85723379.47324151.59925700.923
53.5	25385.27726538.39225081.47025412.18324020.60524749.06626155.712
54.0	25967.83127119.25425610.21126009.65024594.70225240.90726580.365
54.5	26607.27127569.12226174.16126487.96225163.72625724.29326979.958
55.0	27159.53627985.47426620.64726904.46725783.17926122.19427293.759
55.5	27750.39228307.73126996.71627314.05326321.91426456.29027600.948
56.0	28250.69028556.03527307.28927604.48526840.50826753.33227832.647
56.5	28710.55228777.74027582.65227856.01727355.87326956.43428023.911
57.0	29158.72928910.27127812.50628027.29327775.60727112.48928201.952
57.5	29480.98628999.13827997.15828151.52228165.05227209.81228309.268
58.0	29702.53829034.50028171.81728252.22728408.43627271.92628354.624
58.5	29781.41129019.43328274.06028294.35528541.12127297.14128359.698
59.0	29764.65228953.93628300.96628289.28128576.32927273.77128309.268
59.5	29642.11528846.46628295.89228235.46928510.67927208.27428181.811
60.0	29413.79828677.03528222.09328124.61628349.55027058.83127997.158
60.5	29094.92328445.33628086.02527945.03828060.96426874.17927755.312
61.0	28665.19628190.11327914.90327757.15727696.73426627.41227431.517
61.5	28178.42827898.14427701.65427522.07527233.33526283.32327080.663
62.0	27589.26327503.62527421.37027182.90626588.82125902.33426662.774
62.5	26796.99727062.21327067.28726787.00325915.71025354.98926164.168
63.0	26008.11326483.19626703.05726243.04125104.99424752.44825638.809
63.5	25046.10825870.35426258.10825677.40024314.41824089.48425039.497
64.0	24084.41025187.09525824.99824990.75823451.58123260.31824446.950
64.5	23036.92124295.81525314.70724118.08122368.88422430.99823804.127
65.0	21860.28323397.76924708.78323238.48621343.38021522.95923028.465
65.5	20747.45122417.46824102.86022300.00420295.89120457.02022256.493
66.0	19599.25621220.84323429.74921192.24619104.03219431.51721375.053
66.5	18303.46320074.18622575.36820111.23918007.95818222.74520252.227
67.0	17074.70418724.73421720.98718971.50116742.30017046.10719187.979
67.5	15642.84417366.82720728.84717584.99615565.66215807.35517964.294

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68.0	14343.66815933.27519683.20316248.76714331.82914363.80916759.058
68.5	13004.05614323.52718461.20914738.18712925.18313056.33115456.654
69.0	11501.77912786.04117071.32213378.43411651.22311552.20813799.859
69.5	10118.81011176.13915743.54911881.23010340.20810102.05212183.346
70.0	8728.923 9402.034 14227.89510162.4758908.501 8999.059 10697.827
70.5	7206.351 8633.291 12406.5899024.428 7612.708 7122.404 9218.920
71.0	5807.238 6448.370 10593.8937033.998 5912.864 5936.387 7158.996
71.5	4694.252 4994.062 8853.152 5715.758 4971.615 4663.502 5498.050
72.0	3711.337 3673.977 6166.703 4370.458 4016.528 3301.751 4105.549
72.5	2735.956 2586.513 5325.236 2978.110 2973.190 2273.019 2972.422
73.0	1840.371 1982.588 3592.797 2103.281 2117.426 1620.664 2145.100
73.5	1335.460 1601.599 2401.399 1617.128 1443.546 1260.739 1766.110
74.0	1087.771 1328.542 1739.512 1307.632 1062.557 1095.459 1559.780
74.5	993.062 1156.804 1434.013 1127.746 944.170 977.534 1434.321
75.0	958.008 1020.583 1290.258 1003.671 892.203 905.887 1344.531
75.5	925.105 943.248 1194.165 905.733 865.297 860.223 1274.422
76.0	894.817 907.885 1120.212 859.916 843.311 828.859 1223.839
76.5	862.376 873.753 1072.704 830.550 815.021 800.108 1170.949
77.0	822.709 840.697 1023.966 788.577 784.272 764.899 1112.064
77.5	782.273 790.422 979.225 749.371 749.832 717.545 1055.945
78.0	740.146 734.918 930.333 699.095 708.012 671.574 994.292
78.5	692.176 685.104 873.138 652.817 667.730 617.762 921.723
79.0	649.742 629.447 819.480 607.461 59.654 569.331 858.378
79.5	591.932 579.325 763.054 555.186 579.325 520.900 779.044
80.0	563.642 529.049 698.480 508.293 542.118 465.551 714.162
80.5	521.823 474.622 639.287 454.788 496.762 418.811 651.433
81.0	474.929 425.730 569.946 409.740 457.248 373.917 584.245
81.5	433.110 377.760 527.665 366.690 418.042 329.176 528.280
82.0	393.289 327.638 477.236 321.027 377.760 293.199 475.544
82.5	351.931 289.201 424.500 283.666 343.474 259.374 422.194
83.0	318.106 253.531 380.835 247.843 307.190 232.314 378.068
83.5	285.050 226.472 342.706 220.475 274.287 208.329 333.327
84.0	248.765 202.179 303.500 196.183 242.000 184.498 298.119
84.5	220.168 177.733 272.443 172.813 213.557 165.280 265.985
85.0	195.261 158.207 241.847 155.286 194.031 147.599 231.699
85.5	176.042 141.295 216.632 139.450 175.888 128.380 199.412
86.0	159.130 122.845 194.492 122.076 157.285 106.394 162.512
86.5	140.526 104.395 171.430 101.628 140.834 76.106 114.543
87.0	121.308 77.489 148.982 76.259 118.848 61.653 77.797
87.5	93.018 59.962 119.463 59.501 88.713 35.208 48.123
88.0	69.187 37.668 87.175 34.132 48.277 7.072 18.450
88.5	27.828 10.147 48.277 6.304 20.449 0.769 0.922
89.0	10.762 0.922 16.912 0.307 9.532 0.154 0.000
89.5	8.149 0.000 9.225 0.461 6.919 0.307 0.000
90.0	6.457 0.000 7.380 0.154 6.765 0.154 0.000
90.5	6.765 0.154 7.687 0.000 5.535 0.000 0.154
91.0	6.457 0.000 7.687 0.000 5.381 0.000 0.000
91.5	5.689 0.000 6.611 0.000 5.535 0.307 0.000
92.0	5.842 0.000 5.996 0.000 5.689 0.000 0.000
92.5	5.227 0.154 5.535 0.000 4.920 0.461 0.000
93.0	5.227 0.000 5.535 0.307 5.074 0.307 0.307
93.5	4.766 0.307 5.842 0.307 4.459 0.307 0.000
94.0	4.920 0.769 6.150 0.615 4.920 0.307 0.154
94.5	4.305 0.461 4.151 0.154 4.459 0.000 0.000
95.0	5.074 0.307 5.227 0.154 3.382 0.307 0.154
95.5	4.459 0.154 5.227 0.000 4.151 0.307 0.000

IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-HB-2X300LED-RT-140DB.IES

CANDELA TABULATION - (Cont.)

96.0	4.612	0.307	3.997	0.461	4.305	0.461	0.000
96.5	3.997	0.154	3.690	0.615	3.690	0.154	0.154
97.0	3.997	0.461	4.305	0.769	4.920	0.154	0.000
97.5	4.151	0.461	4.459	0.307	4.151	0.461	0.000
98.0	3.690	0.154	4.151	0.461	3.690	0.307	0.307
98.5	4.305	0.461	4.612	0.461	4.612	0.154	0.307
99.0	3.997	0.154	4.305	0.461	3.229	1.076	0.000
99.5	3.382	0.615	3.844	0.307	3.382	0.461	0.000
100.0	3.690	0.615	3.382	0.307	3.844	0.615	0.000
100.5	4.151	0.154	3.997	0.769	3.382	0.922	0.461
101.0	3.690	0.922	4.151	0.922	4.151	0.922	0.307
101.5	3.997	0.769	4.151	0.769	3.382	0.461	0.154
102.0	3.997	0.922	3.844	0.615	3.690	0.461	0.615
102.5	3.844	0.615	3.997	0.922	4.305	0.769	0.154
103.0	3.382	0.922	3.382	0.922	3.844	0.922	0.154
103.5	3.844	0.615	4.151	0.615	3.844	0.769	0.461
104.0	3.690	1.230	4.305	0.461	3.536	0.615	0.615
104.5	4.151	0.615	4.151	1.076	3.690	0.615	0.769
105.0	4.151	0.615	4.151	0.922	3.844	0.922	1.384
105.5	4.151	0.769	4.151	1.384	3.690	0.769	0.615
106.0	4.305	0.922	3.690	1.537	3.536	0.769	0.461
106.5	3.690	1.076	3.997	0.922	4.305	0.922	0.922
107.0	4.459	1.691	3.997	0.769	4.151	1.076	0.922
107.5	4.612	1.076	3.997	1.537	4.305	1.230	0.769
108.0	3.997	1.537	4.459	2.152	4.305	1.076	0.615
108.5	3.690	0.922	4.459	1.076	3.690	1.076	0.615
109.0	3.997	0.922	3.997	1.076	4.151	1.384	1.076
109.5	3.997	1.230	4.151	1.230	3.690	1.230	0.922
110.0	3.844	1.230	5.074	1.537	4.151	1.999	1.384
110.5	3.536	1.691	5.074	1.384	5.227	1.076	1.845
111.0	4.459	1.384	3.844	1.076	3.536	1.845	1.537
111.5	4.459	1.691	4.151	2.306	4.459	1.999	1.691
112.0	4.459	1.691	4.305	1.230	4.151	1.999	1.384
112.5	4.305	1.999	4.459	1.230	4.151	1.999	1.845
113.0	4.151	1.999	4.151	1.691	4.151	1.845	1.076
113.5	4.459	2.306	3.997	1.845	4.612	1.999	1.076
114.0	3.844	1.999	3.844	1.691	3.997	1.845	1.537
114.5	4.766	2.460	4.459	1.691	4.305	2.614	1.537
115.0	3.997	2.306	4.305	2.460	4.151	1.845	1.384
115.5	4.305	2.306	5.074	1.999	4.305	1.999	1.384
116.0	4.920	2.152	4.151	2.306	3.690	2.306	1.691
116.5	4.766	2.306	4.920	2.460	4.305	2.460	1.845
117.0	4.920	2.306	3.844	2.306	4.459	1.999	1.537
117.5	4.151	2.306	5.227	2.460	4.612	2.152	1.537
118.0	5.381	2.460	4.766	3.075	4.151	2.152	1.230
118.5	4.766	1.999	4.766	2.152	4.459	1.845	1.691
119.0	4.151	2.152	4.920	2.460	5.074	3.075	1.691
119.5	4.920	1.999	5.074	2.152	3.844	2.460	2.152
120.0	4.920	2.460	5.227	2.306	4.459	2.460	2.152
120.5	4.612	2.152	4.612	3.536	4.612	3.382	1.999
121.0	4.459	2.460	5.074	2.306	4.305	1.845	2.306
121.5	4.612	2.460	4.459	2.921	3.997	2.460	1.999
122.0	5.381	1.999	4.766	2.614	3.844	2.460	1.691
122.5	5.227	2.921	4.766	2.306	5.227	2.306	2.306
123.0	4.151	2.460	4.612	2.921	4.612	2.460	2.152
123.5	4.151	3.229	4.151	2.460	4.612	3.229	1.845

IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-HB-2X300LED-RT-140DB.IES

CANDELA TABULATION - (Cont.)

124.0	4.612	3.536	4.305	2.614	4.459	3.229	1.999
124.5	5.074	2.614	5.074	3.075	4.305	1.999	1.691
125.0	4.920	2.614	4.305	3.229	4.459	1.999	1.845
125.5	3.690	2.152	5.074	2.921	4.612	3.075	1.076
126.0	5.074	2.614	4.920	2.921	4.305	2.460	1.845
126.5	4.151	2.921	5.227	3.382	4.766	3.075	2.306
127.0	4.766	3.229	4.920	3.382	4.151	3.382	2.614
127.5	5.227	2.614	5.381	2.921	4.305	2.921	2.306
128.0	4.151	2.921	4.766	2.921	4.459	2.921	3.075
128.5	4.612	3.075	4.305	2.306	3.997	1.999	3.075
129.0	4.459	3.229	4.920	2.460	4.766	3.536	2.306
129.5	4.612	2.614	5.074	3.229	5.535	2.921	1.845
130.0	3.997	3.075	4.151	3.229	4.151	3.382	1.845
130.5	4.766	2.460	4.459	2.614	4.151	3.075	1.845
131.0	4.920	3.229	4.766	3.690	4.459	3.382	2.921
131.5	4.305	1.999	4.612	3.690	4.766	2.921	2.460
132.0	4.305	4.151	4.612	3.536	4.459	3.229	2.460
132.5	4.459	3.229	4.766	3.229	4.459	3.382	2.921
133.0	4.459	3.382	5.074	3.382	4.305	2.460	2.152
133.5	5.227	2.614	4.459	2.921	4.920	2.921	3.382
134.0	4.766	3.075	5.074	3.536	3.997	3.536	2.460
134.5	4.612	3.075	4.766	3.997	3.997	3.536	3.075
135.0	4.305	3.229	4.305	3.229	5.074	2.921	2.460
135.5	3.844	3.844	4.766	3.997	4.151	2.921	2.460
136.0	5.227	3.690	4.305	3.536	4.305	2.921	2.614
136.5	5.227	2.921	4.612	3.536	3.690	3.690	2.614
137.0	5.074	3.690	5.227	3.997	4.920	2.614	2.921
137.5	4.151	3.229	4.920	3.382	4.766	3.229	3.382
138.0	4.920	3.075	5.227	3.229	5.074	3.536	2.152
138.5	3.997	3.382	4.612	3.382	3.844	3.075	3.382
139.0	4.151	3.229	4.305	3.382	4.305	3.844	3.229
139.5	4.151	3.997	4.766	3.382	3.844	2.921	3.844
140.0	4.920	2.921	5.074	3.382	4.459	3.229	3.075
140.5	4.920	3.382	4.920	3.997	4.920	2.921	3.690
141.0	4.151	3.536	4.920	3.382	4.766	3.844	4.151
141.5	4.151	3.075	4.612	3.844	5.842	3.229	3.382
142.0	5.074	4.305	4.612	3.690	5.535	3.844	3.229
142.5	5.535	3.690	4.151	3.382	4.920	3.844	3.075
143.0	4.305	3.690	4.612	3.536	4.612	3.229	3.690
143.5	3.997	3.382	4.151	2.921	4.305	3.536	3.997
144.0	4.920	3.997	4.459	3.536	4.305	3.075	4.305
144.5	4.305	2.460	4.766	3.382	4.920	3.382	4.151
145.0	4.766	3.229	4.920	3.382	4.151	3.844	3.997
145.5	4.305	3.536	4.459	3.229	4.459	3.536	3.997
146.0	4.612	3.075	4.766	3.382	4.151	3.536	3.536
146.5	3.997	3.075	4.920	2.614	4.459	2.306	3.997
147.0	4.151	3.229	4.459	3.382	3.536	3.382	4.151
147.5	3.997	2.152	4.151	3.075	4.151	2.306	4.612
148.0	4.459	2.614	4.151	3.690	4.151	3.229	4.459
148.5	4.459	2.306	4.151	3.382	4.612	3.229	3.844
149.0	4.459	3.075	4.305	3.229	3.997	3.382	3.844
149.5	3.997	3.382	4.459	2.614	4.305	3.229	3.075
150.0	4.766	3.844	4.151	2.460	4.305	3.690	3.075
150.5	3.536	3.690	4.766	3.536	4.151	3.536	3.382
151.0	3.997	2.614	4.151	2.921	4.151	3.536	3.844
151.5	3.690	2.306	3.690	2.306	3.844	2.921	3.690

IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-HB-2X300LED-RT-140DB.IES

CANDELA TABULATION - (Cont.)

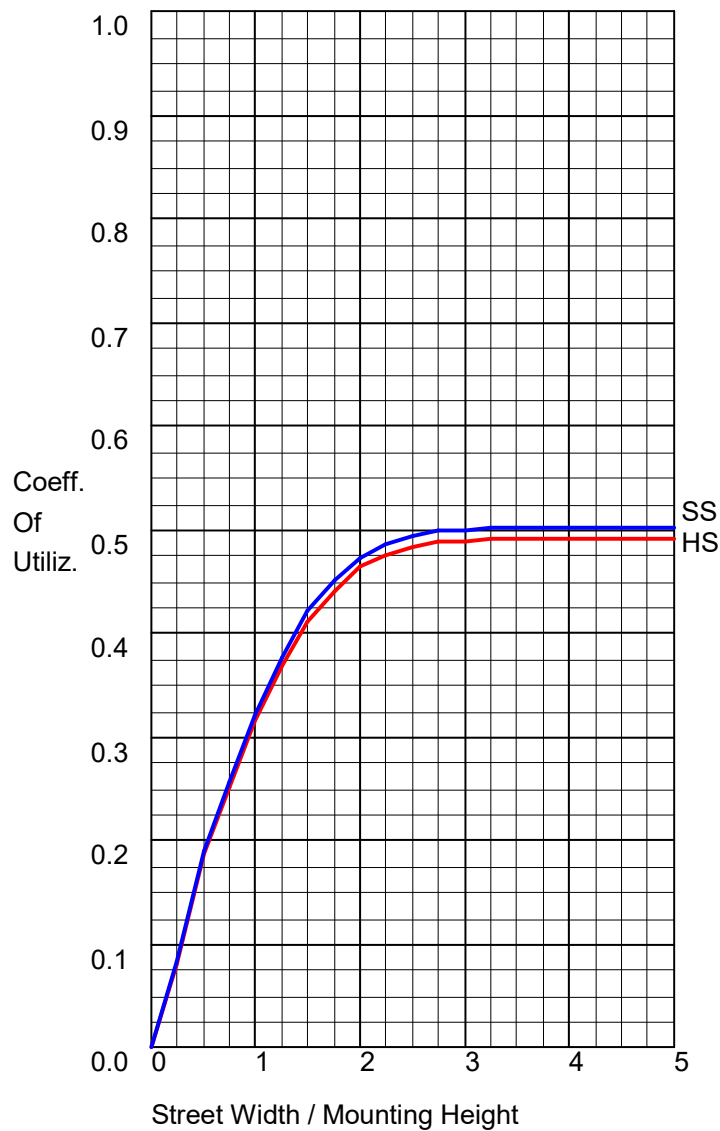
152.0	4.305	2.460	4.151	2.306	4.151	2.460	3.229
152.5	3.844	2.921	3.844	3.075	3.844	3.075	3.690
153.0	4.305	3.075	3.844	2.921	3.690	2.921	4.305
153.5	3.690	3.229	4.151	2.614	3.075	3.382	3.844
154.0	3.229	2.460	4.151	3.536	4.305	2.460	4.459
154.5	4.305	2.614	3.844	2.306	3.075	2.460	3.844
155.0	3.844	2.614	3.690	2.460	3.997	2.306	3.997
155.5	3.382	2.306	3.536	2.921	3.382	2.306	3.997
156.0	3.997	3.690	3.690	3.229	3.536	3.382	3.536
156.5	3.997	2.921	3.382	2.921	3.536	2.152	3.229
157.0	3.536	2.614	4.612	2.614	3.382	3.075	3.690
157.5	3.690	2.460	3.997	3.229	3.536	2.460	3.844
158.0	3.690	2.460	3.536	2.306	3.382	2.614	3.229
158.5	3.536	2.614	3.536	2.460	3.690	2.921	4.151
159.0	3.536	2.460	3.382	3.229	2.460	1.999	3.536
159.5	3.382	2.152	3.075	2.306	3.075	2.921	3.382
160.0	4.459	2.614	3.382	2.614	3.229	1.845	4.459
160.5	3.844	2.460	2.614	3.690	3.690	2.921	3.229
161.0	3.690	2.614	3.690	2.921	4.459	1.999	3.382
161.5	3.536	3.075	2.614	3.075	3.229	2.614	3.229
162.0	2.614	3.075	2.460	2.614	3.075	2.460	3.690
162.5	2.614	1.999	3.229	2.614	3.536	2.306	3.690
163.0	3.229	2.921	3.229	3.229	3.690	3.536	3.075
163.5	3.844	2.306	3.690	2.306	3.075	2.614	3.229
164.0	3.075	2.152	2.921	3.229	3.536	2.152	3.229
164.5	3.075	2.921	2.921	2.306	2.921	2.614	3.075
165.0	3.382	2.921	3.075	3.075	2.921	2.306	3.690
165.5	3.075	3.075	3.382	1.999	3.229	3.382	3.536
166.0	2.460	3.075	2.614	1.999	3.844	2.152	2.306
166.5	3.229	2.921	3.382	2.306	3.536	3.229	2.460
167.0	3.844	3.536	3.844	3.382	3.075	2.614	3.075
167.5	2.921	3.229	3.382	2.152	2.921	2.306	3.382
168.0	3.382	3.229	3.690	3.075	3.075	3.075	3.229
168.5	2.306	2.460	3.075	1.999	2.921	2.460	2.614
169.0	2.921	2.460	3.844	2.460	3.382	2.921	3.536
169.5	3.690	3.075	3.229	2.921	3.229	2.306	2.921
170.0	3.229	2.306	3.075	3.075	3.229	2.152	2.460
170.5	3.075	2.306	3.382	2.306	1.845	2.460	2.306
171.0	3.075	2.152	3.075	2.152	2.921	2.306	2.152
171.5	3.844	2.152	2.921	1.999	2.306	1.384	3.229
172.0	3.229	1.845	2.614	2.614	3.536	1.537	2.306
172.5	2.921	2.152	2.306	2.460	2.921	2.306	3.382
173.0	2.614	3.075	2.460	2.152	1.999	2.306	3.229
173.5	2.152	1.691	3.075	2.152	2.306	2.306	2.614
174.0	2.614	1.999	1.845	2.614	2.460	1.999	2.921
174.5	1.999	2.306	2.921	2.460	1.999	2.152	2.921
175.0	2.921	1.845	1.999	2.306	2.921	1.999	2.614
175.5	1.999	2.152	2.614	2.152	2.460	2.306	1.691
176.0	2.460	2.614	2.614	2.152	1.691	1.845	2.306
176.5	2.614	1.999	1.845	1.537	2.152	1.845	2.460
177.0	1.999	1.999	1.999	1.384	1.999	2.306	1.845
177.5	2.306	1.999	2.306	1.845	1.845	1.999	2.460
178.0	1.691	1.999	1.691	2.306	1.999	2.152	1.384
178.5	2.306	2.460	2.306	1.691	1.691	1.537	1.537
179.0	2.460	1.999	2.460	2.152	2.152	1.845	2.460
179.5	2.152	2.152	2.306	1.845	1.845	1.999	2.306

IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-HB-2X300LED-RT-140DB.IES

CANDELA TABULATION - (Cont.)

180.0	1.983	1.983	1.983	1.983	1.983	1.983	1.983
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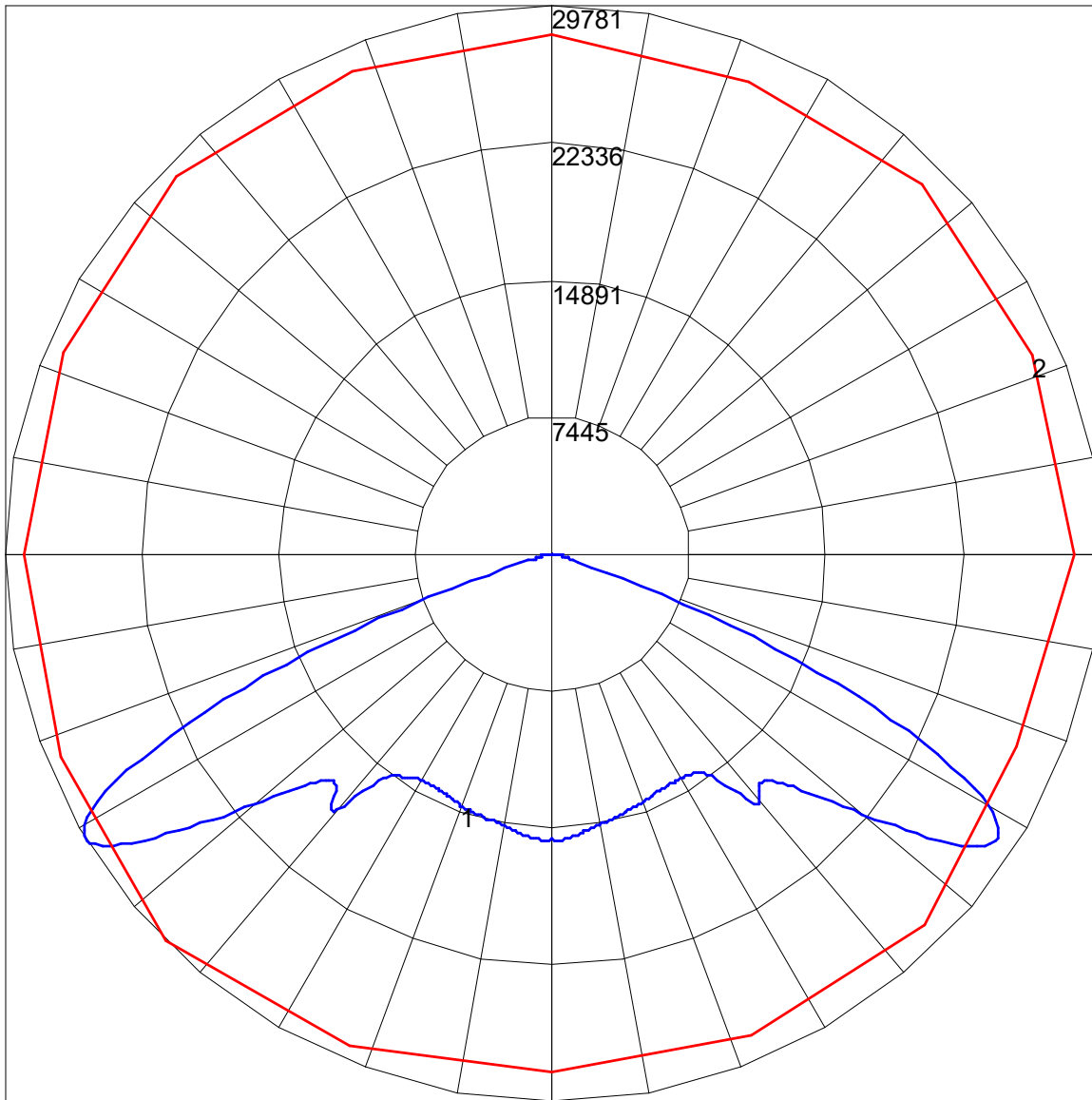
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

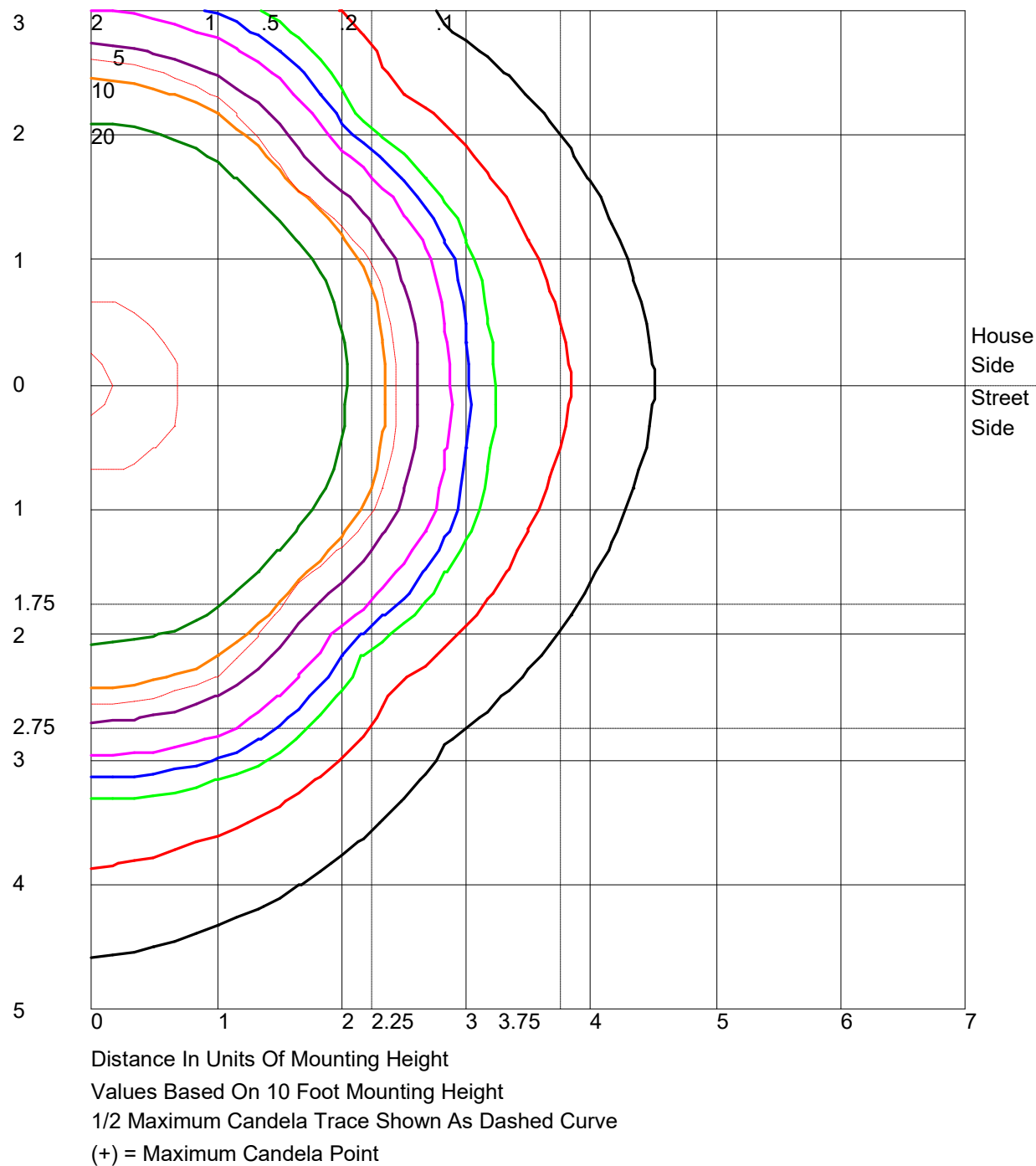
	Lumens	Percent Of Lamp
Downward Street Side	41105.4	49.4
Downward House Side	41946.2	50.4
Downward Total	83051.6	99.8
Upward Street Side	8.7	0.0
Upward House Side	9.7	0.0
Upward Total	18.4	0.0
Total Flux	83070.0	99.8

POLAR GRAPH

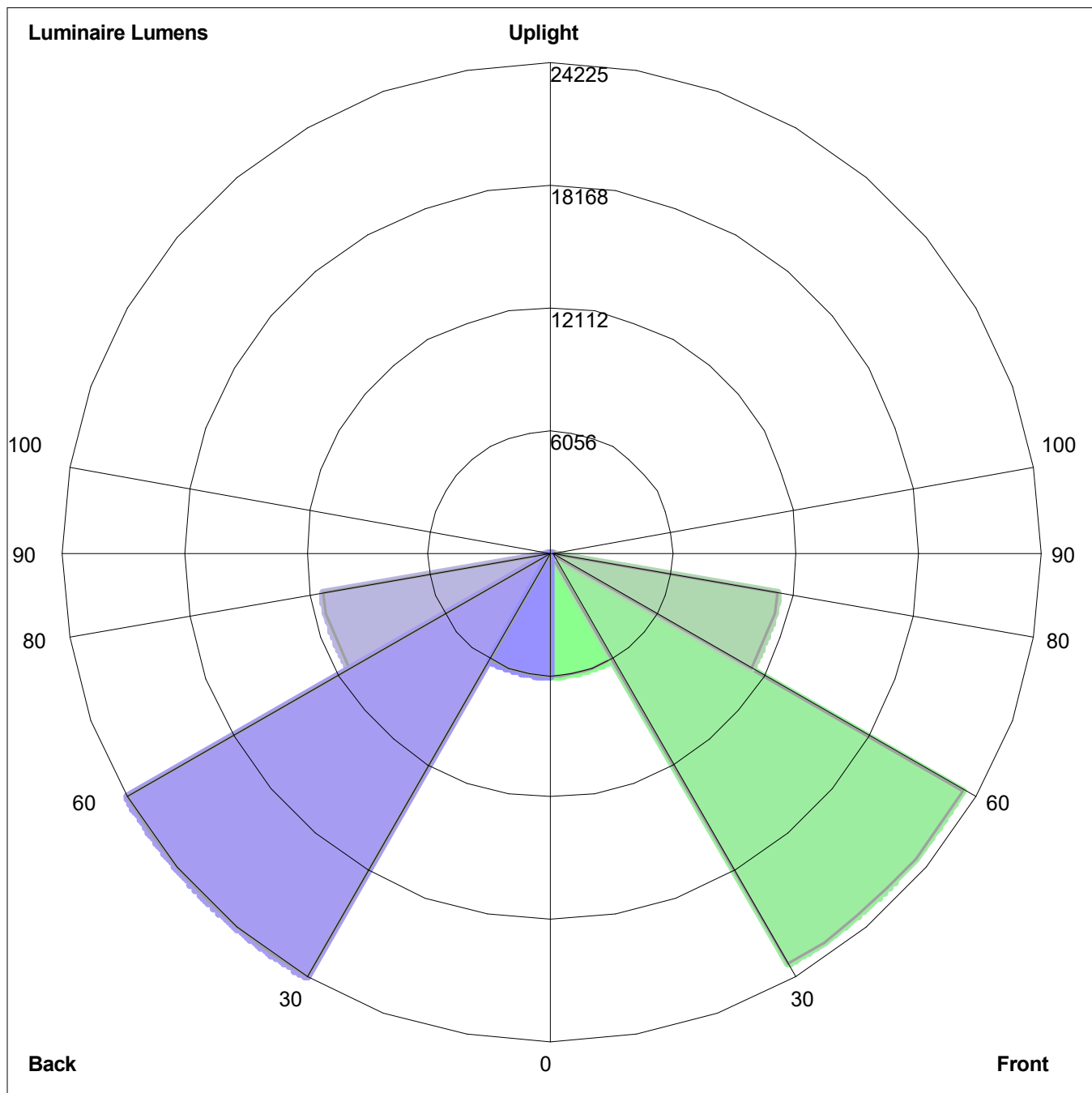


Maximum Candela = 29781.411 Located At Horizontal Angle = 225, Vertical Angle = 58.5
1 - Vertical Plane Through Horizontal Angles (225 - 45) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (58.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=6074.9, Medium=23498.5, High=11419.6, Very High=112.4
Back: Low=6101.6, Medium=24224.6, High=11505.7, Very High=114.2
Uplight: Low=2.4, High=16.0

BUG Rating : B5-U2-G4