



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EPL-HB-100LED-RT-60DB_20170928.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] RADIANT ZEMAX
[TESTDATE] 20170928
[ISSUE DATE] 2017-09-28 11:08:11
[MANUFAC] Larson Electronics LLC
[LUMCAT] EPL-HB-100LED-RT-60DB
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED FIXTURE - 60 DEGREE BEAM
[LAMP] LED
[LAMPPOSITION] 0,0
[OTHER] ZVISION 9107GT SYSTEM

CHARACTERISTICS

Lumens Per Lamp	13922.5 (1 lamp)
Total Lamp Lumens	13922.5
Luminaire Lumens	13850
Total Luminaire Efficiency	99 %
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	98.98
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.10 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.10 m



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	237389	206955	251211
55	80395	84686	111752
65	7601	6698	8853
75	3699	3323	4787
85	150	347	743

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CANDELA TABULATION

	<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	12378.112	12378.112	12378.112	12378.112	12378.112	12378.112	12378.112	12378.112	12378.112	12378.112
0.5	12469.529	12426.452	12461.728	12405.771	12390.786	12337.345	12323.344	12280.656	12467.127	12464.222
1.0	12467.127	12433.635	12465.732	12418.742	12394.538	12348.097	12321.857	12284.385	12459.966	12444.227
1.5	12455.162	12438.416	12465.205	12425.491	12392.548	12354.320	12314.857	12281.640	12447.979	12417.507
2.0	12445.600	12436.014	12458.479	12427.984	12385.799	12352.810	12302.137	12275.646	12426.452	12389.047
2.5	12431.233	12428.831	12445.234	12425.010	12375.573	12343.087	12284.636	12264.665	12407.303	12352.810
3.0	12463.970	12419.268	12430.501	12415.013	12357.820	12330.848	12265.900	12247.415	12388.155	12318.357
3.5	12437.501	12407.303	12412.519	12404.032	12340.319	12316.367	12241.193	12226.437	12359.422	12274.891
4.0	12403.529	12388.155	12389.276	12389.047	12320.851	12297.127	12214.953	12201.981	12325.930	12230.441
4.5	12368.069	12366.628	12363.791	12368.550	12295.640	12276.881	12186.722	12171.486	12287.633	12182.239
5.0	12322.590	12337.894	12330.848	12346.816	12269.400	12252.929	12149.524	12140.030	12244.579	12125.297
5.5	12277.407	12304.379	12298.134	12317.854	12236.434	12222.685	12113.813	12101.322	12201.478	12073.092
6.0	12228.954	12263.727	12255.903	12286.123	12202.233	12191.481	12074.350	12064.604	12148.838	12015.144
6.5	12172.012	12223.028	12216.463	12253.409	12166.499	12151.766	12035.390	12026.148	12100.956	11942.212
7.0	12117.290	12175.147	12173.751	12213.969	12121.294	12115.048	11990.414	11976.436	12053.097	11871.041
7.5	12056.597	12122.506	12119.555	12175.490	12076.089	12078.079	11938.712	11929.973	11990.872	11787.860
8.0	11981.927	12077.027	12067.350	12130.536	12027.635	12033.377	11888.245	11879.277	11923.865	11708.911
8.5	11912.243	12021.984	12003.157	12075.585	11970.946	11987.417	11833.317	11819.819	11852.053	11626.531
9.0	11837.298	11954.955	11941.205	12023.380	11917.001	11939.215	11767.637	11759.378	11782.667	11529.623
9.5	11749.404	11890.350	11875.274	11967.194	11853.312	11879.757	11707.676	11688.962	11715.660	11438.939
10.0	11664.461	11811.378	11794.838	11902.520	11791.109	11823.343	11635.750	11624.518	11624.724	11345.028
10.5	11563.573	11746.773	11719.664	11839.562	11725.680	11756.130	11565.586	11555.841	11533.764	11233.365
11.0	11470.898	11672.582	11641.744	11762.878	11649.477	11693.218	11490.138	11471.905	11452.390	11126.735
11.5	11374.013	11576.842	11551.334	11688.688	11577.048	11625.776	11402.473	11390.233	11349.489	11002.604
12.0	11254.366	11495.468	11464.675	11610.791	11496.886	11545.340	11318.811	11304.307	11246.565	10888.218
12.5	11140.713	11397.348	11371.268	11521.113	11403.228	11467.924	11228.652	11204.654	11150.847	10770.584
13.0	11024.337	11299.205	11258.621	11435.942	11312.314	11383.485	11122.503	11111.750	11038.361	10633.962
13.5	10891.467	11193.925	11154.942	11345.028	11218.381	11287.332	11025.344	11014.111	10923.472	10509.579
14.0	10767.587	11083.817	11037.308	11239.382	11109.508	11195.938	10922.923	10899.954	10801.423	10365.454
14.5	10623.210	10966.572	10923.197	11139.226	11007.843	11089.011	10806.272	10795.063	10681.752	10232.355
15.0	10489.356	10854.086	10803.047	11025.092	10889.225	10990.616	10697.629	10674.912	10489.081	10097.220
15.5	10351.224	10722.451	10663.176	10916.700	10776.326	10887.463	10572.011	10561.762	10402.675	9994.103
16.0	10193.853	10605.160	10534.561	10803.047	10659.676	10766.832	10455.612	10444.631	10272.550	9801.739
16.5	10046.524	10432.895	10400.433	10669.422	10524.816	10651.692	10335.988	10309.519	10121.927	9654.639
17.0	9893.659	10285.292	10248.323	10545.039	10397.939	10521.315	10197.856	10185.136	9983.566	9490.039
17.5	9722.561	10141.441	10104.220	10415.646	10252.807	10399.197	10069.744	10041.262	9841.454	9337.448
18.0	9566.974	9976.589	9940.100	10267.059	10115.430	10272.046	9921.112	9907.637	9677.356	9180.832
18.5	9391.370	9825.966	9790.758	10128.676	9975.330	10126.685	9783.254	9773.257	9529.250	9005.250
19.0	9230.795	9670.608	9638.419	9969.337	9815.969	9992.054	9641.645	9618.173	9377.643	8844.653
19.5	9069.443	9498.023	9467.070	9822.969	9666.375	9853.441	9481.803	9475.557	9204.807	8662.345
20.0	8890.361	9341.681	9309.447	9674.108	9515.501	9696.596	9333.445	9329.190	9046.703	8498.476
20.5	8729.261	9181.838	9133.385	9503.536	9346.439	9549.725	9183.097	9163.354	8869.131	8333.144
21.0	8567.428	9004.998	8974.023	9345.936	9191.058	9398.622	9013.486	9010.740	8705.285	8148.571
21.5	8387.088	8843.646	8814.432	9187.100	9014.744	9228.805	8858.402	8837.904	8536.704	7980.470
22.0	8223.997	8663.077	8633.611	9010.260	8854.124	9073.424	8681.059	8676.071	8349.638	7812.644
22.5	8041.163	8500.490	8472.511	8849.640	8691.056	8898.094	8518.974	8514.216	8183.550	7623.565
23.0	7875.075	8337.628	8309.168	8687.052	8511.722	8737.748	8355.106	8334.654	8014.443	7455.235
23.5	7709.743	8159.323	8131.093	8507.467	8348.609	8576.144	8175.040	8173.278	7825.112	7270.159
24.0	7527.641	7995.203	7967.728	8345.863	8187.508	8396.833	8010.943	8007.465	7655.547	7104.552
24.5	7362.583	7830.625	7803.630	8168.795	8006.962	8234.978	7843.597	7823.854	7487.675	6943.703
25.0	7196.975	7649.553	7620.819	8008.449	7843.116	8072.894	7658.521	7659.527	7302.622	6767.618
25.5	7017.390	7484.952	7458.209	7844.855	7679.499	7892.050	7493.691	7493.188	7137.541	6609.011
26.0	6858.532	7301.135	7277.137	7659.779	7499.937	7726.214	7327.329	7309.096	6957.681	6438.188
26.5	6680.456	7136.031	7113.039	7493.691	7337.326	7541.871	7142.025	7145.273	6796.603	6287.336

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27.0	6522.856	6971.430	6949.194	7308.867	7155.019	7377.544	6980.169	6966.168	6637.241	6141.220
27.5	6368.275	6791.845	6768.373	7145.776	6991.676	7212.944	6802.094	6806.074	6465.663	5983.643
28.0	6198.664	6631.751	6606.037	6983.921	6830.072	7030.888	6643.235	6647.742	6315.544	5843.749
28.5	6049.803	6474.883	6431.942	6806.074	6651.997	6871.297	6488.883	6475.912	6169.702	5692.143
29.0	5904.694	6303.327	6278.345	6646.003	6495.152	6714.177	6321.286	6323.299	6012.582	5558.518
29.5	5745.858	6151.721	6127.997	6490.393	6341.784	6539.831	6173.202	6176.176	5873.215	5430.657
30.0	5607.474	6005.353	5964.655	6321.057	6175.421	6388.979	6027.841	6016.837	5721.883	5292.777
30.5	5459.368	5845.259	5821.513	6172.196	6029.077	6239.134	5872.986	5876.235	5587.503	5172.627
31.0	5331.988	5703.124	5681.665	6007.343	5869.211	6075.540	5734.854	5722.363	5458.362	5058.744
31.5	5205.844	5549.801	5527.794	5862.486	5726.115	5931.666	5598.484	5586.748	5320.756	4934.613
32.0	5072.745	5416.657	5394.420	5720.625	5587.754	5773.814	5450.629	5456.371	5200.857	4828.235
32.5	4960.350	5287.287	5250.821	5567.005	5438.390	5635.202	5321.511	5313.252	5084.207	4717.075
33.0	4857.929	5148.400	5126.941	5433.151	5307.030	5499.334	5182.143	5187.886	4961.105	4626.161
33.5	4752.306	5030.766	5009.032	5302.523	5167.159	5354.454	5061.490	5069.977	4853.926	4540.990
34.0	4663.611	4907.412	4885.656	5163.155	5045.521	5228.081	4946.852	4943.856	4742.560	4454.835
34.5	4581.459	4806.227	4782.000	5042.021	4929.626	5104.201	4826.222	4837.477	4648.398	4383.641
35.0	4497.043	4713.323	4686.854	4914.642	4807.737	4973.070	4724.327	4723.801	4562.975	4318.464
35.5	4427.588	4616.667	4588.940	4807.485	4706.323	4861.178	4618.658	4624.171	4476.797	4252.029
36.0	4354.679	4535.751	4509.534	4705.842	4613.670	4746.037	4529.002	4533.006	4405.100	4195.569
36.5	4292.728	4461.057	4436.098	4603.193	4518.273	4647.872	4446.096	4439.827	4339.168	4140.618
37.0	4234.299	4384.396	4360.650	4520.240	4440.354	4556.958	4362.663	4363.898	4270.491	4082.441
37.5	4172.852	4319.951	4297.211	4443.831	4368.657	4464.306	4292.979	4292.476	4212.795	4031.494
38.0	4120.394	4253.768	4230.296	4366.918	4294.970	4389.635	4228.534	4221.054	4151.118	3976.772
38.5	4063.453	4198.062	4172.852	4303.480	4234.299	4320.203	4161.619	4162.351	4099.919	3929.073
39.0	4015.000	4145.376	4119.639	4237.273	4170.335	4247.774	4106.668	4100.926	4048.217	3881.855
39.5	3968.285	4088.664	4062.950	4179.829	4116.643	4186.578	4054.211	4047.714	3992.283	3828.917
40.0	3918.573	4039.707	4015.000	4126.640	4064.437	4125.130	3997.521	3995.508	3942.571	3780.715
40.5	3873.367	3991.253	3968.033	4069.950	4009.486	4072.169	3948.313	3940.054	3893.110	3723.271
41.0	3826.904	3938.796	3917.589	4020.467	3961.284	4020.993	3894.872	3889.862	3837.405	3666.558
41.5	3774.973	3894.597	3873.139	3972.540	3909.102	3965.288	3846.418	3839.670	3784.215	3607.879
42.0	3728.761	3850.651	3823.427	3921.821	3863.393	3916.834	3796.706	3784.444	3722.516	3540.208
42.5	3674.565	3800.687	3778.725	3877.851	3818.188	3870.119	3740.497	3733.771	3664.591	3476.015
43.0	3622.863	3756.740	3734.252	3828.414	3767.721	3818.668	3687.811	3675.572	3605.637	3406.560
43.5	3566.929	3707.531	3686.301	3784.947	3721.509	3770.718	3633.615	3621.880	3538.950	3323.402
44.0	3498.732	3661.823	3641.828	3740.497	3670.562	3715.287	3572.396	3564.916	3476.999	3241.227
44.5	3431.290	3614.627	3593.649	3690.053	3610.372	3665.826	3515.455	3501.729	3409.328	3144.549
45.0	3358.610	3554.918	3534.443	3642.103	3554.163	3612.614	3448.265	3443.026	3326.651	3052.652
45.5	3271.700	3496.742	3475.741	3590.126	3495.987	3549.679	3385.856	3374.601	3245.963	2955.996
46.0	3187.283	3425.548	3404.570	3529.936	3427.790	3488.506	3318.415	3307.914	3150.566	2844.607
46.5	3098.612	3354.606	3334.635	3470.502	3361.630	3424.313	3237.979	3235.234	3058.897	2741.454
47.0	2994.955	3275.955	3256.715	3399.812	3283.687	3350.877	3157.795	3146.562	2962.241	2634.550
47.5	2894.800	3180.786	3162.805	3330.906	3207.987	3280.187	3073.149	3061.894	2849.594	2510.670
48.0	2779.430	3091.108	3072.623	3254.222	3125.584	3197.509	2974.984	2972.467	2745.458	2398.275
48.5	2672.251	2997.449	2979.216	3161.295	3029.180	3116.845	2882.080	2868.079	2639.034	2284.896
49.0	2561.114	2889.561	2871.579	3072.875	2935.772	3030.163	2775.427	2771.423	2516.916	2159.255
49.5	2436.983	2788.901	2769.433	2979.719	2838.362	2928.017	2676.255	2672.022	2406.007	2046.860
50.0	2323.101	2683.255	2664.015	2871.808	2725.463	2832.368	2573.102	2555.372	2281.876	1918.725
50.5	2208.441	2560.611	2542.401	2770.417	2620.320	2732.967	2454.232	2446.980	2167.010	1801.846
51.0	2079.071	2447.964	2430.234	2665.525	2500.696	2617.826	2346.069	2326.601	2050.840	1683.960
51.5	1962.192	2321.591	2303.884	2543.888	2391.275	2511.173	2234.932	2216.928	1921.745	1553.835
52.0	1832.296	2207.205	2188.972	2433.254	2279.886	2390.543	2110.550	2106.546	1806.605	1438.695
52.5	1715.691	2091.562	2072.574	2308.368	2153.765	2279.657	1998.658	1982.415	1679.454	1326.048
53.0	1599.292	1960.956	1942.952	2193.731	2040.363	2167.742	1886.011	1869.539	1564.565	1251.881
53.5	1470.906	1843.322	1825.570	2080.329	1925.474	2044.115	1761.880	1757.121	1450.179	1094.486
54.0	1356.520	1726.672	1709.674	1953.453	1798.094	1931.971	1648.478	1632.007	1325.042	979.849
54.5	1275.078	1596.776	1581.311	1839.044	1683.457	1807.337	1522.608	1520.115	1215.643	880.196

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55.0	1120.154	1480.400	1467.406	1710.681	1557.061	1694.941	1411.471	1397.471	1108.007	784.730
55.5	1014.988	1354.530	1343.023	1594.534	1442.950	1581.563	1307.312	1289.079	959.877	684.666
56.0	899.573	1243.622	1269.839	1479.393	1330.303	1455.441	1178.216	1183.432	893.511	600.981
56.5	798.090	1132.737	1121.115	1353.272	1255.861	1344.533	1073.531	1067.789	797.084	522.307
57.0	702.327	960.335	1002.635	1242.135	1100.549	1235.867	971.773	946.837	696.722	439.652
57.5	603.475	908.976	898.612	1133.720	998.036	1118.507	862.810	862.718	613.976	371.730
58.0	520.591	798.388	788.619	965.803	886.762	966.901	770.020	772.308	528.896	306.759
58.5	435.145	703.951	693.565	915.930	789.557	907.306	672.884	686.450	456.627	257.413
59.0	366.308	613.861	603.040	818.497	686.061	812.068	591.831	597.024	390.718	216.738
59.5	306.439	519.905	509.519	714.635	600.981	719.942	515.398	521.461	329.201	181.232
60.0	250.321	441.322	432.880	625.734	522.376	622.051	437.685	450.656	281.365	155.747
60.5	207.793	370.929	362.945	533.585	439.950	541.409	375.184	380.858	237.510	136.622
61.0	174.049	302.504	294.771	456.810	372.256	467.608	320.783	325.724	196.949	125.801
61.5	149.204	250.321	242.978	386.234	313.462	393.234	268.577	277.248	168.238	118.114
62.0	135.112	202.805	197.590	318.312	259.266	334.578	227.009	231.356	144.057	114.202
62.5	125.916	169.702	165.836	266.312	218.339	283.699	189.468	197.223	130.148	111.023
63.0	116.742	146.665	143.417	223.029	186.403	236.435	164.326	166.408	122.598	107.843
63.5	111.869	132.504	128.432	186.425	160.048	202.325	145.178	145.178	117.520	104.480
64.0	107.683	124.703	122.942	162.199	141.930	176.016	129.393	131.040	114.202	101.414
64.5	104.228	120.013	118.252	142.845	127.677	153.551	123.696	121.363	111.045	98.623
65.0	101.048	116.422	114.202	131.658	117.703	137.674	114.957	116.467	107.477	95.764
65.5	98.097	112.624	110.496	124.566	113.059	125.847	110.954	112.670	104.411	93.430
66.0	95.741	108.140	105.692	119.601	109.009	119.235	107.454	109.353	101.551	90.936
66.5	93.339	104.342	102.375	115.827	105.692	115.095	103.885	106.173	98.623	88.672
67.0	91.257	101.483	99.447	112.189	102.078	111.068	100.705	103.061	96.221	86.201
67.5	89.175	98.600	96.427	108.369	99.195	107.957	97.868	100.270	93.590	83.341
68.0	86.636	96.175	93.819	105.143	96.724	104.983	94.871	97.617	90.044	80.733
68.5	84.279	94.048	91.371	101.872	94.185	101.757	92.263	94.757	88.809	77.622
69.0	81.854	90.776	88.900	99.104	91.920	99.355	89.747	88.580	86.018	74.739
69.5	78.743	89.221	86.773	96.564	89.838	96.541	87.093	90.159	83.479	71.811
70.0	75.723	86.750	84.394	94.116	87.528	94.185	84.714	87.642	80.482	68.448
70.5	72.452	84.279	82.037	89.244	85.354	90.616	82.312	85.171	77.668	65.566
71.0	69.569	81.694	79.544	89.793	82.815	89.381	79.521	82.358	74.808	62.363
71.5	66.755	78.491	76.501	87.230	80.344	87.002	76.867	79.498	71.628	58.565
72.0	63.415	75.289	73.527	84.622	77.622	84.119	73.847	76.638	68.631	55.294
72.5	60.075	72.315	70.324	81.671	74.351	81.420	70.850	73.504	65.337	52.480
73.0	57.216	68.997	66.549	78.674	71.605	78.629	67.876	70.461	61.448	49.758
73.5	54.173	65.978	63.118	75.540	68.723	75.083	64.674	67.556	58.268	47.333
74.0	51.565	62.752	59.618	72.200	65.291	72.017	61.700	64.308	55.385	44.176
74.5	48.385	59.732	56.804	69.112	61.928	69.112	58.771	61.219	52.572	40.904
75.0	45.320	56.964	54.013	65.886	58.657	65.749	55.408	57.513	50.101	37.656
75.5	42.208	53.715	50.947	61.974	55.408	62.637	52.320	54.608	46.852	34.590
76.0	39.097	51.039	47.722	58.588	52.686	59.480	48.957	51.908	44.038	32.051
76.5	36.695	48.179	44.702	55.363	49.781	56.003	46.189	49.209	41.110	29.374
77.0	34.407	44.496	41.682	52.663	47.035	53.029	43.650	46.578	37.976	26.469
77.5	31.662	41.316	39.005	50.147	44.038	49.941	40.996	43.535	35.231	23.952
78.0	29.123	38.502	35.414	46.829	40.858	47.264	38.411	40.447	32.691	21.527
78.5	26.469	35.780	32.074	43.581	38.182	44.382	34.636	37.610	30.061	19.194
79.0	23.632	33.355	29.100	40.035	35.643	41.316	31.593	34.590	27.933	16.609
79.5	21.116	30.152	26.743	37.198	32.874	38.639	28.848	31.799	25.394	13.932
80.0	18.485	27.224	24.478	34.476	30.289	36.169	26.400	29.077	22.740	11.827
80.5	16.426	24.547	21.710	31.387	27.567	33.195	23.929	26.309	20.040	10.157
81.0	14.275	21.985	18.828	28.573	25.211	30.312	21.321	24.044	17.455	9.082
81.5	11.759	19.812	16.563	25.988	22.969	27.361	18.736	22.008	15.328	7.389
82.0	9.677	17.204	14.527	23.449	20.338	24.936	16.700	19.285	12.811	5.605
82.5	8.304	15.030	12.468	21.344	17.867	22.877	14.710	16.677	10.821	4.415

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83.0	6.909	13.086	10.295	18.370	15.556	20.315	12.171	14.252	9.151	2.768
83.5	4.941	11.095	9.105	15.831	13.269	17.798	10.180	12.354	6.657	1.716
84.0	3.477	9.402	7.778	13.658	11.164	15.511	8.670	10.661	5.033	0.961
84.5	2.768	7.115	6.634	11.759	9.128	13.131	7.618	8.853	4.095	0.297
85.0	1.624	5.742	5.193	10.089	8.053	11.370	6.428	6.703	2.837	0.069
85.5	0.892	4.347	3.706	7.755	6.268	9.357	4.896	5.079	2.013	0.023
86.0	0.480	2.883	2.631	6.200	4.575	7.046	3.683	3.500	1.441	0.000
86.5	0.114	2.013	1.647	4.987	3.363	5.651	2.494	2.791	0.984	0.000
87.0	0.092	1.304	0.572	3.500	2.196	4.026	1.167	1.670	0.686	0.000
87.5	0.000	0.709	0.160	2.448	1.235	2.974	0.343	0.961	0.366	0.000
88.0	0.000	0.618	0.114	1.670	0.801	2.013	0.137	0.824	0.366	0.000
88.5	0.000	0.343	0.000	0.984	0.206	1.235	0.000	0.595	0.275	0.000
89.0	0.000	0.343	0.000	0.732	0.069	0.846	0.000	0.458	0.297	0.000
89.5	0.000	0.320	0.000	0.595	0.023	0.641	0.000	0.297	0.206	0.000
90.0	0.000	0.183	0.000	0.366	0.000	0.503	0.000	0.206	0.229	0.000
90.5	0.000	0.229	0.000	0.275	0.000	0.343	0.000	0.229	0.206	0.000
91.0	0.000	0.320	0.000	0.252	0.000	0.297	0.000	0.092	0.206	0.000
91.5	0.000	0.252	0.000	0.252	0.000	0.252	0.000	0.092	0.252	0.000
92.0	0.000	0.114	0.000	0.183	0.000	0.252	0.000	0.160	0.229	0.000
92.5	0.000	0.160	0.000	0.206	0.000	0.206	0.000	0.183	0.206	0.000
93.0	0.000	0.160	0.000	0.252	0.000	0.183	0.000	0.229	0.206	0.000
93.5	0.000	0.183	0.000	0.229	0.000	0.229	0.000	0.160	0.114	0.000
94.0	0.000	0.137	0.000	0.114	0.000	0.206	0.000	0.183	0.160	0.000
94.5	0.000	0.114	0.000	0.160	0.000	0.137	0.000	0.137	0.114	0.000
95.0	0.000	0.114	0.000	0.137	0.000	0.137	0.000	0.114	0.092	0.000
95.5	0.000	0.114	0.000	0.114	0.000	0.114	0.000	0.137	0.137	0.000
96.0	0.000	0.069	0.000	0.046	0.000	0.114	0.000	0.114	0.092	0.000
96.5	0.000	0.137	0.000	0.092	0.000	0.114	0.000	0.114	0.160	0.000
97.0	0.000	0.069	0.000	0.114	0.000	0.114	0.000	0.114	0.069	0.000
97.5	0.000	0.114	0.000	0.069	0.000	0.069	0.000	0.137	0.069	0.000
98.0	0.000	0.046	0.000	0.046	0.000	0.046	0.000	0.137	0.183	0.000
98.5	0.000	0.046	0.000	0.069	0.000	0.092	0.000	0.069	0.114	0.000
99.0	0.000	0.046	0.000	0.069	0.000	0.046	0.000	0.023	0.069	0.000
99.5	0.000	0.069	0.000	0.069	0.000	0.069	0.000	0.069	0.092	0.000
100.0	0.000	0.092	0.000	0.069	0.000	0.069	0.000	0.046	0.092	0.000
100.5	0.000	0.092	0.000	0.023	0.000	0.114	0.000	0.023	0.114	0.000
101.0	0.000	0.046	0.000	0.046	0.000	0.137	0.000	0.023	0.160	0.000
101.5	0.000	0.046	0.000	0.000	0.000	0.092	0.000	0.092	0.137	0.000
102.0	0.000	0.023	0.000	0.069	0.000	0.092	0.000	0.069	0.137	0.000
102.5	0.000	0.069	0.000	0.069	0.000	0.046	0.000	0.092	0.137	0.000
103.0	0.000	0.092	0.000	0.069	0.000	0.023	0.000	0.114	0.046	0.000
103.5	0.000	0.046	0.000	0.023	0.000	0.046	0.000	0.046	0.092	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.206	0.000
104.5	0.000	0.046	0.000	0.023	0.000	0.046	0.000	0.046	0.114	0.000
105.0	0.000	0.069	0.000	0.069	0.000	0.046	0.000	0.092	0.069	0.000
105.5	0.000	0.000	0.000	0.046	0.000	0.046	0.000	0.092	0.092	0.000
106.0	0.000	0.069	0.000	0.092	0.000	0.023	0.000	0.046	0.069	0.000
106.5	0.000	0.023	0.000	0.069	0.000	0.114	0.000	0.000	0.114	0.023
107.0	0.000	0.069	0.000	0.000	0.000	0.046	0.000	0.000	0.092	0.023
107.5	0.000	0.069	0.000	0.000	0.000	0.046	0.000	0.046	0.114	0.046
108.0	0.000	0.069	0.000	0.092	0.000	0.000	0.000	0.046	0.137	0.000
108.5	0.000	0.046	0.000	0.046	0.000	0.046	0.000	0.046	0.092	0.046
109.0	0.000	0.000	0.000	0.069	0.000	0.000	0.000	0.023	0.137	0.000
109.5	0.000	0.069	0.000	0.046	0.000	0.000	0.000	0.046	0.114	0.046
110.0	0.000	0.046	0.000	0.023	0.000	0.069	0.000	0.046	0.069	0.000
110.5	0.000	0.069	0.000	0.000	0.000	0.046	0.000	0.023	0.114	0.046

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111.0	0.000	0.023	0.000	0.046	0.000	0.046	0.000	0.069	0.069	0.046
111.5	0.000	0.046	0.000	0.023	0.000	0.023	0.000	0.069	0.137	0.023
112.0	0.000	0.023	0.000	0.046	0.000	0.023	0.000	0.046	0.160	0.046
112.5	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.023	0.229	0.069
113.0	0.000	0.046	0.000	0.023	0.000	0.046	0.000	0.046	0.137	0.069
113.5	0.000	0.069	0.000	0.046	0.000	0.046	0.000	0.046	0.137	0.046
114.0	0.000	0.046	0.000	0.023	0.000	0.046	0.000	0.046	0.206	0.114
114.5	0.000	0.069	0.000	0.023	0.069	0.092	0.000	0.069	0.137	0.069
115.0	0.000	0.023	0.000	0.114	0.000	0.023	0.000	0.000	0.229	0.069
115.5	0.000	0.046	0.023	0.069	0.000	0.046	0.000	0.046	0.160	0.092
116.0	0.000	0.046	0.000	0.046	0.000	0.069	0.000	0.092	0.137	0.137
116.5	0.000	0.000	0.000	0.046	0.000	0.092	0.000	0.092	0.229	0.069
117.0	0.046	0.069	0.000	0.114	0.000	0.069	0.000	0.183	0.183	0.069
117.5	0.000	0.046	0.000	0.046	0.000	0.023	0.000	0.023	0.206	0.069
118.0	0.023	0.069	0.000	0.023	0.000	0.023	0.000	0.069	0.206	0.069
118.5	0.000	0.092	0.000	0.023	0.000	0.137	0.000	0.114	0.252	0.206
119.0	0.000	0.114	0.023	0.046	0.000	0.069	0.000	0.023	0.252	0.114
119.5	0.000	0.046	0.000	0.137	0.000	0.160	0.092	0.114	0.252	0.137
120.0	0.046	0.092	0.000	0.160	0.069	0.046	0.000	0.069	0.252	0.183
120.5	0.023	0.092	0.069	0.069	0.000	0.114	0.023	0.069	0.206	0.206
121.0	0.000	0.092	0.046	0.092	0.000	0.092	0.069	0.069	0.389	0.252
121.5	0.046	0.114	0.023	0.160	0.092	0.092	0.069	0.092	0.297	0.206
122.0	0.023	0.092	0.000	0.069	0.069	0.160	0.000	0.137	0.297	0.229
122.5	0.092	0.137	0.046	0.229	0.023	0.092	0.000	0.092	0.297	0.275
123.0	0.092	0.137	0.114	0.114	0.046	0.137	0.046	0.137	0.297	0.275
123.5	0.092	0.092	0.046	0.069	0.114	0.069	0.046	0.160	0.458	0.252
124.0	0.160	0.114	0.046	0.114	0.000	0.092	0.046	0.160	0.480	0.343
124.5	0.000	0.160	0.046	0.206	0.023	0.206	0.023	0.092	0.526	0.458
125.0	0.069	0.252	0.160	0.114	0.069	0.114	0.046	0.160	0.389	0.297
125.5	0.069	0.137	0.046	0.160	0.069	0.160	0.114	0.114	0.389	0.275
126.0	0.137	0.229	0.023	0.137	0.069	0.183	0.092	0.229	0.572	0.389
126.5	0.137	0.229	0.114	0.229	0.069	0.160	0.069	0.183	0.526	0.366
127.0	0.137	0.229	0.160	0.229	0.046	0.160	0.114	0.160	0.480	0.389
127.5	0.092	0.229	0.137	0.229	0.092	0.183	0.183	0.252	0.503	0.503
128.0	0.160	0.343	0.160	0.206	0.046	0.206	0.137	0.206	0.595	0.435
128.5	0.137	0.252	0.114	0.206	0.069	0.366	0.137	0.343	0.549	0.458
129.0	0.183	0.297	0.069	0.252	0.114	0.229	0.092	0.183	0.595	0.480
129.5	0.183	0.252	0.114	0.229	0.114	0.229	0.137	0.252	0.549	0.458
130.0	0.275	0.320	0.160	0.252	0.137	0.183	0.183	0.252	0.618	0.572
130.5	0.229	0.275	0.183	0.252	0.160	0.252	0.114	0.229	0.663	0.618
131.0	0.252	0.320	0.206	0.297	0.183	0.229	0.160	0.343	0.709	0.663
131.5	0.343	0.343	0.252	0.343	0.114	0.297	0.252	0.389	0.755	0.663
132.0	0.275	0.389	0.229	0.297	0.229	0.320	0.252	0.275	0.846	0.549
132.5	0.229	0.297	0.229	0.343	0.183	0.389	0.320	0.366	0.755	0.709
133.0	0.275	0.275	0.229	0.297	0.229	0.343	0.229	0.297	0.778	0.572
133.5	0.343	0.343	0.275	0.275	0.275	0.275	0.275	0.435	0.778	0.801
134.0	0.320	0.458	0.275	0.343	0.252	0.435	0.275	0.366	0.846	0.801
134.5	0.320	0.503	0.297	0.366	0.297	0.389	0.320	0.526	0.892	0.801
135.0	0.366	0.366	0.320	0.343	0.275	0.389	0.297	0.320	1.052	0.778
135.5	0.435	0.458	0.320	0.503	0.320	0.366	0.320	0.389	0.915	0.915
136.0	0.435	0.503	0.366	0.435	0.275	0.458	0.320	0.549	0.961	0.938
136.5	0.458	0.526	0.343	0.480	0.297	0.480	0.343	0.480	0.915	0.961
137.0	0.343	0.366	0.320	0.435	0.503	0.480	0.389	0.435	1.029	1.029
137.5	0.435	0.526	0.435	0.343	0.343	0.503	0.480	0.595	1.167	1.052
138.0	0.458	0.686	0.389	0.618	0.435	0.526	0.480	0.572	1.029	1.075
138.5	0.572	0.595	0.458	0.526	0.389	0.480	0.480	0.572	1.212	1.190

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139.0	0.618	0.641	0.389	0.549	0.458	0.618	0.503	0.663	1.212	1.144
139.5	0.549	0.686	0.458	0.549	0.526	0.549	0.480	0.389	1.212	1.304
140.0	0.732	0.824	0.526	0.549	0.572	0.686	0.526	0.663	1.327	1.281
140.5	0.595	0.618	0.595	0.526	0.549	0.595	0.641	0.663	1.327	1.350
141.0	0.709	0.686	0.595	0.618	0.526	0.686	0.663	0.595	1.487	1.373
141.5	0.618	0.663	0.709	0.618	0.549	0.595	0.526	0.618	1.373	1.373
142.0	0.755	0.732	0.686	0.618	0.618	0.641	0.663	0.732	1.464	1.350
142.5	0.778	0.801	0.663	0.755	0.618	0.755	0.686	0.801	1.464	1.464
143.0	0.824	0.709	0.618	0.686	0.618	0.846	0.755	0.846	1.533	1.533
143.5	0.846	0.778	0.801	0.755	0.732	0.915	0.732	0.801	1.510	1.716
144.0	0.824	0.915	0.709	0.709	0.732	0.846	0.755	0.892	1.533	1.464
144.5	0.869	0.801	0.663	0.755	0.755	0.846	0.824	0.892	1.670	1.601
145.0	0.846	0.846	0.824	0.824	0.869	0.892	0.846	0.938	1.716	1.601
145.5	0.915	1.007	0.869	0.824	0.755	0.915	0.846	1.007	1.739	1.647
146.0	1.052	1.007	0.961	1.007	0.892	1.029	0.846	1.007	1.716	1.762
146.5	0.961	0.938	0.938	0.915	0.915	1.052	0.915	1.144	1.807	1.693
147.0	1.075	1.052	0.938	1.098	0.915	1.052	1.007	1.121	1.830	1.876
147.5	1.098	1.212	0.892	0.984	0.915	0.938	1.121	1.121	1.830	1.784
148.0	1.212	1.052	1.007	1.029	1.007	1.098	1.144	1.098	1.922	2.013
148.5	1.212	1.281	1.144	1.029	1.029	1.098	1.075	1.098	2.013	2.013
149.0	1.281	1.281	1.007	1.167	1.144	1.235	1.121	1.212	1.922	2.059
149.5	1.281	1.235	1.144	1.167	1.212	1.396	1.167	1.281	2.036	1.990
150.0	1.418	1.144	1.212	1.212	1.144	1.304	1.327	1.373	1.967	2.150
150.5	1.373	1.396	1.212	1.190	1.212	1.327	1.396	1.350	2.128	2.036
151.0	1.601	1.350	1.350	1.235	1.396	1.350	1.304	1.464	2.059	2.196
151.5	1.487	1.441	1.396	1.350	1.327	1.281	1.396	1.441	2.219	2.265
152.0	1.464	1.373	1.441	1.327	1.327	1.441	1.304	1.487	2.059	2.288
152.5	1.418	1.579	1.487	1.533	1.373	1.464	1.464	1.693	2.265	2.333
153.0	1.601	1.418	1.579	1.396	1.418	1.533	1.441	1.556	2.356	2.288
153.5	1.556	1.556	1.533	1.441	1.510	1.670	1.579	1.693	2.356	2.265
154.0	1.647	1.510	1.579	1.510	1.510	1.464	1.556	1.762	2.448	2.448
154.5	1.693	1.784	1.601	1.624	1.464	1.624	1.693	1.784	2.539	2.356
155.0	1.647	1.762	1.624	1.601	1.624	1.624	1.784	1.830	2.379	2.311
155.5	1.762	1.762	1.693	1.716	1.807	1.693	1.670	1.945	2.516	2.608
156.0	1.830	1.830	1.670	1.739	1.739	1.784	1.762	1.899	2.448	2.608
156.5	1.876	1.830	1.739	1.693	1.739	1.899	1.762	1.922	2.494	2.448
157.0	1.899	1.990	1.739	1.945	1.784	1.830	1.784	1.945	2.539	2.631
157.5	1.945	1.899	1.807	1.830	1.990	1.876	1.945	1.967	2.494	2.539
158.0	1.922	1.876	1.830	1.990	1.990	2.036	1.945	2.036	2.654	2.562
158.5	2.036	2.036	1.990	1.762	1.990	1.876	2.013	2.036	2.539	2.699
159.0	2.059	2.150	1.853	1.967	1.945	2.013	1.945	2.173	2.768	2.745
159.5	2.013	2.242	1.990	2.105	1.990	2.013	2.105	2.105	2.631	2.608
160.0	2.242	2.242	1.990	1.990	2.036	2.013	2.150	2.242	2.837	2.699
160.5	2.196	2.242	2.036	2.150	2.150	2.128	2.196	2.402	2.814	2.699
161.0	2.242	2.219	2.150	2.265	2.173	2.150	2.219	2.265	2.814	2.837
161.5	2.356	2.242	2.288	2.173	2.242	2.311	2.173	2.288	2.791	2.883
162.0	2.196	2.242	2.196	2.242	2.150	2.219	2.242	2.242	2.791	2.974
162.5	2.311	2.379	2.379	2.173	2.173	2.379	2.425	2.356	2.768	2.905
163.0	2.311	2.311	2.356	2.265	2.356	2.356	2.448	2.448	2.745	2.997
163.5	2.333	2.425	2.402	2.333	2.196	2.379	2.425	2.471	2.951	2.745
164.0	2.425	2.311	2.402	2.562	2.311	2.562	2.379	2.402	2.791	2.837
164.5	2.516	2.402	2.333	2.448	2.311	2.379	2.425	2.539	2.951	2.768
165.0	2.654	2.471	2.425	2.356	2.631	2.448	2.562	2.585	2.951	2.837
165.5	2.448	2.494	2.516	2.379	2.333	2.402	2.516	2.631	2.905	3.043
166.0	2.425	2.585	2.425	2.585	2.562	2.471	2.585	2.585	2.951	2.997
166.5	2.745	2.654	2.471	2.471	2.585	2.677	2.425	2.562	3.043	3.088

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CANDELA TABULATION - (Cont.)

167.0	2.585	2.539	2.494	2.516	2.471	2.654	2.494	2.677	3.043	3.157
167.5	2.654	2.585	2.654	2.516	2.585	2.631	2.677	2.699	3.157	3.043
168.0	2.677	2.745	2.677	2.562	2.699	2.677	2.516	2.677	2.997	3.066
168.5	2.768	2.768	2.837	2.654	2.516	2.722	2.722	2.837	3.066	3.043
169.0	2.745	2.722	2.562	2.585	2.654	2.585	2.699	2.791	3.157	3.088
169.5	2.837	2.791	2.768	2.883	2.654	2.768	2.745	2.860	3.180	3.111
170.0	2.860	2.768	2.745	2.699	2.699	2.768	2.883	2.974	3.226	3.134
170.5	2.860	2.974	2.745	2.860	2.585	2.837	2.814	2.860	3.066	3.157
171.0	2.951	2.699	2.814	2.791	2.791	2.883	2.951	2.860	3.226	3.180
171.5	2.905	2.722	2.814	2.791	2.860	2.768	2.814	2.905	3.226	3.111
172.0	2.974	2.791	2.837	2.860	2.837	2.860	2.837	2.883	3.180	3.134
172.5	2.791	2.905	2.837	2.905	2.860	3.066	2.791	2.951	3.203	3.111
173.0	2.951	2.837	2.837	2.974	2.997	2.837	2.997	3.088	3.226	3.271
173.5	3.088	2.883	2.905	2.905	2.860	2.860	2.951	2.974	3.249	3.180
174.0	2.951	3.020	2.905	2.974	2.883	2.791	2.997	2.905	3.271	2.997
174.5	3.226	2.791	3.020	2.951	2.860	2.997	2.997	3.066	3.157	3.203
175.0	3.157	3.043	3.066	3.043	2.997	3.111	3.043	3.111	3.226	3.249
175.5	3.066	2.905	2.905	2.951	3.134	3.111	3.134	3.020	3.180	3.203
176.0	3.043	3.043	2.951	3.088	2.997	2.974	2.997	3.180	3.226	3.157
176.5	2.997	3.111	3.088	3.088	3.157	3.088	3.226	3.134	3.249	3.180
177.0	2.997	3.180	3.111	3.043	3.203	3.111	3.226	3.203	3.180	3.134
177.5	3.157	3.111	3.271	3.043	3.134	3.111	3.111	3.111	3.386	3.203
178.0	2.997	3.180	3.066	3.043	3.180	3.180	3.134	3.134	3.203	3.111
178.5	3.066	3.180	3.134	3.088	3.066	3.249	3.317	3.066	3.157	3.134
179.0	3.066	3.043	3.317	3.180	3.249	3.180	3.088	3.180	3.249	3.271
179.5	3.203	3.203	3.066	3.271	3.226	3.157	3.157	3.226	3.271	3.294
180.0	3.166	3.166	3.166	3.166	3.166	3.166	3.166	3.166	3.166	3.166

Vert. Horizontal Angles
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	12378.1121	12378.1121	12378.1121	12378.1121	12378.1121	12378.1121	12378.112
0.5	12439.2401	12369.5561	12366.0561	12303.8761	12308.8631	12262.1711	12469.529
1.0	12422.7451	12344.5741	12348.5781	12282.8981	12293.3751	12247.1871	12467.127
1.5	12401.0351	12313.5991	12325.1061	12255.6741	12277.9111	12225.1791	12455.162
2.0	12376.2821	12281.6401	12298.1341	12220.1921	12258.1681	12200.2201	12445.600
2.5	12343.3391	12246.1571	12266.4031	12184.2291	12227.9471	12170.9831	12431.233
3.0	12309.8701	12201.7071	12230.4411	12144.2631	12194.2261	12133.5101	12463.970
3.5	12272.1681	12156.5021	12192.7161	12093.0641	12153.5051	12095.5571	12437.501
4.0	12227.4441	12101.5511	12143.5081	12040.1031	12114.5451	12053.3491	12403.529
4.5	12181.7351	12043.6261	12091.5771	11976.1841	12070.8271	12002.6531	12368.069
5.0	12125.5491	11980.9431	12035.6191	11915.7201	12016.1511	11951.9581	12322.590
5.5	12070.0721	11907.5071	11968.6811	11852.5571	11962.7101	11889.2741	12277.407
6.0	12010.1571	11836.5431	11905.4941	11773.3791	11901.0101	11827.5751	12228.954
6.5	11938.7121	11760.1331	11834.5751	11696.1921	11826.5911	11760.3851	12172.012
7.0	11869.5311	11668.7161	11746.6591	11615.2751	11757.1361	11681.2071	12117.290
7.5	11794.3571	11584.5511	11665.2161	11520.8621	11683.4491	11607.2911	12056.597
8.0	11706.1891	11485.6541	11581.3261	11429.4451	11596.2871	11529.0971	11981.927
8.5	11622.5271	11390.4851	11480.6441	11324.5531	11514.1131	11435.6901	11912.243
9.0	11526.3751	11291.3361	11385.4981	11222.8871	11415.4671	11348.0251	11837.298
9.5	11431.2061	11178.1851	11276.5801	11106.2601	11322.5401	11243.3621	11749.404
10.0	11333.5441	11071.5321	11171.2081	10996.6101	11224.6491	11144.7161	11664.461
10.5	11220.6451	10959.9151	11063.0451	10880.7371	11109.5081	11041.8151	11563.573
11.0	11115.7311	10830.0191	10940.9271	10749.1031	11002.8551	10920.4291	11470.898
11.5	11006.3561	10708.6331	10822.2861	10625.2001	10877.4891	10806.7991	11374.013
12.0	10877.4891	10570.0211	10696.1421	10499.0791	10757.3381	10686.4191	11254.366

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12.5	10756.35510439.87310556.52310349.98910632.95610548.53911140.713
13.0	10619.73310307.02610426.90210212.36010491.09510419.90111024.337
13.5	10494.09210153.93210277.28510070.75110357.97310272.80110891.467
14.0	10364.69910013.30610140.1839908.667 10223.34110134.18910767.587
14.5	10219.8649867.671 9999.809 9758.799 10066.4969992.054 10623.210
15.0	10083.9749703.093 9835.208 9591.704 9921.867 9829.718 10489.356
15.5	9942.868 9553.980 9684.608 9439.091 9758.273 9681.108 10351.224
16.0	9780.509 9384.895 9533.253 9283.733 9607.169 9530.257 10193.853
16.5	9630.916 9227.775 9360.417 9105.658 9453.069 9361.424 10046.524
17.0	9462.563 9069.695 9202.085 8943.070 9278.494 9207.804 9893.659
17.5	9308.211 8892.626 9024.970 8780.711 9119.658 9034.212 9722.561
18.0	9152.876 8729.261 8861.902 8599.891 8960.548 8874.622 9566.974
18.5	8976.768 8565.163 8697.278 8436.777 8781.969 8713.521 9391.370
19.0	8816.194 8379.859 8516.709 8257.466 8621.624 8538.694 9230.795
19.5	8652.348 8216.745 8353.870 8097.349 8445.264 8381.346 9069.443
20.0	8468.507 8033.156 8192.266 7937.255 8285.170 8223.745 8890.361
20.5	8302.420 7866.840 8010.439 7755.428 8127.341 8047.157 8729.261
21.0	8137.590 7698.235 7847.852 7592.337 7948.008 7886.583 8567.428
21.5	7947.756 7510.437 7681.009 7427.760 7785.168 7705.739 8387.088
22.0	7777.665 7344.578 7495.682 7246.916 7621.323 7542.397 8223.997
22.5	7587.350 7178.742 7330.829 7085.564 7439.495 7379.786 8041.163
23.0	7419.753 6995.405 7150.032 6906.505 7275.901 7199.217 7875.075
23.5	7253.413 6834.305 6987.673 6745.885 7095.310 7037.865 7709.743
24.0	7071.838 6675.949 6828.311 6587.529 6935.467 6859.035 7527.641
24.5	6911.263 6502.633 6652.478 6417.713 6777.364 6700.199 7362.583
25.0	6732.913 6352.010 6497.874 6267.845 6601.279 6544.337 7196.975
25.5	6574.810 6189.697 6345.513 6120.493 6446.172 6374.750 7017.390
26.0	6422.471 6046.806 6180.683 5960.125 6294.085 6225.385 6858.532
26.5	6256.383 5905.449 6034.590 5818.264 6128.478 6078.034 6680.456
27.0	6110.245 5750.594 5876.463 5663.684 5981.858 5916.201 6522.856
27.5	5966.142 5612.965 5735.106 5529.052 5823.023 5774.066 6368.275
28.0	5812.042 5464.859 5595.990 5395.175 5682.420 5632.960 6198.664
28.5	5676.152 5335.992 5448.616 5251.575 5545.043 5481.856 6049.803
29.0	5543.533 5211.106 5319.498 5126.438 5396.914 5352.235 5904.694
29.5	5400.688 5075.719 5179.398 5006.813 5269.282 5212.867 5745.858
30.0	5274.796 4959.092 5056.502 4882.911 5144.419 5091.230 5607.474
30.5	5141.171 4848.687 4939.600 4779.278 5011.801 4974.831 5459.368
31.0	5025.046 4735.308 4818.489 4671.115 4901.647 4855.710 5331.988
31.5	4912.880 4641.649 4715.588 4581.185 4785.249 4755.051 5205.844
32.0	4795.246 4546.480 4621.151 4499.537 4687.838 4660.637 5072.745
32.5	4696.600 4467.554 4526.005 4416.355 4595.460 4563.730 4960.350
33.0	4606.167 4395.377 4449.070 4347.930 4502.533 4482.813 4857.929
33.5	4515.528 4320.706 4377.396 4282.753 4426.353 4408.371 4752.306
34.0	4441.818 4257.268 4301.718 4214.305 4349.440 4331.687 4663.611
34.5	4364.653 4198.565 4239.538 4158.851 4283.234 4267.997 4581.459
35.0	4299.728 4139.131 4174.590 4100.926 4220.550 4201.059 4497.043
35.5	4238.783 4087.909 4120.623 4049.453 4157.112 4143.866 4427.588
36.0	4176.100 4038.220 4068.441 3999.763 4102.893 4089.419 4354.679
36.5	4123.391 3986.014 4012.231 3946.803 4049.453 4032.478 4292.728
37.0	4073.199 3940.580 3963.778 3900.340 3992.992 3982.514 4234.299
37.5	4019.735 3891.372 3916.354 3854.151 3943.806 3933.328 4172.852
38.0	3974.027 3847.654 3866.642 3802.677 3896.839 3880.871 4120.394
38.5	3923.079 3801.442 3821.436 3757.472 3845.137 3833.172 4063.453
39.0	3878.881 3750.746 3771.473 3710.780 3798.193 3779.732 4015.000
39.5	3834.682 3704.283 3726.268 3655.829 3747.017 3733.497 3968.285
40.0	3782.706 3655.074 3678.821 3603.646 3700.783 3688.292 3918.573

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CANDELA TABULATION - (Cont.)

40.5	3733.771	3594.633	3622.360	3543.686	3653.084	3636.361	3873.367
41.0	3674.565	3536.685	3569.903	3486.241	3595.891	3587.381	3826.904
41.5	3618.631	3466.498	3513.213	3424.793	3542.427	3534.443	3774.973
42.0	3559.173	3396.837	3445.040	3350.374	3486.493	3472.012	3728.761
42.5	3488.506	3319.170	3377.849	3276.435	3421.293	3411.067	3674.565
43.0	3419.051	3224.756	3297.665	3196.526	3357.626	3338.387	3622.863
43.5	3344.861	3135.329	3218.739	3102.615	3288.675	3267.467	3566.929
44.0	3255.732	3042.929	3135.078	3012.960	3204.761	3189.777	3498.732
44.5	3168.776	2937.259	3035.173	2908.526	3123.845	3096.850	3431.290
45.0	3066.652	2837.607	2939.753	2809.628	3028.425	3007.950	3358.610
45.5	2970.500	2720.224	2840.855	2706.475	2937.786	2914.268	3271.700
46.0	2869.818	2610.323	2725.967	2586.348	2841.610	2807.386	3187.283
46.5	2753.945	2498.911	2617.826	2476.698	2728.460	2706.979	3098.612
47.0	2646.537	2373.064	2494.931	2351.583	2624.049	2590.854	2994.955
47.5	2536.887	2259.159	2384.045	2237.929	2517.419	2482.188	2894.800
48.0	2413.008	2144.019	2271.879	2124.024	2397.772	2370.571	2779.430
48.5	2299.881	2014.123	2144.271	1995.409	2287.618	2245.685	2672.251
49.0	2171.998	1896.489	2029.862	1880.017	2162.504	2132.283	2561.114
49.5	2056.857	1767.393	1915.980	1764.877	2049.376	2020.643	2436.983
50.0	1939.704	1650.240	1788.097	1636.239	1933.710	1893.995	2323.101
50.5	1809.579	1532.606	1672.957	1519.108	1806.330	1780.593	2208.441
51.0	1691.464	1404.219	1543.335	1404.471	1690.709	1652.985	2079.071
51.5	1573.830	1298.070	1428.446	1293.586	1575.294	1538.348	1962.192
52.0	1446.199	1166.320	1315.044	1168.242	1447.937	1425.198	1832.296
52.5	1332.797	1059.278	1192.171	1048.778	1336.526	1307.312	1715.691
53.0	1223.376	955.302	1084.535	944.595	1214.888	1178.399	1599.292
53.5	1102.516	844.028	945.968	843.547	1106.497	1085.427	1470.906
54.0	960.198	748.790	867.454	736.803	956.011	970.698	1356.520
54.5	888.638	657.465	770.226	646.141	889.324	870.016	1275.078
55.0	792.303	561.656	669.407	551.407	792.371	762.654	1120.154
55.5	700.177	481.426	584.784	472.458	689.653	669.453	1014.988
56.0	602.491	408.562	502.884	400.441	601.393	581.742	899.573
56.5	520.751	337.186	419.543	328.698	518.944	491.263	798.090
57.0	437.662	281.846	354.458	272.443	434.917	416.546	702.327
57.5	370.929	233.690	297.540	224.973	367.772	349.036	603.475
58.0	311.517	191.504	243.710	185.144	309.276	285.438	520.591
58.5	255.377	164.532	204.155	158.698	253.433	236.641	435.145
59.0	214.999	144.949	173.820	137.446	211.522	196.995	366.308
59.5	181.781	132.367	150.623	126.716	176.588	164.280	306.439
60.0	158.950	124.886	136.851	116.147	154.535	145.544	250.321
60.5	142.593	117.794	126.854	111.183	137.880	130.331	207.793
61.0	129.896	113.928	120.883	107.866	124.200	124.200	174.049
61.5	123.742	110.382	116.765	104.846	117.154	114.248	149.204
62.0	119.784	106.447	112.715	101.643	113.310	110.062	135.112
62.5	115.621	102.947	109.215	98.966	109.810	107.019	125.916
63.0	112.281	99.447	105.967	95.809	106.790	103.999	116.742
63.5	108.460	96.610	102.672	93.156	103.976	101.437	111.869
64.0	105.280	94.048	100.042	90.776	100.934	98.875	107.683
64.5	102.238	91.440	97.411	88.374	98.486	96.084	104.228
65.0	99.264	89.175	95.146	86.315	95.832	93.705	101.048
65.5	96.679	86.910	89.038	84.211	87.253	91.394	98.097
66.0	94.116	84.233	90.227	81.580	90.731	88.992	95.741
66.5	90.753	81.625	87.757	79.132	88.946	86.796	93.339
67.0	89.129	78.629	84.828	76.410	86.796	84.165	91.257
67.5	86.453	75.517	81.992	73.344	84.508	81.465	89.175
68.0	83.776	72.337	79.269	70.644	81.809	78.720	86.636

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68.5	81.168	69.043	76.295	67.510	79.086	75.700	84.279
69.0	77.897	66.046	73.458	64.468	75.815	72.612	81.854
69.5	74.694	62.637	70.324	61.448	72.703	69.478	78.743
70.0	71.560	59.343	66.458	57.788	69.501	66.458	75.723
70.5	68.082	55.980	63.095	54.768	66.115	63.644	72.452
71.0	64.788	52.823	59.824	51.611	63.004	60.601	69.569
71.5	61.288	50.284	56.712	49.049	60.098	57.124	66.755
72.0	58.428	47.882	54.173	46.395	56.689	54.036	63.415
72.5	55.568	44.702	51.222	43.169	53.349	50.650	60.075
73.0	52.297	41.545	48.431	40.401	49.826	47.859	57.216
73.5	49.277	38.548	45.571	37.701	47.150	45.091	54.173
74.0	46.441	35.414	42.437	34.727	44.748	41.819	51.565
74.5	43.466	32.920	39.600	31.845	41.476	38.960	48.385
75.0	40.332	29.992	36.489	29.077	38.136	36.237	45.320
75.5	36.214	27.430	33.835	26.057	35.048	33.401	42.208
76.0	33.149	24.913	31.456	23.792	32.097	30.358	39.097
76.5	30.564	22.237	28.962	21.665	29.489	26.995	36.695
77.0	28.322	20.109	26.698	19.446	26.263	24.456	34.407
77.5	25.737	17.776	24.044	16.883	23.609	22.168	31.662
78.0	22.969	14.870	21.070	14.207	21.390	19.720	29.123
78.5	20.086	12.560	18.508	12.125	19.240	17.387	26.469
79.0	17.867	10.729	15.945	10.363	17.021	15.076	23.632
79.5	15.556	9.288	13.749	9.036	14.573	12.788	21.116
80.0	13.314	8.098	11.599	7.572	12.262	10.798	18.485
80.5	11.370	6.360	9.494	6.177	10.501	9.082	16.426
81.0	9.608	4.781	7.229	4.644	9.036	7.938	14.275
81.5	7.664	3.706	5.651	3.249	6.978	6.611	11.759
82.0	6.154	2.288	4.118	1.876	5.536	4.896	9.677
82.5	4.736	1.304	3.180	0.915	4.095	3.729	8.304
83.0	3.660	0.686	2.219	0.320	2.745	2.425	6.909
83.5	2.402	0.229	1.716	0.114	1.853	1.144	4.941
84.0	1.533	0.046	1.098	0.046	1.098	0.366	3.477
84.5	1.190	0.000	0.709	0.000	0.595	0.023	2.768
85.0	0.641	0.000	0.503	0.000	0.549	0.000	1.624
85.5	0.595	0.000	0.435	0.000	0.389	0.000	0.892
86.0	0.389	0.000	0.275	0.000	0.229	0.000	0.480
86.5	0.252	0.000	0.343	0.000	0.183	0.000	0.114
87.0	0.206	0.000	0.183	0.000	0.297	0.000	0.092
87.5	0.275	0.000	0.252	0.000	0.343	0.000	0.000
88.0	0.297	0.000	0.206	0.000	0.297	0.000	0.000
88.5	0.252	0.000	0.183	0.000	0.160	0.000	0.000
89.0	0.183	0.000	0.252	0.000	0.160	0.000	0.000
89.5	0.206	0.000	0.160	0.000	0.183	0.000	0.000
90.0	0.252	0.000	0.137	0.000	0.183	0.000	0.000
90.5	0.297	0.000	0.160	0.000	0.114	0.000	0.000
91.0	0.206	0.000	0.137	0.000	0.114	0.000	0.000
91.5	0.137	0.000	0.160	0.000	0.160	0.000	0.000
92.0	0.160	0.000	0.114	0.000	0.160	0.000	0.000
92.5	0.069	0.000	0.137	0.000	0.114	0.000	0.000
93.0	0.137	0.000	0.206	0.000	0.114	0.000	0.000
93.5	0.114	0.000	0.092	0.000	0.160	0.000	0.000
94.0	0.114	0.000	0.114	0.000	0.114	0.000	0.000
94.5	0.092	0.000	0.092	0.000	0.114	0.000	0.000
95.0	0.114	0.000	0.092	0.000	0.069	0.000	0.000
95.5	0.183	0.000	0.046	0.000	0.114	0.000	0.000
96.0	0.114	0.000	0.114	0.000	0.092	0.000	0.000

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CANDELA TABULATION - (Cont.)

96.5	0.137	0.000	0.092	0.000	0.092	0.000	0.000
97.0	0.183	0.000	0.092	0.000	0.114	0.000	0.000
97.5	0.092	0.000	0.114	0.000	0.069	0.000	0.000
98.0	0.137	0.000	0.137	0.000	0.114	0.000	0.000
98.5	0.160	0.000	0.160	0.000	0.046	0.000	0.000
99.0	0.092	0.000	0.092	0.000	0.023	0.000	0.000
99.5	0.114	0.000	0.069	0.000	0.137	0.000	0.000
100.0	0.114	0.000	0.160	0.000	0.114	0.000	0.000
100.5	0.114	0.000	0.092	0.000	0.046	0.000	0.000
101.0	0.092	0.000	0.137	0.000	0.183	0.000	0.000
101.5	0.160	0.000	0.023	0.000	0.114	0.000	0.000
102.0	0.229	0.000	0.069	0.000	0.046	0.000	0.000
102.5	0.114	0.000	0.092	0.000	0.046	0.000	0.000
103.0	0.046	0.000	0.114	0.000	0.114	0.000	0.000
103.5	0.114	0.000	0.046	0.000	0.069	0.000	0.000
104.0	0.114	0.000	0.137	0.000	0.069	0.000	0.000
104.5	0.114	0.000	0.092	0.000	0.092	0.000	0.000
105.0	0.114	0.000	0.069	0.000	0.114	0.000	0.000
105.5	0.046	0.000	0.114	0.000	0.069	0.000	0.000
106.0	0.114	0.023	0.114	0.000	0.069	0.000	0.000
106.5	0.069	0.000	0.069	0.023	0.069	0.000	0.000
107.0	0.092	0.000	0.160	0.000	0.137	0.000	0.000
107.5	0.046	0.000	0.092	0.000	0.092	0.000	0.000
108.0	0.069	0.000	0.114	0.000	0.069	0.000	0.000
108.5	0.114	0.023	0.183	0.023	0.114	0.023	0.000
109.0	0.114	0.000	0.137	0.000	0.137	0.000	0.000
109.5	0.160	0.046	0.092	0.000	0.137	0.046	0.000
110.0	0.183	0.046	0.137	0.000	0.114	0.023	0.000
110.5	0.183	0.069	0.092	0.023	0.160	0.023	0.000
111.0	0.069	0.000	0.137	0.023	0.183	0.000	0.000
111.5	0.114	0.000	0.160	0.046	0.114	0.000	0.000
112.0	0.206	0.023	0.183	0.046	0.137	0.000	0.000
112.5	0.183	0.046	0.160	0.000	0.183	0.000	0.000
113.0	0.160	0.046	0.092	0.114	0.183	0.023	0.000
113.5	0.137	0.092	0.252	0.069	0.114	0.069	0.000
114.0	0.229	0.069	0.252	0.023	0.160	0.023	0.000
114.5	0.137	0.069	0.137	0.023	0.183	0.114	0.000
115.0	0.252	0.137	0.137	0.114	0.137	0.046	0.000
115.5	0.206	0.046	0.206	0.046	0.137	0.160	0.000
116.0	0.206	0.069	0.252	0.069	0.206	0.046	0.000
116.5	0.183	0.137	0.275	0.069	0.206	0.137	0.000
117.0	0.206	0.183	0.252	0.137	0.206	0.069	0.046
117.5	0.275	0.092	0.320	0.069	0.160	0.092	0.000
118.0	0.275	0.137	0.229	0.160	0.252	0.092	0.023
118.5	0.297	0.160	0.275	0.069	0.252	0.114	0.000
119.0	0.252	0.229	0.366	0.137	0.275	0.114	0.000
119.5	0.229	0.229	0.343	0.160	0.320	0.137	0.000
120.0	0.275	0.160	0.480	0.252	0.320	0.160	0.046
120.5	0.275	0.160	0.320	0.229	0.366	0.183	0.023
121.0	0.252	0.206	0.275	0.275	0.343	0.206	0.000
121.5	0.297	0.275	0.389	0.206	0.366	0.229	0.046
122.0	0.389	0.206	0.389	0.275	0.526	0.229	0.023
122.5	0.435	0.275	0.480	0.343	0.343	0.297	0.092
123.0	0.389	0.275	0.389	0.435	0.458	0.229	0.092
123.5	0.458	0.320	0.389	0.343	0.366	0.320	0.092
124.0	0.389	0.297	0.458	0.343	0.480	0.275	0.160

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CANDELA TABULATION - (Cont.)

124.5	0.480	0.320	0.458	0.320	0.480	0.435	0.000
125.0	0.435	0.343	0.549	0.389	0.458	0.435	0.069
125.5	0.458	0.480	0.663	0.275	0.595	0.297	0.069
126.0	0.480	0.320	0.549	0.366	0.618	0.366	0.137
126.5	0.503	0.458	0.732	0.458	0.595	0.503	0.137
127.0	0.618	0.503	0.641	0.526	0.618	0.389	0.137
127.5	0.641	0.435	0.526	0.549	0.663	0.389	0.092
128.0	0.641	0.549	0.709	0.572	0.663	0.503	0.160
128.5	0.686	0.595	0.663	0.595	0.549	0.503	0.137
129.0	0.641	0.572	0.732	0.572	0.663	0.595	0.183
129.5	0.709	0.618	0.824	0.549	0.732	0.549	0.183
130.0	0.709	0.686	0.778	0.526	0.824	0.595	0.275
130.5	0.801	0.595	0.709	0.732	0.801	0.709	0.229
131.0	0.755	0.663	0.824	0.663	0.915	0.641	0.252
131.5	0.778	0.686	0.801	0.801	0.755	0.663	0.343
132.0	0.869	0.801	0.938	0.641	0.915	0.778	0.275
132.5	0.846	0.709	0.961	0.892	0.961	0.663	0.229
133.0	1.007	0.824	0.984	0.778	0.961	0.892	0.275
133.5	0.869	0.938	0.961	0.869	1.052	0.778	0.343
134.0	1.029	0.846	1.007	0.892	1.029	0.846	0.320
134.5	1.029	0.801	0.984	0.824	0.961	0.961	0.320
135.0	1.075	0.961	1.098	1.007	1.075	0.892	0.366
135.5	1.007	1.075	1.052	0.961	1.098	0.961	0.435
136.0	1.007	0.984	1.144	0.938	1.190	1.029	0.435
136.5	1.235	1.007	1.212	1.007	1.212	1.121	0.458
137.0	1.167	1.098	1.235	1.144	1.235	1.052	0.343
137.5	1.190	1.212	1.190	1.144	1.304	1.121	0.435
138.0	1.190	1.098	1.235	1.212	1.167	1.121	0.458
138.5	1.304	1.167	1.304	1.190	1.373	1.190	0.572
139.0	1.373	1.327	1.396	1.373	1.350	1.190	0.618
139.5	1.350	1.281	1.350	1.304	1.350	1.373	0.549
140.0	1.464	1.350	1.487	1.556	1.373	1.281	0.732
140.5	1.327	1.487	1.556	1.304	1.487	1.304	0.595
141.0	1.624	1.418	1.441	1.510	1.510	1.396	0.709
141.5	1.487	1.510	1.601	1.533	1.601	1.327	0.618
142.0	1.579	1.533	1.624	1.601	1.487	1.464	0.755
142.5	1.647	1.510	1.739	1.533	1.624	1.579	0.778
143.0	1.647	1.647	1.601	1.693	1.670	1.624	0.824
143.5	1.762	1.510	1.624	1.853	1.739	1.624	0.846
144.0	1.739	1.556	1.853	1.624	1.784	1.739	0.824
144.5	1.693	1.716	1.693	1.784	1.830	1.784	0.869
145.0	1.784	1.693	1.762	1.807	1.876	1.807	0.846
145.5	1.876	1.762	1.899	1.922	1.830	1.807	0.915
146.0	1.899	1.853	1.899	1.945	1.876	1.739	1.052
146.5	1.922	1.830	2.036	1.967	1.876	1.922	0.961
147.0	2.013	1.899	1.967	1.922	2.013	1.739	1.075
147.5	2.105	1.876	2.150	2.036	2.036	1.899	1.098
148.0	2.059	2.013	2.128	1.990	2.036	2.036	1.212
148.5	2.059	2.173	2.150	2.128	2.059	1.990	1.212
149.0	1.967	2.150	2.173	2.059	2.219	2.036	1.281
149.5	2.105	2.173	2.173	2.265	2.196	2.173	1.281
150.0	2.288	2.219	2.150	2.242	2.173	2.242	1.418
150.5	2.150	2.173	2.150	2.288	2.288	2.242	1.373
151.0	2.219	2.311	2.288	2.333	2.448	2.379	1.601
151.5	2.265	2.356	2.288	2.265	2.356	2.379	1.487
152.0	2.288	2.265	2.425	2.311	2.402	2.288	1.464

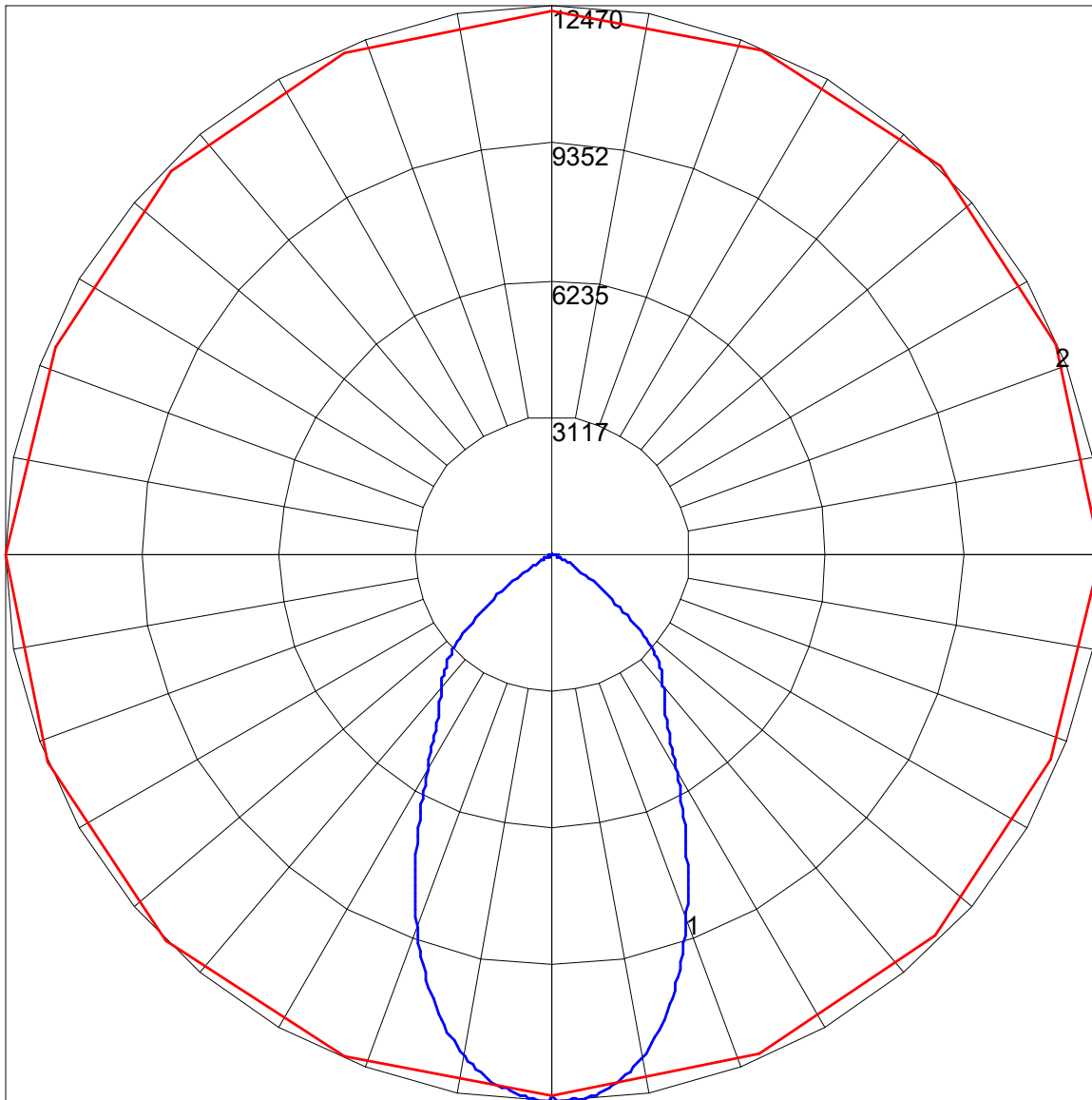
IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

152.5	2.288	2.379	2.471	2.494	2.494	2.356	1.418
153.0	2.448	2.356	2.494	2.311	2.356	2.448	1.601
153.5	2.425	2.356	2.356	2.539	2.494	2.516	1.556
154.0	2.379	2.539	2.539	2.562	2.608	2.425	1.647
154.5	2.539	2.516	2.608	2.471	2.448	2.539	1.693
155.0	2.585	2.562	2.562	2.494	2.585	2.539	1.647
155.5	2.631	2.608	2.585	2.654	2.768	2.425	1.762
156.0	2.722	2.539	2.654	2.631	2.585	2.471	1.830
156.5	2.631	2.585	2.585	2.654	2.654	2.448	1.876
157.0	2.722	2.631	2.860	2.654	2.677	2.745	1.899
157.5	2.677	2.562	2.791	2.768	2.677	2.608	1.945
158.0	2.791	2.745	2.677	2.654	2.768	2.699	1.922
158.5	2.654	2.654	2.699	2.951	2.745	2.722	2.036
159.0	2.608	2.837	2.837	2.791	2.768	2.791	2.059
159.5	2.699	2.699	2.860	2.837	3.066	2.699	2.013
160.0	2.814	2.722	2.791	2.837	2.791	2.814	2.242
160.5	2.768	2.722	2.837	2.837	2.814	2.860	2.196
161.0	2.860	2.883	2.860	3.088	2.860	2.905	2.242
161.5	3.020	2.837	2.883	2.905	2.837	3.020	2.356
162.0	2.791	2.768	2.905	2.883	2.860	2.951	2.196
162.5	2.951	2.997	2.791	2.905	2.883	3.020	2.311
163.0	2.883	2.951	2.997	2.905	2.951	2.997	2.311
163.5	2.974	2.814	2.951	3.066	3.066	3.043	2.333
164.0	2.883	2.883	3.180	2.997	3.043	3.088	2.425
164.5	2.974	2.974	3.020	3.157	3.066	3.134	2.516
165.0	2.974	2.974	2.974	2.997	3.180	3.066	2.654
165.5	3.088	2.905	3.066	3.111	3.088	3.157	2.448
166.0	3.043	3.134	2.974	3.249	3.111	3.066	2.425
166.5	2.951	3.111	3.088	3.157	3.134	3.088	2.745
167.0	3.134	3.088	3.157	3.043	3.180	3.088	2.585
167.5	3.203	3.066	2.974	3.180	3.088	3.134	2.654
168.0	3.088	3.157	3.157	3.249	3.317	3.180	2.677
168.5	3.294	2.997	3.020	3.203	3.157	3.066	2.768
169.0	3.043	3.294	3.180	3.226	3.249	3.271	2.745
169.5	3.180	3.157	3.203	3.340	3.203	3.294	2.837
170.0	3.157	3.157	3.180	3.317	3.271	3.271	2.860
170.5	3.249	3.180	3.317	3.134	3.271	3.386	2.860
171.0	3.111	3.180	3.203	3.271	3.340	3.157	2.951
171.5	3.271	3.203	3.249	3.111	3.180	3.088	2.905
172.0	3.157	3.157	3.226	3.203	3.249	3.271	2.974
172.5	3.203	3.088	3.180	3.226	3.203	3.249	2.791
173.0	3.020	3.271	3.134	3.157	3.409	3.180	2.951
173.5	3.203	3.249	3.271	3.249	3.340	3.294	3.088
174.0	3.157	3.226	3.249	3.432	3.340	3.363	2.951
174.5	3.226	3.203	3.226	3.271	3.294	3.249	3.226
175.0	3.088	3.157	3.317	3.249	3.317	3.203	3.157
175.5	3.157	3.294	3.249	3.134	3.409	3.226	3.066
176.0	3.294	3.249	3.271	3.340	3.294	3.226	3.043
176.5	3.226	3.134	3.203	3.249	3.249	3.294	2.997
177.0	3.180	3.317	3.226	3.134	3.294	3.249	2.997
177.5	3.180	3.180	3.226	3.180	3.249	3.363	3.157
178.0	3.317	3.203	3.294	3.180	3.340	3.226	2.997
178.5	3.271	3.157	3.203	3.134	3.363	3.226	3.066
179.0	3.180	3.203	3.203	3.180	3.409	3.226	3.066
179.5	3.134	3.180	3.066	3.134	3.271	3.134	3.203
180.0	3.166	3.166	3.166	3.166	3.166	3.166	3.166

POLAR GRAPH



Maximum Candela = 12469.529 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)



IES INDOOR REPORT

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DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] RADIANT ZEMAX
[TESTDATE] 20170928
[ISSUE DATE] 2017-09-28 12:57:43
[MANUFAC] Larson Electronics LLC
[LUMCAT] EPL-HB-100LED-RT-125DB
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED FIXTURE - 125 DEGREE BEAM
[LAMP] LED
[LAMPPOSITION] 0,0
[OTHER] ZVISION 9107GT SYSTEM

CHARACTERISTICS

Lumens Per Lamp	13882.5 (1 lamp)
Total Lamp Lumens	13882.5
Luminaire Lumens	13876
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	98.66
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.10 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.10 m



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	283345	214925	255844
55	112155	72272	88837
65	42654	30542	38766
75	17278	11123	14896
85	217	70	170

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CANDELA TABULATION

	<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	6748.076	6748.076	6748.076	6748.076	6748.076	6748.076	6748.076	6748.076	6748.076	6748.076
0.5	6816.891	6792.674	6767.259	6751.048	6732.397	6719.068	6704.543	6691.458	6818.598	6794.381
1.0	6815.183	6791.698	6764.598	6748.852	6729.492	6717.627	6702.857	6690.992	6818.598	6794.625
1.5	6813.254	6789.059	6760.717	6746.191	6725.633	6715.210	6700.196	6690.505	6818.332	6794.137
2.0	6810.836	6786.619	6756.614	6741.844	6721.264	6712.792	6698.000	6689.551	6817.623	6793.405
2.5	6807.199	6783.248	6751.757	6737.741	6715.675	6709.377	6694.386	6687.622	6815.915	6791.232
3.0	6803.806	6778.170	6745.969	6732.397	6709.643	6704.543	6689.551	6685.182	6813.254	6788.815
3.5	6798.018	6773.557	6739.893	6726.320	6702.147	6699.464	6684.472	6682.033	6810.615	6786.131
4.0	6791.476	6767.747	6732.397	6720.288	6695.117	6694.142	6678.152	6678.152	6806.955	6782.517
4.5	6785.666	6760.961	6723.193	6712.526	6686.624	6687.355	6671.854	6674.049	6802.853	6778.170
5.0	6777.438	6754.418	6714.944	6703.833	6676.711	6680.813	6664.358	6668.483	6797.508	6773.313
5.5	6768.944	6745.237	6704.299	6695.117	6667.263	6672.364	6656.130	6662.406	6792.208	6767.747
6.0	6760.495	6736.743	6694.386	6684.206	6657.328	6662.185	6646.461	6655.155	6785.178	6761.227
6.5	6750.316	6727.562	6683.009	6674.293	6645.219	6653.447	6637.502	6648.368	6778.170	6754.906
7.0	6740.159	6715.941	6670.656	6662.185	6633.355	6643.046	6625.859	6640.141	6770.652	6746.679
7.5	6728.516	6704.543	6658.792	6650.564	6619.805	6630.693	6615.436	6630.228	6761.692	6738.939
8.0	6717.139	6692.922	6645.219	6637.724	6606.498	6619.095	6604.059	6621.024	6752.001	6729.004
8.5	6705.274	6679.616	6629.740	6623.930	6592.461	6605.279	6590.265	6611.089	6742.088	6719.068
9.0	6691.236	6666.775	6615.436	6610.601	6576.959	6592.682	6577.203	6598.981	6730.201	6708.667
9.5	6677.664	6652.981	6598.493	6595.831	6561.945	6579.376	6563.631	6587.604	6718.824	6695.583
10.0	6663.626	6636.992	6583.501	6579.864	6545.490	6563.631	6547.907	6574.275	6706.716	6683.962
10.5	6647.171	6622.244	6566.536	6564.606	6529.012	6549.105	6533.381	6561.479	6692.456	6670.412
11.0	6631.913	6605.035	6548.861	6545.956	6513.045	6532.405	6516.660	6547.419	6679.128	6657.328
11.5	6615.436	6588.580	6531.430	6529.500	6492.953	6516.904	6500.670	6531.430	6662.673	6642.802
12.0	6596.807	6572.346	6513.289	6511.825	6474.546	6500.205	6483.993	6516.438	6648.147	6626.591
12.5	6579.376	6552.742	6492.953	6492.221	6456.383	6481.066	6464.611	6500.936	6631.913	6611.089
13.0	6559.040	6535.067	6474.036	6472.617	6435.315	6463.391	6447.668	6482.774	6613.750	6594.878
13.5	6540.877	6517.148	6451.548	6454.431	6415.955	6445.472	6429.749	6466.540	6597.051	6576.471
14.0	6522.226	6496.324	6431.922	6432.654	6396.816	6424.648	6409.412	6447.180	6578.156	6559.040
14.5	6500.449	6475.766	6410.610	6412.805	6373.331	6405.531	6390.052	6429.993	6560.969	6541.365
15.0	6480.112	6456.627	6387.856	6392.935	6352.506	6383.488	6368.252	6411.586	6543.294	6521.273
15.5	6458.800	6433.873	6366.788	6369.228	6328.289	6363.883	6348.625	6391.493	6522.736	6502.622
16.0	6435.803	6413.049	6344.279	6347.672	6306.268	6343.081	6327.557	6371.645	6503.354	6481.066
16.5	6414.735	6388.832	6318.598	6323.211	6283.026	6319.108	6304.072	6352.041	6483.261	6460.508
17.0	6390.518	6366.300	6294.891	6299.969	6257.101	6296.576	6281.806	6329.265	6459.776	6439.684
17.5	6367.764	6344.035	6268.012	6276.018	6232.662	6273.823	6259.053	6308.441	6438.708	6415.688
18.0	6344.279	6318.132	6242.842	6249.384	6206.982	6247.188	6232.662	6283.980	6414.003	6393.911
18.5	6317.888	6295.135	6217.649	6224.901	6177.708	6223.215	6208.689	6261.958	6391.981	6371.157
19.0	6293.915	6267.525	6188.575	6199.264	6151.562	6198.266	6180.347	6238.473	6369.228	6345.232
19.5	6266.327	6242.110	6160.987	6169.480	6120.558	6169.702	6154.445	6213.058	6343.081	6321.991
20.0	6241.134	6217.405	6133.887	6142.336	6091.750	6142.846	6127.588	6188.353	6317.888	6295.135
20.5	6214.522	6187.621	6101.686	6110.623	6062.433	6112.552	6097.317	6160.743	6292.961	6270.430
21.0	6184.472	6159.789	6072.124	6081.571	6028.568	6084.232	6068.997	6134.108	6264.642	6244.283
21.5	6156.152	6130.959	6037.750	6052.054	5997.099	6054.715	6039.457	6107.718	6237.275	6214.987
22.0	6126.613	6097.805	6005.083	6016.926	5964.145	6021.051	6005.327	6077.225	6206.028	6187.377
22.5	6092.948	6067.533	5971.906	5985.213	5925.645	5989.338	5973.614	6048.417	6177.930	6159.545
23.0	6061.235	6031.962	5933.895	5951.326	5889.586	5957.115	5940.171	6018.389	6147.925	6126.856
23.5	6029.300	5999.517	5897.570	5912.805	5853.038	5918.882	5901.694	5984.991	6113.772	6096.607
24.0	5992.487	5966.340	5861.266	5876.258	5811.878	5883.775	5866.101	5953.500	6082.303	6065.116
24.5	5959.066	5926.643	5819.130	5839.466	5773.357	5842.859	5825.672	5920.079	6048.639	6029.766
25.0	5918.638	5890.783	5780.387	5797.818	5730.733	5806.045	5787.883	5882.556	6011.359	5997.565
25.5	5881.358	5853.260	5741.422	5758.609	5691.524	5768.278	5748.918	5846.740	5976.985	5959.798
26.0	5842.127	5810.414	5696.381	5714.277	5651.561	5724.945	5705.828	5810.170	5936.557	5923.494
26.5	5798.062	5770.208	5655.930	5674.093	5605.810	5685.470	5666.353	5767.546	5898.545	5886.681

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CANDELA TABULATION - (Cont.)

27.0	5758.609	5726.164	5609.691	5633.177	5564.894	5644.797	5624.949	5729.047	5859.558	5844.789
27.5	5717.914	5685.226	5567.577	5586.916	5523.734	5599.024	5579.908	5685.470	5815.249	5805.558
28.0	5671.432	5643.600	5525.907	5546.021	5477.251	5556.910	5538.259	5645.529	5775.286	5761.758
28.5	5629.806	5597.827	5479.180	5503.885	5435.359	5515.262	5491.045	5604.590	5735.124	5721.795
29.0	5583.789	5555.469	5436.334	5456.671	5389.364	5468.779	5449.397	5559.084	5688.885	5680.391
29.5	5541.165	5512.845	5394.930	5415.266	5347.715	5427.131	5407.283	5517.679	5646.993	5635.350
30.0	5497.831	5465.652	5347.959	5369.249	5307.531	5380.404	5361.266	5475.565	5600.244	5593.724
30.5	5450.128	5423.250	5306.799	5328.089	5263.465	5338.268	5319.396	5428.107	5557.154	5551.322
31.0	5407.283	5375.791	5262.246	5287.660	5224.966	5297.352	5277.969	5385.483	5514.042	5503.153
31.5	5359.580	5333.677	5223.503	5242.885	5186.711	5251.357	5233.438	5338.046	5465.142	5459.332
32.0	5317.444	5292.517	5184.050	5202.457	5144.109	5212.126	5194.229	5296.376	5422.296	5411.141
32.5	5275.818	5247.720	5140.960	5163.935	5107.052	5168.792	5151.827	5255.726	5374.838	5368.540
33.0	5231.730	5208.245	5103.437	5122.066	5069.772	5130.293	5113.594	5210.440	5332.480	5325.672
33.5	5192.987	5169.502	5066.158	5084.520	5028.612	5092.526	5076.802	5170.234	5291.297	5278.967
34.0	5154.754	5126.656	5024.731	5047.972	4992.286	5051.853	5035.864	5131.757	5247.232	5238.272
34.5	5112.396	5089.377	4987.696	5007.300	4952.080	5014.796	4999.782	5090.330	5208.245	5198.332
35.0	5075.095	5051.366	4949.684	4970.753	4915.066	4977.295	4962.991	5053.317	5169.502	5155.974
35.5	5037.328	5009.229	4907.548	4929.326	4877.787	4936.356	4922.806	5016.038	5127.144	5116.743
36.0	4996.167	4971.706	4869.781	4892.047	4837.580	4899.077	4885.748	4974.611	5089.621	5079.220
36.5	4957.912	4929.326	4827.157	4854.523	4800.035	4861.553	4844.610	4936.844	5051.366	5036.840
37.0	4916.264	4891.803	4789.390	4813.119	4762.755	4820.127	4807.797	4896.172	5009.229	4999.538
37.5	4878.253	4853.792	4750.181	4774.132	4717.980	4783.114	4771.005	4859.380	4971.462	4957.424
38.0	4841.195	4810.702	4702.723	4734.435	4674.380	4746.788	4729.845	4823.054	4930.324	4919.635
38.5	4799.081	4772.447	4657.681	4686.001	4627.920	4703.676	4692.565	4782.382	4893.000	4881.890
39.0	4760.582	4729.845	4610.467	4640.716	4574.385	4663.004	4653.556	4746.522	4855.987	4839.998
39.5	4722.571	4688.906	4555.002	4587.225	4524.021	4614.104	4608.271	4709.974	4814.827	4802.718
40.0	4678.727	4645.573	4502.487	4537.593	4465.186	4568.574	4564.472	4668.570	4778.013	4765.904
40.5	4637.589	4593.523	4439.771	4483.349	4409.522	4519.186	4512.423	4631.069	4736.853	4724.012
41.0	4587.225	4542.938	4380.692	4419.923	4347.759	4461.571	4460.351	4587.957	4699.329	4686.001
41.5	4538.325	4488.937	4316.290	4357.938	4272.468	4405.641	4405.375	4546.553	4660.586	4642.446
42.0	4485.056	4424.513	4237.362	4292.561	4198.863	4346.318	4339.310	4501.268	4616.277	4603.437
42.5	4420.167	4361.331	4160.852	4214.121	4109.047	4275.618	4274.664	4446.557	4575.361	4563.740
43.0	4355.765	4292.561	4077.334	4135.437	4023.577	4207.091	4205.162	4393.532	4531.051	4516.769
43.5	4286.263	4211.460	3978.558	4039.788	3932.785	4132.022	4118.960	4336.870	4477.050	4471.262
44.0	4200.083	4132.754	3883.153	3948.264	3825.515	4040.055	4036.395	4267.856	4422.340	4420.898
44.5	4112.418	4037.615	3773.222	3851.174	3724.300	3952.877	3939.083	4199.839	4352.616	4358.914
45.0	4008.807	3945.115	3670.565	3739.558	3619.714	3848.291	3843.678	4115.345	4281.428	4295.488
45.5	3910.741	3845.386	3563.296	3635.459	3498.184	3750.469	3744.414	4033.246	4204.940	4216.538
46.0	3809.060	3728.691	3439.571	3526.260	3385.836	3646.592	3630.602	3945.115	4112.196	4136.635
46.5	3690.901	3619.492	3323.852	3399.630	3257.277	3527.702	3522.623	3840.773	4024.287	4050.456
47.0	3580.017	3507.875	3192.631	3284.643	3139.362	3415.376	3411.007	3741.265	3930.124	3949.484
47.5	3464.276	3379.316	3073.009	3154.841	3018.786	3287.526	3283.911	3637.876	3818.019	3853.125
48.0	3333.299	3263.309	2951.945	3036.705	2883.418	3171.563	3167.460	3518.276	3713.433	3751.666
48.5	3214.431	3131.866	2814.914	2916.617	2761.157	3053.404	3034.997	3406.638	3604.700	3632.554
49.0	3080.283	3011.756	2692.409	2783.689	2638.430	2922.671	2914.444	3280.762	3480.243	3520.450
49.5	2957.046	2889.251	2568.928	2662.137	2503.550	2802.584	2793.602	3165.021	3365.012	3406.172
50.0	2833.321	2751.244	2430.433	2524.618	2381.045	2680.788	2658.278	3046.374	3234.035	3278.810
50.5	2695.780	2627.031	2308.394	2399.940	2259.493	2542.781	2534.775	2910.053	3113.947	3160.186
51.0	2571.101	2503.550	2174.024	2276.459	2124.392	2418.080	2411.782	2792.892	2977.138	3024.596
51.5	2443.983	2366.763	2052.982	2139.649	2004.060	2280.805	2274.995	2656.349	2851.484	2900.384
52.0	2303.803	2244.014	1933.382	2019.806	1873.571	2159.032	2151.514	2534.310	2725.829	2775.461
52.5	2179.834	2108.646	1802.627	1903.088	1759.050	2040.386	2030.694	2412.514	2587.579	2634.793
53.0	2057.107	1988.580	1688.815	1777.434	1646.457	1910.363	1898.520	2275.239	2463.366	2507.919
53.5	1922.959	1870.644	1578.197	1667.038	1522.511	1794.156	1782.047	2154.419	2337.711	2380.557
54.0	1803.115	1744.501	1460.748	1547.194	1417.658	1681.319	1655.661	2035.041	2197.509	2241.087
54.5	1674.068	1634.127	1358.823	1443.073	1322.253	1560.256	1544.044	1903.355	2073.562	2116.896

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55.0	1562.673	1513.773	1252.307	1342.833	1237.781	1454.938	1437.263	1787.857	1939.170	1981.062
55.5	1455.426	1408.455	1205.802	1238.735	1133.617	1343.321	1323.717	1660.983	1820.546	1859.045
56.0	1339.928	1307.240	1076.555	1150.116	1044.532	1249.158	1243.326	1548.879	1702.388	1739.667
56.5	1250.112	1201.456	992.239	1068.039	971.570	1159.564	1134.881	1440.168	1573.096	1609.644
57.0	1133.816	1112.837	924.333	991.529	907.523	1066.088	1042.425	1324.671	1459.284	1495.144
57.5	1050.187	1031.226	864.034	915.352	846.049	997.827	967.556	1227.358	1350.817	1383.262
58.0	974.320	932.472	806.241	853.434	795.995	919.277	894.461	1135.346	1241.152	1265.835
58.5	898.408	889.028	762.043	802.405	752.351	857.891	836.801	1040.917	1146.967	1210.415
59.0	840.083	836.069	720.394	758.827	712.810	807.217	787.679	939.746	1048.413	1077.221
59.5	792.625	784.996	689.236	718.354	685.266	758.805	742.239	900.271	944.958	987.271
60.0	748.204	744.811	665.839	688.238	660.561	721.880	708.973	835.027	906.703	915.108
60.5	713.653	707.731	647.410	662.868	643.130	691.720	680.897	785.595	839.817	844.230
61.0	688.016	683.226	633.860	645.658	628.338	665.263	655.283	741.751	787.236	790.052
61.5	669.853	665.728	620.820	631.022	613.834	647.477	637.763	709.727	743.924	745.654
62.0	656.702	651.114	606.538	616.828	601.127	633.505	622.949	682.938	715.116	708.951
62.5	641.999	638.384	593.543	604.210	587.799	619.002	609.931	658.521	691.742	685.555
63.0	628.205	624.923	578.706	591.103	572.341	606.250	596.270	641.666	670.851	667.946
63.5	613.679	609.754	564.735	576.333	558.170	593.077	581.101	628.183	656.458	652.289
64.0	597.468	596.270	549.765	562.207	542.403	577.863	567.263	613.923	642.975	639.205
64.5	582.432	580.325	534.286	548.080	528.941	563.870	553.291	600.484	627.163	624.435
65.0	567.086	565.311	520.758	532.822	515.391	548.413	537.879	585.625	612.016	610.264
65.5	550.054	550.497	507.141	519.693	500.289	535.284	524.528	569.481	595.738	595.028
66.0	534.862	534.463	491.706	504.724	486.206	522.000	510.002	554.955	580.325	577.753
66.5	517.720	520.093	477.269	490.886	471.769	507.164	496.474	539.542	564.535	563.005
67.0	501.752	505.434	462.366	476.604	455.558	493.392	482.592	526.125	548.390	548.368
67.5	485.497	488.779	445.090	460.326	440.234	479.332	466.779	512.508	534.086	531.181
68.0	467.556	472.834	428.990	445.490	423.024	463.165	451.899	497.206	519.472	516.145
68.5	450.945	454.626	410.450	430.254	407.035	448.151	436.419	482.880	502.573	501.043
69.0	431.984	437.883	393.174	412.668	390.380	430.831	418.833	466.624	486.716	483.390
69.5	414.176	421.272	375.743	396.168	371.685	414.686	402.733	451.145	468.709	467.090
70.0	396.279	401.823	356.205	377.584	354.808	398.364	384.259	434.978	452.320	448.572
70.5	376.409	383.705	338.575	360.885	337.976	379.912	367.449	416.460	435.399	431.296
71.0	358.379	365.719	320.944	344.230	319.480	363.102	350.395	399.384	415.373	413.267
71.5	340.349	346.071	301.650	326.000	302.426	344.341	331.035	381.798	397.166	392.642
72.0	320.101	328.462	284.330	309.412	282.889	327.331	313.803	361.994	378.959	374.013
72.5	302.005	309.124	265.036	292.535	265.302	310.388	296.527	344.540	358.911	355.562
73.0	283.997	291.560	248.093	273.685	248.537	291.737	277.389	327.508	341.192	335.226
73.5	264.482	273.951	231.239	256.742	230.595	274.772	260.246	308.769	323.539	317.329
74.0	247.228	255.012	212.787	238.335	215.005	257.917	241.839	291.671	303.424	296.771
74.5	228.311	238.601	196.465	222.057	199.548	239.732	225.118	272.155	285.594	277.899
75.0	211.701	222.434	180.808	206.245	182.516	223.965	208.352	254.813	265.945	259.381
75.5	195.534	204.227	163.710	188.681	167.458	208.507	189.990	238.091	248.581	239.444
76.0	178.347	188.548	147.388	172.669	152.777	190.877	174.288	220.350	231.549	221.658
76.5	163.422	173.446	129.868	156.680	136.920	174.931	158.831	204.826	213.342	204.072
77.0	148.652	157.345	121.640	139.781	125.543	157.567	140.757	189.346	197.463	184.844
77.5	132.529	143.307	101.792	125.699	108.733	142.354	126.985	172.558	182.095	168.123
78.0	123.193	127.761	88.020	110.086	96.159	128.094	111.040	158.166	165.839	152.289
78.5	103.477	113.701	75.778	96.669	83.740	112.481	96.957	142.309	151.424	135.878
79.0	91.036	100.306	64.823	80.413	70.234	98.488	84.915	128.471	135.390	124.634
79.5	79.216	81.655	54.067	72.518	58.702	82.032	72.053	114.788	121.263	104.608
80.0	66.309	75.579	45.330	62.117	48.257	73.827	61.585	99.730	108.068	91.125
80.5	55.176	64.867	37.789	52.493	37.656	63.404	52.382	82.343	94.052	79.016
81.0	43.955	53.291	30.715	42.846	29.007	52.648	43.112	76.377	79.349	66.996
81.5	34.596	43.201	24.882	34.884	21.024	43.578	35.904	64.956	68.748	57.216
82.0	26.124	33.487	18.318	27.876	15.679	35.239	30.050	55.243	57.527	48.634
82.5	18.584	26.213	12.242	20.913	11.953	27.455	23.685	44.953	47.348	39.630

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83.0	13.550	19.959	9.070	15.568	9.470	21.467	17.675	36.281	37.035	31.713
83.5	9.935	14.415	4.369	10.556	6.675	15.812	11.133	28.852	28.919	24.284
84.0	6.986	10.268	2.661	6.343	4.147	11.377	8.361	21.999	22.310	18.252
84.5	4.369	5.699	1.619	4.591	2.639	6.830	4.413	16.699	16.832	12.486
85.0	2.351	3.881	1.042	3.726	1.841	4.990	2.617	12.109	12.685	8.826
85.5	1.464	3.349	0.599	3.216	1.175	3.792	1.952	7.008	9.381	4.901
86.0	1.020	2.595	0.266	2.417	0.599	3.016	1.175	4.923	5.456	3.016
86.5	0.510	2.040	0.089	1.730	0.177	2.439	0.466	3.748	4.036	1.708
87.0	0.244	1.597	0.000	0.976	0.000	1.708	0.200	2.950	3.193	0.887
87.5	0.000	0.976	0.000	0.732	0.000	1.042	0.022	2.351	2.484	0.466
88.0	0.000	0.599	0.000	0.577	0.000	0.643	0.000	1.552	1.863	0.200
88.5	0.000	0.599	0.000	0.510	0.000	0.599	0.000	1.042	1.153	0.022
89.0	0.000	0.421	0.000	0.532	0.000	0.621	0.000	0.798	0.710	0.022
89.5	0.000	0.554	0.000	0.488	0.000	0.554	0.000	0.599	0.732	0.000
90.0	0.000	0.532	0.000	0.421	0.000	0.377	0.000	0.532	0.577	0.000
90.5	0.000	0.444	0.000	0.421	0.000	0.444	0.000	0.444	0.643	0.000
91.0	0.000	0.355	0.000	0.377	0.044	0.355	0.000	0.444	0.421	0.000
91.5	0.000	0.466	0.000	0.288	0.000	0.355	0.000	0.421	0.510	0.000
92.0	0.000	0.333	0.000	0.355	0.000	0.333	0.022	0.355	0.444	0.000
92.5	0.000	0.288	0.000	0.266	0.000	0.244	0.000	0.355	0.444	0.000
93.0	0.000	0.200	0.000	0.333	0.000	0.310	0.000	0.333	0.333	0.000
93.5	0.000	0.288	0.000	0.222	0.000	0.288	0.000	0.288	0.466	0.000
94.0	0.000	0.222	0.000	0.244	0.000	0.266	0.000	0.444	0.310	0.000
94.5	0.000	0.222	0.000	0.155	0.000	0.244	0.000	0.288	0.421	0.000
95.0	0.000	0.155	0.000	0.200	0.000	0.333	0.000	0.155	0.310	0.022
95.5	0.000	0.155	0.000	0.222	0.000	0.200	0.000	0.222	0.266	0.000
96.0	0.000	0.177	0.000	0.244	0.000	0.222	0.000	0.266	0.288	0.000
96.5	0.000	0.200	0.000	0.177	0.000	0.155	0.000	0.244	0.222	0.000
97.0	0.000	0.177	0.000	0.155	0.022	0.222	0.000	0.155	0.222	0.000
97.5	0.000	0.133	0.000	0.177	0.000	0.222	0.000	0.111	0.222	0.000
98.0	0.000	0.177	0.000	0.200	0.000	0.133	0.000	0.266	0.266	0.000
98.5	0.000	0.111	0.000	0.111	0.000	0.222	0.000	0.244	0.310	0.022
99.0	0.000	0.177	0.000	0.111	0.000	0.133	0.000	0.155	0.200	0.000
99.5	0.000	0.133	0.000	0.133	0.000	0.200	0.000	0.177	0.222	0.000
100.0	0.000	0.133	0.000	0.067	0.000	0.155	0.000	0.089	0.177	0.000
100.5	0.000	0.111	0.000	0.133	0.000	0.177	0.000	0.177	0.244	0.044
101.0	0.000	0.111	0.000	0.133	0.000	0.177	0.000	0.155	0.222	0.000
101.5	0.000	0.155	0.000	0.044	0.000	0.155	0.000	0.177	0.200	0.022
102.0	0.000	0.244	0.000	0.111	0.000	0.222	0.000	0.089	0.222	0.000
102.5	0.000	0.089	0.000	0.044	0.000	0.155	0.000	0.089	0.177	0.000
103.0	0.000	0.177	0.000	0.133	0.000	0.089	0.000	0.111	0.244	0.000
103.5	0.000	0.177	0.000	0.111	0.000	0.155	0.000	0.044	0.177	0.000
104.0	0.000	0.155	0.000	0.133	0.000	0.177	0.000	0.067	0.244	0.000
104.5	0.000	0.111	0.000	0.177	0.000	0.067	0.000	0.111	0.133	0.000
105.0	0.000	0.111	0.000	0.067	0.000	0.111	0.000	0.133	0.266	0.044
105.5	0.000	0.133	0.000	0.155	0.000	0.133	0.000	0.133	0.177	0.000
106.0	0.000	0.111	0.000	0.133	0.000	0.133	0.000	0.133	0.266	0.044
106.5	0.000	0.067	0.000	0.111	0.000	0.111	0.000	0.067	0.244	0.044
107.0	0.000	0.089	0.000	0.177	0.000	0.133	0.000	0.133	0.177	0.000
107.5	0.000	0.089	0.000	0.155	0.000	0.155	0.022	0.155	0.266	0.000
108.0	0.000	0.177	0.000	0.155	0.000	0.133	0.000	0.133	0.266	0.022
108.5	0.000	0.089	0.000	0.111	0.000	0.177	0.000	0.155	0.222	0.044
109.0	0.000	0.244	0.000	0.155	0.067	0.177	0.000	0.133	0.244	0.022
109.5	0.000	0.155	0.000	0.089	0.067	0.177	0.000	0.133	0.222	0.089
110.0	0.000	0.177	0.067	0.155	0.000	0.111	0.022	0.133	0.288	0.044
110.5	0.022	0.177	0.000	0.177	0.022	0.177	0.000	0.200	0.266	0.067

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111.0	0.022	0.222	0.000	0.244	0.067	0.266	0.000	0.155	0.355	0.044
111.5	0.000	0.177	0.067	0.111	0.000	0.177	0.067	0.133	0.310	0.022
112.0	0.022	0.177	0.044	0.155	0.000	0.111	0.022	0.177	0.266	0.155
112.5	0.000	0.133	0.044	0.177	0.000	0.177	0.000	0.200	0.310	0.133
113.0	0.067	0.200	0.000	0.288	0.067	0.089	0.000	0.222	0.288	0.089
113.5	0.044	0.177	0.067	0.266	0.022	0.177	0.089	0.111	0.333	0.089
114.0	0.000	0.177	0.067	0.155	0.067	0.200	0.044	0.155	0.333	0.133
114.5	0.022	0.200	0.067	0.244	0.067	0.155	0.022	0.111	0.333	0.177
115.0	0.067	0.155	0.089	0.244	0.067	0.244	0.111	0.133	0.333	0.111
115.5	0.022	0.222	0.000	0.222	0.022	0.222	0.022	0.155	0.421	0.155
116.0	0.067	0.244	0.044	0.200	0.000	0.222	0.044	0.155	0.333	0.155
116.5	0.089	0.222	0.089	0.177	0.067	0.200	0.067	0.177	0.355	0.155
117.0	0.044	0.200	0.089	0.177	0.133	0.177	0.111	0.177	0.466	0.111
117.5	0.067	0.177	0.067	0.244	0.067	0.200	0.067	0.177	0.466	0.200
118.0	0.133	0.200	0.089	0.244	0.089	0.222	0.133	0.177	0.466	0.200
118.5	0.089	0.310	0.089	0.222	0.067	0.288	0.067	0.177	0.444	0.222
119.0	0.067	0.288	0.044	0.244	0.133	0.177	0.067	0.155	0.421	0.155
119.5	0.089	0.200	0.155	0.355	0.089	0.222	0.133	0.222	0.554	0.177
120.0	0.089	0.310	0.133	0.333	0.177	0.333	0.133	0.310	0.466	0.222
120.5	0.155	0.266	0.222	0.333	0.089	0.266	0.155	0.222	0.444	0.244
121.0	0.133	0.288	0.089	0.222	0.111	0.288	0.089	0.288	0.466	0.222
121.5	0.133	0.244	0.177	0.244	0.155	0.266	0.111	0.355	0.643	0.244
122.0	0.222	0.244	0.177	0.377	0.177	0.288	0.177	0.244	0.665	0.333
122.5	0.155	0.355	0.155	0.288	0.177	0.355	0.222	0.355	0.577	0.310
123.0	0.266	0.333	0.222	0.310	0.177	0.222	0.200	0.355	0.687	0.310
123.5	0.266	0.377	0.133	0.532	0.222	0.288	0.177	0.288	0.643	0.377
124.0	0.266	0.421	0.244	0.333	0.266	0.355	0.200	0.333	0.599	0.466
124.5	0.222	0.355	0.200	0.377	0.222	0.333	0.177	0.310	0.599	0.421
125.0	0.244	0.377	0.266	0.488	0.244	0.355	0.155	0.355	0.687	0.355
125.5	0.266	0.510	0.244	0.599	0.266	0.355	0.244	0.310	0.643	0.444
126.0	0.288	0.488	0.310	0.377	0.266	0.510	0.222	0.288	0.710	0.444
126.5	0.288	0.421	0.288	0.355	0.155	0.288	0.222	0.466	0.710	0.466
127.0	0.288	0.466	0.310	0.355	0.421	0.444	0.266	0.333	0.710	0.421
127.5	0.333	0.444	0.288	0.510	0.222	0.444	0.244	0.421	0.754	0.577
128.0	0.266	0.466	0.421	0.377	0.355	0.488	0.333	0.532	0.865	0.554
128.5	0.333	0.599	0.488	0.510	0.444	0.488	0.444	0.577	0.821	0.510
129.0	0.200	0.554	0.377	0.532	0.488	0.554	0.466	0.466	0.865	0.665
129.5	0.466	0.599	0.466	0.577	0.421	0.532	0.466	0.510	0.843	0.643
130.0	0.288	0.510	0.377	0.577	0.510	0.599	0.355	0.444	0.843	0.621
130.5	0.377	0.599	0.333	0.687	0.377	0.577	0.421	0.488	0.887	0.599
131.0	0.377	0.687	0.488	0.710	0.421	0.577	0.421	0.554	0.931	0.754
131.5	0.488	0.665	0.621	0.599	0.488	0.532	0.466	0.466	0.909	0.754
132.0	0.355	0.687	0.532	0.599	0.554	0.687	0.333	0.643	0.931	0.776
132.5	0.554	0.577	0.577	0.643	0.444	0.599	0.554	0.554	0.954	0.687
133.0	0.488	0.577	0.377	0.732	0.532	0.643	0.421	0.554	1.042	0.754
133.5	0.599	0.621	0.488	0.732	0.466	0.710	0.532	0.577	1.042	0.776
134.0	0.599	0.687	0.554	0.798	0.510	0.710	0.444	0.621	1.020	0.776
134.5	0.621	0.643	0.577	0.687	0.532	0.643	0.444	0.532	1.109	0.776
135.0	0.466	0.776	0.510	0.732	0.510	0.665	0.532	0.643	1.131	0.887
135.5	0.643	0.710	0.665	0.843	0.687	0.732	0.488	0.687	1.109	0.976
136.0	0.621	0.843	0.754	0.643	0.577	0.865	0.621	0.665	1.087	0.821
136.5	0.621	0.754	0.754	0.754	0.643	0.710	0.554	0.776	1.020	0.776
137.0	0.732	0.865	0.643	0.798	0.754	0.754	0.554	0.687	1.131	0.931
137.5	0.732	0.843	0.754	0.798	0.643	0.754	0.621	0.687	1.198	0.887
138.0	0.687	0.887	0.643	0.865	0.665	0.732	0.577	0.776	1.064	0.954
138.5	0.643	0.776	0.710	0.887	0.732	0.821	0.643	0.798	1.175	0.976

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139.0	0.665	0.954	0.665	0.931	0.643	0.776	0.687	0.665	1.087	1.087
139.5	0.798	0.954	0.710	0.954	0.843	0.865	0.710	0.843	1.375	1.042
140.0	0.821	0.954	0.754	0.887	0.821	0.887	0.754	0.821	1.175	1.042
140.5	0.687	0.931	0.843	0.954	0.665	0.776	0.754	0.821	1.264	0.998
141.0	0.776	0.931	0.776	0.931	0.732	0.776	0.643	0.776	1.242	1.131
141.5	0.798	0.931	0.798	1.064	0.821	0.798	0.732	0.754	1.397	1.087
142.0	0.776	0.976	0.843	0.998	0.843	0.909	0.776	0.865	1.375	1.198
142.5	0.843	0.976	0.865	0.954	0.865	0.976	0.798	0.887	1.264	1.153
143.0	0.931	0.931	0.865	0.976	0.931	1.042	0.821	0.931	1.375	1.264
143.5	0.865	0.954	0.954	1.042	0.931	0.998	0.843	0.887	1.353	1.242
144.0	0.865	1.087	0.998	0.976	0.887	1.109	0.821	0.843	1.486	1.375
144.5	0.931	1.131	0.976	0.998	0.976	0.931	0.887	0.887	1.375	1.308
145.0	0.976	1.153	0.887	1.153	1.020	1.042	0.843	0.887	1.464	1.286
145.5	1.042	1.064	0.954	1.131	1.131	0.998	0.931	0.954	1.552	1.331
146.0	1.087	1.131	1.020	1.109	1.153	1.064	0.843	0.976	1.464	1.464
146.5	0.976	1.242	0.954	1.131	1.064	1.042	0.931	1.020	1.641	1.308
147.0	1.131	1.264	1.064	1.175	0.998	1.087	1.042	0.909	1.619	1.308
147.5	1.131	1.331	1.153	1.242	1.087	1.109	0.954	1.131	1.530	1.441
148.0	1.042	1.353	1.109	1.286	1.042	1.087	0.909	1.264	1.641	1.486
148.5	1.131	1.286	1.198	1.242	1.087	1.242	1.109	1.264	1.685	1.419
149.0	1.042	1.264	1.264	1.198	1.242	1.198	1.198	1.153	1.685	1.464
149.5	1.242	1.331	1.175	1.286	1.198	1.198	1.175	1.131	1.685	1.441
150.0	1.131	1.353	1.175	1.375	1.198	1.286	1.064	1.242	1.619	1.486
150.5	1.286	1.441	1.175	1.308	1.264	1.264	1.131	1.131	1.663	1.619
151.0	1.286	1.508	1.353	1.441	1.286	1.331	1.153	1.264	1.641	1.597
151.5	1.353	1.397	1.419	1.441	1.331	1.441	1.198	1.198	1.663	1.441
152.0	1.441	1.486	1.286	1.353	1.397	1.397	1.198	1.198	1.730	1.708
152.5	1.530	1.508	1.441	1.486	1.464	1.331	1.419	1.131	1.708	1.663
153.0	1.286	1.464	1.486	1.419	1.375	1.419	1.331	1.419	1.796	1.663
153.5	1.508	1.552	1.397	1.552	1.308	1.441	1.375	1.331	1.619	1.597
154.0	1.419	1.552	1.508	1.486	1.419	1.441	1.242	1.308	1.907	1.685
154.5	1.419	1.464	1.419	1.530	1.397	1.508	1.286	1.419	1.863	1.685
155.0	1.486	1.641	1.464	1.530	1.419	1.508	1.419	1.464	1.819	1.708
155.5	1.597	1.530	1.575	1.597	1.552	1.508	1.419	1.419	1.907	1.730
156.0	1.708	1.619	1.575	1.530	1.530	1.597	1.464	1.397	1.907	1.885
156.5	1.597	1.641	1.575	1.752	1.486	1.530	1.464	1.508	1.929	1.708
157.0	1.530	1.641	1.619	1.619	1.552	1.641	1.441	1.441	1.929	1.796
157.5	1.641	1.641	1.552	1.464	1.508	1.708	1.441	1.552	1.730	1.974
158.0	1.641	1.885	1.508	1.619	1.752	1.597	1.441	1.575	1.929	1.752
158.5	1.575	1.641	1.663	1.752	1.685	1.597	1.397	1.552	1.841	1.774
159.0	1.575	1.819	1.619	1.708	1.552	1.641	1.397	1.575	1.885	1.774
159.5	1.708	1.708	1.685	1.796	1.597	1.685	1.641	1.708	2.040	1.752
160.0	1.575	1.730	1.708	1.708	1.597	1.708	1.508	1.730	2.040	1.863
160.5	1.508	1.663	1.708	1.752	1.663	1.730	1.597	1.597	2.107	1.863
161.0	1.819	1.774	1.774	1.730	1.730	1.752	1.530	1.508	1.863	1.974
161.5	1.841	1.752	1.796	1.708	1.685	1.641	1.597	1.730	1.974	1.885
162.0	1.708	1.929	1.863	1.796	1.619	1.841	1.641	1.619	2.040	1.885
162.5	1.730	1.774	1.885	1.730	1.641	1.752	1.752	1.597	2.085	1.907
163.0	1.796	1.907	1.774	1.841	1.819	1.752	1.819	1.752	2.151	1.885
163.5	1.841	1.819	1.819	1.708	1.685	1.819	1.685	1.708	1.974	1.952
164.0	1.752	1.952	1.796	1.819	1.819	1.841	1.685	1.752	1.974	1.952
164.5	1.863	1.907	1.685	1.796	1.752	1.796	1.685	1.708	1.974	1.929
165.0	1.885	1.996	1.841	1.774	1.663	1.752	1.774	1.708	2.129	1.863
165.5	1.863	1.974	1.752	2.040	1.819	1.774	1.663	1.819	2.151	2.085
166.0	1.819	1.929	1.974	1.929	1.774	1.796	1.730	1.863	1.974	1.996
166.5	1.885	1.863	1.929	1.929	1.819	1.796	1.819	1.774	2.062	2.040

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167.0	1.996	1.952	1.863	1.974	1.841	1.819	1.929	1.796	2.151	1.974
167.5	1.907	1.996	2.085	1.929	1.819	1.929	1.819	1.841	2.107	1.929
168.0	1.907	1.952	1.929	1.974	1.796	1.907	1.774	1.819	2.196	1.996
168.5	1.841	1.952	2.085	1.929	1.885	1.819	1.885	1.819	2.151	2.196
169.0	1.885	1.974	1.885	1.907	1.929	1.863	1.819	1.819	2.040	1.952
169.5	2.040	2.040	1.996	2.107	1.929	2.040	1.708	1.885	2.173	2.062
170.0	1.841	1.952	1.885	1.929	1.863	1.796	1.929	1.907	2.173	1.974
170.5	2.040	1.974	1.974	1.974	1.885	1.974	1.907	1.863	2.107	1.996
171.0	1.929	2.151	1.952	1.929	1.996	1.929	1.819	1.952	2.062	2.062
171.5	1.952	2.129	1.996	1.952	1.952	1.885	1.796	1.863	2.284	2.151
172.0	1.974	2.040	1.974	1.996	1.907	1.996	1.996	1.863	2.129	2.085
172.5	2.085	1.952	1.952	1.952	1.996	2.085	1.974	1.841	2.062	2.040
173.0	1.974	2.151	1.907	2.085	1.996	2.040	2.107	1.885	2.196	2.107
173.5	1.974	2.129	1.929	1.974	2.040	1.841	1.885	1.819	2.040	2.085
174.0	1.907	2.062	1.974	2.040	1.885	1.929	1.974	1.907	2.040	2.284
174.5	2.040	2.085	1.952	2.062	1.952	1.974	1.996	1.885	2.151	2.173
175.0	2.062	1.929	2.062	2.040	1.952	1.974	1.952	1.907	2.107	1.907
175.5	1.841	2.062	1.996	2.062	1.952	2.151	1.819	1.907	2.062	2.107
176.0	1.929	1.996	1.907	1.907	2.062	2.062	1.841	1.929	2.040	2.040
176.5	2.040	2.129	2.040	2.151	1.996	1.996	2.040	2.062	2.284	2.173
177.0	1.974	2.129	1.929	1.907	1.974	2.062	1.929	1.996	2.085	1.996
177.5	1.907	2.129	2.040	2.062	1.974	1.841	1.907	2.062	2.196	1.974
178.0	1.952	2.107	2.107	2.107	1.929	1.952	1.841	1.996	2.062	1.974
178.5	1.974	2.151	2.062	2.062	1.974	1.929	1.952	1.819	2.107	2.107
179.0	1.974	2.173	2.107	2.062	1.863	1.885	1.929	1.996	2.151	2.062
179.5	1.996	1.974	2.129	1.974	2.062	1.974	1.974	1.907	2.129	2.062
180.0	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031

**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	6748.076	6748.076	6748.076	6748.076	6748.076	6748.076	6748.076
0.5	6770.896	6754.418	6735.790	6720.288	6705.762	6690.749	6816.891
1.0	6771.872	6755.394	6737.010	6720.776	6706.006	6689.041	6815.183
1.5	6773.069	6755.150	6737.475	6719.556	6705.518	6687.355	6813.254
2.0	6773.069	6754.906	6737.963	6719.556	6704.543	6685.182	6810.836
2.5	6773.313	6753.687	6737.963	6718.359	6703.101	6682.521	6807.199
3.0	6771.872	6752.245	6737.010	6715.941	6701.416	6679.128	6803.806
3.5	6770.164	6750.072	6735.546	6713.524	6699.220	6673.561	6798.018
4.0	6767.747	6747.388	6733.350	6709.643	6695.583	6668.705	6791.476
4.5	6764.842	6743.286	6730.933	6706.006	6691.458	6662.917	6785.666
5.0	6761.692	6739.671	6727.318	6701.416	6687.355	6656.130	6777.438
5.5	6757.080	6735.302	6723.903	6695.339	6681.789	6649.344	6768.944
6.0	6752.733	6730.201	6718.824	6688.819	6675.735	6641.605	6760.495
6.5	6747.167	6724.413	6713.258	6681.323	6669.437	6632.157	6750.316
7.0	6740.624	6717.627	6707.692	6674.049	6661.675	6622.710	6740.159
7.5	6734.082	6709.643	6701.149	6665.556	6653.447	6613.018	6728.516
8.0	6726.586	6700.418	6693.410	6656.596	6644.266	6601.420	6717.139
8.5	6717.627	6691.236	6684.694	6647.171	6634.353	6590.021	6705.274
9.0	6709.155	6681.789	6674.781	6636.504	6624.395	6576.693	6691.236
9.5	6698.488	6670.412	6666.066	6624.173	6612.553	6563.631	6677.664
10.0	6687.843	6659.280	6653.957	6613.018	6601.176	6549.593	6663.626
10.5	6676.711	6645.729	6643.046	6598.759	6586.872	6533.603	6647.171
11.0	6663.138	6633.355	6631.204	6584.943	6573.078	6518.855	6631.913
11.5	6650.298	6619.317	6616.899	6570.661	6559.040	6503.110	6615.436
12.0	6636.992	6604.569	6604.059	6554.449	6543.073	6484.947	6596.807

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12.5	6621.734	6589.533	6589.799	6539.192	6527.815	6467.516	6579.376
13.0	6606.986	6574.542	6573.566	6523.446	6511.581	6447.668	6559.040
13.5	6590.021	6556.867	6558.308	6504.817	6493.418	6429.993	6540.877
14.0	6574.275	6540.633	6542.097	6488.096	6476.475	6411.586	6522.226
14.5	6557.820	6522.004	6524.156	6467.272	6457.359	6390.052	6500.449
15.0	6538.682	6504.086	6506.747	6449.131	6438.952	6371.157	6480.112
15.5	6521.273	6485.679	6486.411	6430.480	6419.813	6350.577	6458.800
16.0	6502.866	6465.343	6468.957	6409.168	6398.501	6327.336	6435.803
16.5	6482.042	6445.716	6450.085	6389.320	6378.409	6306.024	6414.735
17.0	6461.927	6423.694	6428.529	6368.718	6357.585	6281.806	6390.518
17.5	6439.174	6403.114	6408.193	6345.232	6333.856	6258.809	6367.764
18.0	6418.128	6382.290	6385.195	6323.943	6312.300	6236.543	6344.279
18.5	6397.548	6357.851	6364.859	6299.725	6289.812	6209.665	6317.888
19.0	6373.575	6335.075	6342.815	6276.240	6264.375	6185.936	6293.915
19.5	6351.043	6312.810	6319.108	6252.755	6241.622	6161.475	6266.327
20.0	6327.557	6286.663	6296.355	6226.852	6215.941	6133.643	6241.134
20.5	6301.655	6261.958	6273.335	6202.413	6191.502	6107.718	6214.522
21.0	6277.438	6238.007	6247.188	6176.511	6166.819	6081.106	6184.472
21.5	6249.384	6209.421	6222.239	6146.949	6137.768	6050.834	6156.152
22.0	6224.435	6183.031	6194.163	6120.093	6111.599	6022.270	6126.613
22.5	6198.532	6153.003	6168.261	6088.601	6084.720	5990.557	6092.948
23.0	6168.749	6124.661	6141.382	6060.281	6053.739	5960.508	6061.235
23.5	6141.138	6095.875	6110.867	6030.986	6025.419	5928.573	6029.300
24.0	6112.552	6062.943	6083.523	5998.053	5992.708	5892.247	5992.487
24.5	6078.910	6032.183	6054.715	5966.806	5961.971	5858.826	5959.066
25.0	6047.685	6001.446	6021.782	5935.581	5929.770	5824.208	5918.638
25.5	6013.045	5965.852	5991.999	5898.301	5893.711	5784.977	5881.358
26.0	5981.332	5932.432	5960.286	5864.415	5859.558	5747.698	5842.127
26.5	5947.689	5893.933	5923.494	5829.043	5824.208	5705.096	5798.062
27.0	5908.946	5858.583	5889.586	5788.393	5784.733	5666.087	5758.609
27.5	5872.643	5821.547	5849.889	5751.579	5747.454	5626.146	5717.914
28.0	5835.097	5779.899	5814.029	5708.245	5709.931	5581.615	5671.432
28.5	5792.495	5741.888	5777.482	5668.770	5666.819	5541.409	5629.806
29.0	5753.508	5702.679	5735.833	5628.586	5627.344	5500.248	5583.789
29.5	5710.907	5659.079	5697.578	5584.033	5583.057	5452.812	5541.165
30.0	5669.746	5618.407	5658.591	5542.872	5541.409	5410.676	5497.831
30.5	5628.808	5577.269	5613.328	5496.389	5499.272	5363.683	5450.128
31.0	5583.057	5531.495	5572.168	5454.741	5452.546	5320.837	5407.283
31.5	5540.211	5489.115	5525.197	5412.117	5409.212	5278.235	5359.580
32.0	5496.633	5442.145	5482.107	5364.193	5366.610	5232.728	5317.444
32.5	5448.199	5398.567	5438.752	5321.081	5319.396	5191.302	5275.818
33.0	5404.621	5355.943	5391.049	5277.503	5277.282	5151.117	5231.730
33.5	5356.675	5308.019	5347.472	5230.311	5230.777	5107.540	5192.987
34.0	5314.073	5265.639	5304.870	5187.909	5188.641	5069.528	5154.754
34.5	5271.937	5219.622	5258.875	5147.258	5147.480	5027.148	5112.396
35.0	5225.454	5178.971	5217.204	5101.485	5103.903	4989.403	5075.095
35.5	5184.760	5137.789	5171.210	5062.010	5064.428	4952.080	5037.328
36.0	5140.960	5093.258	5129.805	5018.677	5024.975	4911.185	4996.167
36.5	5100.510	5054.515	5089.133	4979.934	4983.083	4874.638	4957.912
37.0	5061.057	5015.528	5044.579	4941.923	4945.560	4837.580	4916.264
37.5	5017.457	4972.438	5005.615	4900.762	4903.690	4795.932	4878.253
38.0	4978.248	4933.451	4967.116	4862.263	4866.632	4758.165	4841.195
38.5	4940.703	4894.952	4924.735	4824.008	4829.086	4717.248	4799.081
39.0	4898.345	4853.060	4886.236	4782.116	4787.216	4678.993	4760.582
39.5	4860.090	4816.024	4844.344	4745.568	4749.693	4640.982	4722.571
40.0	4822.079	4774.132	4807.065	4708.045	4712.902	4598.358	4678.727

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40.5	4780.186	4735.655	4770.007	4666.397	4671.231	4559.615	4637.589
41.0	4741.953	4697.644	4728.381	4628.629	4633.952	4519.674	4587.225
41.5	4699.329	4655.020	4690.370	4586.493	4591.106	4473.192	4538.325
42.0	4660.586	4616.033	4647.990	4548.238	4551.631	4428.394	4485.056
42.5	4622.087	4576.092	4609.513	4509.273	4511.447	4373.662	4420.167
43.0	4577.800	4530.829	4570.992	4465.452	4465.918	4318.707	4355.765
43.5	4536.618	4488.427	4526.948	4423.316	4424.757	4256.967	4286.263
44.0	4492.818	4438.330	4487.230	4377.543	4380.204	4180.235	4200.083
44.5	4441.700	4390.627	4445.581	4323.542	4325.249	4104.190	4112.418
45.0	4392.312	4339.775	4395.949	4267.634	4267.634	4022.845	4008.807
45.5	4332.036	4276.349	4347.027	4197.666	4195.470	3923.825	3910.741
46.0	4272.956	4213.389	4293.071	4125.990	4122.109	3828.420	3809.060
46.5	4207.823	4142.445	4225.986	4047.062	4041.740	3728.181	3690.901
47.0	4127.919	4055.046	4156.749	3953.609	3945.603	3611.486	3580.017
47.5	4048.038	3970.796	4072.721	3861.597	3852.150	3503.507	3464.276
48.0	3953.609	3869.581	3991.376	3764.507	3755.059	3380.026	3333.299
48.5	3860.399	3773.710	3904.443	3651.205	3641.757	3265.016	3214.431
49.0	3762.089	3672.273	3800.101	3543.935	3534.022	3147.124	3080.283
49.5	3647.080	3554.114	3700.105	3421.430	3422.894	3014.905	2957.046
50.0	3538.613	3443.962	3596.472	3309.814	3294.334	2893.598	2833.321
50.5	3426.752	3330.150	3475.896	3194.804	3176.153	2772.534	2695.780
51.0	3299.390	3201.346	3364.058	3063.827	3043.735	2636.235	2571.101
51.5	3182.452	3083.166	3236.208	2942.986	2922.428	2511.778	2443.983
52.0	3062.120	2949.062	3116.830	2820.236	2800.388	2373.039	2303.803
52.5	2925.089	2825.071	2996.986	2684.181	2665.042	2248.849	2179.834
53.0	2801.120	2700.636	2862.616	2560.944	2543.735	2125.589	2057.107
53.5	2663.113	2561.898	2740.355	2422.937	2407.901	1992.927	1922.959
54.0	2539.144	2436.487	2617.340	2300.432	2287.325	1875.035	1803.115
54.5	2416.395	2312.274	2480.087	2179.124	2167.481	1758.074	1674.068
55.0	2280.074	2175.975	2355.386	2043.291	2033.843	1631.200	1562.673
55.5	2157.568	2053.448	2218.333	1922.471	1914.731	1519.095	1455.426
56.0	2033.622	1931.431	2095.118	1803.115	1796.329	1410.163	1339.928
56.5	1897.522	1798.746	1973.544	1674.068	1666.062	1295.863	1250.112
57.0	1778.410	1682.295	1838.953	1559.058	1552.516	1231.705	1133.816
57.5	1648.653	1556.131	1720.306	1446.710	1429.523	1095.495	1050.187
58.0	1534.841	1446.710	1604.100	1328.330	1322.763	1011.267	974.320
58.5	1424.910	1341.392	1481.084	1243.570	1221.792	936.176	898.408
59.0	1308.215	1244.767	1373.837	1119.423	1116.696	863.103	840.083
59.5	1209.195	1132.996	1259.071	1032.069	1030.028	807.417	792.625
60.0	1116.474	1037.835	1162.713	953.363	927.660	761.754	748.204
60.5	1022.045	959.794	1073.118	876.963	876.298	719.640	713.653
61.0	928.547	890.735	943.893	817.906	819.303	690.855	688.016
61.5	869.046	823.717	910.251	761.643	766.700	667.990	669.853
62.0	811.187	773.131	844.519	721.038	726.360	653.975	656.702
62.5	763.994	732.215	782.601	691.808	695.667	640.846	641.999
63.0	722.279	698.351	741.352	670.519	673.646	625.743	628.205
63.5	693.339	675.464	710.282	656.392	659.674	611.883	613.679
64.0	672.293	656.614	683.559	643.086	644.727	597.490	597.468
64.5	655.372	642.376	665.640	627.695	631.354	581.146	582.432
65.0	642.243	627.917	649.295	613.125	617.738	566.088	567.086
65.5	628.981	610.929	634.769	597.135	602.347	550.475	550.054
66.0	613.812	595.383	620.177	582.188	587.643	533.110	534.862
66.5	598.954	579.904	603.855	566.753	572.408	517.919	517.720
67.0	581.367	561.940	588.775	549.300	555.842	500.932	501.752
67.5	566.553	546.572	572.852	533.887	540.229	484.920	485.497
68.0	552.427	531.225	555.043	518.230	524.550	468.287	467.556

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68.5	536.725	513.661	539.608	499.512	507.407	450.014	450.945
69.0	521.756	497.317	523.508	482.769	492.039	433.536	431.984
69.5	506.254	478.067	505.367	464.761	474.497	416.571	414.176
70.0	489.245	461.413	488.446	448.350	458.241	396.700	396.279
70.5	473.743	444.625	469.773	431.341	440.788	378.737	376.409
71.0	455.802	425.952	453.362	411.980	420.407	358.734	358.379
71.5	438.526	408.343	436.153	394.261	402.134	340.482	340.349
72.0	420.563	390.291	417.059	376.320	383.949	322.652	320.101
72.5	400.404	370.421	399.694	356.294	362.969	302.116	302.005
73.0	382.130	352.480	382.175	338.087	343.454	283.487	283.997
73.5	363.856	334.516	362.947	317.595	322.363	265.413	264.482
74.0	342.456	315.045	345.228	298.856	303.690	245.676	247.228
74.5	323.051	297.060	325.202	280.094	285.505	228.067	228.311
75.0	304.201	277.034	307.594	259.736	265.236	210.814	211.701
75.5	283.576	259.204	289.719	241.373	246.430	191.564	195.534
76.0	265.036	241.285	269.715	223.388	225.672	174.754	178.347
76.5	243.857	221.813	252.129	203.784	207.997	157.323	163.422
77.0	225.317	204.404	234.809	186.242	191.010	142.309	148.652
77.5	207.620	185.443	216.114	169.476	172.536	128.205	132.529
78.0	188.947	168.700	200.124	151.934	156.214	109.864	123.193
78.5	172.315	152.865	182.893	136.854	141.089	97.534	103.477
79.0	154.019	135.989	167.702	124.501	125.366	85.137	91.036
79.5	138.273	125.344	152.799	105.407	112.193	72.607	79.216
80.0	123.947	106.316	135.944	92.300	98.842	62.273	66.309
80.5	109.332	91.701	120.886	79.105	80.790	52.227	55.176
81.0	96.470	79.770	106.272	68.083	73.916	44.154	43.955
81.5	81.744	68.726	82.454	57.904	62.894	36.370	34.596
82.0	72.053	56.795	77.708	47.348	54.178	28.120	26.124
82.5	62.051	46.705	63.892	38.366	46.771	21.667	18.584
83.0	53.335	36.437	52.825	29.828	39.519	15.369	13.550
83.5	45.130	28.874	42.890	23.330	32.534	10.224	9.935
84.0	38.300	22.399	33.110	17.409	23.973	6.830	6.986
84.5	30.360	15.967	25.836	11.288	17.298	3.792	4.369
85.0	23.086	10.822	20.225	8.605	11.510	1.819	2.351
85.5	16.233	8.361	15.147	5.345	4.968	0.931	1.464
86.0	10.002	5.389	11.111	2.417	3.282	0.643	1.020
86.5	5.278	2.329	6.498	0.909	2.395	0.244	0.510
87.0	3.238	1.020	3.903	0.266	1.996	0.244	0.244
87.5	2.417	0.288	2.462	0.111	1.619	0.022	0.000
88.0	1.929	0.133	1.819	0.044	1.198	0.000	0.000
88.5	1.530	0.044	1.331	0.000	0.798	0.000	0.000
89.0	0.954	0.000	1.087	0.000	0.687	0.000	0.000
89.5	0.843	0.022	0.843	0.000	0.665	0.000	0.000
90.0	0.710	0.000	0.665	0.000	0.554	0.000	0.000
90.5	0.377	0.000	0.577	0.000	0.599	0.000	0.000
91.0	0.554	0.000	0.532	0.000	0.510	0.000	0.000
91.5	0.532	0.000	0.621	0.000	0.466	0.000	0.000
92.0	0.599	0.000	0.444	0.000	0.466	0.000	0.000
92.5	0.310	0.000	0.532	0.000	0.488	0.000	0.000
93.0	0.421	0.000	0.355	0.000	0.333	0.000	0.000
93.5	0.355	0.000	0.488	0.000	0.421	0.000	0.000
94.0	0.310	0.000	0.333	0.000	0.466	0.000	0.000
94.5	0.310	0.022	0.377	0.000	0.288	0.000	0.000
95.0	0.355	0.000	0.266	0.000	0.266	0.000	0.000
95.5	0.333	0.000	0.244	0.000	0.266	0.000	0.000
96.0	0.222	0.000	0.288	0.000	0.200	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

96.5	0.310	0.000	0.177	0.000	0.288	0.000	0.000
97.0	0.200	0.000	0.288	0.000	0.200	0.000	0.000
97.5	0.266	0.000	0.244	0.000	0.200	0.000	0.000
98.0	0.222	0.000	0.310	0.000	0.266	0.022	0.000
98.5	0.288	0.000	0.266	0.000	0.222	0.000	0.000
99.0	0.244	0.000	0.244	0.000	0.288	0.000	0.000
99.5	0.333	0.000	0.288	0.000	0.222	0.022	0.000
100.0	0.244	0.000	0.222	0.000	0.177	0.000	0.000
100.5	0.155	0.000	0.244	0.000	0.266	0.000	0.000
101.0	0.177	0.000	0.288	0.000	0.222	0.000	0.000
101.5	0.177	0.022	0.244	0.000	0.155	0.000	0.000
102.0	0.222	0.022	0.244	0.000	0.244	0.000	0.000
102.5	0.222	0.000	0.222	0.000	0.244	0.000	0.000
103.0	0.222	0.000	0.222	0.000	0.244	0.000	0.000
103.5	0.244	0.022	0.222	0.000	0.177	0.000	0.000
104.0	0.177	0.000	0.222	0.000	0.133	0.022	0.000
104.5	0.266	0.000	0.266	0.000	0.244	0.000	0.000
105.0	0.266	0.000	0.155	0.000	0.155	0.000	0.000
105.5	0.266	0.000	0.222	0.000	0.177	0.000	0.000
106.0	0.133	0.044	0.155	0.000	0.222	0.000	0.000
106.5	0.177	0.000	0.200	0.000	0.177	0.000	0.000
107.0	0.333	0.044	0.155	0.000	0.244	0.067	0.000
107.5	0.310	0.000	0.222	0.067	0.133	0.044	0.000
108.0	0.222	0.022	0.133	0.022	0.222	0.000	0.000
108.5	0.200	0.000	0.177	0.044	0.266	0.044	0.000
109.0	0.222	0.067	0.288	0.067	0.266	0.000	0.000
109.5	0.288	0.044	0.177	0.022	0.244	0.022	0.000
110.0	0.266	0.089	0.222	0.067	0.222	0.067	0.000
110.5	0.288	0.044	0.200	0.067	0.177	0.000	0.022
111.0	0.222	0.044	0.222	0.089	0.200	0.067	0.022
111.5	0.155	0.044	0.288	0.044	0.266	0.044	0.000
112.0	0.333	0.111	0.310	0.044	0.222	0.044	0.022
112.5	0.266	0.089	0.288	0.044	0.244	0.089	0.000
113.0	0.288	0.089	0.310	0.067	0.266	0.089	0.067
113.5	0.288	0.067	0.444	0.067	0.310	0.111	0.044
114.0	0.310	0.044	0.310	0.155	0.310	0.155	0.000
114.5	0.266	0.044	0.244	0.089	0.266	0.111	0.022
115.0	0.310	0.089	0.310	0.133	0.288	0.044	0.067
115.5	0.421	0.089	0.244	0.200	0.310	0.133	0.022
116.0	0.266	0.089	0.266	0.155	0.266	0.133	0.067
116.5	0.355	0.133	0.310	0.222	0.377	0.177	0.089
117.0	0.310	0.155	0.421	0.111	0.310	0.089	0.044
117.5	0.333	0.177	0.310	0.111	0.333	0.155	0.067
118.0	0.333	0.133	0.355	0.155	0.377	0.200	0.133
118.5	0.266	0.177	0.333	0.133	0.333	0.133	0.089
119.0	0.466	0.244	0.377	0.133	0.532	0.200	0.067
119.5	0.466	0.155	0.444	0.155	0.421	0.244	0.089
120.0	0.510	0.177	0.444	0.222	0.488	0.288	0.089
120.5	0.466	0.288	0.510	0.177	0.377	0.288	0.155
121.0	0.532	0.222	0.444	0.244	0.377	0.266	0.133
121.5	0.488	0.177	0.444	0.288	0.444	0.288	0.133
122.0	0.421	0.200	0.444	0.266	0.421	0.310	0.222
122.5	0.488	0.222	0.488	0.310	0.421	0.310	0.155
123.0	0.554	0.288	0.554	0.355	0.577	0.355	0.266
123.5	0.577	0.333	0.510	0.222	0.488	0.310	0.266
124.0	0.577	0.333	0.532	0.355	0.510	0.466	0.266

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CANDELA TABULATION - (Cont.)

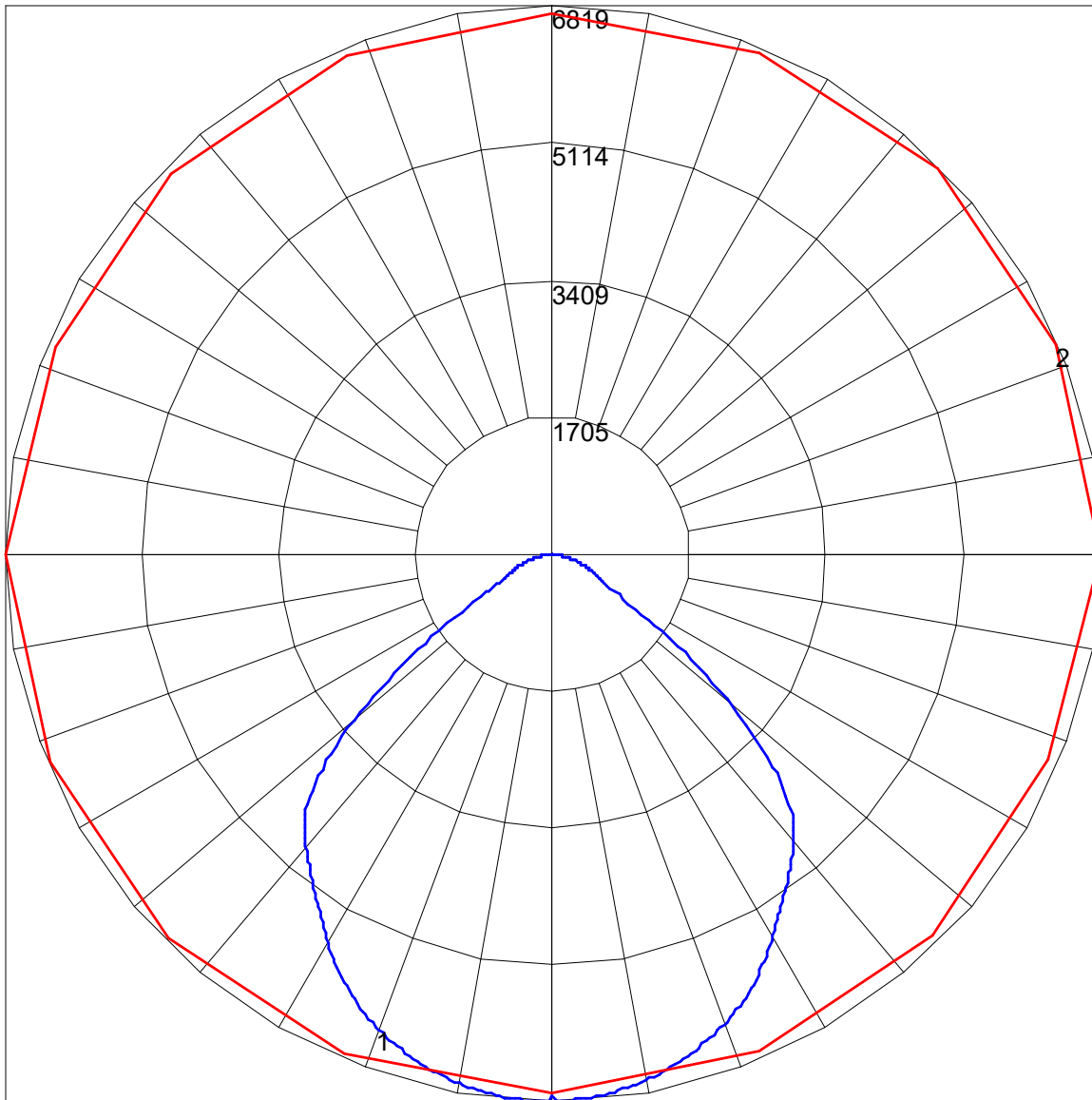
124.5	0.510	0.377	0.488	0.355	0.532	0.421	0.222
125.0	0.510	0.333	0.532	0.355	0.621	0.355	0.244
125.5	0.510	0.421	0.599	0.333	0.643	0.355	0.266
126.0	0.599	0.466	0.510	0.333	0.665	0.466	0.288
126.5	0.643	0.554	0.577	0.532	0.687	0.355	0.288
127.0	0.754	0.355	0.577	0.488	0.732	0.466	0.288
127.5	0.732	0.421	0.621	0.510	0.732	0.510	0.333
128.0	0.687	0.444	0.732	0.643	0.687	0.621	0.266
128.5	0.754	0.488	0.643	0.554	0.754	0.599	0.333
129.0	0.776	0.421	0.665	0.421	0.599	0.488	0.200
129.5	0.798	0.554	0.732	0.554	0.821	0.621	0.466
130.0	0.776	0.621	0.621	0.577	0.909	0.599	0.288
130.5	0.665	0.577	0.776	0.554	0.798	0.621	0.377
131.0	0.732	0.577	0.909	0.621	0.776	0.643	0.377
131.5	0.776	0.488	0.776	0.643	0.776	0.532	0.488
132.0	0.754	0.643	0.865	0.643	0.754	0.687	0.355
132.5	0.821	0.643	0.865	0.599	0.909	0.665	0.554
133.0	0.931	0.687	0.887	0.732	0.776	0.754	0.488
133.5	0.976	0.754	0.887	0.710	0.821	0.687	0.599
134.0	0.865	0.776	0.931	0.687	0.931	0.687	0.599
134.5	0.843	0.732	0.865	0.798	0.976	0.732	0.621
135.0	1.042	0.821	0.931	0.754	0.998	0.732	0.466
135.5	0.998	0.821	0.931	0.798	1.042	0.732	0.643
136.0	1.020	0.821	1.020	0.776	0.865	0.798	0.621
136.5	0.954	0.754	1.042	0.798	0.976	0.865	0.621
137.0	1.042	0.931	1.175	0.931	1.020	0.865	0.732
137.5	1.064	0.909	1.064	0.865	1.020	0.954	0.732
138.0	1.042	0.931	1.042	0.976	1.131	0.954	0.687
138.5	1.020	0.954	1.087	0.843	1.175	0.931	0.643
139.0	1.087	1.020	1.131	0.976	1.109	0.976	0.665
139.5	1.242	1.020	1.131	0.909	1.153	1.042	0.798
140.0	1.286	0.843	1.109	0.954	1.175	0.976	0.821
140.5	1.153	1.020	1.308	0.998	1.131	0.998	0.687
141.0	1.198	0.909	1.087	0.998	1.175	1.042	0.776
141.5	1.242	0.998	1.264	0.931	1.064	1.064	0.798
142.0	1.308	1.042	1.242	1.042	1.131	0.998	0.776
142.5	1.198	1.175	1.331	1.020	1.242	1.153	0.843
143.0	1.153	1.020	1.375	1.153	1.242	1.153	0.931
143.5	1.286	1.153	1.131	1.109	1.286	1.131	0.865
144.0	1.441	1.242	1.242	1.198	1.286	1.175	0.865
144.5	1.552	1.131	1.353	1.153	1.353	1.175	0.931
145.0	1.552	1.264	1.331	1.286	1.308	1.375	0.976
145.5	1.419	1.286	1.397	1.264	1.308	1.286	1.042
146.0	1.375	1.353	1.331	1.286	1.441	1.153	1.087
146.5	1.464	1.198	1.397	1.198	1.375	1.286	0.976
147.0	1.464	1.198	1.375	1.264	1.464	1.286	1.131
147.5	1.441	1.308	1.419	1.331	1.308	1.419	1.131
148.0	1.597	1.375	1.419	1.375	1.353	1.308	1.042
148.5	1.486	1.464	1.597	1.331	1.530	1.419	1.131
149.0	1.508	1.397	1.641	1.486	1.508	1.353	1.042
149.5	1.575	1.575	1.508	1.419	1.486	1.419	1.242
150.0	1.552	1.464	1.441	1.375	1.530	1.286	1.131
150.5	1.774	1.397	1.508	1.419	1.575	1.353	1.286
151.0	1.641	1.397	1.464	1.486	1.619	1.486	1.286
151.5	1.552	1.486	1.552	1.419	1.663	1.353	1.353
152.0	1.663	1.597	1.730	1.486	1.641	1.597	1.441

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CANDELA TABULATION - (Cont.)

152.5	1.730	1.619	1.597	1.486	1.641	1.619	1.530
153.0	1.663	1.575	1.685	1.575	1.575	1.508	1.286
153.5	1.619	1.597	1.597	1.575	1.619	1.508	1.508
154.0	1.730	1.619	1.774	1.508	1.619	1.597	1.419
154.5	1.819	1.708	1.619	1.663	1.663	1.641	1.419
155.0	1.796	1.663	1.663	1.685	1.597	1.730	1.486
155.5	1.663	1.619	1.730	1.575	1.752	1.419	1.597
156.0	1.841	1.641	1.774	1.685	1.619	1.641	1.708
156.5	1.907	1.907	1.708	1.752	1.863	1.641	1.597
157.0	1.841	1.663	1.730	1.530	1.708	1.619	1.530
157.5	1.863	1.641	1.774	1.752	1.819	1.752	1.641
158.0	1.863	1.774	1.685	1.530	1.819	1.641	1.641
158.5	1.907	1.708	1.841	1.575	1.730	1.730	1.575
159.0	1.885	1.708	1.819	1.619	1.597	1.819	1.575
159.5	1.863	1.819	1.796	1.863	1.841	1.774	1.708
160.0	1.929	1.774	1.774	1.907	1.774	1.819	1.575
160.5	1.907	1.819	1.863	1.708	1.819	1.885	1.508
161.0	1.996	1.796	1.863	1.819	1.819	1.752	1.819
161.5	1.929	1.885	1.819	1.819	1.863	1.663	1.841
162.0	2.062	1.841	1.863	1.774	2.040	1.708	1.708
162.5	2.085	1.863	1.952	1.841	1.929	1.663	1.730
163.0	1.929	1.819	1.952	1.885	1.974	1.774	1.796
163.5	1.952	1.819	1.974	2.040	1.774	1.929	1.841
164.0	2.062	1.863	2.040	1.974	1.863	1.863	1.752
164.5	1.952	1.841	1.841	1.730	1.974	1.907	1.863
165.0	2.173	1.929	1.907	1.907	1.952	1.841	1.885
165.5	1.952	1.974	1.929	1.929	1.863	1.841	1.863
166.0	1.996	2.062	2.062	1.863	1.974	1.929	1.819
166.5	2.085	1.996	1.974	1.929	1.929	1.863	1.885
167.0	2.040	1.974	1.952	1.952	1.885	1.974	1.996
167.5	2.062	1.929	2.085	1.929	1.907	1.907	1.907
168.0	1.952	1.974	2.040	1.885	1.996	1.929	1.907
168.5	2.062	2.040	1.996	1.907	1.996	1.885	1.841
169.0	2.151	1.907	1.929	1.929	1.996	1.841	1.885
169.5	2.062	2.040	1.996	2.062	1.907	1.929	2.040
170.0	2.062	1.929	1.996	2.062	2.040	1.774	1.841
170.5	1.996	1.952	2.062	1.907	1.952	1.863	2.040
171.0	1.974	1.974	1.929	1.974	1.974	1.952	1.929
171.5	2.151	2.040	2.173	2.173	1.996	1.907	1.952
172.0	2.151	1.952	1.952	1.907	2.107	2.085	1.974
172.5	2.040	1.996	1.952	2.129	1.974	2.040	2.085
173.0	2.085	1.974	2.062	1.863	2.173	2.040	1.974
173.5	2.085	1.929	1.996	1.907	2.040	2.085	1.974
174.0	2.040	2.062	2.173	1.907	1.952	2.085	1.907
174.5	2.129	1.907	1.996	1.996	2.129	1.774	2.040
175.0	2.151	1.974	1.996	1.974	2.085	1.952	2.062
175.5	1.885	1.996	2.129	2.129	1.996	2.062	1.841
176.0	2.262	1.974	2.129	2.040	2.196	1.819	1.929
176.5	2.062	2.040	1.996	2.040	1.907	1.907	2.040
177.0	1.952	2.129	2.040	1.996	1.952	2.085	1.974
177.5	2.040	2.107	1.952	1.952	1.952	1.974	1.907
178.0	2.085	2.062	2.085	2.085	1.996	1.952	1.952
178.5	2.085	2.040	1.907	1.996	1.974	1.885	1.974
179.0	1.996	1.952	1.996	2.040	2.040	1.974	1.974
179.5	2.151	2.085	1.996	1.952	1.974	1.952	1.996
180.0	2.031	2.031	2.031	2.031	2.031	2.031	2.031

POLAR GRAPH



Maximum Candela = 6818.598 Located At Horizontal Angle = 180, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EPL-HB-100LED-RT-140DB_20170928.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] RADIANT ZEMAX
[TESTDATE] 20170928
[ISSUEDATE] 2017-09-28 10:37:36
[MANUFAC] Larson Electronics LLC
[LUMCAT] EPL-HB-100LED-RT-140DB
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED FIXTURE - 140 DEGREE BEAM
[LAMPCAT] LED
[LAMPPOSITION] 0,0
[OTHER] ZVISION 9107GT SYSTEM

CHARACTERISTICS

Lumens Per Lamp	13671.25 (1 lamp)
Total Lamp Lumens	13671.25
Luminaire Lumens	13643
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	98.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.76
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	2.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.10 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.10 m



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	211723	170023	211548
55	321709	262934	324895
65	284466	176798	262946
75	18021	8068	17543
85	3511	1583	2975

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CANDELA TABULATION

	<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	2553.507	2553.507	2553.507	2553.507	2553.507	2553.507	2553.507	2553.507	2553.507	2553.507
0.5	2578.379	2569.592	2562.143	2553.583	2548.053	2543.104	2537.600	2533.459	2578.379	2568.455
1.0	2577.545	2570.122	2560.754	2554.139	2547.220	2542.852	2536.211	2533.181	2577.293	2567.370
1.5	2575.929	2569.011	2559.391	2552.750	2545.301	2541.185	2534.570	2532.070	2576.182	2565.173
2.0	2573.707	2567.370	2556.613	2551.639	2542.852	2540.074	2532.070	2530.681	2574.793	2562.976
2.5	2570.677	2565.173	2553.305	2549.442	2539.519	2537.600	2529.318	2528.762	2572.596	2560.754
3.0	2567.092	2561.840	2549.190	2546.437	2535.403	2534.848	2524.899	2526.566	2569.844	2557.446
3.5	2562.673	2558.557	2543.382	2542.549	2529.596	2530.984	2520.480	2522.980	2566.259	2553.028
4.0	2557.724	2554.416	2537.044	2538.433	2523.258	2525.480	2515.279	2518.864	2561.310	2546.968
4.5	2551.942	2548.634	2530.984	2532.070	2516.895	2520.228	2508.663	2513.335	2556.335	2541.438
5.0	2545.049	2543.660	2523.258	2526.288	2508.941	2513.890	2501.745	2507.830	2549.998	2535.403
5.5	2537.600	2537.322	2516.642	2519.117	2502.326	2506.441	2494.321	2501.492	2543.382	2527.929
6.0	2529.899	2528.762	2509.194	2511.416	2494.574	2499.826	2487.150	2494.044	2536.489	2521.061
6.5	2521.894	2521.617	2500.381	2503.689	2485.484	2492.933	2479.979	2487.706	2528.232	2513.057
7.0	2514.168	2513.335	2491.822	2494.877	2477.783	2484.120	2471.420	2480.535	2521.314	2504.775
7.5	2505.608	2505.330	2484.651	2487.150	2468.945	2476.116	2463.163	2471.697	2512.224	2498.159
8.0	2498.159	2497.351	2476.419	2478.616	2462.052	2467.834	2456.547	2463.996	2504.522	2489.903
8.5	2491.291	2489.069	2469.778	2470.612	2455.714	2460.133	2449.376	2455.992	2497.351	2482.732
9.0	2484.954	2482.201	2463.441	2463.718	2449.376	2453.517	2443.594	2449.654	2489.069	2476.419
9.5	2479.424	2475.283	2457.658	2457.381	2444.680	2447.180	2438.090	2443.594	2483.009	2470.612
10.0	2474.753	2468.945	2453.517	2450.765	2440.842	2441.675	2433.671	2437.509	2476.419	2465.637
10.5	2470.334	2464.552	2449.099	2446.624	2436.979	2438.090	2430.919	2433.393	2472.253	2462.052
11.0	2466.471	2459.855	2445.513	2442.508	2433.671	2434.226	2427.333	2430.641	2467.582	2458.744
11.5	2463.163	2455.159	2441.928	2438.620	2430.641	2431.474	2424.556	2427.055	2464.249	2456.825
12.0	2460.133	2451.598	2437.812	2434.504	2427.055	2428.419	2421.273	2423.722	2461.244	2453.795
12.5	2456.825	2448.543	2433.671	2430.919	2423.470	2425.136	2417.965	2420.440	2457.911	2451.295
13.0	2453.795	2444.124	2429.252	2427.586	2419.051	2421.551	2413.824	2417.132	2454.048	2448.013
13.5	2449.654	2439.453	2423.470	2423.192	2415.188	2417.132	2409.406	2412.991	2450.765	2444.680
14.0	2446.346	2435.060	2418.521	2417.965	2410.769	2412.991	2404.987	2408.320	2446.094	2440.009
14.5	2441.928	2430.338	2412.713	2413.824	2405.820	2408.017	2399.760	2404.179	2442.205	2435.590
15.0	2437.509	2425.389	2408.017	2408.572	2401.149	2402.815	2394.533	2399.205	2436.979	2430.641
15.5	2433.141	2419.607	2402.235	2403.068	2396.175	2398.649	2389.812	2393.700	2431.727	2426.778
16.0	2428.722	2414.632	2396.730	2397.563	2391.478	2393.700	2383.499	2388.448	2426.500	2422.914
16.5	2424.303	2409.961	2391.781	2392.311	2387.640	2389.029	2378.247	2383.777	2422.359	2418.773
17.0	2419.607	2404.734	2386.251	2387.059	2383.221	2384.307	2374.409	2378.828	2417.385	2415.769
17.5	2416.299	2399.482	2381.858	2382.110	2379.080	2379.636	2369.435	2374.409	2413.547	2411.880
18.0	2412.713	2394.811	2377.692	2377.161	2375.773	2375.773	2365.294	2369.713	2409.961	2408.320
18.5	2408.017	2389.812	2373.298	2372.743	2371.657	2372.187	2361.708	2365.572	2406.376	2404.179
19.0	2404.734	2386.251	2367.794	2368.602	2368.324	2367.794	2357.870	2361.708	2402.235	2400.038
19.5	2400.593	2382.110	2363.905	2363.375	2364.208	2363.905	2353.174	2357.315	2397.563	2395.897
20.0	2397.286	2377.692	2358.123	2358.956	2360.067	2360.067	2348.503	2353.704	2393.978	2391.781
20.5	2393.397	2373.854	2354.007	2354.285	2356.482	2356.204	2344.084	2349.866	2389.281	2387.059
21.0	2388.726	2368.602	2348.755	2349.311	2352.063	2352.063	2339.387	2345.170	2385.696	2382.944
21.5	2384.863	2364.208	2343.781	2344.336	2347.922	2347.366	2334.161	2340.221	2381.025	2377.692
22.0	2379.358	2358.704	2339.110	2339.110	2344.084	2342.165	2329.742	2334.716	2376.076	2372.490
22.5	2374.409	2353.704	2334.413	2334.413	2339.665	2337.746	2324.793	2329.742	2371.657	2367.491
23.0	2370.546	2348.200	2329.186	2329.742	2336.080	2332.216	2321.207	2324.793	2367.238	2362.542
23.5	2366.683	2342.417	2325.323	2324.212	2333.883	2328.631	2317.344	2320.374	2363.905	2359.234
24.0	2362.542	2338.302	2321.763	2319.541	2331.383	2325.601	2314.592	2317.041	2360.900	2356.204
24.5	2359.789	2334.161	2319.263	2315.955	2329.464	2322.849	2313.203	2313.759	2357.870	2354.285
25.0	2357.315	2331.131	2316.789	2311.840	2328.378	2320.930	2312.648	2311.840	2355.371	2353.174
25.5	2355.371	2328.075	2314.592	2308.229	2327.267	2319.011	2312.370	2310.426	2354.007	2350.699
26.0	2354.285	2325.323	2312.925	2304.921	2326.434	2317.041	2311.840	2308.784	2353.452	2349.866
26.5	2354.285	2322.571	2311.006	2302.169	2326.990	2315.678	2311.840	2308.784	2352.341	2348.755

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CANDELA TABULATION - (Cont.)

27.0	2353.452	2320.627	2310.729	2300.250	2327.267	2314.289	2311.006	2308.507	2351.785	2347.669
27.5	2354.007	2318.430	2310.173	2298.053	2328.631	2312.925	2310.729	2307.673	2352.063	2347.669
28.0	2354.815	2317.041	2309.618	2296.109	2330.020	2312.925	2310.426	2307.976	2353.174	2347.669
28.5	2355.926	2315.955	2309.340	2294.998	2331.661	2312.925	2310.426	2308.507	2354.007	2349.033
29.0	2358.123	2315.678	2308.784	2294.190	2334.161	2313.759	2310.426	2309.895	2355.648	2351.255
29.5	2360.320	2315.122	2309.618	2294.468	2337.468	2314.592	2312.648	2311.840	2357.567	2355.371
30.0	2363.375	2315.955	2311.006	2293.887	2341.332	2316.511	2315.425	2313.759	2361.153	2359.234
30.5	2367.238	2316.789	2313.481	2295.276	2345.447	2318.708	2318.708	2316.789	2364.208	2364.208
31.0	2372.187	2318.708	2315.678	2296.664	2350.699	2322.015	2324.212	2321.207	2369.157	2371.076
31.5	2379.080	2320.096	2319.793	2298.861	2355.648	2325.601	2330.828	2326.712	2375.495	2379.358
32.0	2387.362	2322.571	2324.515	2301.336	2363.905	2328.909	2338.554	2333.580	2382.110	2390.392
32.5	2397.563	2326.434	2330.575	2304.921	2371.657	2335.246	2347.669	2344.614	2390.948	2402.235
33.0	2411.072	2331.383	2339.665	2309.618	2380.444	2342.165	2359.234	2355.926	2402.512	2415.769
33.5	2425.667	2339.110	2349.866	2315.678	2392.311	2349.866	2376.328	2369.990	2414.102	2431.171
34.0	2440.842	2349.033	2361.708	2322.849	2404.734	2360.623	2396.730	2387.893	2430.338	2446.877
34.5	2461.799	2361.986	2379.914	2330.828	2422.359	2373.576	2428.974	2408.850	2446.624	2463.441
35.0	2484.120	2374.409	2403.068	2341.332	2441.675	2394.533	2468.137	2436.145	2463.718	2485.787
35.5	2513.612	2391.781	2437.509	2355.118	2467.026	2420.137	2524.369	2477.202	2486.039	2511.693
36.0	2549.190	2413.547	2507.275	2369.990	2503.411	2453.795	2588.580	2525.177	2511.113	2545.604
36.5	2609.537	2443.316	2574.793	2391.478	2554.972	2513.612	2655.315	2580.323	2541.438	2588.327
37.0	2694.731	2497.907	2631.328	2414.355	2640.696	2587.746	2743.539	2648.700	2588.327	2663.017
37.5	2751.518	2571.763	2678.722	2446.094	2769.976	2665.769	2857.088	2732.757	2659.734	2769.976
38.0	2793.963	2635.191	2725.334	2506.164	2910.012	2771.642	2941.726	2843.049	2774.950	2883.272
38.5	2843.302	2688.090	2794.241	2596.862	2988.312	2876.657	2984.171	2953.291	2890.999	2978.389
39.0	2890.443	2741.317	2873.374	2735.257	3026.642	2943.923	2986.924	3011.189	2985.005	3045.377
39.5	2969.299	2804.972	2900.114	2852.669	3033.232	2974.248	2975.081	3031.035	3047.322	3069.087
40.0	3031.869	2874.738	2888.524	2901.730	2996.291	2977.000	2931.525	3021.390	3059.972	3051.715
40.5	3030.227	2903.952	2853.780	2903.144	2947.786	2944.756	2872.541	2994.372	3034.343	3009.825
41.0	3001.543	2898.170	2811.891	2872.819	2901.478	2892.110	2832.848	2942.559	2989.701	2958.795
41.5	2957.432	2873.905	2781.288	2833.378	2867.289	2843.302	2807.194	2889.610	2944.478	2905.063
42.0	2919.405	2833.681	2766.946	2787.348	2852.417	2812.976	2797.271	2844.135	2902.866	2867.289
42.5	2897.362	2793.963	2768.334	2763.638	2852.139	2798.937	2798.382	2823.177	2876.960	2854.336
43.0	2897.892	2783.232	2778.232	2755.911	2863.981	2796.185	2811.891	2818.759	2868.956	2859.840
43.5	2910.315	2789.014	2797.271	2762.274	2883.575	2808.861	2833.681	2822.925	2873.374	2879.409
44.0	2931.247	2803.053	2825.930	2773.561	2911.679	2829.515	2868.400	2839.716	2889.080	2909.734
44.5	2958.012	2823.177	2859.032	2795.074	2949.730	2860.118	2907.815	2873.071	2913.598	2943.393
45.0	2995.483	2852.947	2903.700	2823.177	2993.009	2896.226	2952.483	2910.012	2950.008	2984.171
45.5	3036.010	2886.025	2950.008	2857.366	3048.130	2937.863	3007.881	2953.291	2992.706	3036.287
46.0	3083.126	2924.354	3000.988	2903.144	3103.250	2990.534	3064.391	3008.714	3040.403	3087.015
46.5	3143.524	2975.915	3066.587	2951.094	3164.179	3044.266	3135.798	3063.027	3098.857	3144.913
47.0	3202.508	3028.031	3129.738	3004.296	3236.419	3103.553	3204.427	3124.208	3155.897	3216.850
47.5	3273.915	3091.964	3197.004	3069.920	3306.159	3173.572	3279.420	3197.004	3227.329	3287.979
48.0	3342.014	3155.114	3277.198	3133.576	3380.571	3242.757	3368.173	3270.860	3297.600	3372.870
48.5	3415.618	3222.910	3354.412	3209.124	3469.350	3326.561	3450.615	3349.160	3372.037	3452.256
49.0	3503.539	3301.741	3436.273	3283.283	3555.099	3408.447	3537.727	3439.025	3460.816	3537.727
49.5	3583.758	3379.485	3530.834	3362.391	3647.994	3495.004	3639.990	3523.385	3545.984	3638.626
50.0	3668.396	3463.012	3621.254	3457.230	3751.620	3597.267	3733.718	3624.537	3636.960	3732.884
50.5	3765.406	3561.967	3722.431	3547.373	3848.681	3692.939	3840.146	3720.512	3740.636	3831.309
51.0	3855.019	3653.246	3815.326	3652.943	3955.084	3791.060	3939.354	3819.719	3834.894	3942.939
51.5	3954.529	3757.983	3911.250	3748.060	4048.282	3901.883	4038.611	3931.652	3943.520	4043.283
52.0	4043.586	3855.019	4018.209	3844.262	4136.203	4000.837	4146.959	4032.274	4042.197	4151.630
52.5	4129.865	3951.221	4113.301	3952.054	4229.097	4110.549	4245.636	4129.587	4137.591	4251.166
53.0	4220.841	4056.817	4207.054	4047.146	4305.201	4202.358	4340.475	4236.546	4240.965	4343.505
53.5	4295.530	4151.378	4306.287	4136.758	4369.134	4286.162	4440.819	4327.244	4325.855	4434.203
54.0	4365.271	4239.854	4392.591	4227.178	4429.229	4371.053	4527.376	4415.165	4399.459	4506.721
54.5	4430.895	4328.052	4484.097	4299.671	4478.593	4439.708	4607.873	4486.016	4467.558	4570.376

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CANDELA TABULATION - (Cont.)

55.0	4482.431	4400.292	4556.034	4370.245	4526.820	4498.136	4688.370	4548.030	4521.593	4626.886
55.5	4532.880	4469.755	4615.296	4422.083	4565.402	4552.196	4751.495	4603.479	4580.022	4666.326
56.0	4570.932	4521.593	4669.331	4464.225	4595.727	4589.945	4800.581	4643.425	4621.634	4702.434
56.5	4602.343	4565.983	4702.686	4504.221	4621.937	4624.689	4828.684	4676.250	4658.322	4722.280
57.0	4631.582	4604.009	4717.609	4532.628	4636.557	4647.591	4836.941	4699.101	4688.370	4738.541
57.5	4649.207	4627.997	4718.392	4551.919	4641.506	4664.382	4828.406	4714.024	4708.494	4753.414
58.0	4656.656	4643.980	4701.045	4566.791	4641.506	4676.250	4803.333	4723.391	4721.977	4757.832
58.5	4657.489	4649.207	4667.412	4570.932	4632.138	4678.446	4763.084	4723.391	4728.896	4755.636
59.0	4649.207	4646.177	4621.381	4565.402	4612.544	4672.664	4703.242	4717.862	4730.815	4743.213
59.5	4628.275	4632.138	4566.235	4551.363	4584.718	4655.545	4633.224	4697.182	4721.169	4720.892
60.0	4597.949	4608.428	4491.268	4527.653	4541.440	4631.027	4538.662	4666.579	4704.353	4694.707
60.5	4558.231	4574.517	4406.378	4494.854	4473.618	4591.056	4440.819	4627.441	4675.113	4656.959
61.0	4505.055	4525.709	4306.287	4452.939	4406.075	4541.995	4327.522	4571.487	4629.083	4616.685
61.5	4447.434	4476.396	4176.451	4398.373	4333.304	4481.345	4188.016	4513.034	4575.603	4558.787
62.0	4378.805	4415.745	4042.475	4323.103	4239.854	4395.040	4046.868	4447.434	4510.004	4487.405
62.5	4296.919	4339.920	3877.340	4240.965	4143.929	4301.868	3890.293	4364.463	4430.340	4400.848
63.0	4210.640	4261.922	3721.042	4144.737	4036.415	4198.772	3706.978	4278.991	4355.625	4282.299
63.5	4112.215	4161.579	3558.937	4024.547	3910.998	4068.937	3534.697	4172.588	4263.008	4159.635
64.0	4014.902	4057.347	3372.037	3907.412	3790.227	3935.238	3356.584	4064.240	4171.477	4004.701
64.5	3909.331	3939.657	3196.726	3762.654	3645.797	3774.522	3154.811	3941.298	4062.043	3848.681
65.0	3781.945	3792.702	3014.497	3619.335	3495.837	3619.865	2966.547	3790.227	3939.354	3684.935
65.5	3655.165	3647.716	2798.382	3466.876	3334.540	3456.675	2745.458	3642.742	3818.911	3490.863
66.0	3510.407	3491.419	2599.614	3281.616	3142.691	3256.240	2536.767	3479.551	3680.516	3306.159
66.5	3326.006	3298.988	2375.495	3102.442	2950.538	3063.557	2320.627	3283.813	3509.043	3108.780
67.0	3151.225	3109.336	2164.354	2891.554	2752.326	2826.763	2076.964	3085.626	3348.630	2871.986
67.5	2950.261	2887.161	1949.881	2687.837	2536.767	2608.451	1852.567	2853.250	3160.618	2642.059
68.0	2752.326	2680.944	1707.834	2473.086	2297.220	2397.816	1627.615	2626.909	2914.734	2402.815
68.5	2538.433	2467.304	1502.729	2223.869	2033.686	2148.346	1448.997	2387.893	2693.897	2138.700
69.0	2266.339	2212.026	1255.556	1989.826	1817.268	1896.654	1148.926	2123.273	2468.667	1895.013
69.5	2000.861	1972.757	1046.411	1751.391	1547.118	1652.966	925.034	1867.995	2208.719	1616.581
70.0	1756.895	1722.454	848.021	1476.267	1243.133	1373.979	747.678	1613.551	1915.692	1455.865
70.5	1514.015	1456.950	667.534	1241.391	1026.438	1049.819	574.362	1364.889	1637.261	1135.164
71.0	1175.716	1219.070	504.874	990.861	748.284	914.025	396.274	1032.750	1354.688	893.194
71.5	902.940	967.934	364.231	788.482	536.133	690.714	273.281	871.958	981.543	672.483
72.0	674.251	772.145	245.834	577.670	400.339	491.744	198.566	649.657	791.916	477.225
72.5	488.158	570.600	182.002	393.471	329.210	338.502	162.938	480.886	559.995	324.336
73.0	352.288	394.910	157.358	290.779	293.102	264.544	150.945	356.682	383.270	250.329
73.5	290.047	292.673	147.182	235.280	265.655	223.841	144.632	286.007	301.182	210.282
74.0	256.161	234.446	141.829	202.732	242.350	196.925	139.658	238.613	265.251	185.310
74.5	235.557	198.086	136.628	183.568	226.644	181.573	136.123	201.116	241.870	172.155
75.0	220.811	177.987	131.149	168.266	214.953	169.630	130.618	176.624	228.538	162.560
75.5	209.297	164.049	125.644	158.696	204.904	162.257	125.770	158.671	216.090	156.323
76.0	200.990	156.601	119.155	151.349	195.940	156.449	120.241	152.434	208.136	151.071
76.5	192.304	151.727	112.994	144.809	184.780	149.404	113.272	148.293	199.930	143.925
77.0	182.633	145.364	106.101	138.168	173.973	141.728	106.707	142.334	189.779	137.966
77.5	173.417	138.446	100.066	130.517	162.837	133.118	100.091	135.214	179.704	127.210
78.0	163.292	130.871	93.854	121.579	150.263	123.952	92.769	127.386	168.645	117.110
78.5	151.374	121.983	86.759	113.928	140.239	115.443	86.178	118.195	155.843	108.449
79.0	140.971	113.751	80.118	105.974	126.932	106.833	78.704	109.888	144.228	99.056
79.5	127.942	104.586	73.604	95.874	116.731	96.051	72.114	96.632	132.638	90.218
80.0	117.286	95.243	66.736	88.451	107.161	88.577	65.802	92.693	120.190	81.204
80.5	106.984	88.880	60.878	79.512	97.162	79.538	59.413	84.184	109.156	71.735
81.0	95.950	79.916	55.045	72.266	88.501	72.266	54.237	75.321	95.975	63.857
81.5	86.759	72.341	50.399	65.650	80.548	65.675	49.515	68.024	89.309	56.106
82.0	78.098	64.691	45.753	58.858	72.316	58.833	44.390	60.878	80.851	49.995
82.5	69.337	58.580	40.703	53.505	65.448	53.328	40.097	55.121	72.190	44.743

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83.0	62.090	53.000	36.739	48.682	58.403	48.531	36.209	50.020	65.170	39.592
83.5	54.742	47.546	33.254	43.834	52.192	43.506	32.345	45.198	57.747	35.476
84.0	48.960	43.102	29.618	39.819	45.854	39.340	29.214	41.183	51.535	31.866
84.5	43.683	38.986	26.715	35.830	38.734	35.224	25.982	37.522	45.778	28.129
85.0	38.052	35.047	23.685	32.371	32.244	31.664	23.104	33.734	39.895	24.947
85.5	32.749	31.638	19.417	28.886	25.452	28.129	19.493	30.527	34.896	21.715
86.0	26.689	28.305	14.696	24.089	18.079	23.281	14.494	27.371	30.048	18.584
86.5	18.811	23.634	10.908	18.786	13.256	18.180	10.782	23.584	24.493	14.620
87.0	12.777	18.256	6.489	13.155	6.161	13.585	7.121	19.140	19.064	10.807
87.5	7.903	12.145	1.136	5.202	0.859	5.530	1.768	13.686	13.559	7.727
88.0	3.030	4.469	0.000	1.742	0.025	1.894	0.126	5.454	5.328	2.550
88.5	0.152	1.540	0.000	1.010	0.000	1.187	0.000	2.222	2.424	0.177
89.0	0.000	1.111	0.000	1.061	0.000	0.960	0.000	1.212	1.742	0.051
89.5	0.000	0.884	0.000	0.934	0.000	0.985	0.000	0.985	1.515	0.000
90.0	0.000	0.884	0.000	0.783	0.000	0.783	0.000	0.808	1.237	0.025
90.5	0.025	0.985	0.000	0.707	0.000	0.682	0.000	0.783	1.288	0.051
91.0	0.000	0.758	0.025	0.758	0.000	0.732	0.000	0.808	1.136	0.025
91.5	0.000	0.859	0.000	0.606	0.000	0.682	0.000	0.581	1.111	0.025
92.0	0.000	0.682	0.000	0.682	0.000	0.631	0.000	0.758	1.010	0.051
92.5	0.000	0.682	0.051	0.682	0.000	0.581	0.000	0.581	1.061	0.000
93.0	0.051	0.732	0.000	0.682	0.000	0.631	0.000	0.631	1.086	0.051
93.5	0.000	0.682	0.000	0.657	0.000	0.606	0.000	0.505	0.833	0.000
94.0	0.025	0.530	0.000	0.530	0.000	0.556	0.000	0.429	0.808	0.076
94.5	0.000	0.556	0.000	0.631	0.000	0.530	0.000	0.631	0.884	0.076
95.0	0.025	0.505	0.000	0.429	0.000	0.429	0.000	0.480	0.758	0.076
95.5	0.000	0.556	0.000	0.480	0.000	0.505	0.000	0.429	0.909	0.076
96.0	0.000	0.404	0.000	0.379	0.025	0.429	0.000	0.480	0.960	0.076
96.5	0.025	0.606	0.000	0.505	0.000	0.404	0.000	0.429	0.758	0.051
97.0	0.000	0.505	0.000	0.505	0.000	0.404	0.025	0.429	0.783	0.126
97.5	0.000	0.505	0.025	0.328	0.000	0.379	0.051	0.480	0.833	0.101
98.0	0.051	0.354	0.000	0.581	0.000	0.505	0.051	0.354	0.783	0.177
98.5	0.051	0.581	0.025	0.404	0.000	0.404	0.076	0.354	0.808	0.076
99.0	0.000	0.530	0.000	0.505	0.051	0.429	0.076	0.354	0.833	0.152
99.5	0.000	0.404	0.000	0.530	0.025	0.354	0.000	0.530	0.808	0.253
100.0	0.000	0.404	0.000	0.505	0.051	0.379	0.025	0.480	0.783	0.076
100.5	0.076	0.328	0.000	0.429	0.000	0.379	0.076	0.404	0.758	0.152
101.0	0.051	0.480	0.025	0.505	0.051	0.480	0.025	0.303	0.732	0.126
101.5	0.025	0.429	0.076	0.328	0.025	0.354	0.051	0.530	0.758	0.152
102.0	0.101	0.556	0.025	0.505	0.051	0.379	0.000	0.379	0.808	0.152
102.5	0.025	0.429	0.051	0.354	0.000	0.480	0.000	0.379	0.707	0.177
103.0	0.025	0.404	0.025	0.606	0.076	0.480	0.025	0.505	0.657	0.202
103.5	0.076	0.505	0.051	0.480	0.101	0.530	0.076	0.354	0.783	0.202
104.0	0.101	0.530	0.025	0.354	0.126	0.556	0.126	0.303	0.657	0.152
104.5	0.126	0.480	0.126	0.581	0.152	0.379	0.101	0.530	0.732	0.253
105.0	0.227	0.556	0.152	0.354	0.126	0.404	0.101	0.429	0.732	0.278
105.5	0.101	0.480	0.051	0.581	0.126	0.354	0.051	0.379	0.783	0.177
106.0	0.076	0.480	0.051	0.379	0.101	0.429	0.051	0.480	0.758	0.202
106.5	0.152	0.328	0.051	0.556	0.051	0.530	0.076	0.480	0.808	0.253
107.0	0.152	0.480	0.101	0.354	0.152	0.556	0.051	0.379	0.707	0.101
107.5	0.126	0.429	0.126	0.556	0.076	0.505	0.051	0.480	0.758	0.227
108.0	0.101	0.581	0.202	0.505	0.101	0.505	0.152	0.379	0.707	0.227
108.5	0.101	0.581	0.076	0.581	0.126	0.404	0.177	0.354	0.833	0.404
109.0	0.177	0.505	0.126	0.404	0.126	0.429	0.101	0.328	0.707	0.253
109.5	0.152	0.556	0.177	0.429	0.101	0.354	0.126	0.505	0.758	0.202
110.0	0.227	0.530	0.152	0.505	0.227	0.606	0.076	0.606	0.732	0.253
110.5	0.303	0.530	0.076	0.606	0.177	0.530	0.177	0.505	0.707	0.303

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111.0	0.253	0.606	0.177	0.556	0.126	0.606	0.101	0.505	0.682	0.379
111.5	0.278	0.606	0.202	0.556	0.177	0.530	0.126	0.606	0.758	0.303
112.0	0.227	0.480	0.202	0.480	0.126	0.404	0.152	0.606	0.884	0.354
112.5	0.303	0.429	0.253	0.581	0.253	0.429	0.227	0.404	0.783	0.303
113.0	0.177	0.556	0.202	0.556	0.202	0.505	0.202	0.530	0.732	0.328
113.5	0.177	0.556	0.202	0.480	0.328	0.581	0.202	0.505	0.682	0.480
114.0	0.253	0.556	0.227	0.581	0.227	0.328	0.126	0.530	0.833	0.303
114.5	0.253	0.581	0.202	0.631	0.177	0.480	0.202	0.429	0.758	0.328
115.0	0.227	0.530	0.227	0.631	0.227	0.429	0.227	0.505	0.732	0.404
115.5	0.227	0.631	0.253	0.530	0.278	0.581	0.126	0.631	0.859	0.354
116.0	0.278	0.556	0.202	0.707	0.253	0.530	0.202	0.606	0.808	0.379
116.5	0.303	0.581	0.253	0.480	0.177	0.556	0.202	0.631	0.808	0.480
117.0	0.253	0.707	0.253	0.530	0.253	0.530	0.177	0.682	0.808	0.404
117.5	0.253	0.530	0.328	0.657	0.303	0.606	0.278	0.556	0.960	0.429
118.0	0.202	0.606	0.253	0.631	0.303	0.707	0.253	0.556	0.783	0.480
118.5	0.278	0.732	0.202	0.631	0.303	0.606	0.177	0.606	0.884	0.328
119.0	0.278	0.631	0.278	0.505	0.303	0.606	0.177	0.480	0.732	0.505
119.5	0.354	0.631	0.253	0.682	0.354	0.505	0.202	0.606	0.833	0.379
120.0	0.354	0.657	0.227	0.657	0.278	0.530	0.303	0.682	0.859	0.379
120.5	0.328	0.657	0.278	0.556	0.303	0.556	0.303	0.480	0.985	0.379
121.0	0.379	0.631	0.278	0.707	0.303	0.480	0.253	0.480	0.808	0.581
121.5	0.328	0.556	0.328	0.657	0.379	0.530	0.328	0.505	0.833	0.530
122.0	0.278	0.556	0.253	0.556	0.303	0.606	0.278	0.631	0.833	0.379
122.5	0.379	0.606	0.328	0.707	0.227	0.556	0.328	0.429	0.808	0.530
123.0	0.354	0.732	0.429	0.657	0.303	0.581	0.253	0.606	0.783	0.556
123.5	0.303	0.657	0.379	0.556	0.202	0.581	0.227	0.606	0.859	0.505
124.0	0.328	0.682	0.278	0.530	0.328	0.581	0.278	0.505	0.808	0.530
124.5	0.278	0.657	0.480	0.606	0.429	0.581	0.303	0.505	0.783	0.505
125.0	0.303	0.631	0.227	0.581	0.278	0.556	0.354	0.606	0.808	0.429
125.5	0.177	0.556	0.328	0.480	0.404	0.354	0.278	0.556	0.884	0.505
126.0	0.303	0.707	0.278	0.606	0.354	0.556	0.379	0.505	0.884	0.556
126.5	0.379	0.530	0.303	0.556	0.354	0.606	0.253	0.530	0.833	0.530
127.0	0.429	0.631	0.379	0.581	0.379	0.556	0.354	0.581	0.732	0.379
127.5	0.379	0.480	0.303	0.682	0.328	0.505	0.253	0.606	0.732	0.556
128.0	0.505	0.556	0.253	0.707	0.379	0.657	0.303	0.530	0.833	0.505
128.5	0.505	0.707	0.354	0.631	0.328	0.404	0.328	0.429	0.808	0.581
129.0	0.379	0.631	0.379	0.631	0.379	0.631	0.354	0.530	0.783	0.505
129.5	0.303	0.732	0.328	0.556	0.303	0.631	0.227	0.556	0.833	0.556
130.0	0.303	0.631	0.278	0.606	0.379	0.581	0.253	0.530	0.833	0.682
130.5	0.303	0.631	0.404	0.556	0.404	0.556	0.354	0.480	0.732	0.530
131.0	0.480	0.581	0.530	0.682	0.505	0.429	0.278	0.505	0.707	0.606
131.5	0.404	0.631	0.379	0.657	0.379	0.530	0.379	0.429	0.833	0.505
132.0	0.404	0.682	0.379	0.581	0.379	0.707	0.227	0.556	0.808	0.530
132.5	0.480	0.631	0.429	0.631	0.328	0.606	0.253	0.379	0.909	0.631
133.0	0.354	0.682	0.404	0.631	0.404	0.581	0.328	0.606	0.859	0.556
133.5	0.556	0.657	0.303	0.631	0.379	0.556	0.379	0.556	0.758	0.530
134.0	0.404	0.581	0.404	0.581	0.404	0.505	0.278	0.556	0.808	0.480
134.5	0.505	0.783	0.429	0.808	0.379	0.657	0.404	0.581	0.909	0.631
135.0	0.404	0.783	0.404	0.631	0.379	0.631	0.556	0.505	0.985	0.556
135.5	0.404	0.682	0.303	0.606	0.429	0.682	0.379	0.606	0.808	0.707
136.0	0.429	0.606	0.429	0.707	0.505	0.606	0.303	0.631	0.732	0.732
136.5	0.429	0.657	0.556	0.581	0.530	0.505	0.379	0.657	0.884	0.657
137.0	0.480	0.682	0.404	0.682	0.505	0.606	0.480	0.581	0.934	0.732
137.5	0.556	0.732	0.379	0.657	0.480	0.631	0.379	0.556	0.833	0.581
138.0	0.354	0.732	0.480	0.758	0.581	0.606	0.404	0.505	0.884	0.606
138.5	0.556	0.707	0.530	0.657	0.429	0.732	0.480	0.505	0.808	0.657

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139.0	0.530	0.682	0.631	0.707	0.581	0.707	0.530	0.707	0.732	0.606
139.5	0.631	0.732	0.404	0.808	0.354	0.758	0.379	0.631	0.732	0.657
140.0	0.505	0.682	0.530	0.783	0.429	0.808	0.530	0.631	0.909	0.631
140.5	0.606	0.808	0.606	0.707	0.505	0.682	0.606	0.758	0.833	0.556
141.0	0.682	0.833	0.530	0.884	0.429	0.631	0.530	0.682	0.732	0.556
141.5	0.556	0.758	0.556	0.606	0.480	0.682	0.581	0.758	0.934	0.606
142.0	0.530	0.732	0.631	0.758	0.556	0.682	0.530	0.606	0.859	0.859
142.5	0.505	0.783	0.429	0.758	0.404	0.631	0.480	0.657	0.808	0.631
143.0	0.606	0.657	0.657	0.682	0.404	0.682	0.404	0.682	0.783	0.581
143.5	0.657	0.833	0.631	0.833	0.505	0.657	0.606	0.631	0.808	0.606
144.0	0.707	0.707	0.556	0.732	0.556	0.732	0.505	0.808	0.808	0.581
144.5	0.682	0.732	0.505	0.631	0.581	0.682	0.606	0.581	0.657	0.657
145.0	0.657	0.732	0.581	0.783	0.606	0.556	0.556	0.707	0.808	0.303
145.5	0.657	0.833	0.556	0.783	0.657	0.758	0.556	0.783	0.833	0.606
146.0	0.581	0.732	0.606	0.707	0.657	0.682	0.707	0.556	0.732	0.556
146.5	0.657	0.808	0.581	0.707	0.581	0.657	0.480	0.707	0.783	0.429
147.0	0.682	0.909	0.581	0.732	0.631	0.682	0.530	0.606	0.732	0.530
147.5	0.758	0.707	0.606	0.758	0.581	0.606	0.556	0.657	0.631	0.606
148.0	0.732	0.758	0.530	0.783	0.581	0.732	0.429	0.783	0.657	0.581
148.5	0.631	0.707	0.707	0.682	0.581	0.758	0.379	0.682	0.732	0.480
149.0	0.631	0.758	0.581	0.783	0.404	0.631	0.556	0.732	0.682	0.606
149.5	0.505	0.707	0.581	0.808	0.682	0.732	0.530	0.631	0.657	0.480
150.0	0.505	0.732	0.530	0.758	0.606	0.707	0.404	0.682	0.631	0.505
150.5	0.556	0.707	0.606	0.833	0.556	0.758	0.530	0.581	0.732	0.379
151.0	0.631	0.783	0.581	0.682	0.556	0.758	0.631	0.657	0.758	0.631
151.5	0.606	0.682	0.530	0.808	0.556	0.606	0.480	0.581	0.758	0.530
152.0	0.530	0.682	0.530	0.732	0.505	0.758	0.530	0.606	0.707	0.606
152.5	0.606	0.732	0.657	0.884	0.631	0.606	0.354	0.631	0.657	0.556
153.0	0.707	0.808	0.631	0.732	0.530	0.783	0.581	0.707	0.783	0.480
153.5	0.631	0.783	0.581	0.783	0.505	0.758	0.657	0.530	0.682	0.581
154.0	0.732	0.682	0.606	0.758	0.606	0.631	0.505	0.682	0.682	0.581
154.5	0.631	0.732	0.556	0.682	0.581	0.707	0.354	0.631	0.581	0.505
155.0	0.657	0.808	0.581	0.657	0.556	0.707	0.404	0.606	0.606	0.530
155.5	0.657	0.707	0.606	0.682	0.530	0.606	0.480	0.631	0.758	0.530
156.0	0.581	0.808	0.606	0.707	0.581	0.758	0.556	0.581	0.606	0.606
156.5	0.530	0.758	0.505	0.606	0.606	0.707	0.556	0.530	0.657	0.682
157.0	0.606	0.758	0.606	0.631	0.631	0.682	0.657	0.631	0.657	0.404
157.5	0.631	0.707	0.530	0.682	0.505	0.682	0.556	0.480	0.707	0.480
158.0	0.530	0.631	0.530	0.682	0.556	0.530	0.404	0.682	0.581	0.278
158.5	0.682	0.682	0.480	0.556	0.606	0.480	0.379	0.631	0.606	0.480
159.0	0.581	0.682	0.657	0.707	0.429	0.581	0.429	0.581	0.682	0.480
159.5	0.556	0.657	0.530	0.657	0.556	0.556	0.556	0.606	0.657	0.404
160.0	0.732	0.682	0.581	0.631	0.505	0.606	0.556	0.833	0.657	0.556
160.5	0.530	0.657	0.530	0.631	0.379	0.606	0.505	0.480	0.556	0.480
161.0	0.556	0.530	0.429	0.606	0.404	0.556	0.429	0.606	0.530	0.480
161.5	0.530	0.606	0.480	0.657	0.505	0.530	0.404	0.480	0.606	0.480
162.0	0.606	0.707	0.505	0.657	0.530	0.783	0.404	0.581	0.606	0.530
162.5	0.606	0.631	0.480	0.505	0.480	0.480	0.480	0.606	0.505	0.505
163.0	0.505	0.581	0.480	0.530	0.581	0.530	0.328	0.480	0.631	0.505
163.5	0.530	0.732	0.429	0.606	0.379	0.581	0.379	0.505	0.581	0.606
164.0	0.530	0.556	0.404	0.556	0.530	0.606	0.429	0.606	0.556	0.379
164.5	0.505	0.530	0.379	0.556	0.480	0.581	0.404	0.505	0.657	0.556
165.0	0.606	0.682	0.429	0.480	0.480	0.682	0.404	0.530	0.505	0.556
165.5	0.581	0.631	0.429	0.530	0.404	0.530	0.429	0.530	0.480	0.556
166.0	0.379	0.505	0.530	0.505	0.404	0.480	0.429	0.657	0.556	0.581
166.5	0.404	0.631	0.480	0.480	0.404	0.556	0.429	0.606	0.606	0.581

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167.0	0.505	0.556	0.556	0.556	0.480	0.581	0.429	0.657	0.606	0.505
167.5	0.556	0.631	0.328	0.556	0.429	0.505	0.480	0.530	0.556	0.354
168.0	0.530	0.606	0.505	0.505	0.404	0.480	0.404	0.429	0.682	0.530
168.5	0.429	0.581	0.505	0.530	0.556	0.354	0.354	0.631	0.606	0.505
169.0	0.581	0.682	0.505	0.556	0.404	0.404	0.278	0.530	0.530	0.379
169.5	0.480	0.631	0.480	0.530	0.480	0.556	0.404	0.505	0.657	0.505
170.0	0.404	0.631	0.328	0.429	0.505	0.556	0.354	0.404	0.581	0.404
170.5	0.379	0.581	0.505	0.530	0.354	0.606	0.328	0.530	0.505	0.480
171.0	0.354	0.530	0.379	0.404	0.328	0.429	0.328	0.505	0.404	0.379
171.5	0.530	0.631	0.379	0.429	0.354	0.429	0.354	0.505	0.556	0.480
172.0	0.379	0.556	0.530	0.530	0.379	0.505	0.354	0.530	0.631	0.379
172.5	0.556	0.556	0.253	0.556	0.404	0.530	0.379	0.354	0.657	0.354
173.0	0.530	0.379	0.480	0.581	0.379	0.379	0.404	0.303	0.530	0.354
173.5	0.429	0.606	0.303	0.404	0.354	0.480	0.379	0.379	0.505	0.404
174.0	0.480	0.530	0.480	0.480	0.379	0.530	0.278	0.404	0.480	0.328
174.5	0.480	0.530	0.303	0.429	0.278	0.379	0.354	0.253	0.429	0.379
175.0	0.429	0.530	0.303	0.505	0.278	0.379	0.379	0.328	0.328	0.354
175.5	0.278	0.404	0.354	0.429	0.328	0.505	0.354	0.404	0.379	0.303
176.0	0.379	0.354	0.328	0.303	0.303	0.480	0.253	0.328	0.480	0.328
176.5	0.404	0.429	0.354	0.404	0.303	0.404	0.354	0.354	0.379	0.328
177.0	0.303	0.480	0.278	0.303	0.253	0.354	0.354	0.480	0.354	0.328
177.5	0.404	0.505	0.379	0.328	0.303	0.379	0.480	0.379	0.480	0.253
178.0	0.227	0.404	0.278	0.328	0.253	0.253	0.328	0.429	0.429	0.328
178.5	0.253	0.328	0.379	0.303	0.354	0.328	0.328	0.253	0.379	0.253
179.0	0.404	0.328	0.328	0.404	0.303	0.278	0.227	0.379	0.404	0.404
179.5	0.379	0.278	0.303	0.303	0.354	0.328	0.253	0.303	0.379	0.278
180.0	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326

Vert. Horizontal Angles
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	2553.507	2553.507	2553.507	2553.507	2553.507	2553.507	2553.507
0.5	2562.395	2553.583	2548.634	2542.271	2537.852	2532.903	2578.379
1.0	2562.143	2552.472	2548.356	2542.019	2537.852	2531.515	2577.545
1.5	2561.587	2550.806	2547.801	2540.352	2537.322	2530.151	2575.929
2.0	2560.224	2548.634	2546.690	2538.433	2536.211	2528.485	2573.707
2.5	2558.254	2546.134	2544.468	2536.211	2534.848	2525.480	2570.677
3.0	2556.058	2542.852	2542.271	2533.181	2532.070	2521.894	2567.092
3.5	2552.750	2538.963	2539.266	2530.429	2529.318	2518.309	2562.673
4.0	2549.190	2533.737	2536.489	2526.010	2525.177	2513.057	2557.724
4.5	2543.938	2528.762	2532.070	2520.783	2521.894	2507.830	2551.942
5.0	2539.266	2522.980	2526.566	2514.446	2517.198	2500.381	2545.049
5.5	2534.014	2515.809	2520.783	2506.719	2510.860	2493.766	2537.600
6.0	2526.843	2509.194	2514.168	2499.826	2504.775	2486.873	2529.899
6.5	2520.783	2502.023	2507.527	2492.377	2497.629	2478.616	2521.894
7.0	2514.446	2493.766	2499.826	2483.843	2489.625	2470.864	2514.168
7.5	2505.911	2485.787	2492.125	2475.586	2482.201	2462.885	2505.608
8.0	2498.159	2477.505	2484.398	2467.834	2474.197	2454.048	2498.159
8.5	2490.155	2470.612	2476.116	2459.047	2466.193	2447.710	2491.291
9.0	2483.009	2464.249	2467.582	2452.684	2458.214	2440.564	2484.954
9.5	2476.419	2457.658	2460.663	2445.791	2450.210	2434.504	2479.424
10.0	2468.667	2452.962	2454.351	2440.009	2443.872	2429.530	2474.753
10.5	2463.163	2449.654	2448.013	2435.312	2437.256	2424.556	2470.334
11.0	2458.744	2445.791	2443.316	2430.919	2432.004	2421.273	2466.471
11.5	2454.351	2443.872	2438.342	2427.333	2427.333	2416.854	2463.163
12.0	2451.598	2441.928	2435.312	2424.556	2424.025	2413.824	2460.133

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12.5	2448.013	2439.453	2432.838	2421.803	2420.440	2410.239	2456.825
13.0	2445.513	2436.979	2429.808	2418.521	2417.965	2406.376	2453.795
13.5	2443.872	2432.838	2426.778	2415.188	2414.632	2403.068	2449.654
14.0	2440.564	2429.252	2422.914	2411.072	2411.602	2399.482	2446.346
14.5	2437.509	2424.303	2419.607	2406.376	2407.764	2393.978	2441.928
15.0	2433.393	2419.051	2416.021	2401.679	2403.901	2389.812	2437.509
15.5	2429.530	2414.632	2411.602	2397.008	2399.760	2385.140	2433.141
16.0	2425.667	2409.961	2407.184	2392.311	2395.619	2379.358	2428.722
16.5	2422.637	2404.734	2402.815	2386.529	2391.478	2374.662	2424.303
17.0	2420.970	2400.846	2397.816	2381.580	2387.362	2369.990	2419.607
17.5	2417.385	2396.452	2393.145	2376.858	2381.580	2365.572	2416.299
18.0	2412.991	2392.589	2387.640	2371.909	2376.328	2361.456	2412.713
18.5	2408.017	2389.029	2383.221	2368.071	2373.020	2356.482	2408.017
19.0	2406.653	2384.863	2379.636	2362.819	2371.354	2352.618	2404.734
19.5	2401.401	2381.025	2375.242	2358.123	2363.905	2347.922	2400.593
20.0	2395.341	2376.606	2371.354	2353.704	2357.870	2342.695	2397.286
20.5	2389.812	2372.743	2367.491	2349.866	2351.255	2338.832	2393.397
21.0	2384.610	2367.491	2363.072	2345.447	2346.836	2334.161	2388.726
21.5	2379.358	2361.153	2360.067	2339.665	2339.665	2328.631	2384.863
22.0	2372.743	2355.118	2354.537	2333.883	2333.327	2323.126	2379.358
22.5	2367.491	2350.699	2348.755	2328.075	2328.631	2317.344	2374.409
23.0	2362.542	2344.614	2343.528	2321.460	2323.379	2312.370	2370.546
23.5	2356.759	2339.387	2337.746	2316.233	2318.708	2307.976	2366.683
24.0	2352.063	2335.802	2333.050	2311.537	2313.759	2303.002	2362.542
24.5	2347.669	2333.327	2329.464	2306.588	2308.229	2299.417	2359.789
25.0	2343.251	2331.131	2324.793	2303.255	2303.255	2295.553	2357.315
25.5	2340.751	2330.575	2321.763	2300.805	2298.583	2292.801	2355.371
26.0	2339.665	2330.297	2319.263	2298.861	2295.831	2290.301	2354.285
26.5	2338.832	2329.742	2317.597	2297.220	2294.720	2287.852	2354.285
27.0	2338.554	2328.631	2316.789	2295.831	2293.357	2286.186	2353.452
27.5	2337.999	2329.186	2316.789	2294.720	2292.801	2283.989	2354.007
28.0	2336.913	2330.575	2316.233	2294.190	2291.968	2282.045	2354.815
28.5	2336.913	2333.327	2317.597	2294.468	2290.604	2282.045	2355.926
29.0	2337.999	2336.913	2318.177	2295.553	2289.771	2281.237	2358.123
29.5	2339.943	2342.695	2320.930	2298.306	2289.771	2281.514	2360.320
30.0	2341.584	2349.033	2324.793	2301.336	2290.049	2282.322	2363.375
30.5	2344.336	2357.315	2330.575	2306.032	2291.438	2283.433	2367.238
31.0	2350.119	2367.238	2337.468	2312.648	2294.998	2285.908	2372.187
31.5	2356.482	2376.328	2346.533	2320.930	2298.306	2289.771	2379.080
32.0	2363.375	2385.443	2355.926	2329.186	2300.805	2294.998	2387.362
32.5	2371.657	2398.397	2365.849	2339.943	2307.421	2301.336	2397.563
33.0	2380.747	2412.713	2376.076	2350.119	2315.122	2309.340	2411.072
33.5	2390.392	2430.085	2386.529	2361.153	2323.126	2316.789	2425.667
34.0	2403.346	2445.791	2401.149	2374.939	2332.494	2325.879	2440.842
34.5	2414.935	2460.133	2414.355	2387.362	2342.165	2338.832	2461.799
35.0	2428.419	2480.257	2427.586	2400.316	2354.007	2350.699	2484.120
35.5	2444.124	2503.942	2441.675	2411.880	2364.208	2363.072	2513.612
36.0	2460.411	2536.211	2456.270	2426.778	2376.606	2379.914	2549.190
36.5	2481.621	2590.802	2475.005	2448.846	2391.781	2396.452	2609.537
37.0	2512.224	2664.405	2501.492	2473.919	2407.487	2420.440	2694.731
37.5	2549.442	2743.539	2534.570	2507.830	2428.722	2449.654	2751.518
38.0	2623.324	2824.011	2587.746	2561.840	2453.517	2486.873	2793.963
38.5	2710.436	2907.538	2658.901	2641.251	2488.539	2546.437	2843.302
39.0	2803.609	3008.714	2754.270	2768.334	2544.468	2617.819	2890.443
39.5	2917.739	3063.027	2876.960	2880.798	2620.016	2720.637	2969.299
40.0	2994.928	3069.920	2969.299	2944.756	2724.778	2828.152	3031.869

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40.5	3026.364	3035.454	3021.390	2960.462	2847.443	2859.285	3030.227
41.0	3018.360	2980.333	3038.206	2939.504	2900.367	2837.797	3001.543
41.5	2983.919	2908.649	3008.437	2890.999	2890.443	2784.873	2957.432
42.0	2921.602	2860.674	2946.145	2835.600	2845.801	2745.458	2919.405
42.5	2872.541	2835.600	2891.277	2804.720	2793.963	2724.223	2897.362
43.0	2840.827	2833.126	2853.780	2784.595	2758.108	2716.496	2897.892
43.5	2827.041	2844.135	2832.545	2784.873	2743.791	2720.359	2910.315
44.0	2829.515	2864.537	2829.793	2800.856	2739.953	2738.842	2931.247
44.5	2844.968	2897.614	2838.075	2827.344	2749.851	2765.279	2958.012
45.0	2871.708	2935.388	2859.588	2856.836	2769.698	2794.241	2995.483
45.5	2903.700	2985.535	2887.969	2890.999	2797.271	2832.293	3036.010
46.0	2946.978	3035.176	2922.435	2936.752	2827.041	2874.460	3083.126
46.5	2991.342	3089.211	2968.996	2983.616	2863.451	2926.854	3143.524
47.0	3042.600	3156.477	3019.749	3042.347	2911.679	2977.834	3202.508
47.5	3106.583	3221.799	3081.763	3101.054	2959.628	3034.899	3273.915
48.0	3168.597	3292.928	3142.691	3164.734	3012.855	3103.831	3342.014
48.5	3236.141	3379.763	3206.371	3242.757	3078.177	3168.597	3415.618
49.0	3317.724	3463.568	3284.116	3316.360	3141.858	3247.175	3503.539
49.5	3394.358	3549.569	3356.887	3393.827	3210.765	3322.143	3583.758
50.0	3485.333	3649.357	3435.187	3487.278	3291.565	3401.276	3668.396
50.5	3572.724	3745.030	3529.445	3577.420	3369.840	3494.701	3765.406
51.0	3663.144	3855.549	3619.588	3671.148	3463.290	3583.480	3855.019
51.5	3767.376	3955.362	3723.517	3776.441	3550.403	3675.819	3954.529
52.0	3864.386	4056.817	3820.855	3872.391	3641.656	3777.552	4043.586
52.5	3961.700	4168.169	3919.229	3981.546	3745.307	3871.557	4129.865
53.0	4071.967	4265.205	4025.911	4078.607	3839.591	3966.396	4220.841
53.5	4169.002	4358.377	4119.108	4173.421	3944.883	4064.518	4295.530
54.0	4264.675	4453.772	4205.943	4271.543	4039.167	4145.293	4365.271
54.5	4369.689	4527.653	4298.560	4350.095	4132.617	4224.679	4430.895
55.0	4460.387	4596.030	4371.886	4418.498	4234.349	4290.026	4482.431
55.5	4557.423	4648.954	4433.648	4485.764	4322.825	4344.894	4532.880
56.0	4639.587	4689.733	4484.653	4533.461	4407.994	4393.677	4570.932
56.5	4715.109	4726.144	4529.875	4574.770	4492.632	4427.032	4602.343
57.0	4788.713	4747.909	4567.624	4602.898	4561.564	4452.661	4631.582
57.5	4841.637	4762.504	4597.949	4623.300	4625.522	4468.644	4649.207
58.0	4878.022	4768.311	4626.633	4639.839	4665.493	4478.845	4656.656
58.5	4890.976	4765.837	4643.425	4646.758	4687.284	4482.986	4657.489
59.0	4888.223	4755.080	4647.843	4645.924	4693.066	4479.148	4649.207
59.5	4868.099	4737.430	4647.010	4637.087	4682.284	4468.392	4628.275
60.0	4830.603	4709.605	4634.890	4618.882	4655.822	4443.849	4597.949
60.5	4778.234	4671.553	4612.544	4589.390	4608.428	4413.523	4558.231
61.0	4707.661	4629.638	4584.441	4558.534	4548.611	4372.997	4505.055
61.5	4627.719	4581.688	4549.419	4519.927	4472.507	4316.488	4447.434
62.0	4530.961	4516.897	4503.388	4464.225	4366.659	4253.918	4378.805
62.5	4400.848	4444.404	4445.237	4399.207	4256.115	4164.028	4296.919
63.0	4271.290	4349.313	4385.420	4309.872	4122.972	4065.073	4210.640
63.5	4113.301	4248.666	4312.347	4216.977	3993.136	3956.195	4112.215
64.0	3955.362	4136.455	4241.217	4104.211	3851.433	3820.022	4014.902
64.5	3783.334	3990.081	4157.413	3960.892	3673.623	3683.824	3909.331
65.0	3590.096	3842.596	4057.902	3816.437	3505.205	3534.697	3781.945
65.5	3407.336	3681.602	3958.392	3662.311	3333.177	3359.639	3655.165
66.0	3218.769	3485.081	3847.848	3480.384	3137.439	3191.221	3510.407
66.5	3005.962	3296.766	3707.533	3302.852	2957.432	2992.706	3326.006
67.0	2804.164	3075.147	3567.219	3115.673	2749.574	2799.468	3151.225
67.5	2569.011	2852.139	3404.281	2887.969	2556.335	2596.028	2950.261
68.0	2355.648	2616.708	3232.556	2668.521	2353.704	2358.956	2752.326

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CANDELA TABULATION - (Cont.)

68.5	2135.645	2352.341	3031.869	2420.440	2122.692	2144.230	2538.433
69.0	1888.927	2099.841	2803.609	2197.129	1913.470	1897.209	2266.339
69.5	1661.804	1835.448	2585.550	1951.244	1698.164	1659.051	2000.861
70.0	1433.544	1544.088	2336.635	1668.975	1463.036	1477.908	1756.895
70.5	1183.493	1417.838	2037.524	1482.074	1250.229	1169.706	1514.015
71.0	953.718	1059.010	1739.826	1155.188	971.065	974.928	1175.716
71.5	770.933	820.171	1453.946	938.694	816.484	765.883	902.940
72.0	609.510	603.374	1012.752	717.757	659.631	542.244	674.251
72.5	449.324	424.781	874.559	489.093	488.285	373.296	488.158
73.0	302.243	325.599	590.042	345.420	347.743	266.160	352.288
73.5	219.322	263.029	394.380	265.580	237.072	207.050	290.047
74.0	178.644	218.185	285.679	214.751	174.503	179.906	256.161
74.5	163.090	189.981	235.507	185.209	155.060	160.540	235.557
75.0	157.333	167.610	211.898	164.832	146.526	148.773	220.811
75.5	151.929	154.909	196.117	148.748	142.107	141.274	209.297
76.0	146.955	149.101	183.972	141.223	138.496	136.123	200.990
76.5	141.627	143.496	176.169	136.401	133.850	131.401	192.304
77.0	135.113	138.067	168.165	129.507	128.800	125.619	182.633
77.5	128.472	129.810	160.817	123.069	123.144	117.842	173.417
78.0	121.554	120.695	152.788	114.812	116.276	110.292	163.292
78.5	113.676	112.514	143.395	107.212	109.661	101.455	151.374
79.0	106.707	103.374	134.583	99.763	9.797	93.501	140.971
79.5	97.213	95.142	125.316	91.178	95.142	85.547	127.942
80.0	92.567	86.885	114.711	83.477	89.032	76.457	117.286
80.5	85.699	77.947	104.990	74.690	81.583	68.781	106.984
81.0	77.997	69.917	93.602	67.291	75.094	61.408	95.950
81.5	71.129	62.039	86.658	60.221	68.655	54.060	86.759
82.0	64.590	53.808	78.376	52.722	62.039	48.152	78.098
82.5	57.797	47.495	69.715	46.586	56.409	42.597	69.337
83.0	52.242	41.637	62.544	40.703	50.450	38.153	62.090
83.5	46.814	37.193	56.282	36.209	45.046	34.214	54.742
84.0	40.855	33.204	49.844	32.219	39.744	30.300	48.960
84.5	36.158	29.189	44.743	28.381	35.072	27.144	43.683
85.0	32.068	25.982	39.718	25.503	31.866	24.240	38.052
85.5	28.911	23.205	35.577	22.902	28.886	21.084	32.749
86.0	26.134	20.175	31.941	20.049	25.831	17.473	26.689
86.5	23.079	17.145	28.154	16.690	23.129	12.499	18.811
87.0	19.922	12.726	24.467	12.524	19.518	10.125	12.777
87.5	15.276	9.848	19.619	9.772	14.569	5.782	7.903
88.0	11.363	6.186	14.317	5.606	7.929	1.162	3.030
88.5	4.570	1.667	7.929	1.035	3.358	0.126	0.152
89.0	1.768	0.152	2.778	0.051	1.566	0.025	0.000
89.5	1.338	0.000	1.515	0.076	1.136	0.051	0.000
90.0	1.061	0.000	1.212	0.025	1.111	0.025	0.000
90.5	1.111	0.025	1.263	0.000	0.909	0.000	0.025
91.0	1.061	0.000	1.263	0.000	0.884	0.000	0.000
91.5	0.934	0.000	1.086	0.000	0.909	0.051	0.000
92.0	0.960	0.000	0.985	0.000	0.934	0.000	0.000
92.5	0.859	0.025	0.909	0.000	0.808	0.076	0.000
93.0	0.859	0.000	0.909	0.051	0.833	0.051	0.051
93.5	0.783	0.051	0.960	0.051	0.732	0.051	0.000
94.0	0.808	0.126	1.010	0.101	0.808	0.051	0.025
94.5	0.707	0.076	0.682	0.025	0.732	0.000	0.000
95.0	0.833	0.051	0.859	0.025	0.556	0.051	0.025
95.5	0.732	0.025	0.859	0.000	0.682	0.051	0.000
96.0	0.758	0.051	0.657	0.076	0.707	0.076	0.000

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CANDELA TABULATION - (Cont.)

96.5	0.657	0.025	0.606	0.101	0.606	0.025	0.025
97.0	0.657	0.076	0.707	0.126	0.808	0.025	0.000
97.5	0.682	0.076	0.732	0.051	0.682	0.076	0.000
98.0	0.606	0.025	0.682	0.076	0.606	0.051	0.051
98.5	0.707	0.076	0.758	0.076	0.758	0.025	0.051
99.0	0.657	0.025	0.707	0.076	0.530	0.177	0.000
99.5	0.556	0.101	0.631	0.051	0.556	0.076	0.000
100.0	0.606	0.101	0.556	0.051	0.631	0.101	0.000
100.5	0.682	0.025	0.657	0.126	0.556	0.152	0.076
101.0	0.606	0.152	0.682	0.152	0.682	0.152	0.051
101.5	0.657	0.126	0.682	0.126	0.556	0.076	0.025
102.0	0.657	0.152	0.631	0.101	0.606	0.076	0.101
102.5	0.631	0.101	0.657	0.152	0.707	0.126	0.025
103.0	0.556	0.152	0.556	0.152	0.631	0.152	0.025
103.5	0.631	0.101	0.682	0.101	0.631	0.126	0.076
104.0	0.606	0.202	0.707	0.076	0.581	0.101	0.101
104.5	0.682	0.101	0.682	0.177	0.606	0.101	0.126
105.0	0.682	0.101	0.682	0.152	0.631	0.152	0.227
105.5	0.682	0.126	0.682	0.227	0.606	0.126	0.101
106.0	0.707	0.152	0.606	0.253	0.581	0.126	0.076
106.5	0.606	0.177	0.657	0.152	0.707	0.152	0.152
107.0	0.732	0.278	0.657	0.126	0.682	0.177	0.152
107.5	0.758	0.177	0.657	0.253	0.707	0.202	0.126
108.0	0.657	0.253	0.732	0.354	0.707	0.177	0.101
108.5	0.606	0.152	0.732	0.177	0.606	0.177	0.101
109.0	0.657	0.152	0.657	0.177	0.682	0.227	0.177
109.5	0.657	0.202	0.682	0.202	0.606	0.202	0.152
110.0	0.631	0.202	0.833	0.253	0.682	0.328	0.227
110.5	0.581	0.278	0.833	0.227	0.859	0.177	0.303
111.0	0.732	0.227	0.631	0.177	0.581	0.303	0.253
111.5	0.732	0.278	0.682	0.379	0.732	0.328	0.278
112.0	0.732	0.278	0.707	0.202	0.682	0.328	0.227
112.5	0.707	0.328	0.732	0.202	0.682	0.328	0.303
113.0	0.682	0.328	0.682	0.278	0.682	0.303	0.177
113.5	0.732	0.379	0.657	0.303	0.758	0.328	0.177
114.0	0.631	0.328	0.631	0.278	0.657	0.303	0.253
114.5	0.783	0.404	0.732	0.278	0.707	0.429	0.253
115.0	0.657	0.379	0.707	0.404	0.682	0.303	0.227
115.5	0.707	0.379	0.833	0.328	0.707	0.328	0.227
116.0	0.808	0.354	0.682	0.379	0.606	0.379	0.278
116.5	0.783	0.379	0.808	0.404	0.707	0.404	0.303
117.0	0.808	0.379	0.631	0.379	0.732	0.328	0.253
117.5	0.682	0.379	0.859	0.404	0.758	0.354	0.253
118.0	0.884	0.404	0.783	0.505	0.682	0.354	0.202
118.5	0.783	0.328	0.783	0.354	0.732	0.303	0.278
119.0	0.682	0.354	0.808	0.404	0.833	0.505	0.278
119.5	0.808	0.328	0.833	0.354	0.631	0.404	0.354
120.0	0.808	0.404	0.859	0.379	0.732	0.404	0.354
120.5	0.758	0.354	0.758	0.581	0.758	0.556	0.328
121.0	0.732	0.404	0.833	0.379	0.707	0.303	0.379
121.5	0.758	0.404	0.732	0.480	0.657	0.404	0.328
122.0	0.884	0.328	0.783	0.429	0.631	0.404	0.278
122.5	0.859	0.480	0.783	0.379	0.859	0.379	0.379
123.0	0.682	0.404	0.758	0.480	0.758	0.404	0.354
123.5	0.682	0.530	0.682	0.404	0.758	0.530	0.303
124.0	0.758	0.581	0.707	0.429	0.732	0.530	0.328

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CANDELA TABULATION - (Cont.)

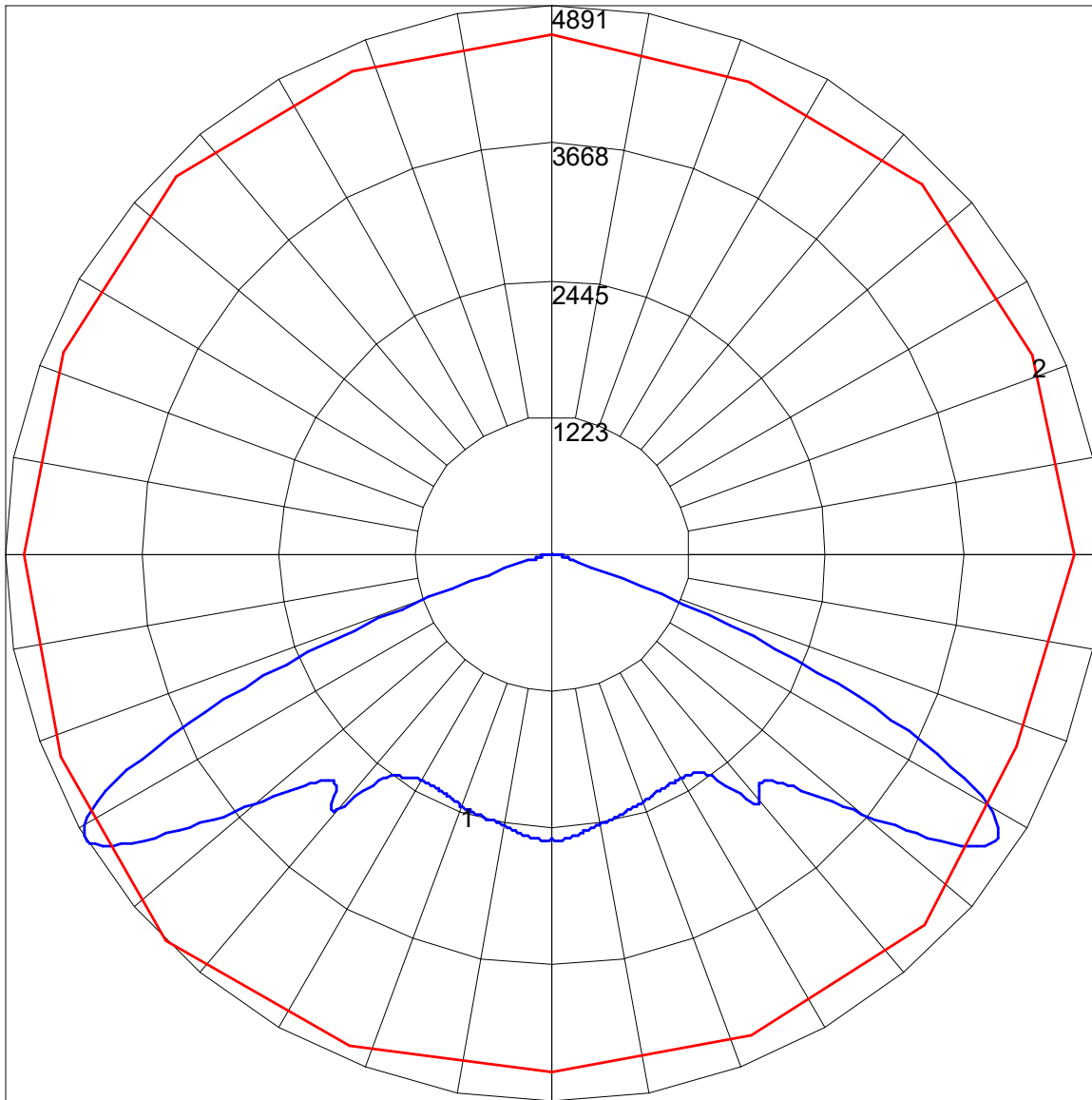
124.5	0.833	0.429	0.833	0.505	0.707	0.328	0.278
125.0	0.808	0.429	0.707	0.530	0.732	0.328	0.303
125.5	0.606	0.354	0.833	0.480	0.758	0.505	0.177
126.0	0.833	0.429	0.808	0.480	0.707	0.404	0.303
126.5	0.682	0.480	0.859	0.556	0.783	0.505	0.379
127.0	0.783	0.530	0.808	0.556	0.682	0.556	0.429
127.5	0.859	0.429	0.884	0.480	0.707	0.480	0.379
128.0	0.682	0.480	0.783	0.480	0.732	0.480	0.505
128.5	0.758	0.505	0.707	0.379	0.657	0.328	0.505
129.0	0.732	0.530	0.808	0.404	0.783	0.581	0.379
129.5	0.758	0.429	0.833	0.530	0.909	0.480	0.303
130.0	0.657	0.505	0.682	0.530	0.682	0.556	0.303
130.5	0.783	0.404	0.732	0.429	0.682	0.505	0.303
131.0	0.808	0.530	0.783	0.606	0.732	0.556	0.480
131.5	0.707	0.328	0.758	0.606	0.783	0.480	0.404
132.0	0.707	0.682	0.758	0.581	0.732	0.530	0.404
132.5	0.732	0.530	0.783	0.530	0.732	0.556	0.480
133.0	0.732	0.556	0.833	0.556	0.707	0.404	0.354
133.5	0.859	0.429	0.732	0.480	0.808	0.480	0.556
134.0	0.783	0.505	0.833	0.581	0.657	0.581	0.404
134.5	0.758	0.505	0.783	0.657	0.657	0.581	0.505
135.0	0.707	0.530	0.707	0.530	0.833	0.480	0.404
135.5	0.631	0.631	0.783	0.657	0.682	0.480	0.404
136.0	0.859	0.606	0.707	0.581	0.707	0.480	0.429
136.5	0.859	0.480	0.758	0.581	0.606	0.606	0.429
137.0	0.833	0.606	0.859	0.657	0.808	0.429	0.480
137.5	0.682	0.530	0.808	0.556	0.783	0.530	0.556
138.0	0.808	0.505	0.859	0.530	0.833	0.581	0.354
138.5	0.657	0.556	0.758	0.556	0.631	0.505	0.556
139.0	0.682	0.530	0.707	0.556	0.707	0.631	0.530
139.5	0.682	0.657	0.783	0.556	0.631	0.480	0.631
140.0	0.808	0.480	0.833	0.556	0.732	0.530	0.505
140.5	0.808	0.556	0.808	0.657	0.808	0.480	0.606
141.0	0.682	0.581	0.808	0.556	0.783	0.631	0.682
141.5	0.682	0.505	0.758	0.631	0.960	0.530	0.556
142.0	0.833	0.707	0.758	0.606	0.909	0.631	0.530
142.5	0.909	0.606	0.682	0.556	0.808	0.631	0.505
143.0	0.707	0.606	0.758	0.581	0.758	0.530	0.606
143.5	0.657	0.556	0.682	0.480	0.707	0.581	0.657
144.0	0.808	0.657	0.732	0.581	0.707	0.505	0.707
144.5	0.707	0.404	0.783	0.556	0.808	0.556	0.682
145.0	0.783	0.530	0.808	0.556	0.682	0.631	0.657
145.5	0.707	0.581	0.732	0.530	0.732	0.581	0.657
146.0	0.758	0.505	0.783	0.556	0.682	0.581	0.581
146.5	0.657	0.505	0.808	0.429	0.732	0.379	0.657
147.0	0.682	0.530	0.732	0.556	0.581	0.556	0.682
147.5	0.657	0.354	0.682	0.505	0.682	0.379	0.758
148.0	0.732	0.429	0.682	0.606	0.682	0.530	0.732
148.5	0.732	0.379	0.682	0.556	0.758	0.530	0.631
149.0	0.732	0.505	0.707	0.530	0.657	0.556	0.631
149.5	0.657	0.556	0.732	0.429	0.707	0.530	0.505
150.0	0.783	0.631	0.682	0.404	0.707	0.606	0.505
150.5	0.581	0.606	0.783	0.581	0.682	0.581	0.556
151.0	0.657	0.429	0.682	0.480	0.682	0.581	0.631
151.5	0.606	0.379	0.606	0.379	0.631	0.480	0.606
152.0	0.707	0.404	0.682	0.379	0.682	0.404	0.530

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CANDELA TABULATION - (Cont.)

152.5	0.631	0.480	0.631	0.505	0.631	0.505	0.606
153.0	0.707	0.505	0.631	0.480	0.606	0.480	0.707
153.5	0.606	0.530	0.682	0.429	0.505	0.556	0.631
154.0	0.530	0.404	0.682	0.581	0.707	0.404	0.732
154.5	0.707	0.429	0.631	0.379	0.505	0.404	0.631
155.0	0.631	0.429	0.606	0.404	0.657	0.379	0.657
155.5	0.556	0.379	0.581	0.480	0.556	0.379	0.657
156.0	0.657	0.606	0.606	0.530	0.581	0.556	0.581
156.5	0.657	0.480	0.556	0.480	0.581	0.354	0.530
157.0	0.581	0.429	0.758	0.429	0.556	0.505	0.606
157.5	0.606	0.404	0.657	0.530	0.581	0.404	0.631
158.0	0.606	0.404	0.581	0.379	0.556	0.429	0.530
158.5	0.581	0.429	0.581	0.404	0.606	0.480	0.682
159.0	0.581	0.404	0.556	0.530	0.404	0.328	0.581
159.5	0.556	0.354	0.505	0.379	0.505	0.480	0.556
160.0	0.732	0.429	0.556	0.429	0.530	0.303	0.732
160.5	0.631	0.404	0.429	0.606	0.606	0.480	0.530
161.0	0.606	0.429	0.606	0.480	0.732	0.328	0.556
161.5	0.581	0.505	0.429	0.505	0.530	0.429	0.530
162.0	0.429	0.505	0.404	0.429	0.505	0.404	0.606
162.5	0.429	0.328	0.530	0.429	0.581	0.379	0.606
163.0	0.530	0.480	0.530	0.530	0.606	0.581	0.505
163.5	0.631	0.379	0.606	0.379	0.505	0.429	0.530
164.0	0.505	0.354	0.480	0.530	0.581	0.354	0.530
164.5	0.505	0.480	0.480	0.379	0.480	0.429	0.505
165.0	0.556	0.480	0.505	0.505	0.480	0.379	0.606
165.5	0.505	0.505	0.556	0.328	0.530	0.556	0.581
166.0	0.404	0.505	0.429	0.328	0.631	0.354	0.379
166.5	0.530	0.480	0.556	0.379	0.581	0.530	0.404
167.0	0.631	0.581	0.631	0.556	0.505	0.429	0.505
167.5	0.480	0.530	0.556	0.354	0.480	0.379	0.556
168.0	0.556	0.530	0.606	0.505	0.505	0.505	0.530
168.5	0.379	0.404	0.505	0.328	0.480	0.404	0.429
169.0	0.480	0.404	0.631	0.404	0.556	0.480	0.581
169.5	0.606	0.505	0.530	0.480	0.530	0.379	0.480
170.0	0.530	0.379	0.505	0.505	0.530	0.354	0.404
170.5	0.505	0.379	0.556	0.379	0.303	0.404	0.379
171.0	0.505	0.354	0.505	0.354	0.480	0.379	0.354
171.5	0.631	0.354	0.480	0.328	0.379	0.227	0.530
172.0	0.530	0.303	0.429	0.429	0.581	0.253	0.379
172.5	0.480	0.354	0.379	0.404	0.480	0.379	0.556
173.0	0.429	0.505	0.404	0.354	0.328	0.379	0.530
173.5	0.354	0.278	0.505	0.354	0.379	0.379	0.429
174.0	0.429	0.328	0.303	0.429	0.404	0.328	0.480
174.5	0.328	0.379	0.480	0.404	0.328	0.354	0.480
175.0	0.480	0.303	0.328	0.379	0.480	0.328	0.429
175.5	0.328	0.354	0.429	0.354	0.404	0.379	0.278
176.0	0.404	0.429	0.429	0.354	0.278	0.303	0.379
176.5	0.429	0.328	0.303	0.253	0.354	0.303	0.404
177.0	0.328	0.328	0.328	0.227	0.328	0.379	0.303
177.5	0.379	0.328	0.379	0.303	0.303	0.328	0.404
178.0	0.278	0.328	0.278	0.379	0.328	0.354	0.227
178.5	0.379	0.404	0.379	0.278	0.278	0.253	0.253
179.0	0.404	0.328	0.404	0.354	0.354	0.303	0.404
179.5	0.354	0.354	0.379	0.303	0.303	0.328	0.379
180.0	0.326	0.326	0.326	0.326	0.326	0.326	0.326

POLAR GRAPH



Maximum Candela = 4890.976 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.)