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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] RADIANT ZEMAX
[TESTDATE] 20200629
[ISSUEDATE] 2020-06-29 11:08:11
[MANUFAC] Larson Electronics LLC
[LUMCAT] EPL-HB-2X300LED-RT-60DB
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED FIXTURE - 60 DEGREE BEAM
[LAMP] LED
[LAMPPOSITION] 0,0
[OTHER] ZVISION 9107GT SYSTEM

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS



NEMA Type	6 H x 6 V
Maximum Candela	74543.037
Maximum Candela Angle	0H 1V
Horizontal Beam Angle (50%)	55.7
Vertical Beam Angle (50%)	56.3
Horizontal Field Angle (10%)	109.6
Vertical Field Angle (10%)	108.9
Lumens Per Lamp	83245 (1 lamp)
Total Lamp Lumens	83245
Beam Lumens	39957
Beam Efficiency	48 %
Field Lumens	79579
Field Efficiency	96 %
Spill Lumens	3769
Luminaire Lumens	83348
Total Efficiency	100 %
Total Luminaire Watts	597.92
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.824	90	0
85	3.009	85	9.712
75	218.174	75	270.973
65	568.893	65	604.184
55	4002.495	55	6697.59
47.5	14254.606	47.5	17308.49
42.5	20196.727	42.5	21970.841
37.5	23416.533	37.5	24950.177
33	26601.732	33	29046.371
29	31806.165	29	35305.151
25.5	37940.881	25.5	41958.149
22.5	43832.254	22.5	48079.459
19.5	49949.187	19.5	54227.717
17	55020.802	17	59155.843
15	58806.355	15	62717.614
13	62344.188	13	65916.354
11	65417.632	11	68586.417
9	68075.795	9	70777.182
7	70235.235	7	72451.305
5	71962.979	5	73678.823
3	73127.849	3	74524.161
1	73834.212	1	74543.037
0	74010.803	0	74010.803
-1	74109.015	-1	74500.223
-3	73889.474	-3	74070.852
-5	73360.796	-5	73212.383
-7	72475.243	-7	72067.484
-9	71253.744	-9	70450.537
-11	69654.169	-11	68475.757
-13	67638.216	-13	66000.204
-15	65108.496	-15	62715.972
-17	62171.017	-17	59693.412
-19.5	57796.874	-19.5	55037.079
-22.5	51965.276	-22.5	48930.815
-25.5	45917.009	-25.5	42676.549
-29	38835.598	-29	35950.234
-33	31731.617	-33	29663.276
-37.5	26120.929	-37.5	25189.006
-42.5	22829.584	-42.5	21911.203
-47.5	19181.091	-47.5	17038.201
-55	9309.929	-55	6624.956
-65	703.764	-65	642.621
-75	350.719	-75	299.561
-85	48.149	-85	16.961
-90	.003	-90	1.365

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CANDELA TABULATION
Maximum Candela = 74543.037
Beam Edge = 37271.5185 Cd (50% of Max.)
Field Edge = 7454.3037 Cd (10% of Max.)
* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	**-85.0**	**-75.0**	**-65.0**	**-55.0**	**-47.5**	**-42.5**	**-37.5**	**-33.0**	**-29.0**
90.0	0.001	0.487	1.464	1.956	0.980	0.245	0.123	0.369	0.591	0.788
85.0	0.001	0.894	3.791	9.913	10.156	10.494	12.222	16.225	19.463	22.797
75.0	0.002	1.828	31.315	85.979	127.482	157.589	175.724	211.406	241.309	264.008
65.0	0.002	6.503	82.975	214.414	322.851	398.467	446.058	495.902	530.779	561.160
55.0	0.002	12.979	148.351	348.945	518.000	614.119	698.724	877.419	1622.999	2714.773
47.5	0.003	19.887	195.767	448.598	645.765	1150.291	2790.598	5444.438	8061.076	*10564.182 *
42.5	0.003	24.239	225.116	501.522	776.213	3141.926	6542.235	10152.631	*3360.912	*6150.968 *
37.5	0.003	28.673	253.745	531.108	1355.909	6362.979	10667.278	*4950.422	*8137.353	*0371.436 *
33.0	0.003	32.379	278.026	569.973	2489.261	9283.855	*4275.785	*8513.522	*1069.814	*2437.430 *
29.0	0.003	35.866	295.022	595.980	3753.043	11917.514	*7070.774	*0780.081	*2635.156	*4119.874 *
25.5	0.003	38.592	307.747	620.776	4903.381	13871.935	*9014.572	*2026.760	*3855.433	*5663.786 *
22.5	0.003	40.833	318.285	637.527	5617.173	15254.818	*0321.703	*2869.069	*4941.166	*7504.732 *
19.5	0.003	42.779	327.198	655.779	6732.887	16414.884	*1057.846	*3725.793	*6153.064	*9601.103 *
17.0	0.003	44.175	333.316	666.905	7436.061	17201.547	*1559.021	*4219.133	*7272.604	*1690.755 *
15.0	0.003	45.142	338.218	675.966	7943.828	*17739.619	*1920.993	*4625.657	*8245.474	*3351.508 *
13.0	0.003	45.975	341.596	684.919	8308.748	*18160.770	*2203.239	*4973.346	*9038.690	*5037.866 *
11.0	0.003	48.666	345.101	692.172	8616.848	*18508.577	*2372.164	*5299.791	*9964.112	*6092.836 *
9.0	0.003	48.573	347.831	699.210	8889.792	*18804.443	*2541.782	*5596.301	*0591.399	*7094.285 *
7.0	0.003	48.480	349.793	703.933	9100.144	*19012.349	*2671.582	*5852.887	*1041.411	*7883.195 *
5.0	0.003	48.385	353.289	706.443	9243.788	*19136.455	*2773.166	*5997.662	*1441.306	*8472.670 *
3.0	0.003	48.291	352.262	708.948	9395.605	*19270.776	*2881.412	*6108.126	*1686.855	*8791.683 *
1.0	0.003	48.196	351.234	705.493	9338.511	*19211.018	*2846.884	*6146.957	*1783.211	*8907.890 *
0.0	0.003	48.149	350.719	703.764	9309.929	*19181.091	*2829.584	*6120.929	*1731.617	*8835.598 *
-1.0	0.003	48.149	351.224	706.239	9335.582	*19198.670	*2844.642	*6154.047	*1810.286	*8940.561 *
-3.0	0.003	48.380	352.233	711.184	9386.827	*19233.770	*2874.695	*6129.831	*1763.677	*8881.807 *
-5.0	0.003	48.534	353.240	709.569	9229.965	*19072.011	*2760.621	*6035.107	*1556.391	*8599.767 *
-7.0	0.003	48.688	349.815	707.504	9081.886	*18918.549	*2652.254	*5907.366	*1199.242	*8077.934 *
-9.0	0.003	48.840	347.937	702.431	8868.176	*18689.110	*2510.590	*5650.816	*0825.074	*7376.701 *
-11.0	0.003	48.992	345.345	694.032	8580.231	*18388.670	*2318.309	*5345.627	*0234.669	*6435.115 *
-13.0	0.003	46.384	342.047	685.999	8251.773	*18026.759	*2110.834	*5006.749	*9325.870	*5443.940 *
-15.0	0.003	45.621	338.917	675.857	7908.006	*17571.331	*1819.449	*4620.192	*8493.956	*3733.698 *
-17.0	0.003	44.728	334.198	665.905	7412.761	17020.316	*1403.295	*4228.592	*7506.959	*2038.177 *
-19.5	0.003	43.431	328.335	654.058	6694.069	16244.607	*0837.750	*3677.205	*6251.765	*0935.277 *
-22.5	0.003	41.610	319.543	634.513	5621.550	15068.227	*0026.904	*2776.776	*4951.701	*7678.307 *
-25.5	0.002	39.506	308.876	619.534	4871.234	13695.915	*8683.240	*1789.868	*3795.902	*5696.097 *
-29.0	0.002	36.775	295.832	595.533	3744.543	11737.090	*6743.217	*0416.061	*2450.930	*4031.606 *
-33.0	0.002	33.202	277.664	570.425	2538.773	9181.054	*3965.146	*8053.689	*0610.853	*2182.254 *
-37.5	0.002	29.359	255.087	535.901	1440.448	6235.610	10412.137	*4510.895	*7578.771	*9833.877 *
-42.5	0.002	24.896	228.607	499.578	809.196	3155.578	6413.911	9826.180	*2905.771	*5553.991 *
-47.5	0.002	20.504	200.689	446.664	643.533	1259.705	2818.252	5236.628	7815.750	*0130.335 *
-55.0	0.002	13.552	152.956	353.829	519.521	617.411	708.665	1004.420	1775.978	2752.402
-65.0	0.001	6.965	89.929	223.720	329.066	404.853	447.995	498.361	531.139	567.000
-75.0	0.001	2.078	34.354	97.013	138.304	168.964	190.129	226.881	253.849	275.369
-85.0	0.000	0.955	4.564	11.999	13.163	15.074	17.608	21.663	24.668	27.790
-90.0	0.000	0.669	2.009	2.681	1.342	0.336	0.138	0.413	0.661	0.882

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	-25.5	**-22.5**	**-19.5**	**-17.0**	**-15.0**	**-13.0**	**-11.0**	**-9.0**	**-7.0**	**-5.0**
90.0	0.961	1.109	0.962	0.838	0.740	0.641	0.543	0.444	0.345	0.247
85.0	25.664	27.967	26.626	25.147	23.784	22.274	21.794	19.597	17.401	15.204
75.0	284.905	298.872	301.605	300.450	299.781	297.557	295.460	292.631	289.073	286.988
65.0	586.512	605.667	620.495	626.978	631.068	633.599	633.680	631.623	627.990	622.871
55.0	3840.509	4762.470	5579.243	6127.236	6570.612	6817.759	6958.030	7066.589	7110.287	7079.155
47.5	12555.18	14031.67	11*5377.87	41*6354.36	11*6730.04	61*7049.71	51*7304.37	81*7451.93	81*7539.20	11*7566.038 *
42.5	18103.60	41*9541.40	12*0475.52	12*1130.19	92*1570.27	12*1737.18	72*1841.83	42*1966.79	92*2048.88	52*2078.588 *
37.5	21657.79	52*2463.64	82*3242.61	62*3744.38	22*4160.22	32*4475.61	12*4712.00	72*4878.21	02*5040.69	22*5075.305 *
33.0	23565.48	62*4542.38	72*5557.95	92*6467.57	22*7195.62	22*7950.71	22*8566.48	82*8935.03	22*9158.22	92*9309.153 *
29.0	25401.55	02*6994.53	82*8689.97	33*0392.78	43*1794.47	73*3165.85	63*4296.95	33*4972.81	03*5440.01	43*5661.625 *
25.5	27672.00	62*9956.22	63*2765.83	63*5177.35	63*7033.75	53*8796.51	44*0358.98	74*1524.47	94*2110.66	14*2455.139 *
22.5	30438.03	53*3436.56	43*6765.69	83*9675.15	04*1955.58	54*4002.96	64*5880.14	14*7514.99	94*8223.11	74*8669.292 *
19.5	33614.82	83*7343.52	44*1056.25	84*4285.65	44*6856.32	74*9131.70	45*1189.16	15*3041.94	15*4261.46	95*4713.986 *
17.0	36366.23	44*0614.39	14*4827.16	94*8037.36	75*0677.11	55*3169.22	25*5439.36	85*7414.89	45*9026.98	05*9600.244 *
15.0	38548.00	94*3163.97	24*7673.71	45*1134.60	95*3755.32	05*6159.22	15*8616.29	36*0652.76	16*2355.18	36*3299.009 *
13.0	40583.23	04*5594.29	05*0313.69	25*3972.20	35*6609.14	35*8954.42	66*1375.37	36*3517.04	76*5176.73	56*6282.596 *
11.0	42455.54	94*7811.52	05*2747.69	95*6595.07	15*9397.70	56*1760.06	76*3792.70	26*5815.73	56*7449.17	56*8715.878 *
9.0	43653.31	74*9515.20	05*4983.20	25*8890.60	16*1730.46	26*4102.06	36*6091.36	86*7734.27	06*9241.58	77*0361.244 *
7.0	44700.80	45*0609.83	95*6352.83	76*0785.80	76*3654.35	96*5971.00	76*7925.69	46*9456.28	67*0637.78	77*1815.540 *
5.0	45384.81	45*1446.64	15*7260.78	36*1645.65	46*4704.97	36*7249.69	26*9358.78	07*0759.46	07*1954.26	87*2790.060 *
3.0	45836.71	15*1875.92	65*7750.80	06*2128.93	26*5123.28	16*7687.46	06*9758.92	97*1438.06	77*2729.67	47*3466.317 *
1.0	46009.08	95*2066.95	15*7914.28	66*2298.73	16*5243.04	66*7780.24	16*9808.78	07*1431.50	27*2674.47	47*3592.883 *
0.0	45917.00	95*1965.27	65*7796.87	46*2171.01	76*5108.49	66*7638.21	66*9654.16	97*1253.74	47*2475.24	37*3360.796 *
-1.0	46035.37	05*2098.01	75*7937.13	36*2278.13	46*5208.90	56*7719.97	76*9713.80	57*1290.86	37*2461.81	77*3311.416 *
-3.0	45925.75	35*1970.26	95*7811.01	06*2077.26	96*5030.96	16*7497.46	56*9501.42	47*1013.74	07*2134.64	47*2703.923 *
-5.0	45562.69	05*1606.71	95*7361.98	56*1612.21	46*4545.38	96*6997.27	86*8932.16	97*0146.13	17*1147.81	27*1696.308 *
-7.0	44900.82	75*0909.05	05*6597.23	06*0786.77	66*3524.05	46*5617.92	86*7398.92	06*8730.13	26*9679.64	77*0719.931 *
-9.0	43973.05	04*9819.88	95*5245.02	55*9020.24	86*1587.41	86*3745.38	06*5515.96	66*6905.42	76*8273.98	56*9288.901 *
-11.0	42815.48	44*8182.71	35*3063.30	25*6780.25	65*9366.82	56*1493.37	36*3256.35	16*5035.92	16*6468.33	36*7598.559 *
-13.0	40950.32	54*5925.82	65*0636.60	25*4233.65	05*6734.43	35*8885.31	86*1012.55	26*2812.11	46*4233.22	36*5259.310 *
-15.0	38863.92	54*3452.69	64*7970.53	85*1414.93	55*3994.76	65*6243.15	45*8474.21	56*0205.70	16*1662.59	56*2570.454 *
-17.0	36740.29	44*0867.81	04*5084.72	74*8301.18	45*0933.21	65*3344.22	95*5490.97	75*7241.23	65*8685.26	75*9391.102 *
-19.5	33997.30	13*7623.27	54*1267.27	14*4503.04	64*7024.79	54*9295.70	25*1337.95	75*3056.63	15*4292.30	45*4977.576 *
-22.5	30750.81	03*3839.33	13*7021.90	63*9859.16	04*2055.74	74*4135.07	44*5959.78	94*7557.08	94*8433.51	94*9015.486 *
-25.5	27873.10	03*0265.98	63*3114.24	53*5429.38	53*7224.48	13*8893.03	54*0456.22	64*1575.49	64*2344.54	54*2775.418 *
-29.0	25383.55	22*7084.43	92*8928.73	63*0665.72	03*2036.49	63*3413.34	33*4451.66	63*5216.53	33*5772.35	73*6126.880 *
-33.0	23408.25	52*4410.04	32*5453.62	92*6393.11	32*7213.90	32*8009.50	32*8780.44	92*9223.92	72*9534.36	12*9767.462 *
-37.5	21156.76	62*2104.57	42*2971.81	22*3475.44	52*3905.92	42*4256.84	82*4558.59	12*4816.44	42*5032.15	72*5141.286 *
-42.5	17450.43	41*8840.72	41*9813.98	72*0454.59	42*0916.15	92*1230.34	22*1418.34	62*1617.24	42*1775.35	52*1880.193 *
-47.5	12002.12	51*3447.18	91*4711.26	11*5622.15	91*6081.56	71*6431.35	31*6731.83	61*6966.72	11*7114.63	91*7182.149 *
-55.0	3743.521	4615.130	5392.118	5903.735	6261.718	6555.112	6656.339	6708.226	6805.691	6843.360
-65.0	596.177	614.930	632.501	639.760	644.887	648.766	651.275	652.995	653.162	651.851
-75.0	291.501	304.462	309.347	310.802	312.090	311.731	311.607	310.885	309.537	309.755
-85.0	30.445	32.664	31.841	30.743	29.653	28.388	28.305	26.243	24.180	22.118
-90.0	1.075	1.241	1.258	1.272	1.283	1.294	1.305	1.316	1.327	1.338

Vert. Angles	Horizontal Angles									
	-3.0	**-1.0**	**0.0**	**1.0**	**3.0**	**5.0**	**7.0**	**9.0**	**11.0**	**13.0**
90.0	0.148	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	13.007	10.810	9.712	9.279	8.412	7.546	6.679	5.813	4.946	3.608
75.0	280.583	274.177	270.973	268.474	263.478	258.482	249.353	241.726	233.492	224.675
65.0	617.704	608.692	604.184	602.031	597.726	590.028	582.628	574.355	565.290	555.865

CANDELA TABULATION - (Cont.)

55.0	7048.035	6814.451	6697.590	6581.620	6349.817	5932.524	5528.510	5072.912	4566.275	4049.297
47.5	17617.492	17411.561	17308.490	17159.782	16862.672	16293.971	15740.881	15101.649	14364.227	13559.297 *
42.5	22119.508	22020.444	21970.841	21867.207	21660.241	21287.860	20909.374	20459.734	19927.456	19370.508 *
37.5	25074.732	25014.379	24950.177	24845.637	24572.871	24251.951	23910.694	23458.504	22992.386	22500.843 *
33.0	29313.919	29188.064	29046.371	28863.389	28356.993	27765.060	27104.841	26454.278	25757.194	24986.262 *
29.0	35693.611	35523.583	35305.151	35002.430	34139.927	33102.195	31943.037	30682.191	29335.761	28455.029 *
25.5	42493.619	42246.631	41958.149	41561.646	40466.797	39161.462	37617.289	35858.719	34336.839	33007.461 *
22.5	48658.808	48398.233	48079.459	47620.463	46322.567	44773.538	42921.715	40733.731	39351.754	37711.398 *
19.5	54795.413	54568.630	54227.717	53680.372	52146.342	50336.961	48202.090	46341.622	44686.493	42687.609 *
17.0	59729.296	59511.418	59155.843	58533.135	56778.518	54707.798	52403.022	50849.331	49032.778	46842.456 *
15.0	63359.034	63091.569	62717.614	62041.291	60213.012	58032.943	56043.651	54341.855	52361.667	49960.421 *
13.0	66405.233	66240.447	65916.354	65203.672	63242.910	60947.535	59420.467	57661.967	55464.753	52855.463 *
11.0	68953.427	68866.553	68586.417	67821.825	65825.710	63936.071	62496.460	60675.873	58301.285	55059.741 *
9.0	70959.409	70976.247	70777.182	69949.378	67781.711	66414.857	65078.138	63207.631	60282.027	56934.319 *
7.0	72420.216	72576.623	72451.305	71506.736	69311.587	68650.454	67233.321	64713.836	61771.470	58328.252 *
5.0	73393.517	73724.883	73678.823	72563.397	71011.468	70293.766	68359.613	65738.682	62889.014	59524.097 *
3.0	74003.903	74276.790	74524.161	72834.851	72307.667	70828.087	68787.271	66620.460	64069.654	61033.349 *
1.0	74145.821	74532.087	74543.037	73427.528	72611.522	71603.532	69952.790	67804.074	65156.099	62097.722 *
0.0	73889.474	74109.015	74010.803	73834.212	73127.849	71962.979	70235.235	68075.795	65417.632	62344.188 *
-1.0	73728.319	73639.817	74500.223	74170.143	72902.198	71799.064	70067.677	67918.451	65266.420	62206.474 *
-3.0	72954.558	73337.636	74070.852	73649.613	72977.834	71296.357	69165.567	66969.383	64401.684	61328.480 *
-5.0	72235.563	72897.742	73212.383	72853.403	71949.291	70964.084	68899.105	66256.342	63334.769	60078.669 *
-7.0	71264.698	71901.434	72067.484	71673.146	70375.968	69502.956	67882.142	65378.712	62424.034	59053.491 *
-9.0	69932.742	70411.134	70450.537	70022.411	68705.546	67430.675	65959.934	63954.909	61087.954	57796.757 *
-11.0	68135.793	68502.862	68475.757	68023.428	66589.497	65096.398	63543.437	61671.823	59395.173	56075.253 *
-13.0	65834.929	66086.737	66000.204	65523.385	64107.205	62270.154	60778.354	58962.592	56672.943	54001.582 *
-15.0	62934.055	62906.503	62715.972	62314.199	61106.174	59431.451	57708.548	55871.326	53734.847	51199.079 *
-17.0	59802.020	59876.423	59693.412	59245.324	57912.866	56234.754	54166.481	52471.564	50408.513	48053.585 *
-19.5	55274.364	55252.447	55037.079	54605.580	53327.849	51735.881	49777.765	47889.494	46000.178	43844.438 *
-22.5	49226.021	49160.299	48930.815	48542.182	47389.154	46006.029	44164.259	42200.591	40595.140	38820.259 *
-25.5	42976.930	42895.980	42676.549	42350.451	41354.166	40113.080	38702.271	37126.665	35558.206	34144.798 *
-29.0	36220.511	36120.492	35950.234	35701.428	34975.550	34088.844	32999.093	31784.230	30527.165	29487.760 *
-33.0	29836.004	29773.900	29663.276	29499.890	29027.092	28458.296	27789.449	27116.773	26411.648	25662.267 *
-37.5	25215.202	25223.783	25189.006	25109.877	24878.418	24594.651	24291.904	23904.703	23507.780	23048.899 *
-42.5	21992.750	21938.412	21911.203	21837.036	21688.918	21364.299	21041.199	20619.429	20115.802	19607.479 *
-47.5	17267.586	17114.715	17038.201	16916.051	16672.002	16174.374	15684.596	15108.443	14445.904	13647.949 *
-55.0	6906.545	6718.857	6624.956	6520.087	6310.475	5854.814	5428.869	4950.193	4548.683	4118.882
-65.0	650.528	645.257	642.621	639.187	632.320	621.951	611.908	600.990	589.290	576.842
-75.0	305.678	301.600	299.561	296.137	289.290	282.445	271.239	261.597	251.293	240.348
-85.0	20.055	17.992	16.961	16.223	14.746	13.269	11.792	10.316	8.839	6.791
-90.0	1.349	1.360	1.365	1.305	1.183	1.062	0.941	0.819	0.698	0.576

Vert. Angles	**Horizontal Angles**									
	15.0	**17.0**	**19.5**	**22.5**	**25.5**	**29.0**	**33.0**	**37.5**	**42.5**	**47.5**
90.0	0.000	0.000	0.000	0.000	0.146	0.316	0.511	0.729	0.972	0.972
85.0	2.719	1.884	0.937	0.009	0.322	0.609	0.817	0.918	1.068	1.118
75.0	216.082	205.054	191.431	175.234	164.279	152.508	138.001	121.018	101.008	70.802
65.0	545.567	534.695	520.980	504.678	491.346	467.368	436.333	395.706	344.388	271.509
55.0	3454.623	2887.903	2276.746	1734.070	1293.775	924.799	719.327	639.588	565.410	490.422
47.5	12679.937	11697.219	10746.040	9431.086 *	7998.276 *	6109.481	4120.187	2155.555	840.723	612.318
42.5	18593.546	17810.227	16865.593	15570.657	13871.963	11719.868	8945.158 *	5333.317	2229.150	774.222
37.5	22070.407	21669.514	21149.336	20130.797	18861.951	16966.084	13814.952	9618.110 *	4860.989	1597.655
33.0	24532.919	24032.197	23391.291	22547.594	21623.976	20193.676	17478.352	13226.632	7889.751 *	3070.306
29.0	27515.781	26640.693	25600.097	24515.809	23371.761	22028.827	19873.952	16127.983	10439.214	4778.103
25.5	31586.150	30130.011	28336.382	26460.622	24812.005	23196.531	21302.424	18048.079	12466.354	6412.867

CANDELA TABULATION - (Cont.)

22.5	35915.37	34008.04	31567.96	28625.32	26227.03	24247.42	22238.61	19408.75	31407	2.5768009.451 *
19.5	40541.73	38222.15	35049.85	31170.84	27852.94	25172.82	32998.60	20508.99	15593	.9379386.411 *
17.0	44442.38	41612.66	33779	3.5243	3342.53	429369.31	726022.42	123546.51	821119.29	416763.04	710463.707 *
15.0	47428.61	44035.21	39829	.2433	4986.04	230604.54	626679.98	523991.85	521639.05	117616.98	211243.251 *
13.0	49553.88	46149.77	41671	.9853	6518.38	931744.86	427406.37	224464.44	422052.81	218297.55	211904.565 *
11.0	51633.28	48005.33	43345	.3983	7822.29	632897.08	928269.84	024997.82	122410.30	818740.64	312493.974 *
9.0	53318.34	49479.51	84729	.0653	9206.14	134219.03	329187.33	025406.08	022701.83	519187.08	813044.444 *
7.0	54624.93	50799.72	94627	3.0534	0727.04	635461.58	930013.97	125774.57	022965.89	819548.13	713481.602 *
5.0	56188.35	52510.65	24781	4.0704	1982.26	436439.21	430730.80	226118.63	523139.33	019822.85	713808.915 *
3.0	57564.95	53831.56	84895	1.3874	2955.92	837245.36	731300.94	626376.34	723290.90	120108.63	214147.996 *
1.0	58565.21	54795.92	24975	6.8534	3675.00	437815.57	631713.64	626560.35	723394.99	620167.32	114219.031 *
0.0	58806.35	55020.80	24994	9.1874	3832.25	437940.88	131806.16	526601.73	223416.53	320196.72	714254.606 *
-1.0	58675.52	54905.85	94984	6.3734	3734.74	537854.11	331754.22	126579.76	723407.88	320179.71	214224.200 *
-3.0	57898.06	54139.07	14919	4.9754	3131.14	737370.06	831415.91	626431.63	523331.13	920145.75	414163.486 *
-5.0	56699.91	75303.26	74817	8.5984	2262.98	036673.25	630902.58	826202.12	323210.99	019874.61	613834.078 *
-7.0	55384.08	15541.96	24682	5.7214	1112.27	335793.20	030253.55	325886.06	723073.76	019607.07	113515.918 *
-9.0	54151.72	95029	9.8654	5278.89	639686.66	134638.55	829492.30	325560.71	022837.03	119265.86	913086.993 *
-11.0	52629.56	34880	9.2734	4001.37	338354.58	333362.69	228601.99	125170.62	822563.03	918840.55	812543.582 *
-13.0	50604.74	147004	.1984	2369.69	737075.11	632271.74	827761.28	324658.92	022253.92	118407.39	811957.885 *
-15.0	48540.07	744850	.2494	0517.48	935610.29	731148.08	527014.07	424213.92	021893.05	717737.41	511275.493 *
-17.0	45390.05	342445	.4383	8483.77	733973.08	829937.01	226355.06	323800.02	721400.84	316872.47	610496.992 *
-19.5	41526.43	239057	.1423	5847.81	931866.01	828396.16	925507.55	623289.55	720767.61	715718.60	49447.672 *	
-22.5	36924.53	934928	.3163	2413.94	129343.89	826675.02	924589.28	822584.25	019633.85	414201.06	28026.599 *	
-25.5	32671.90	131082	.9252	9132.84	327006.57	425265.25	523591.49	621689.63	318256.54	512577.52	66462.503	
-29.0	28365.28	727359	.9412	6171.24	324992.83	023833.73	822487.64	920187.95	616282.34	010496.09	14817.088	
-33.0	25139.11	124608	.8442	3914.08	123079.86	522101.93	620569.53	017666.32	713322.11	67888.346	*3125.455	
-37.5	22620.44	222170	.1952	1594.07	320519.76	619150.42	217141.16	213898.56	49621.320	*4903.023	1639.940	
-42.5	18862.71	618068	.0301	7077.19	615781.12	514006.67	811786.47	68940.185	*5355.736	2260.777	814.135	
-47.5	12795.98	411849	.2521	0860.30	09509.495	*8046.547	*6131.289	4186.389	2176.121	873.669	640.371	
-55.0	3584.807	3034.755	2408.918	1839.632	1378.813	972.817	750.028	671.847	585.501	503.491		
-65.0	563.613	550.001	533.246	517.015	502.658	479.261	448.988	407.504	353.753	282.786		
-75.0	229.617	217.628	202.898	186.552	177.130	164.560	149.745	129.916	106.345	76.521		
-85.0	5.268	3.799	2.061	0.202	0.612	1.021	1.346	1.561	1.615	1.270		
-90.0	0.455	0.334	0.182	0.000	0.200	0.433	0.700	1.000	1.334	1.334		

Vert. Angles	**Horizontal Angles**				
	55.0	**65.0**	**75.0**	**85.0**	**90.0**
90.0	0.608	0.122	0.274	0.639	0.821
85.0	1.020	0.197	0.425	0.746	0.821
75.0	31.665	1.170	0.629	0.993	0.822
65.0	164.977	50.892	3.701	1.031	0.822
55.0	338.600	146.278	26.542	0.985	0.823
47.5	463.165	235.723	58.914	1.516	0.823
42.5	523.648	292.634	80.138	1.615	0.823
37.5	577.139	345.542	104.817	1.419	0.823
33.0	641.431	396.349	129.111	1.765	0.823
29.0	729.692	433.509	147.608	2.099	0.823
25.5	927.362	464.156	160.680	2.359	0.823
22.5	1223.726	484.566	171.410	2.466	0.824
19.5	1666.536	504.433	181.082	2.567	0.824
17.0	2059.153	516.872	188.263	2.645	0.824
15.0	2395.017	523.646	194.106	2.704	0.824
13.0	2763.146	525.068	198.640	2.758	0.824
11.0	3049.708	526.477	203.303	2.881	0.824
9.0	3317.425	538.024	207.362	2.904	0.824

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IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	3551.880	548.103	210.818	2.927	0.824
5.0	3740.249	556.512	215.539	2.951	0.824
3.0	3936.684	565.612	216.591	2.974	0.824
1.0	3980.541	567.799	217.646	3.009	0.824
0.0	4002.495	568.893	218.174	3.009	0.824
-1.0	3982.447	568.153	217.711	2.997	0.824
-3.0	3942.400	566.675	216.787	2.974	0.824
-5.0	3749.397	558.260	215.864	2.951	0.824
-7.0	3564.173	550.519	211.325	2.927	0.824
-9.0	3332.354	541.078	208.056	2.904	0.824
-11.0	3067.043	530.129	204.215	2.881	0.824
-13.0	2782.464	529.337	199.808	2.758	0.824
-15.0	2417.897	528.515	195.553	2.704	0.824
-17.0	2086.570	522.240	189.795	2.645	0.824
-19.5	1698.110	510.296	182.687	2.567	0.823
-22.5	1249.078	490.533	172.871	2.466	0.823
-25.5	958.159	470.712	161.699	2.359	0.823
-29.0	769.852	438.907	148.883	2.099	0.823
-33.0	673.621	401.616	131.043	1.765	0.823
-37.5	599.455	350.908	106.281	1.419	0.823
-42.5	541.218	299.181	81.137	1.615	0.823
-47.5	476.293	240.260	60.362	1.516	0.823
-55.0	347.113	152.585	27.969	0.985	0.822
-65.0	171.564	53.162	3.933	1.031	0.822
-75.0	35.008	1.755	0.629	0.993	0.821
-85.0	0.739	0.188	0.425	0.746	0.821
-90.0	0.834	0.167	0.274	0.639	0.821

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LUMEN TABULATION
Average Of Right And Left Sides
Total Luminaire Lumens (one side of beam only) = 41674.07
Total Field Lumens (one side of beam only) = 39789.61
* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	0	1	3	5	7	9	11	13	15	17
90	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
85	0.43	0.86	0.86	0.86	0.85	0.84	0.82	0.81	0.79	0.95
75	1.33	2.67	2.67	2.66	2.63	2.60	2.56	2.52	2.46	2.98
65	11.12	22.24	21.91	21.26	20.51	19.55	18.46	17.19	15.65	17.33
55	27.41 *	54.71 *	53.98 *	52.71 *	51.25 *	49.43 *	47.30 *	44.84 *	42.00 *	48.17
47.5	29.89 *	59.63 *	59.06 *	58.11 *	57.02 *	55.65 *	54.06 *	52.20 *	49.98 *	58.96 *
42.5	35.71 *	71.22 *	70.69 *	69.90 *	68.88 *	67.58 *	66.13 *	64.46 *	62.49 *	75.07 *
37.5	36.99 *	73.71 *	73.06 *	72.12 *	70.90 *	69.44 *	67.69 *	65.79 *	63.86 *	76.99 *
33	39.18 *	77.96 *	76.98 *	75.58 *	73.81 *	71.69 *	69.28 *	66.68 *	64.00 *	76.21 *
29	41.16 *	81.81 *	80.61 *	78.86 *	76.58 *	73.85 *	70.85 *	67.59 *	64.12 *	75.22 *
25.5	41.11 *	81.68 *	80.45 *	78.60 *	76.13 *	73.24 *	70.04 *	66.50 *	62.69 *	72.80 *
22.5	46.70 *	92.74 *	91.25 *	89.09 *	86.25 *	82.96 *	79.25 *	75.10 *	70.59 *	81.53 *
19.5	43.13 *	85.57 *	84.09 *	82.03 *	79.47 *	76.49 *	73.03 *	69.15 *	64.91 *	74.78 *
17	37.08 *	73.56 *	72.28 *	70.50 *	68.33 *	65.80 *	62.80 *	59.47 *	55.80 *	64.17 *
15	39.13 *	77.60 *	76.24 *	74.45 *	72.27 *	69.59 *	66.40 *	62.85 *	58.95 *	67.76 *
13	40.90 *	81.06 *	79.66 *	77.92 *	75.74 *	72.98 *	69.65 *	65.88 *	61.77 *	71.02 *
11	42.37 *	83.89 *	82.49 *	80.84 *	78.68 *	75.88 *	72.45 *	68.56 *	64.28 *	73.90 *
9	43.52 *	86.07 *	84.73 *	83.22 *	81.04 *	78.17 *	74.70 *	70.74 *	66.36 *	76.35 *
7	44.37 *	87.75 *	86.55 *	85.08 *	82.78 *	79.89 *	76.43 *	72.45 *	68.06 *	78.36 *
5	44.91 *	88.91 *	87.83 *	86.22 *	83.91 *	81.09 *	77.70 *	73.75 *	69.35 *	79.89 *
3	45.17 *	89.52 *	88.51 *	86.89 *	84.68 *	81.91 *	78.57 *	74.64 *	70.21 *	80.89 *
1	22.58 *	44.88 *	44.39 *	43.61 *	42.52 *	41.14 *	39.47 *	37.50 *	35.28 *	40.65 *
0	22.57 *	44.86 *	44.37 *	43.60 *	42.51 *	41.14 *	39.47 *	37.51 *	35.30 *	40.67 *
-1	45.08 *	89.40 *	88.37 *	86.78 *	84.61 *	81.90 *	78.60 *	74.71 *	70.30 *	81.03 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	44.72 *	88.72 *	87.63 *	86.03 *	83.81 *	81.08 *	77.77 *	73.90 *	69.54 *	80.16 *
-5	44.16 *	87.54 *	86.40 *	84.90 *	82.67 *	79.88 *	76.55 *	72.69 *	68.39 *	78.81 *
-7	43.33 *	85.89 *	84.66 *	83.12 *	80.95 *	78.20 *	74.88 *	71.06 *	66.80 *	76.95 *
-9	42.25 *	83.76 *	82.46 *	80.83 *	78.70 *	76.02 *	72.75 *	68.99 *	64.80 *	74.58 *
-11	40.90 *	81.10 *	79.75 *	78.04 *	75.94 *	73.32 *	70.14 *	66.47 *	62.39 *	71.76 *
-13	39.16 *	77.75 *	76.50 *	74.81 *	72.73 *	70.16 *	67.07 *	63.57 *	59.64 *	68.52 *
-15	37.25 *	73.99 *	72.83 *	71.17 *	69.08 *	66.58 *	63.60 *	60.25 *	56.49 *	64.92 *
-17	43.64 *	86.62 *	85.21 *	83.17 *	80.61 *	77.60 *	74.07 *	70.09 *	65.73 *	75.71 *
-19.5	47.46 *	94.24 *	92.74 *	90.52 *	87.63 *	84.28 *	80.44 *	76.17 *	71.56 *	82.69 *
-22.5	41.83 *	83.08 *	81.78 *	79.87 *	77.39 *	74.48 *	71.19 *	67.58 *	63.72 *	74.03 *
-25.5	41.89 *	83.26 *	82.06 *	80.29 *	78.00 *	75.25 *	72.20 *	68.85 *	65.29 *	76.53 *
-29	39.95 *	79.50 *	78.55 *	77.11 *	75.24 *	73.05 *	70.54 *	67.78 *	64.94 *	77.20 *
-33	37.58 *	74.85 *	74.15 *	73.14 *	71.84 *	70.30 *	68.46 *	66.45 *	64.41 *	77.53 *
-37.5	35.85 *	71.49 *	70.93 *	70.10 *	69.04 *	67.70 *	66.20 *	64.45 *	62.39 *	74.86 *
-42.5	29.64 *	59.14 *	58.58 *	57.64 *	56.53 *	55.13 *	53.49 *	51.56 *	49.28 *	58.06 *
-47.5	27.01 *	53.90 *	53.11 *	51.74 *	50.20 *	48.44 *	46.44 *	44.04 *	41.25 *	47.31
-55	11.06	22.09	21.63	20.81	19.92	19.02	18.13	16.96	15.51	17.26
-65	1.43	2.86	2.84	2.81	2.77	2.72	2.67	2.61	2.54	3.07
-75	0.48	0.96	0.96	0.94	0.92	0.91	0.88	0.86	0.83	1.00
-85	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
-90										
Total	1431.47	2843.08	2803.84	2747.95	2675.37	2586.97	2483.24	2365.26	2234.76	2596.69

Vert. Angles	**Horizontal Angles**									
	19.5	**22.5**	**25.5**	**29**	**33**	**37.5**	**42.5**	**47.5**	**55**	**65**
90	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.01
85	1.09	1.02	1.08	1.10	1.05	0.93	0.71	0.73	0.51	0.17
75	3.43	3.25	3.52	3.64	3.60	3.34	2.65	2.76	1.90	0.61
65	17.71	14.42	12.89	10.41	8.00	6.51	5.15	5.57	4.00	1.33
55	51.13	43.55	40.87	34.10	24.80	15.32	7.84	6.47	4.49	1.57

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LUMENS TABULATION - (Cont.)

47.5	65.07 *	57.96 *	57.50 *	51.58 *	40.27	25.87	12.17	7.22	3.70	1.33
42.5	85.01 *	78.36 *	81.56 *	77.97 *	65.97 *	46.91	24.34	13.49	4.66	1.52
37.5	87.82 *	82.36 *	88.32 *	88.38 *	79.83 *	61.67 *	35.13	20.40	5.91	1.53
33	86.09 *	80.37 *	86.59 *	88.67 *	83.77 *	69.01 *	42.38	26.20	7.31	1.48
29	83.35 *	76.39 *	81.37 *	83.45 *	80.62 *	69.39 *	45.21 *	29.57	8.27	1.38
25.5	79.31 *	71.25 *	74.55 *	75.56 *	73.31 *	64.83 *	44.18 *	30.13	8.49	1.24
22.5	87.98 *	77.85 *	79.84 *	79.44 *	76.74 *	68.92 *	48.49 *	34.46	10.00	1.28
19.5	80.29 *	70.35 *	70.98 *	69.33 *	66.29 *	59.98 *	43.21 *	31.87	9.62	1.10
17	68.72 *	59.89 *	59.85 *	57.64 *	54.46 *	49.41 *	36.20 *	27.32	8.45	0.89
15	72.46 *	62.97 *	62.54 *	59.58 *	55.69 *	50.54 *	37.44 *	28.74	9.06	0.91
13	75.88 *	65.83 *	65.03 *	61.42 *	56.85 *	51.42 *	38.40 *	29.94 *	9.57	0.91
11	78.94 *	68.36 *	67.25 *	63.07 *	57.91 *	52.15 *	39.21 *	30.98 *	10.01	0.93
9	81.55 *	70.56 *	69.23 *	64.48 *	58.74 *	52.80 *	39.91 *	31.87 *	10.40	0.94
7	83.70 *	72.36 *	70.86 *	65.65 *	59.41 *	53.30 *	40.44 *	32.54 *	10.71	0.95
5	85.31 *	73.70 *	72.07 *	66.55 *	59.92 *	53.69 *	40.90 *	33.11 *	10.97	0.96
3	86.36 *	74.60 *	72.88 *	67.12 *	60.25 *	53.93 *	41.14 *	33.40 *	11.10	0.96
1	43.39 *	37.48 *	36.60 *	33.67 *	30.18 *	26.99 *	20.58 *	16.70 *	5.55	0.48
0	43.42 *	37.50 *	36.61 *	33.68 *	30.19 *	26.99 *	20.58 *	16.70 *	5.55	0.48
-1	86.53 *	74.74 *	73.01 *	67.24 *	60.32 *	53.96 *	41.15 *	33.39 *	11.10	0.96
-3	85.63 *	73.98 *	72.34 *	66.77 *	60.06 *	53.76 *	40.90 *	33.09 *	10.97	0.96
-5	84.21 *	72.79 *	71.26 *	65.96 *	59.61 *	53.40 *	40.44 *	32.50 *	10.71	0.95
-7	82.21 *	71.13 *	69.77 *	64.92 *	59.02 *	52.93 *	39.90 *	31.82 *	10.40	0.94
-9	79.68 *	69.04 *	67.92 *	63.62 *	58.25 *	52.29 *	39.20 *	30.92 *	10.01	0.93
-11	76.69 *	66.56 *	65.78 *	62.04 *	57.23 *	51.57 *	38.38 *	29.87 *	9.55	0.92
-13	73.27 *	63.71 *	63.30 *	60.21 *	56.09 *	50.69 *	37.39 *	28.65	9.04	0.91
-15	69.52 *	60.64 *	60.61 *	58.26 *	54.88 *	49.56 *	36.12 *	27.22	8.45	0.90
-17	81.31 *	71.32 *	71.94 *	70.06 *	66.77 *	60.11 *	43.08 *	31.75	9.62	1.10
-19.5	89.32 *	79.04 *	80.86 *	80.19 *	77.19 *	68.95 *	48.28 *	34.32	10.01	1.28

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LUMENS TABULATION - (Cont.)

-22.5	80.66 *	72.32 *	75.38 *	76.19 *	73.64 *	64.71 *	43.90 *	29.98	8.51	1.24
-25.5	84.61 *	77.32 *	82.16 *	84.03 *	80.72 *	69.01 *	44.85 *	29.42	8.30	1.38
-29	87.03 *	81.09 *	87.19 *	88.86 *	83.37 *	68.33 *	41.96	26.14	7.40	1.49
-33	88.31 *	82.61 *	88.25 *	87.80 *	78.86 *	60.80 *	34.73	20.44	6.08	1.54
-37.5	84.61 *	77.74 *	80.60 *	76.78 *	64.80 *	46.15	24.11	13.61	4.83	1.53
-42.5	64.00 *	56.91 *	56.33 *	50.55 *	39.48	25.49	12.27	7.45	3.76	1.34
-47.5	50.21	42.72	40.12	33.79	24.78	15.39	8.08	6.71	4.53	1.60
-55	17.65	14.41	13.02	10.80	8.52	6.82	5.25	5.67	4.09	1.38
-65	3.52	3.33	3.62	3.75	3.70	3.44	2.73	2.87	2.00	0.66
-75	1.14	1.07	1.15	1.17	1.13	1.01	0.78	0.80	0.57	0.20
-85	0.04	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.01
-90										
Total	2818.19	2492.91	2516.71	2409.53	2196.34	1872.35	1289.83	946.84	310.21	45.15

Vert. Angles	**Horizontal Angles**		
	75	**85**	**90**	**Total**
90	0.00	0.00	0.43
85	0.03	0.00	16.48
75	0.09	0.00	53.87
65	0.19	0.00	271.39
55	0.23	0.00	702.17
47.5	0.20	0.00	857.44
42.5	0.24	0.00	1132.19
37.5	0.25	0.00	1222.15
33	0.24	0.00	1263.48
29	0.23	0.00	1269.86
25.5	0.21	0.00	1226.29
22.5	0.22	0.00	1360.66
19.5	0.19	0.00	1235.85
17	0.15	0.00	1052.8

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LUMENS TABULATION - (Cont.)

15			
	0.15	0.00	1105.3
13			
	0.16	0.00	1152.02
11			
	0.16	0.00	1192.32
9			
	0.16	0.00	1225.52
7			
	0.16	0.00	1251.79
5			
	0.16	0.00	1270.91
3			
	0.16	0.00	1282.9
1			
	0.08	0.00	643.73
0			
	0.08	0.00	643.79
-1			
	0.16	0.00	1283.37
-3			
	0.16	0.00	1271.99
-5			
	0.16	0.00	1253.98
-7			
	0.16	0.00	1229.04
-9			
	0.16	0.00	1197.18
-11			
	0.16	0.00	1158.54
-13			
	0.16	0.00	1113.34
-15			
	0.15	0.00	1062.47
-17			
	0.19	0.00	1249.68
-19.5			
	0.22	0.00	1377.41
-22.5			
	0.21	0.00	1241.7
-25.5			
	0.23	0.00	1285.65
-29			
	0.24	0.00	1276.96
-33			
	0.25	0.00	1228.39
-37.5			
	0.24	0.00	1128.02
-42.5			
	0.20	0.00	846.85
-47.5			
	0.24	0.00	691.61
-55			
	0.20	0.00	270.20
-65			
	0.09	0.00	56.03

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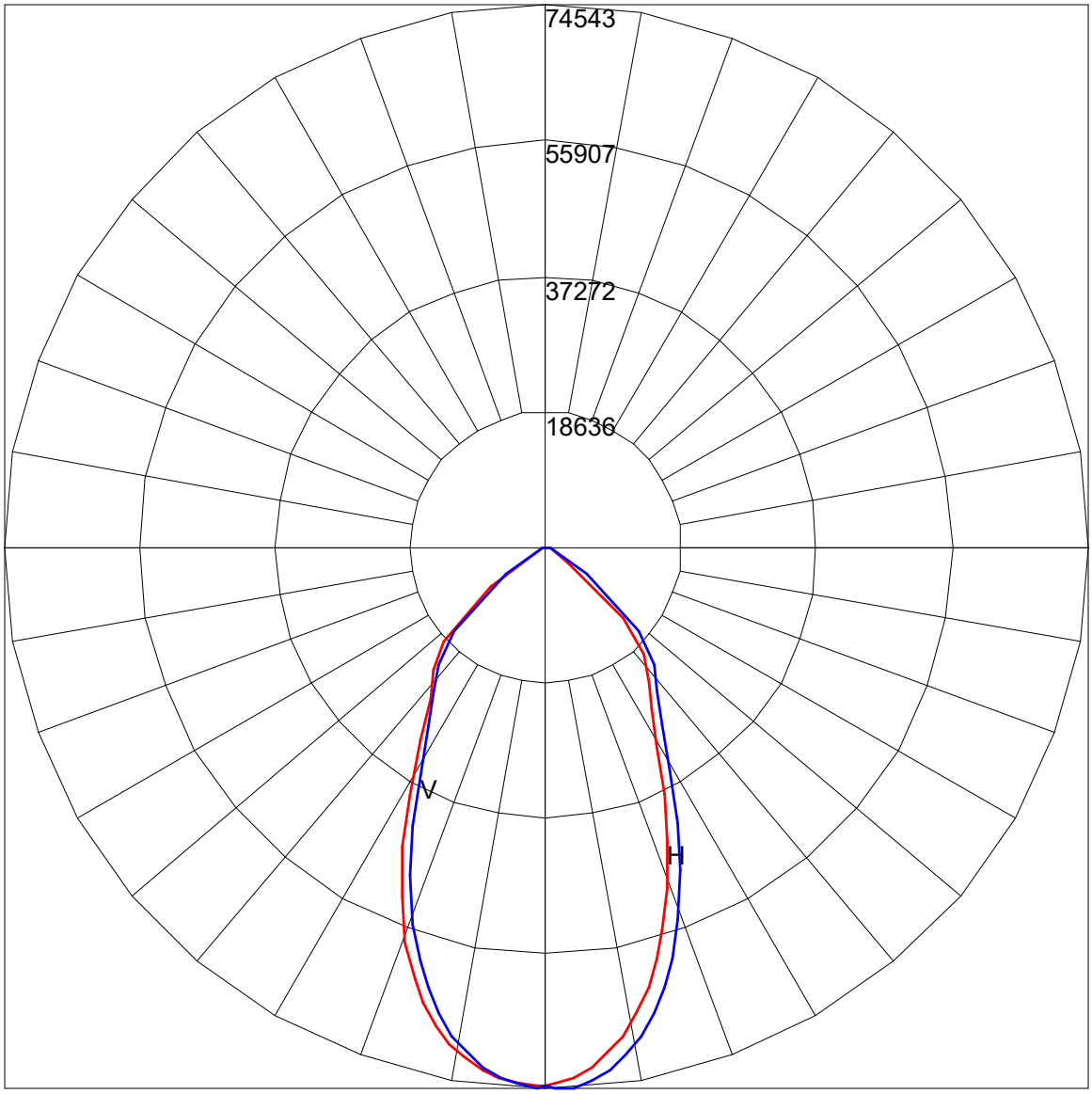
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PHOTOMETRIC FILENAME : EPL-HB-2X300LED-RT-60DB.IES

LUMENS TABULATION - (Cont.)

-75			
	0.03	0.00	17.80
-85			
	0.00	0.00	0.59
-90			
Total	7.35	0.08	41674.1

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

AXIAL CANDELA DISPLAY

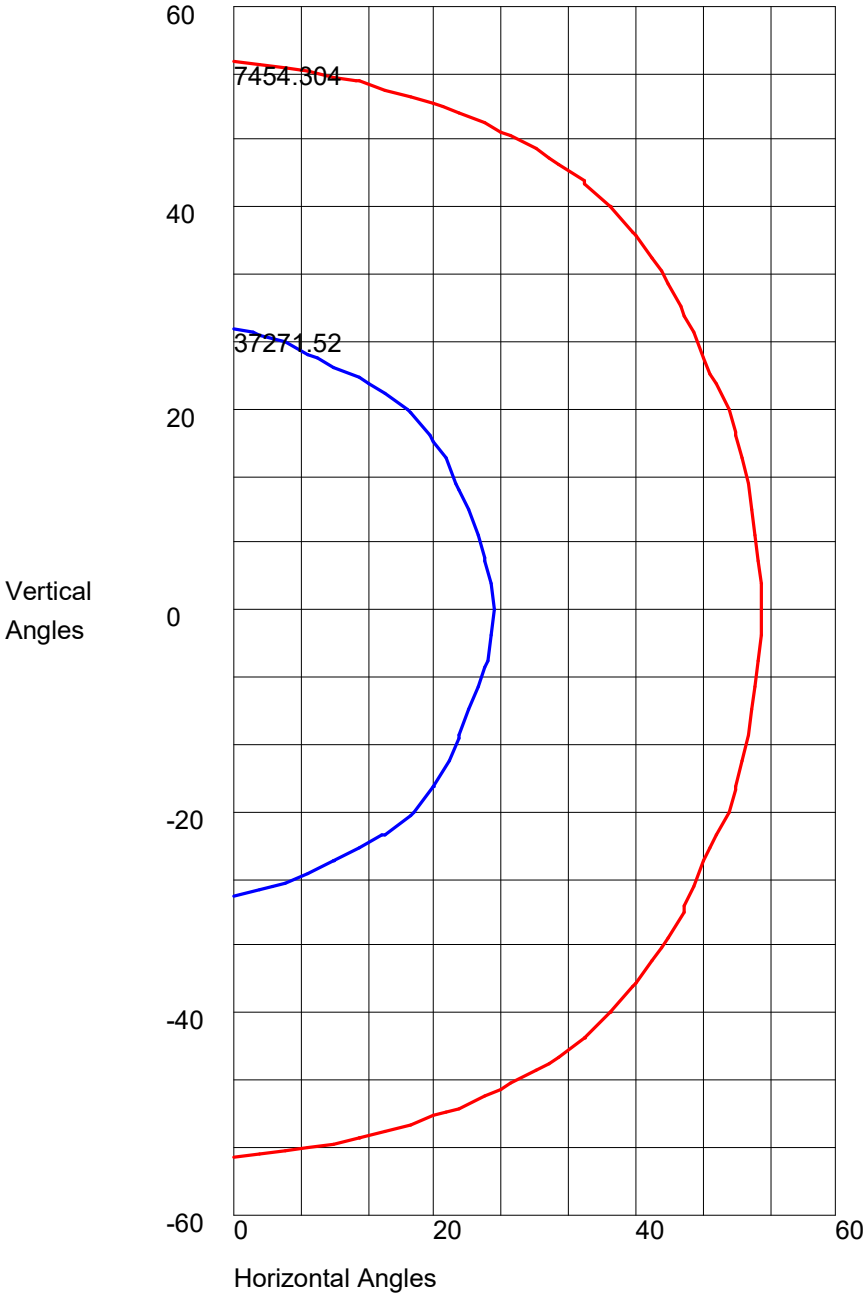


Maximum Candela = 74543.037 Located At Horizontal Angle = 0, Vertical Angle = 1
H - Horizontal Axial Candela
V - Vertical Axial Candela

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ISOCANDELA CURVES



Maximum Candela = 74543.037 Located At Horizontal Angle = 0, Vertical Angle = 1
50% Maximum Candela = 37271.5185
10% Maximum Candela = 7454.3037

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] RADIANT ZEMAX
[TESTDATE] 20200629
[ISSUEDATE] 2020-06-29 12:57:43
[MANUFAC] Larson Electronics LLC
[LUMCAT] EPL-HB-2X300LED-RT-125DB
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED FIXTURE - 125 DEGREE BEAM
[LAMP] LED
[LAMPPOSITION] 0,0
[OTHER] ZVISION 9107GT SYSTEM

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS



NEMA Type	6 H x 6 V
Maximum Candela	40886.992
Maximum Candela Angle	0H -1V
Horizontal Beam Angle (50%)	96.1
Vertical Beam Angle (50%)	96.8
Horizontal Field Angle (10%)	127.5
Vertical Field Angle (10%)	128.3
Lumens Per Lamp	83245 (1 lamp)
Total Lamp Lumens	83245
Beam Lumens	65302
Beam Efficiency	78 %
Field Lumens	80053
Field Efficiency	96 %
Spill Lumens	3612
Luminaire Lumens	83665
Total Efficiency	101 %
Total Luminaire Watts	597.92
Ballast Factor	1.00

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

AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	4.01	90	0
85	121.279	85	14.096
75	1844.452	75	1269.44
65	3893.429	65	3400.467
55	14123.821	55	9370.401
47.5	24421.634	47.5	20773.157
42.5	27640.449	42.5	26505.054
37.5	30015.63	37.5	29251.918
33	32326.846	33	31371.508
29	34394.308	29	33482.588
25.5	35930.376	25.5	35266.932
22.5	36987.312	22.5	36535.708
19.5	37891.852	19.5	37575.356
17	38547.982	17	38320.052
15	39017.007	15	38857.297
13	39417.68	13	39330.578
11	39763.299	11	39767.554
9	40024.608	9	40123.28
7	40221.952	7	40416.637
5	40339.64	5	40640.178
3	40397.753	3	40798.293
1	40397.753	1	40866.513
0	40464.111	0	40464.111
-1	40352.673	-1	40886.992
-3	40233.654	-3	40854.943
-5	40036.177	-5	40760.527
-7	39776.198	-7	40599.486
-9	39438.027	-9	40356.928
-11	39054.774	-11	40050.672
-13	38588.674	-13	39658.643
-15	38092.122	-15	39236.161
-17	37520.036	-17	38735.353
-19.5	36701.269	-19.5	38035.605
-22.5	35532.496	-22.5	37045.292
-25.5	34128.611	-25.5	35840.348
-29	32316.74	-29	34112.787
-33	30400.345	-33	31975.643
-37.5	28290.861	-37.5	29810.838
-42.5	24639.458	-42.5	27435.658
-47.5	18101.827	-47.5	22894.343
-55	7422.224	-55	11628.026
-65	3090.488	-65	3669.888
-75	1094.437	-75	1594.713
-85	11.037	-85	76.065
-90	0	-90	3.477

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IES FLOOD REPORT
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CANDELA TABULATION
Maximum Candela = 40886.992
Beam Edge = 20443.496 Cd (50% of Max.)
Field Edge = 4088.6992 Cd (10% of Max.)
* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	**-85.0**	**-75.0**	**-65.0**	**-55.0**	**-47.5**	**-42.5**	**-37.5**	**-33.0**	**-29.0**
90.0	0.001	0.562	1.686	2.249	1.125	0.281	0.355	1.065	1.704	2.272
85.0	0.001	0.648	2.069	3.271	2.450	1.426	2.256	6.185	10.258	14.279
75.0	0.001	0.669	9.492	49.798	181.402	294.998	403.074	573.924	740.510	887.088
65.0	0.001	0.738	44.763	406.539	974.206	1440.721	1739.215	2106.442	2419.956	2663.151
55.0	0.001	0.994	175.358	1032.375	2060.835	2762.555	3135.759	3505.214	3845.200	4263.938 *
47.5	0.001	2.185	339.430	1533.351	2799.958	3532.611	3998.844	5196.736	*7435.220	*9686.765 *
42.5	0.001	3.483	449.116	1851.950	3188.996	4037.702	5696.666	*8594.567	*11966.366	*15310.026 *
37.5	0.001	5.068	587.776	2141.439	3553.285	5397.805	*8771.602	*13226.084	*17271.262	20831.555 *
33.0	0.001	6.300	696.494	2375.494	3820.870	7407.606	*12201.407	*17467.448	*21716.235	24639.280 *
29.0	0.001	7.445	794.080	2555.556	4137.819	*9559.607	*15257.050	20918.766	24755.697	27034.481 *
25.5	0.000	8.313	857.487	2700.597	4570.957	*11477.093	*17735.117	23231.563	26533.658	28330.730 *
22.5	0.000	9.018	915.600	2788.453	5002.723	*12910.320	*19691.921	24864.798	27626.282	29262.711 *
19.5	0.000	9.624	964.982	2873.988	5509.279	*14269.425	*21086.404	26120.694	28467.914	29996.606 *
17.0	0.000	10.053	999.045	2926.149	5924.905	*15242.420	22056.477	26736.696	29010.093	30580.664 *
15.0	0.000	10.345	1026.582	2965.444	6223.278	*15935.014	22865.672	27149.805	29370.551	31020.851 *
13.0	0.000	10.591	1043.447	2999.491	6515.302	*16530.535	23390.502	27482.461	29659.835	31432.236 *
11.0	0.000	11.517	1060.939	3027.996	6761.431	*17029.960	23755.746	27763.035	29935.580	31722.540 *
9.0	0.000	11.431	1074.892	3051.813	6982.156	*17414.900	24121.379	27980.470	30136.708	31960.174 *
7.0	0.000	11.344	1085.319	3070.237	7185.940	*17722.353	24388.682	28173.858	30245.513	32154.199 *
5.0	0.000	11.256	1102.897	3083.142	7329.480	*17951.937	24552.935	28243.559	30346.808	32282.219 *
3.0	0.000	11.169	1099.518	3096.982	7480.982	*18201.383	24730.996	28296.637	30406.039	32342.992 *
1.0	0.000	11.081	1096.131	3092.654	7441.826	*18135.048	24670.013	28310.359	30421.799	32349.088 *
0.0	0.000	11.037	1094.437	3090.488	7422.224	*18101.827	24639.458	28290.861	30400.345	32316.740 *
-1.0	0.000	11.037	1097.397	3094.591	7462.743	*18167.446	24687.895	28313.478	30425.174	32354.908 *
-3.0	0.000	11.257	1103.312	3102.791	7543.684	*18298.472	24784.570	28306.693	30416.076	32360.298 *
-5.0	0.000	11.404	1109.215	3092.812	7431.682	*18114.457	24648.965	28262.368	30363.267	32310.600 *
-7.0	0.000	11.550	1094.392	3083.751	7325.827	*17950.554	24531.873	28203.567	30264.640	32192.180 *
-9.0	0.000	11.695	1086.736	3069.148	7156.580	*17709.286	24334.468	28031.804	30150.717	32004.992 *
-11.0	0.000	11.840	1075.687	3049.122	6968.285	*17391.067	24044.503	27840.873	29968.290	31772.362 *
-13.0	0.000	10.917	1061.258	3025.355	6751.573	*16959.650	23727.912	27594.472	29694.125	31482.106 *
-15.0	0.000	10.700	1047.543	2996.553	6479.762	*16431.950	23293.176	27302.699	29411.263	31061.691 *
-17.0	0.000	10.429	1022.057	2961.224	6182.538	*15835.720	22579.075	26945.691	29057.188	30632.575 *
-19.5	0.000	10.011	990.317	2912.370	5785.694	*14923.708	21726.808	26417.879	28549.113	30050.990 *
-22.5	0.000	9.396	944.032	2833.721	5265.946	*13637.848	20479.739	25336.837	27820.933	29333.734 *
-25.5	0.000	8.654	889.493	2758.092	4798.603	*12266.469	18608.666	23927.884	26880.061	28456.718 *
-29.0	0.000	7.822	829.317	2616.025	4313.418	*10371.659	16272.904	21824.698	25371.066	27374.548 *
-33.0	0.000	6.729	733.530	2445.122	3921.296	8051.932	*13215.410	18564.640	22695.863	25367.814 *
-37.5	0.000	5.554	630.601	2223.133	3644.182	5929.684	*9723.191	*14482.760	18538.928	21995.197 *
-42.5	0.000	4.086	498.532	1936.063	3283.714	4252.617	*6305.022	*9678.017	*13304.657	16763.970 *
-47.5	0.000	2.889	373.385	1624.536	2909.979	3629.418	4229.319	*5811.076	*8281.888	*11069.750 *
-55.0	0.000	1.670	204.312	1134.330	2194.481	2880.585	3237.446	3609.476	4016.904	4682.269 *
-65.0	0.000	0.884	63.527	469.899	1106.536	1599.424	1914.826	2283.887	2585.124	2818.901
-75.0	0.000	0.783	11.944	81.258	241.268	389.192	526.811	721.516	902.808	1056.539
-85.0	0.000	0.736	2.421	3.919	4.617	3.688	6.562	14.434	22.311	30.522
-90.0	0.000	0.503	1.511	2.018	1.010	0.253	0.355	1.066	1.706	2.275

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

CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	-25.5	**-22.5**	**-19.5**	**-17.0**	**-15.0**	**-13.0**	**-11.0**	**-9.0**	**-7.0**	**-5.0**
90.0	2.768	3.194	2.769	2.414	2.130	1.846	1.562	1.278	0.994	0.710
85.0	17.893	20.837	20.082	19.431	18.905	18.368	18.599	17.780	16.962	16.143
75.0	997.908	1092.676	1147.192	1180.588	1208.418	1225.925	1243.847	1257.534	1267.081	1284.245
65.0	2869.700	3007.112	3117.948	3176.417	3223.112	3265.534	3301.686	3332.531	3357.989	3377.765
55.0	4880.571	5446.005	6367.034	6974.088	7438.702	7897.614	8260.081	8599.936	8877.997	9095.735
47.5	11913.38	13812.38	11556	8.785	16904.61	8177	17.193	18402.11	619015.05	619546.00	219975.69	720317.382
42.5	18055.99	120277.37	12	1998.251	23322.07	624228.38	924846.80	925249.69	825654.79	525974.01	726201.922
37.5	23405.15	725191.05	626563.75	227279.15	427821.68	928193.49	728475.69	828716.44	828937.03	529065.283
33.0	26569.05	227765.31	628672.83	529293.40	329759.23	630177.65	830535.43	830788.50	830985.25	931159.091
29.0	28287.35	229323.08	230162.84	730850.04	631365.46	331895.79	532328.35	632682.71	432976.26	733205.546
25.5	29471.71	230409.11	131389.97	832206.05	132848.74	333428.55	933972.06	634387.02	134708.17	434957.582
22.5	30409.30	131381.20	332450.71	233369.91	834044.03	534676.73	335228.61	735707.06	436012.85	136245.079
19.5	31278.39	832414.10	633493.04	234421.97	535111.30	635729.81	336268.13	436726.33	837061.97	037294.731
17.0	31982.98	333222.03	934371.91	035211.44	335873.50	036456.14	636975.15	637403.51	137785.00	938017.879
15.0	32525.05	433810.53	534978.92	235826.74	036413.33	836933.74	437450.57	537877.17	138256.04	138530.901
13.0	33024.44	234334.88	635507.57	236322.04	536873.32	437343.70	337835.01	838284.13	538667.84	138984.742
11.0	33428.09	834795.85	635952.58	636749.34	537301.90	937763.04	938178.10	738614.39	939019.92	839376.808
9.0	33728.63	835140.56	236320.03	837099.24	937634.97	238114.19	538525.02	738888.45	339293.51	039649.471
7.0	33935.58	835358.25	636535.06	537363.01	037914.04	738392.36	138815.97	539184.99	639497.35	139878.483
5.0	34085.54	135511.78	436675.55	637494.37	938067.36	238577.87	639048.10	439407.66	939739.60	739999.626
3.0	34159.50	535566.73	436736.33	137556.92	638127.75	938640.35	539102.90	339516.16	639863.27	640125.494
1.0	34166.07	635570.79	736738.05	637557.36	238132.27	438631.65	039099.77	339494.40	539838.35	540117.722
0.0	34128.61	135532.49	636701.26	937520.03	638092.12	238588.67	439054.77	439438.02	739776.19	840036.177
-1.0	34171.47	635573.44	936738.22	337554.40	738122.89	138621.02	139081.24	639464.37	639797.09	240048.512
-3.0	34176.18	835575.85	636737.11	337549.72	338106.94	938609.56	039051.52	539435.73	439742.17	239934.411
-5.0	34114.72	235530.11	436678.55	137485.06	938043.82	038532.83	238970.64	839281.85	239556.35	539731.751
-7.0	33978.40	035384.80	636546.10	637352.33	437884.00	938325.82	038716.85	939034.70	339286.00	039569.571
-9.0	33784.73	435175.36	836335.32	437087.13	537606.18	638045.99	938417.35	438724.89	939059.14	339329.135
-11.0	33496.68	834840.42	735972.58	836738.35	637266.68	937698.12	038071.01	038446.63	238777.25	339056.684
-13.0	33092.68	234394.12	735540.78	536326.76	636843.84	637288.62	637729.50	938115.60	838436.78	438723.567
-15.0	32597.73	634884.81	235011.27	735840.04	036396.12	036875.54	537344.62	237725.54	838052.51	438390.107
-17.0	32051.61	434292.72	034423.12	035240.10	935869.88	936411.11	836872.30	337263.22	637586.06	337972.076
-19.5	31335.66	832487.81	233573.10	834461.92	335125.95	235707.13	436192.49	836602.95	336968.07	637343.413
-22.5	30468.73	031446.30	332520.72	033425.86	434091.65	734687.26	235198.95	235640.94	636050.04	336420.809
-25.5	29555.64	130470.02	231441.44	332267.03	232895.70	933473.68	033981.65	034460.90	934873.04	835232.518
-29.0	28438.22	329403.19	930209.46	830882.10	331412.59	731926.38	932394.67	032841.41	433234.44	133563.555
-33.0	26994.91	627989.82	328769.64	429352.47	929793.48	730202.11	630613.45	230965.45	531244.25	031515.342
-37.5	24345.72	425856.39	426973.70	427556.68	527971.96	928346.92	128666.20	228953.08	329238.15	929432.756
-42.5	19489.04	321640.80	323253.43	124377.67	725219.14	325741.32	326140.15	926510.30	726813.28	127048.081
-47.5	13514.92	215432.56	817225.46	418614.94	119440.34	720198.17	020892.20	421447.33	521921.55	922308.459
-55.0	5500.668	6530.396	7564.569	8382.919	8986.009	9564.251	10027.77	610462.45	210848.41	911161.114
-65.0	3009.131	3130.928	3243.018	3323.745	3384.950	3439.702	3489.532	3536.271	3576.887	3611.309
-75.0	1183.643	1281.762	1354.043	1405.679	1447.245	1474.775	1503.352	1528.344	1549.679	1579.358
-85.0	38.504	49.147	56.281	61.188	64.523	67.365	74.369	74.677	74.985	75.294
-90.0	2.773	3.199	3.236	3.267	3.292	3.316	3.341	3.366	3.390	3.415

Vert. Angles	Horizontal Angles									
	-3.0	**-1.0**	**0.0**	**1.0**	**3.0**	**5.0**	**7.0**	**9.0**	**11.0**	**13.0**
90.0	0.426	0.142	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	15.324	14.505	14.096	13.954	13.669	13.384	13.099	12.814	12.530	10.878
75.0	1278.324	1272.401	1269.440	1269.195	1268.706	1268.217	1244.185	1227.718	1206.827	1181.359
65.0	3398.902	3399.945	3400.467	3400.174	3399.587	3378.667	3358.931	3333.195	3301.666	3263.596

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CANDELA TABULATION - (Cont.)

55.0	9322.694	9354.492	9370.401	9392.694	9437.255	9283.155	9135.574	8922.911	8640.857	8329.353 *
47.5	20681.09	20742.44	20773.15	20787.33	20815.66	20535.98	20273.94	19938.33	19533.64	19025.922 *
42.5	26435.50	26481.84	26505.05	26486.71	26450.07	26239.06	26043.06	25782.71	25446.67	25085.547 *
37.5	29172.79	29241.21	29251.91	29215.88	29098.35	28945.74	28777.37	28503.77	28229.60	27924.157 *
33.0	31281.01	63	1360.01	93	1371.50	83	1332.07	23	1195.62	53	1012.29	23	0780.44	03	0541.64	03	0209.70	12	9844.545 *
29.0	33363.77	13	3467.02	53	3482.58	83	3436.68	03	3270.73	73	3044.74	53	2758.89	73	2406.65	33	2000.09	43	1753.830 *
25.5	35135.54	03	5249.54	63	5266.93	23	5207.29	53	5012.61	63	4763.99	13	4434.36	13	4060.43	13	3728.90	73	3456.557 *
22.5	36408.04	93	6518.01	93	6535.70	83	6464.44	43	6252.41	03	5999.85	23	5676.51	63	5273.65	13	5082.02	53	4801.710 *
19.5	37451.64	83	7556.03	73	7575.35	63	7491.71	13	7256.62	33	6970.10	33	6634.18	13	6384.97	23	6193.51	83	5937.868 *
17.0	38185.56	03	8298.00	13	8320.05	23	8221.06	63	7955.71	03	7645.92	83	7291.32	73	7167.76	33	6975.27	83	6725.458 *
15.0	38708.89	93	8833.14	83	8857.29	73	8745.26	43	8452.00	73	8109.23	73	7868.94	83	7726.45	43	7543.33	13	7279.143 *
13.0	39174.20	53	9302.23	03	9330.57	83	9198.88	23	8869.30	93	8502.41	53	8374.01	73	8242.95	93	8046.61	23	7770.819 *
11.0	39579.18	23	9730.11	33	9767.55	43	9610.06	63	9228.75	13	8919.31	63	8837.52	63	8701.84	53	8497.23	03	8146.659 *
9.0	39922.87	44	0081.77	54	0123.28	03	9928.92	43	9481.70	53	9313.22	03	9248.39	93	9105.17	83	8812.92	23	8458.366 *
7.0	40177.87	44	0364.03	14	0416.63	74	0161.50	63	9646.96	03	9672.00	03	9599.31	33	9373.20	63	9086.83	03	8714.659 *
5.0	40318.51	24	0570.70	14	0640.17	84	0274.04	83	9917.72	03	9946.37	53	9815.08	63	9585.41	03	9298.04	63	8948.751 *
3.0	40343.41	94	0662.89	44	0798.29	34	0174.52	44	0137.53	94	0092.55	13	9955.26	63	9770.58	43	9509.49	83	9177.911 *
1.0	40333.02	64	0543.90	54	0866.51	34	0209.43	94	0289.97	54	0261.76	24	0149.42	03	9960.46	33	9700.04	53	9359.936 *
0.0	40233.65	44	0352.67	34	0464.11	14	0397.75	34	0397.75	34	0339.64	04	0221.95	24	0024.60	83	9763.29	93	9417.680 *
-1.0	40197.89	04	0179.76	14	0886.99	24	0612.74	84	0468.56	34	0376.77	94	0243.37	24	0036.35	23	9766.24	03	9418.804 *
-3.0	40026.73	24	0219.45	24	0854.94	34	0729.60	94	0573.64	64	0417.18	14	0225.04	73	9995.75	63	9704.70	13	9354.019 *
-5.0	39903.93	24	0371.10	44	0760.52	74	0687.50	24	0535.36	94	0418.76	04	0213.78	53	9935.70	13	9617.84	93	9237.864 *
-7.0	39741.86	14	0315.98	14	0599.48	64	0547.41	04	0394.99	64	0285.11	04	0115.71	53	9834.91	33	9506.42	13	9107.783 *
-9.0	39643.31	74	0134.27	54	0356.92	84	0320.39	04	0176.60	44	0042.66	73	9882.64	43	9667.79	83	9330.29	43	8938.953 *
-11.0	39434.77	03	9867.20	44	0050.67	24	0020.30	53	9889.38	83	9741.54	93	9578.58	83	9364.76	03	9099.07	13	8700.864 *
-13.0	39134.69	83	9503.76	63	9658.64	33	9636.32	73	9521.41	13	9355.22	43	9195.28	23	8991.75	43	8731.31	53	8402.718 *
-15.0	38763.61	13	9100.73	23	9236.16	13	9213.51	73	9100.78	43	8938.26	33	8756.26	83	8544.13	23	8305.29	13	7985.839 *
-17.0	38317.79	83	8616.51	73	8735.35	33	8717.05	83	8612.46	93	8452.97	73	8248.08	03	8045.57	23	7795.66	83	7486.047 *
-19.5	37660.29	73	7931.88	13	8035.60	53	8018.78	03	7917.07	63	7763.78	73	7559.33	03	7327.79	23	7085.91	13	6772.962 *
-22.5	36708.17	23	6955.15	03	7045.29	23	7032.49	63	6937.03	33	6793.06	43	6579.20	13	6306.93	73	6054.04	13	5728.610 *
-25.5	35522.19	23	5759.75	73	5840.34	83	5829.71	33	5731.48	13	5579.37	43	5372.60	43	5086.10	03	4779.72	53	4454.788 *
-29.0	33828.57	53	4041.45	73	4112.78	73	4108.11	93	4026.34	63	3886.51	53	3681.09	83	3423.22	83	3089.77	63	2800.184 *
-33.0	31737.60	03	1915.94	03	1975.64	33	1972.31	23	1904.09	43	1785.03	03	1610.12	13	1425.74	53	1178.79	03	0833.239 *
-37.5	29614.72	62	9761.77	92	9810.83	82	9804.69	32	9742.90	12	9644.64	32	9531.67	32	9337.78	22	9115.82	42	8861.281 *
-42.5	27283.39	22	7384.85	42	7435.65	82	7431.07	42	7421.92	02	7284.17	02	7150.39	72	6964.37	82	6736.85	92	6510.838 *
-47.5	22699.14	22	2829.23	12	2894.34	32	2907.03	22	2932.38	42	2709.72	12	2499.62	22	2194.54	72	1783.97	12	1287.339 *
-55.0	11480.40	61	1578.79	91	1628.02	61	1641.65	51	1668.89	61	1477.42	21	1293.94	81	1039.87	31	0720.30	21	0364.563 *
-65.0	3646.612	3662.128	3669.888	3669.373	3668.343	3647.786	3628.292	3602.940	3571.892	3533.176										
-75.0	1585.499	1591.641	1594.713	1592.902	1589.280	1585.659	1557.079	1536.666	1511.708	1482.084										
-85.0	75.602	75.911	76.065	75.033	72.968	70.904	68.839	66.775	64.711	57.001										
-90.0	3.440	3.464	3.477	3.322	3.013	2.704	2.395	2.086	1.777	1.468										

Vert. Angles	**Horizontal Angles**									
	15.0	**17.0**	**19.5**	**22.5**	**25.5**	**29.0**	**33.0**	**37.5**	**42.5**	**47.5**
90.0	0.000	0.000	0.000	0.000	0.445	0.964	1.557	2.224	2.964	2.964
85.0	10.144	9.346	8.262	6.957	9.140	11.604	13.488	14.480	14.837	12.691
75.0	1156.094	1119.517	1074.647	1022.920	996.409	964.389	910.785	830.077	735.697	597.834
65.0	3218.259	3168.376	3105.586	3033.959	2985.263	2876.579	2754.249	2583.571	2335.440	1948.840
55.0	7906.278 *	7551.718 *	7021.101 *	6422.910 *	5876.297 *	5178.769 *	4557.391 *	4033.066	3703.038	3281.485
47.5	18410.40	11 *	7711.40	21 *	7046.41	41 *	5987.85	41 *	4752.50	31 *	3145.06	21 *	1118.00	61 *	8577.222 *	5517.082 *	4070.967
42.5	24612.23	42 *	4051.05	02 *	3389.19	92 *	2458.44	72 *	1152.90	91 *	9385.94	11 *	6949.90	71 *	3436.706	9324.489 *	5553.590 *
37.5	27624.41	42 *	7393.57	22 *	7064.56	72 *	6438.18	12 *	5698.29	72 *	4507.98	12 *	2127.56	41 *	8297.03	31 *	3462.59	98 *	644.563 *
33.0	29612.71	42 *	9348.41	72 *	8943.29	12 *	8387.54	52 *	7761.15	52 *	6878.69	12 *	5330.70	62 *	2147.16	01 *	7153.43	31 *	1538.825 *
29.0	31427.30	03 *	1087.60	73 *	0598.86	02 *	9995.56	22 *	9227.09	32 *	8255.45	52 *	6876.44	32 *	4730.93	52 *	0037.64	01 *	4111.813 *
25.5	33118.57	93 *	2719.26	13 *	2137.92	83 *	1329.48	93 *	0391.86	62 *	9232.94	02 *	7859.83	22 *	6079.06	72 *	2182.60	51 *	6295.578 *

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CANDELA TABULATION - (Cont.)

22.5	34454.32	34053.45	43434.24	13248	9.54	33.13	65.01	33011	4.30	02859
19.5	35607.91	33520	5.95	33455	2.71	33351	2.72	53233	5.83	73088
17.0	36423.74	13359	0.40	93352	86.21	73426	7.61	93305	7.58	23151
15.0	36981.23	43649	1.28	53579	0.48	13478	5.10	03357	4.27	73198
13.0	37364.50	73690	1.52	23622	0.43	73523	2.67	43402	7.28	32465
11.0	37741.40	03726	4.26	43658	2.49	03561	9.08	73444	2.42	03289
9.0	38042.01	13757	1.83	73689	0.56	83595	3.49	03485	4.37	93330
7.0	38307.18	03783	3.60	73720	4.84	83629	4.12	93520	9.94	33366
5.0	38554.24	83810	7.00	03746	8.74	73656	9.31	43549	3.93	93394
3.0	38779.38	73832	6.79	83767	9.89	33677	2.52	43571	0.40	03417
1.0	38959.78	63849	5.90	33784	1.95	83693	6.09	23587	8.04	93434
0.0	39017.00	73854	7.98	23789	1.85	23698	7.31	23593	0.37	63439
-1.0	39014.36	43854	3.77	23788	7.11	63697	7.50	13591	5.77	43437
-3.0	38941.66	73847	2.95	83781	4.20	73689	6.10	53582	3.38	33427
-5.0	38822.05	53835	3.23	43768	8.93	83677	3.18	73568	1.52	53412
-7.0	38669.99	03817	0.66	73750	9.61	73657	7.65	33546	0.64	33391
-9.0	38485.79	03798	8.45	53728	1.51	13631	2.07	73519	1.02	13363
-11.0	38261.22	63775	2.16	73704	1.78	63604	4.49	93485	1.43	23329
-13.0	37960.03	13745	4.89	43674	2.52	33572	4.37	03450	3.00	83291
-15.0	37631.54	53711	1.19	53637	1.71	43533	5.62	03410	6.14	53248
-17.0	37142.90	03668	3.88	63593	0.03	23487	8.04	13365	1.77	33204
-19.5	36401.46	03596	2.80	13527	6.43	83419	1.92	13297	6.95	93143
-22.5	35346.22	73489	7.29	33423	1.93	53324	1.89	93203	9.55	73069
-25.5	34071.84	53363	9.50	53299	4.34	73209	7.83	53107	9.44	82982
-29.0	32409.27	33200	4.95	43145	5.27	13075	3.33	62990	5.90	52886
-33.0	30566.39	43023	8.21	82977	4.51	62915	6.30	22846	8.78	62754
-37.5	28607.93	72832	0.33	32795	4.45	62734	9.12	62663	2.28	32552
-42.5	26136.30	52565	1.51	82501	6.09	52411	1.26	42282	6.99	62103
-47.5	20720.28	92003	6.71	31925	3.65	91808	1.94	01672	6.30	34926
-55.0	9833.765	*9309.897	*8666.911	*7900.437	*7206.740	*6218.228	*5161.731	*4336.397	*3841.597	3407.974
-65.0	3487.263	3438.076	3376.471	3306.365	3234.729	3125.039	2987.006	2804.167	2552.688	2160.041
-75.0	1452.835	1411.941	1361.121	1302.229	1265.846	1206.674	1135.840	1039.159	911.891	739.531
-85.0	52.965	48.605	42.688	34.969	39.322	44.443	46.864	46.208	39.010	26.682
-90.0	1.159	0.850	0.463	0.000	0.569	1.233	1.992	2.845	3.793	3.792

Vert. Angles	**Horizontal Angles**				
	55.0	**65.0**	**75.0**	**85.0**	**90.0**
90.0	1.851	0.370	1.332	3.104	3.989
85.0	6.863	1.148	2.475	3.934	3.991
75.0	367.346	127.995	28.026	5.789	3.995
65.0	1352.104	599.559	166.375	9.461	3.998
55.0	2535.877	1365.395	420.719	17.484	4.001
47.5	3264.973	1968.897	697.827	30.074	4.003
42.5	3682.922	2344.802	887.591	43.087	4.005
37.5	4038.577	2673.495	1051.462	59.561	4.006
33.0	4797.528	*2932.249	1200.608	69.277	4.007
29.0	6033.604	*3139.569	1329.592	78.460	4.008
25.5	7356.791	*3317.166	1429.150	85.889	4.008
22.5	8516.361	*3424.080	1509.080	92.816	4.009
19.5	9673.116	*3533.467	1582.621	99.056	4.009
17.0	10559.97	03609.106	1639.640	103.714	4.009
15.0	11230.28	73665.537	1686.155	107.075	4.010
13.0	11866.55	73714.054	1715.834	110.103	4.010
11.0	12360.09	33757.128	1746.482	118.317	4.010
9.0	12821.09	93794.915	1773.221	118.851	4.010

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CANDELA TABULATION - (Cont.)

7.0	13240.112	3826.906	1796.018	119.387	4.010
5.0	13587.266	3853.107	1827.389	119.926	4.010
3.0	13949.259	3879.953	1834.205	120.467	4.010
1.0	14065.587	3888.934	1841.035	121.279	4.010
0.0	14123.821	3893.429	1844.452	121.279	4.010
-1.0	14090.345	3890.772	1842.270	121.060	4.010
-3.0	14023.472	3885.464	1837.909	120.622	4.010
-5.0	13710.271	3862.155	1833.556	120.184	4.010
-7.0	13411.259	3839.383	1804.701	119.748	4.010
-9.0	13039.342	3810.633	1784.415	119.314	4.010
-11.0	12623.205	3775.847	1760.208	118.882	4.010
-13.0	12172.663	3735.718	1732.120	110.831	4.009
-15.0	11574.472	3689.941	1705.006	107.936	4.009
-17.0	10942.318	3636.377	1660.952	104.717	4.009
-19.5	10079.014	3564.476	1606.977	100.250	4.008
-22.5	8989.611	3458.166	1537.073	94.261	4.008
-25.5	7873.314	3355.541	1460.764	87.612	4.007
-29.0	6473.810	3186.094	1365.375	80.405	4.007
-33.0	5173.192	2985.225	1236.296	71.450	4.006
-37.5	4219.138	2729.432	1092.295	61.975	4.005
-42.5	3778.879	2410.072	919.023	44.882	4.004
-47.5	3357.767	2052.161	742.047	31.307	4.002
-55.0	2658.416	1465.086	456.637	18.138	4.000
-65.0	1515.710	704.995	185.655	9.592	3.996
-75.0	458.039	163.529	37.608	5.823	3.993
-85.0	12.184	2.209	2.579	3.964	3.989
-90.0	2.370	0.475	1.332	3.104	3.987

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LUMEN TABULATION
Average Of Right And Left Sides
Total Luminaire Lumens (one side of beam only) = 41832.33
Total Field Lumens (one side of beam only) = 40026.56
* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	0	1	3	5	7	9	11	13	15	17
90	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
85	1.96	3.92	3.92	3.88	3.81	3.75	3.66	3.57	3.46	4.14
75	7.11	14.22	14.17	14.04	13.86	13.65	13.40	13.11	12.77	15.45
65	19.45 *	38.89 *	38.51 *	37.77 *	36.89 *	35.77 *	34.46 *	32.91 *	31.23 *	36.59 *
55	34.43 *	68.80 *	68.08 *	66.74 *	65.19 *	63.25 *	60.95 *	58.26 *	55.24 *	64.51 *
47.5	35.99 *	71.87 *	71.28 *	70.27 *	69.07 *	67.56 *	65.77 *	63.67 *	61.11 *	72.31 *
42.5	42.44 *	84.70 *	84.17 *	83.38 *	82.34 *	81.02 *	79.50 *	77.71 *	75.52 *	90.88 *
37.5	41.53 *	82.84 *	82.36 *	81.68 *	80.77 *	79.64 *	78.30 *	76.79 *	75.15 *	91.35 *
33	39.49 *	78.75 *	78.25 *	77.53 *	76.59 *	75.44 *	74.11 *	72.66 *	71.08 *	86.40 *
29	36.63 *	73.02 *	72.52 *	71.79 *	70.84 *	69.71 *	68.45 *	67.06 *	65.49 *	79.46 *
25.5	32.79 *	65.35 *	64.90 *	64.25 *	63.40 *	62.42 *	61.31 *	60.03 *	58.59 *	70.99 *
22.5	33.84 *	67.44 *	66.97 *	66.32 *	65.49 *	64.54 *	63.44 *	62.15 *	60.67 *	73.49 *
19.5	28.88 *	57.54 *	57.12 *	56.55 *	55.89 *	55.14 *	54.24 *	53.17 *	51.94 *	62.95 *
17	23.49 *	46.79 *	46.43 *	45.97 *	45.45 *	44.86 *	44.15 *	43.31 *	42.34 *	51.34 *
15	23.79 *	47.38 *	47.00 *	46.54 *	46.04 *	45.45 *	44.72 *	43.88 *	42.92 *	52.08 *
13	24.07 *	47.90 *	47.50 *	47.06 *	46.56 *	45.96 *	45.23 *	44.38 *	43.41 *	52.70 *
11	24.30 *	48.34 *	47.93 *	47.51 *	47.01 *	46.39 *	45.66 *	44.81 *	43.83 *	53.23 *
9	24.49 *	48.67 *	48.27 *	47.89 *	47.39 *	46.76 *	46.02 *	45.16 *	44.18 *	53.66 *
7	24.63 *	48.92 *	48.55 *	48.19 *	47.69 *	47.07 *	46.31 *	45.44 *	44.45 *	54.00 *
5	24.72 *	49.07 *	48.75 *	48.40 *	47.91 *	47.28 *	46.52 *	45.64 *	44.65 *	54.25 *
3	24.74 *	49.12 *	48.88 *	48.53 *	48.04 *	47.42 *	46.66 *	45.78 *	44.79 *	54.41 *
1	12.34 *	24.56 *	24.46 *	24.29 *	24.05 *	23.74 *	23.36 *	22.92 *	22.42 *	27.24 *
0	12.35 *	24.57 *	24.47 *	24.30 *	24.06 *	23.75 *	23.37 *	22.93 *	22.43 *	27.24 *
-1	24.77 *	49.16 *	48.93 *	48.59 *	48.10 *	47.48 *	46.72 *	45.84 *	44.84 *	54.47 *

LUMENS TABULATION - (Cont.)

-3	24.77 *	49.17 *	48.85 *	48.51 *	48.02 *	47.40 *	46.64 *	45.76 *	44.77 *	54.38 *
-5	24.72 *	49.09 *	48.71 *	48.34 *	47.85 *	47.23 *	46.48 *	45.61 *	44.62 *	54.20 *
-7	24.61 *	48.90 *	48.49 *	48.10 *	47.60 *	46.98 *	46.24 *	45.38 *	44.40 *	53.93 *
-9	24.46 *	48.63 *	48.21 *	47.78 *	47.28 *	46.66 *	45.93 *	45.07 *	44.09 *	53.55 *
-11	24.25 *	48.25 *	47.84 *	47.39 *	46.89 *	46.28 *	45.54 *	44.69 *	43.72 *	53.08 *
-13	24.01 *	47.79 *	47.39 *	46.93 *	46.42 *	45.82 *	45.09 *	44.24 *	43.27 *	52.50 *
-15	23.73 *	47.25 *	46.88 *	46.41 *	45.88 *	45.28 *	44.55 *	43.71 *	42.74 *	51.82 *
-17	29.21 *	58.18 *	57.74 *	57.16 *	56.48 *	55.72 *	54.81 *	53.74 *	52.50 *	63.63 *
-19.5	34.28 *	68.30 *	67.81 *	67.13 *	66.29 *	65.34 *	64.23 *	62.92 *	61.43 *	74.40 *
-22.5	33.28 *	66.32 *	65.84 *	65.18 *	64.33 *	63.33 *	62.20 *	60.90 *	59.43 *	71.98 *
-25.5	37.27 *	74.28 *	73.75 *	73.01 *	72.05 *	70.88 *	69.58 *	68.13 *	66.51 *	80.65 *
-29	40.24 *	80.22 *	79.69 *	78.92 *	77.95 *	76.77 *	75.39 *	73.87 *	72.22 *	87.75 *
-33	42.33 *	84.40 *	83.88 *	83.16 *	82.22 *	81.08 *	79.71 *	78.20 *	76.56 *	93.13 *
-37.5	43.57 *	86.93 *	86.40 *	85.63 *	84.65 *	83.40 *	81.98 *	80.32 *	78.27 *	94.51 *
-42.5	38.31 *	76.44 *	75.85 *	74.88 *	73.71 *	72.24 *	70.50 *	68.44 *	65.95 *	78.39 *
-47.5	39.41 *	78.62 *	77.73 *	76.24 *	74.49 *	72.31 *	69.74 *	66.72 *	63.31 *	73.94 *
-55	23.28 *	46.44 *	45.85 *	44.87 *	43.73 *	42.33 *	40.75 *	38.86 *	36.71 *	42.76 *
-65	8.01	15.99	15.89	15.70	15.47	15.21	14.90	14.56	14.17	17.10
-75	2.54	5.07	5.04	4.97	4.87	4.77	4.64	4.51	4.35	5.19
-85	0.06	0.12	0.12	0.11	0.11	0.11	0.10	0.09	0.09	0.10
-90										
Total	1140.56	2272.24	2255.4	2231.9	2202.8	2167.21	2125.36	2076.91	2021.63	2440.14

Vert. Angles	**Horizontal Angles**									
	19.5	**22.5**	**25.5**	**29**	**33**	**37.5**	**42.5**	**47.5**	**55**	**65**
90	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.02	0.01
85	4.68	4.35	4.62	4.64	4.34	3.76	2.78	2.62	1.41	0.29
75	17.70	16.70	18.05	18.56	18.07	16.49	12.78	12.78	7.72	1.86
65	40.01 *	36.02 *	37.43 *	37.28	36.10	33.74	27.38	29.22	19.64	5.48
55	70.12 *	61.90 *	61.92 *	57.98 *	50.64 *	41.19 *	30.28 *	32.57	23.62	7.35

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LUMENS TABULATION - (Cont.)

47.5	80.26 *	72.21 *	73.09 *	68.53 *	58.25 *	43.99 *	28.08 *	26.91 *	19.62	6.55
42.5	103.10 *	95.31 *	99.71 *	96.82 *	85.24 *	66.20 *	40.97 *	34.03 *	22.32	7.80
37.5	105.10 *	99.18 *	106.77 *	107.67 *	99.20 *	80.52 *	51.22 *	39.55 *	22.53	7.99
33	99.74 *	94.88 *	103.61 *	107.29 *	102.93 *	87.43 *	57.74 *	43.88 *	22.66 *	7.82
29	91.57 *	87.08 *	95.46 *	99.99 *	98.41 *	86.84 *	59.66 *	45.98 *	22.50 *	7.34
25.5	81.58 *	77.40 *	84.79 *	89.11 *	88.82 *	80.63 *	57.36 *	45.12 *	21.49 *	6.61
22.5	84.37 *	79.88 *	87.30 *	91.71 *	92.03 *	85.16 *	62.28 *	50.16 *	23.57 *	6.86
19.5	72.28 *	68.36 *	74.52 *	78.15 *	78.64 *	73.61 *	55.02 *	45.36 *	21.21 *	5.89
17	58.97 *	55.77 *	60.71 *	63.55 *	63.94 *	60.33 *	45.79 *	38.36 *	17.91 *	4.82
15	59.85 *	56.62 *	61.61 *	64.40 *	64.76 *	61.40 *	47.13 *	40.02 *	18.70 *	4.89
13	60.62 *	57.37 *	62.41 *	65.20 *	65.51 *	62.20 *	48.17 *	41.46 *	19.40 *	4.96
11	61.26 *	58.01 *	63.10 *	65.89 *	66.17 *	62.87 *	49.03 *	42.67 *	19.99 *	5.02
9	61.78 *	58.53 *	63.69 *	66.44 *	66.70 *	63.47 *	49.74 *	43.69 *	20.53 *	5.07
7	62.19 *	58.95 *	64.15 *	66.89 *	67.10 *	63.92 *	50.29 *	44.53 *	20.98 *	5.11
5	62.48 *	59.24 *	64.49 *	67.23 *	67.40 *	64.25 *	50.76 *	45.27 *	21.40 *	5.14
3	62.67 *	59.43 *	64.71 *	67.47 *	67.62 *	64.45 *	51.02 *	45.70 *	21.64 *	5.16
1	31.37 *	29.75 *	32.40 *	33.78 *	33.86 *	32.24 *	25.52 *	22.88 *	10.84 *	2.58
0	31.38 *	29.76 *	32.41 *	33.79 *	33.87 *	32.25 *	25.53 *	22.90 *	10.85 *	2.58
-1	62.74 *	59.50 *	64.79 *	67.55 *	67.69 *	64.52 *	51.12 *	45.85 *	21.71 *	5.16
-3	62.63 *	59.39 *	64.65 *	67.39 *	67.54 *	64.40 *	50.97 *	45.57 *	21.54 *	5.16
-5	62.42 *	59.16 *	64.39 *	67.12 *	67.31 *	64.15 *	50.60 *	44.97 *	21.20 *	5.13
-7	62.09 *	58.82 *	64.01 *	66.75 *	66.98 *	63.80 *	50.17 *	44.28 *	20.82 *	5.09
-9	61.63 *	58.37 *	63.50 *	66.27 *	66.52 *	63.31 *	49.59 *	43.41 *	20.34 *	5.05
-11	61.06 *	57.80 *	62.88 *	65.65 *	65.94 *	62.73 *	48.86 *	42.36 *	19.81 *	5.00
-13	60.35 *	57.10 *	62.13 *	64.91 *	65.26 *	62.03 *	47.95 *	41.07 *	19.18 *	4.94
-15	59.53 *	56.30 *	61.28 *	64.10 *	64.51 *	61.10 *	46.78 *	39.55 *	18.43 *	4.87
-17	73.06 *	69.09 *	75.28 *	78.89 *	79.47 *	74.81 *	56.49 *	47.02 *	21.90 *	5.97
-19.5	85.40 *	80.82 *	88.25 *	92.70 *	93.25 *	86.97 *	64.39 *	52.37 *	24.47 *	6.96

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LUMENS TABULATION - (Cont.)

-22.5	82.68 *	78.38 *	85.81 *	90.26 *	90.36 *	82.87 *	59.81 *	47.54 *	22.44 *	6.73
-25.5	92.86 *	88.27 *	96.81 *	101.70 *	100.77 *	90.09 *	62.89 *	48.87 *	23.54 *	7.49
-29	101.31 *	96.46 *	105.65 *	110.01 *	106.62 *	91.96 *	61.67 *	46.96 *	23.66 *	8.01
-33	107.40 *	101.79 *	110.28 *	112.22 *	104.79 *	86.35 *	55.54 *	42.50 *	23.39	8.24
-37.5	107.78 *	100.30 *	105.79 *	103.81 *	92.58 *	72.68 *	45.12 *	36.52 *	23.03	8.09
-42.5	87.45 *	79.21 *	80.76 *	76.10 *	65.04 *	49.27 *	30.89 *	28.43 *	20.30	6.86
-47.5	80.50 *	71.13 *	70.94 *	65.62 *	56.39 *	45.22 *	32.29 *	33.99	24.81	7.86
-55	46.62 *	41.55 *	42.40 *	41.24 *	38.87	35.84	29.06	31.30	21.39	6.09
-65	19.57	18.48	20.02	20.65	20.23	18.60	14.53	14.66	9.02	2.24
-75	5.85	5.42	5.76	5.80	5.50	4.82	3.56	3.35	1.84	0.40
-85	0.10	0.09	0.09	0.10	0.10	0.08	0.06	0.05	0.03	0.01
-90										
Total	2786.15	2614.15	2812.47	2881.26	2795.33	2512.55	1840.89	1576.28	813.38	232.54

Vert. Angles	**Horizontal Angles**		
	75	**85**	**90**	**Total**
90	0.01	0.00	0.51
85	0.04	0.00	69.57
75	0.18	0.00	272.69
65	0.55	0.00	645.31
55	0.83	0.00	1043.84
47.5	0.81	0.00	1127.2
42.5	1.02	0.00	1434.17
37.5	1.09	0.01	1491.24
33	1.10	0.01	1459.39
29	1.06	0.01	1370.86
25.5	0.97	0.01	1237.92
22.5	1.03	0.01	1288.71
19.5	0.89	0.00	1107.36
17	0.74	0.00	905.01

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LUMENS TABULATION - (Cont.)

15	0.75	0.00	919.96
13	0.77	0.00	932.83
11	0.78	0.00	943.80
9	0.79	0.00	952.93
7	0.80	0.00	960.16
5	0.81	0.00	965.68
3	0.81	0.00	969.02
1	0.41	0.00	485.02
0	0.41	0.00	485.18
-1	0.81	0.00	970.35
-3	0.81	0.00	968.32
-5	0.81	0.00	964.12
-7	0.80	0.00	958.23
-9	0.79	0.00	950.45
-11	0.78	0.00	940.79
-13	0.76	0.00	929.16
-15	0.75	0.00	915.46
-17	0.91	0.00	1122.06
-19.5	1.05	0.01	1308.77
-22.5	1.00	0.01	1260.68
-25.5	1.09	0.01	1400.49
-29	1.14	0.01	1496.49
-33	1.14	0.01	1538.32
-37.5	1.08	0.01	1502.44
-42.5	0.86	0.00	1219.9
-47.5	0.91	0.00	1182.15
-55	0.62	0.00	740.58
-65	0.21	0.00	305.20

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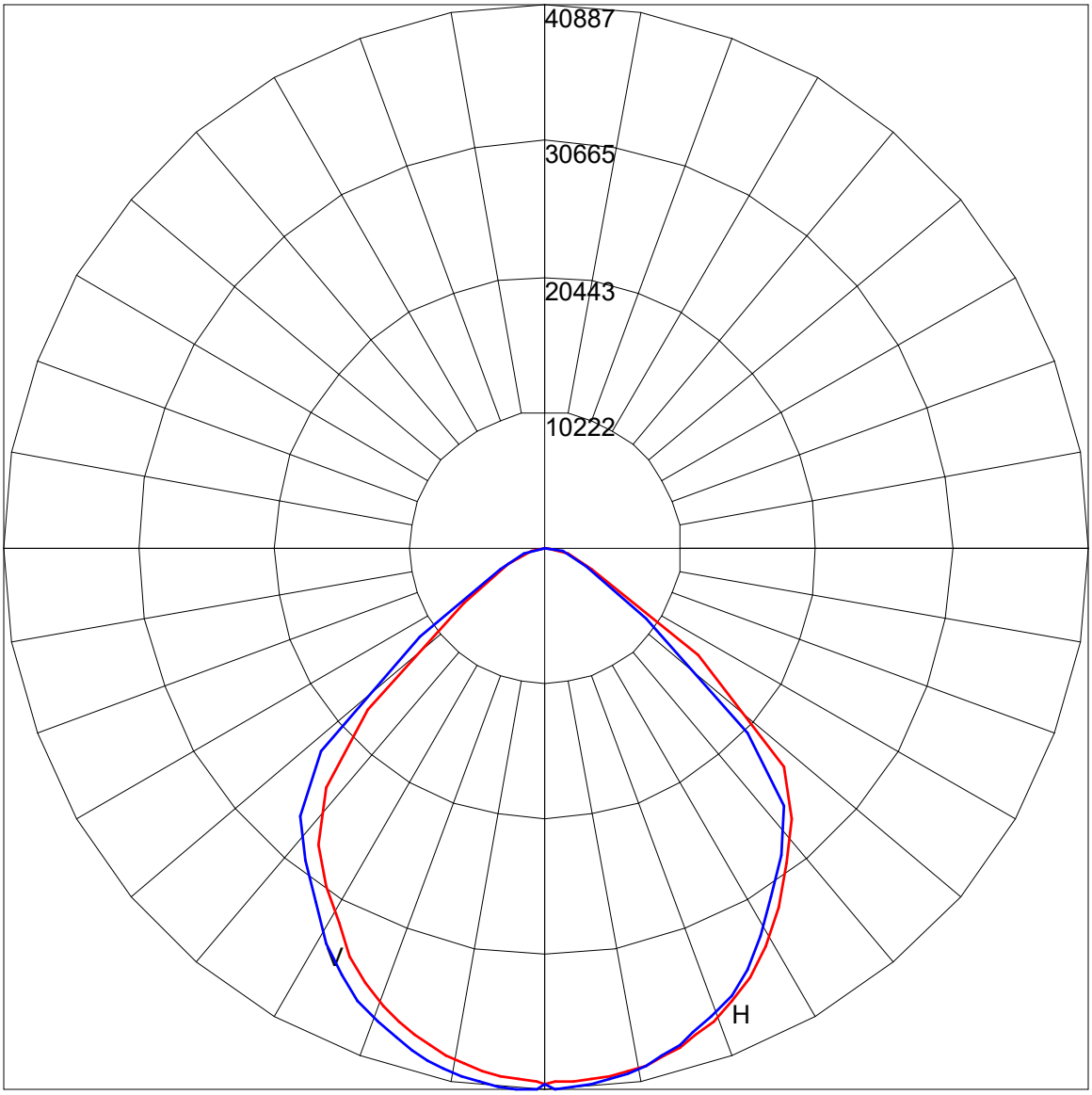
LUMENS TABULATION - (Cont.)

-75			
	0.04	0.00	88.29
-85			
	0.01	0.00	1.72
-90			
Total	33.01	0.18	41832.34

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

AXIAL CANDELA DISPLAY

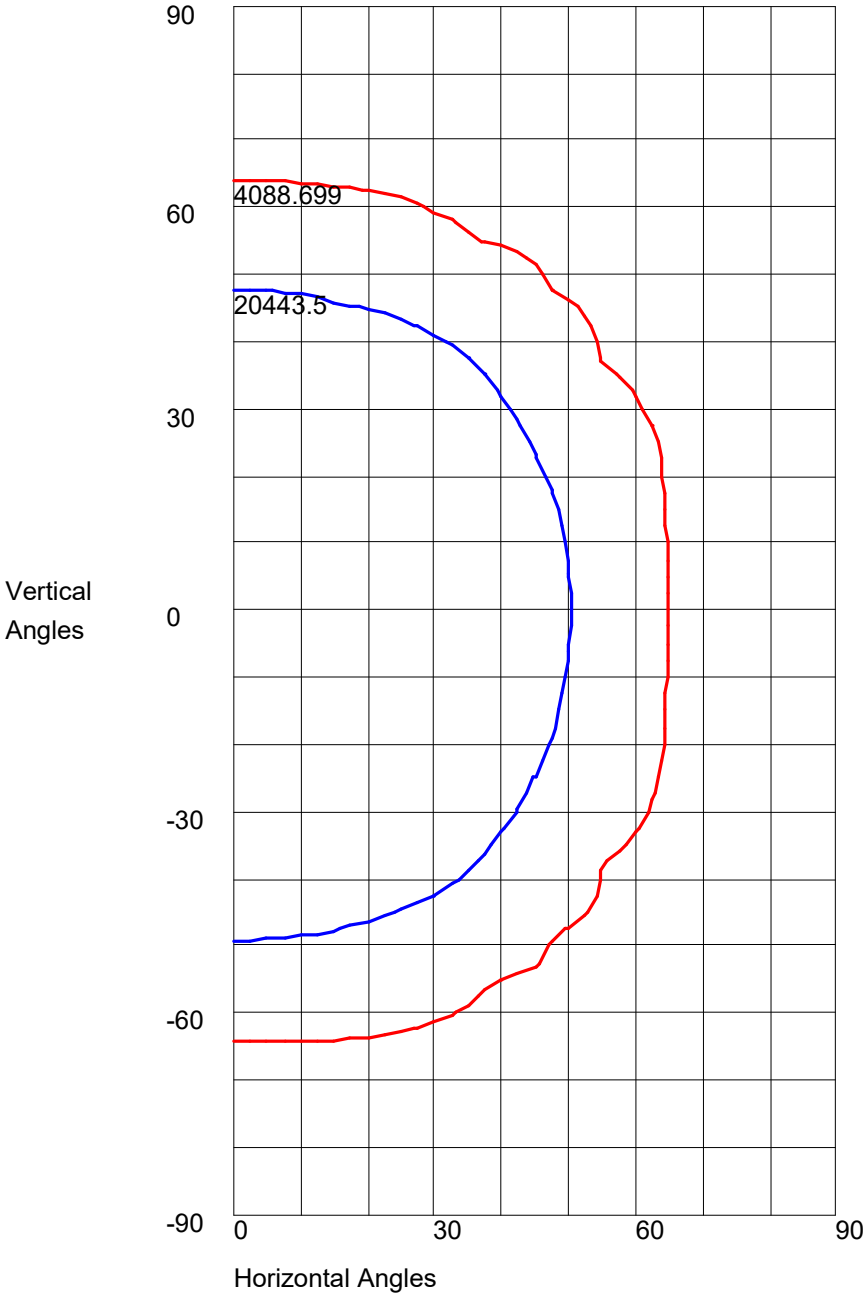


Maximum Candela = 40886.992 Located At Horizontal Angle = 0, Vertical Angle =-1
H - Horizontal Axial Candela
V - Vertical Axial Candela

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

ISOCANDELA CURVES



Maximum Candela = 40886.992 Located At Horizontal Angle = 0, Vertical Angle =-1
50% Maximum Candela = 20443.496
10% Maximum Candela = 4088.6992

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

DESCRIPTIVE INFORMATION (From Photometric File)

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

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS



NEMA Type	6 H x 7 V
Maximum Candela	29456.484
Maximum Candela Angle	37.5H -47.5V
Horizontal Beam Angle (50%)	112.6
Vertical Beam Angle (50%)	122.1
Horizontal Field Angle (10%)	128.2
Vertical Field Angle (10%)	143.5
Lumens Per Lamp	83245 (1 lamp)
Total Lamp Lumens	83245
Beam Lumens	61478
Beam Efficiency	74 %
Field Lumens	82077
Field Efficiency	99 %
Spill Lumens	831
Luminaire Lumens	82908
Total Efficiency	100 %
Total Luminaire Watts	597.92
Ballast Factor	1.00

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

AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	7.417	90	0
85	241.847	85	231.699
75	1290.258	75	1344.531
65	24708.783	65	23028.465
55	26620.647	55	27293.759
47.5	18765.016	47.5	19935.043
42.5	17605.137	42.5	17642.19
37.5	15433.131	37.5	16754.138
33	14468.051	33	14681.146
29	14115.505	29	14358.735
25.5	14137.337	25.5	14341.977
22.5	14301.695	22.5	14457.903
19.5	14462.977	19.5	14617.34
17	14600.428	17	14733.113
15	14711.281	15	14842.121
13	14795.228	13	14941.289
11	14877.483	11	15018.471
9	15025.235	9	15131.015
7	15221.572	7	15308.902
5	15384.392	5	15496.936
3	15480.024	3	15631.159
1	15517.077	1	15694.811
0	15548.442	0	15548.442
-1	15510.159	-1	15693.273
-3	15438.204	-3	15647.917
-5	15277.076	-5	15527.071
-7	15087.35	-7	15352.413
-9	14914.383	-9	15156.076
-11	14818.751	-11	15025.235
-13	14729.731	-13	14942.826
-15	14620.723	-15	14838.892
-17	14511.561	-17	14719.583
-19.5	14395.789	-19.5	14598.891
-22.5	14246.345	-22.5	14441.145
-25.5	14170.855	-25.5	14333.674
-29	14212.828	-29	14343.668
-33	14494.649	-33	14629.025
-37.5	16866.529	-37.5	16195.262
-42.5	17366.827	-42.5	17517.962
-47.5	20131.38	-47.5	19651.377
-55	27564.049	-55	27532.223
-65	21286.34	-65	23986.934
-75	1308.862	-75	1391.579
-85	196.337	-85	242.923
-90	0	-90	7.568

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

CANDELA TABULATION
Maximum Candela = 29456.484
Beam Edge = 14728.242 Cd (50% of Max.)
Field Edge = 2945.6484 Cd (10% of Max.)
* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	**-85.0**	**-75.0**	**-65.0**	**-55.0**	**-47.5**	**-42.5**	**-37.5**	**-33.0**	**-29.0**
90.0	0.002	1.059	3.181	4.243	2.123	0.531	0.598	1.794	2.870	3.826
85.0	0.002	1.259	4.170	13.804	47.053	65.075	83.364	116.717	142.624	165.004
75.0	0.002	1.348	123.743	251.211	354.526	432.804	501.641	622.969	727.343	813.667
65.0	0.002	4.100	273.701	562.226	837.738	1045.116	1750.965	5296.033	*9421.537	*13180.821 *
55.0	0.002	35.793	443.823	943.395	5628.984	*14259.423	*8916.310	*3055.665	*6293.749	*7760.724 *
47.5	0.002	75.858	603.201	1517.469	16157.436	*4156.111	*7300.292	*8678.993	*7950.106	*6180.345 *
42.5	0.001	96.763	714.795	3642.965	*21607.711	*7394.848	*8295.278	*6802.015	*4164.946	*1643.058 *
37.5	0.001	115.042	826.418	7423.191	*25251.338	*8016.647	*6438.266	*2935.133	*0155.220	*8217.584 *
33.0	0.001	131.011	923.299	10996.895	*6925.793	*7128.008	*3557.978	*9850.678	*7731.957	*6892.683 *
29.0	0.001	146.159	997.189	13638.646	*7619.230	*5563.237	*1114.888	*7936.505	*6859.319	*7602.053 *
25.5	0.001	157.919	1055.086	15910.587	*7891.778	*4041.260	*9444.874	*7066.634	*7397.472	*6088.389 *
22.5	0.001	166.159	1102.363	17140.284	*7959.071	*2940.593	*8298.974	*6812.656	*7172.581	*4881.300 *
19.5	0.001	173.477	1144.097	18329.695	*7906.113	*1984.763	*7796.936	*7238.349	*5372.936	*4301.419 *
17.0	0.001	178.847	1173.785	19057.619	*7836.742	*1356.101	*7489.156	*7639.184	*4702.695	*4126.938 *
15.0	0.001	182.652	1198.061	19609.587	*7758.951	*0938.482	*7300.930	*7757.306	*4438.842	*4045.173 *
13.0	0.000	186.009	1217.521	20095.273	*7665.075	*0626.829	*7213.817	*7537.675	*4385.917	*4004.212 *
11.0	0.000	196.370	1237.599	20505.869	*7601.552	*0383.516	*7204.229	*7146.270	*4344.282	*4032.028 *
9.0	0.000	196.364	1255.532	20787.067	*7552.642	*0185.550	*7200.320	*6882.439	*4342.420	*4060.806 *
7.0	0.000	196.358	1271.286	21007.266	*7508.072	*0063.067	*7215.071	*6732.916	*4364.880	*4093.175 *
5.0	0.000	196.352	1291.959	21165.635	*7491.556	*0014.909	*7257.272	*6702.118	*4388.411	*4126.189 *
3.0	0.000	196.346	1298.711	21333.063	*7475.120	*9955.846	*7288.535	*6681.578	*4422.034	*4158.927 *
1.0	0.000	196.340	1305.477	21301.923	*7534.382	*0072.805	*7340.694	*6752.326	*4465.143	*4193.321 *
0.0	0.000	196.337	1308.862	21286.340	*7564.049	*0131.380	*7366.827	*6866.529	*4494.649	*4212.828 *
-1.0	0.000	196.337	1305.576	21301.990	*7558.614	*0098.505	*7351.117	*6829.785	*4478.702	*4202.871 *
-3.0	0.000	196.296	1299.007	21333.264	*7547.757	*0032.862	*7319.763	*6923.427	*4463.111	*4187.720 *
-5.0	0.000	196.268	1292.453	21164.595	*7613.066	*0145.718	*7312.648	*7132.855	*4458.008	*4174.561 *
-7.0	0.000	196.241	1272.230	21003.974	*7678.634	*0249.244	*7296.905	*7381.283	*4466.353	*4165.089 *
-9.0	0.000	196.214	1256.957	20779.706	*7772.696	*0431.797	*7314.659	*7746.907	*4480.872	*4159.008 *
-11.0	0.000	196.187	1239.660	20492.131	*7865.283	*0696.821	*7360.671	*8014.811	*4533.706	*4159.302 *
-13.0	0.000	185.789	1220.406	20069.747	*7969.622	*1013.146	*7422.676	*8172.185	*4685.065	*4164.054 *
-15.0	0.000	182.398	1201.884	19567.580	*8098.043	*1404.629	*7578.564	*8148.485	*4908.446	*4215.598 *
-17.0	0.000	178.558	1178.735	18995.107	*8205.837	*1909.659	*7850.791	*7835.929	*5533.502	*4314.813 *
-19.5	0.000	173.144	1150.636	18236.591	*8310.604	*2651.883	*8268.351	*7303.143	*6798.701	*4572.943 *
-22.5	0.000	165.772	1110.180	16962.876	*8403.418	*3725.165	*8902.251	*7042.912	*8058.140	*5383.392 *
-25.5	0.000	157.478	1063.286	15666.718	*8379.135	*4963.040	*0123.743	*7409.589	*7544.720	*7436.459 *
-29.0	0.000	145.652	1004.666	13378.623	*8144.690	*6449.525	*1915.381	*8405.106	*7069.930	*7897.303 *
-33.0	0.000	130.428	929.300	10627.819	*7411.946	*7926.492	*4444.092	*0475.127	*8094.027	*7090.456 *
-37.5	0.000	114.375	831.719	6670.437	*25575.679	*8697.033	*7268.833	*3715.226	*0737.624	*8618.849 *
-42.5	0.000	96.140	717.181	3218.989	*21576.178	*7869.378	*9011.728	*7607.378	*4960.219	*2389.747 *
-47.5	0.000	75.510	603.604	1445.104	15700.281	*4305.196	*7665.089	*9349.634	*8776.839	*7089.585 *
-55.0	0.000	36.239	443.901	971.755	4915.399	*13748.500	*8667.785	*3006.842	*6438.274	*8099.071 *
-65.0	0.000	4.334	272.242	563.017	857.594	1009.828	1378.295	4720.042	*8772.795	*12770.625 *
-75.0	0.000	1.428	120.823	248.667	351.845	427.721	492.038	612.610	717.900	802.065
-85.0	0.000	1.327	4.418	14.996	50.270	65.164	82.282	114.021	139.122	160.424
-90.0	0.000	1.060	3.182	4.246	2.125	0.531	0.548	1.646	2.634	3.512

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

CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	-25.5	**-22.5**	**-19.5**	**-17.0**	**-15.0**	**-13.0**	**-11.0**	**-9.0**	**-7.0**	**-5.0**
90.0	4.664	5.381	4.664	4.066	3.587	3.109	2.631	2.152	1.674	1.196
85.0	182.954	197.568	202.990	207.514	211.065	214.512	222.721	224.353	225.985	227.618
75.0	884.838	936.439	993.104	1043.563	1084.571	1126.691	1168.935	1207.813	1243.446	1284.552
65.0	16246.60	18405.58	20096.18	20902.32	21463.80	21888.95	22248.87	22518.05	22728.56	22882.093 *
55.0	28277.63	28344.21	28137.04	27929.01	27772.22	27622.48	27504.54	27408.51	27313.84	27261.522 *
47.5	24429.81	23015.55	21757.67	20836.27	20493.66	20217.75	19991.34	19859.27	19783.12	19763.622 *
42.5	19883.74	18685.91	17900.40	17465.97	17222.07	17193.98	17220.77	17263.45	17327.81	17426.573 *
37.5	17259.79	16931.33	17306.69	17602.76	17489.57	17057.26	16791.32	16643.79	16522.61	16529.002 *
33.0	17296.55	17320.34	16141.43	15238.04	14752.02	14504.08	14459.47	14459.54	14495.00	14532.408 *
29.0	16508.26	15153.04	14441.96	14243.21	14164.65	14126.94	14124.40	14162.85	14203.53	14245.733 *
25.5	14755.97	14305.24	14135.93	14091.81	14082.85	14092.58	14111.01	14152.17	14201.56	14246.432 *
22.5	14250.54	14107.71	14066.16	14076.86	14099.12	14135.40	14180.07	14230.78	14294.04	14356.503 *
19.5	14077.66	14037.71	14062.82	14099.57	14150.08	14218.66	14304.50	14385.12	14455.82	14514.315 *
17.0	14016.61	14028.58	14080.49	14142.63	14227.39	14321.11	14411.27	14491.72	14559.83	14626.509 *
15.0	13994.78	14035.91	14116.96	14214.36	14301.84	14392.95	14487.30	14571.43	14660.21	14729.691 *
13.0	13985.97	14054.24	14167.21	14285.81	14376.46	14461.45	14553.00	14656.49	14755.19	14835.614 *
11.0	13995.93	14083.81	14226.77	14353.03	14449.70	14533.33	14627.45	14738.24	14841.10	14919.958 *
9.0	14039.16	14123.46	14280.45	14411.09	14507.76	14611.87	14714.01	14807.67	14899.17	14990.186 *
7.0	14075.13	14168.22	14327.20	14455.83	14566.63	14681.57	14786.02	14867.58	14945.16	15087.299 *
5.0	14106.61	14204.13	14360.89	14488.55	14604.96	14725.05	14825.30	14912.87	15040.78	15172.924 *
3.0	14135.55	14227.06	14382.49	14507.70	14624.41	14742.19	14837.36	14949.88	15132.27	15302.941 *
1.0	14160.05	14242.91	14395.15	14514.95	14628.21	14739.71	14831.02	14938.78	15124.77	15330.036 *
0.0	14170.85	14246.34	14395.78	14511.56	14620.72	14729.73	14818.75	14914.38	15087.35	15277.076 *
-1.0	14166.17	14245.09	14395.55	14512.52	14622.40	14732.65	14819.52	14921.43	15101.22	15292.185 *
-3.0	14154.56	14232.93	14384.28	14500.84	14609.52	14721.28	14807.27	14899.41	15063.82	15207.008 *
-5.0	14140.22	14212.09	14365.69	14479.76	14585.00	14696.15	14783.58	14842.13	14942.42	15048.980 *
-7.0	14126.25	14187.83	14338.53	14451.05	14541.21	14635.65	14724.90	14781.05	14825.30	14931.079 *
-9.0	14107.84	14158.76	14294.05	14396.73	14471.77	14559.31	14646.31	14713.66	14772.16	14822.245 *
-11.0	14086.55	14129.02	14226.31	14332.96	14407.63	14474.02	14552.96	14638.13	14708.86	14756.761 *
-13.0	14081.66	14103.69	14158.10	14256.99	14329.35	14391.18	14464.46	14543.03	14617.34	14682.097 *
-15.0	14088.00	14085.86	14110.10	14172.43	14248.06	14318.44	14389.02	14449.25	14510.63	14595.972 *
-17.0	14113.23	14075.06	14088.33	14102.11	14159.13	14237.37	14308.15	14364.96	14411.58	14509.073 *
-19.5	14192.37	14083.67	14072.00	14077.62	14087.96	14129.19	14188.71	14250.88	14323.43	14411.618 *
-22.5	14424.76	14181.62	14079.69	14064.18	14066.33	14068.15	14079.51	14102.74	14184.38	14266.317 *
-25.5	15254.12	14467.69	14204.60	14107.09	14074.65	14059.21	14053.42	14083.79	14136.36	14192.064 *
-29.0	17763.74	15684.95	14730.73	14398.59	14262.33	14170.77	14134.08	14154.31	14187.53	14226.198 *
-33.0	17462.47	18236.01	17307.36	16009.41	15374.55	14937.14	14696.83	14612.20	14579.71	14565.232 *
-37.5	17535.18	17133.63	17423.54	18004.14	18370.29	18428.34	18182.52	17726.12	17106.97	16748.105 *
-42.5	20529.13	19219.13	18380.17	17829.67	17503.78	17339.71	17304.38	17303.73	17332.08	17390.824 *
-47.5	25384.31	23978.60	22689.45	21767.70	21227.17	20786.72	20401.06	20124.86	19914.79	19769.155 *
-55.0	28749.20	28854.52	28691.95	28531.29	28393.72	28234.19	28088.41	27952.23	27801.50	27682.866 *
-65.0	15949.91	18225.67	20065.90	21019.06	21692.27	22228.89	22693.02	23057.38	23361.22	23607.151 *
-75.0	867.671	913.459	973.324	1029.190	1074.865	1127.387	1179.438	1226.870	1269.989	1318.868
-85.0	177.141	190.282	198.252	204.768	209.919	214.973	224.514	227.861	231.208	234.555
-90.0	4.281	4.940	5.290	5.582	5.816	6.050	6.283	6.517	6.751	6.984

Vert. Angles	Horizontal Angles									
	-3.0	**-1.0**	**0.0**	**1.0**	**3.0**	**5.0**	**7.0**	**9.0**	**11.0**	**13.0**
90.0	0.717	0.239	0.000	0.007	0.021	0.035	0.049	0.063	0.077	0.091
85.0	229.250	230.883	231.699	227.947	220.443	212.939	205.436	197.933	190.430	176.580
75.0	1308.539	1332.533	1344.531	1324.348	1283.986	1243.634	1189.060	1140.322	1090.156	1038.831
65.0	23038.09	23031.67	23028.46	22954.63	22807.02	22487.98	22164.87	21772.91	21307.14	20757.652 *

CANDELA TABULATION - (Cont.)

55.0	27212.387	27266.624	27293.759	27230.198	27103.149	27072.257	27039.356	27039.393	27048.316	27077.613 *
47.5	19734.835	19868.262	19935.043	19847.317	19672.044	19663.337	19648.655	19688.162	19775.290	19961.399 *
42.5	17518.068	17600.776	17642.190	17572.843	17434.351	17290.159	17141.177	17021.547	16927.815	16866.140 *
37.5	16573.324	16674.242	16754.138	16619.968	16403.592	16225.885	16064.903	16079.991	16173.589	16527.858 *
33.0	14581.602	14641.559	14681.146	14630.609	14548.715	14477.510	14417.396	14357.944	14336.401	14343.523 *
29.0	14290.348	14335.050	14358.735	14315.831	14233.236	14152.191	14074.222	13998.860	13929.458	13949.384 *
25.5	14287.510	14324.826	14341.977	14302.663	14221.410	14137.485	14051.685	13963.737	13908.799	13909.024 *
22.5	14404.017	14443.270	14457.903	14417.572	14327.708	14231.637	14128.238	14016.721	13991.007	13964.471 *
19.5	14562.642	14602.368	14617.340	14574.673	14479.228	14375.199	14265.509	14194.540	14148.289	14100.079 *
17.0	14679.214	14719.362	14733.113	14687.237	14584.830	14474.624	14359.326	14343.934	14300.285	14243.930 *
15.0	14786.589	14829.466	14842.121	14792.319	14678.375	14553.089	14472.547	14446.581	14413.227	14361.714 *
13.0	14888.765	14929.677	14941.289	14884.350	14758.042	14630.187	14588.171	14557.481	14518.820	14456.340 *
11.0	14970.405	15009.113	15018.471	14954.539	14810.963	14703.791	14684.733	14657.830	14611.871	14529.969 *
9.0	15077.975	15126.273	15131.015	15054.532	14873.429	14800.600	14767.162	14732.210	14674.685	14589.818 *
7.0	15239.809	15307.064	15308.902	15213.381	14988.555	14970.131	14889.345	14786.252	14725.061	14641.610 *
5.0	15369.604	15492.680	15496.936	15360.038	15197.691	15159.287	14998.153	14845.741	14763.011	14691.315 *
3.0	15430.363	15598.058	15631.159	15398.177	15366.274	15246.535	15064.362	14910.947	14807.377	14743.118 *
1.0	15484.839	15585.690	15694.811	15450.447	15429.190	15347.390	15186.580	14999.884	14860.269	14782.023 *
0.0	15438.204	15510.159	15548.442	15517.077	15480.024	15384.392	15221.572	15025.235	14877.483	14795.228 *
-1.0	15427.111	15434.854	15693.273	15598.223	15475.557	15373.446	15208.305	15019.563	14880.919	14803.617 *
-3.0	15296.312	15424.811	15647.917	15577.605	15506.694	15332.886	15127.917	14969.622	14873.422	14805.042 *
-5.0	15185.766	15397.835	15527.071	15482.341	15378.748	15309.982	15111.744	14949.437	14873.346	14792.553 *
-7.0	15037.989	15262.462	15352.413	15315.931	15201.717	15143.952	15041.549	14928.672	14861.033	14766.420 *
-9.0	14922.871	15088.163	15156.076	15134.280	15058.250	15004.441	14954.411	14899.121	14834.099	14735.838 *
-11.0	14854.756	14972.982	15025.235	15012.734	14977.060	14940.021	14899.139	14852.629	14791.394	14712.721 *
-13.0	14796.337	14898.500	14942.826	14935.580	14907.862	14864.351	14820.035	14773.630	14736.294	14670.411 *
-15.0	14702.853	14799.451	14838.892	14832.275	14803.189	14767.276	14731.050	14702.194	14654.138	14599.722 *
-17.0	14600.813	14683.933	14719.583	14718.089	14703.150	14680.048	14647.283	14615.258	14564.425	14498.851 *
-19.5	14492.047	14566.287	14598.891	14597.541	14584.672	14562.207	14527.798	14485.388	14429.219	14368.956 *
-22.5	14342.107	14411.521	14441.145	14438.200	14421.769	14397.871	14371.456	14343.654	14318.451	14286.801 *
-25.5	14250.034	14306.290	14333.674	14331.596	14326.180	14319.542	14309.688	14298.387	14290.241	14283.734 *
-29.0	14270.591	14318.137	14343.668	14341.216	14340.672	14345.396	14358.874	14381.686	14424.475	14469.688 *
-33.0	14577.658	14605.882	14629.025	14635.610	14667.151	14715.233	14787.769	14871.030	14987.011	15190.391 *
-37.5	16434.571	16227.719	16195.262	16244.261	16484.949	16834.246	17231.103	17835.929	18333.405	18636.751 *
-42.5	17453.400	17496.421	17517.962	17508.900	17490.804	17462.452	17444.610	17479.489	17565.812	17697.219 *
-47.5	19618.009	19640.247	19651.377	19673.638	19718.113	19943.831	20169.616	20460.590	20812.777	21258.126 *
-55.0	27558.413	27540.957	27532.223	27567.007	27636.533	27804.907	27961.376	28139.068	28308.973	28485.550 *
-65.0	23853.372	23942.406	23986.934	23910.966	23759.070	23435.906	23102.664	22692.819	22198.561	21611.061 *
-75.0	1347.947	1377.034	1391.579	1373.094	1336.127	1299.169	1247.672	1202.584	1156.470	1109.734
-85.0	237.902	241.249	242.923	238.862	230.741	222.620	214.499	206.379	198.259	183.922
-90.0	7.218	7.451	7.568	7.238	6.579	5.920	5.260	4.601	3.942	3.282

Vert. Angles	**Horizontal Angles**									
	15.0	**17.0**	**19.5**	**22.5**	**25.5**	**29.0**	**33.0**	**37.5**	**42.5**	**47.5**
90.0	0.105	0.119	0.136	0.157	1.038	2.067	3.242	4.564	6.033	6.033
85.0	167.387	158.127	146.527	133.099	135.346	136.917	138.190	140.560	140.559	130.721
75.0	989.010	939.018	878.494	819.802	803.157	776.854	736.914	684.083	94.670	542.314
65.0	20135.793	19377.955	18327.203	17018.265	15750.883	13523.583	10950.024	7764.296	4319.048	1597.386
55.0	27106.694	27127.130	27197.162	27490.337	27721.367	27757.640	27172.127	25183.697	21647.205	17042.641 *
47.5	20190.801	20472.848	21109.941	22016.950	23130.713	24586.858	26330.109	28164.364	28222.695	25872.273 *
42.5	16883.098	17076.941	17423.915	17970.825	18810.220	20059.484	21998.488	25048.049	27871.801	28160.722 *
37.5	17153.422	17382.776	17176.849	16709.923	16730.752	17248.400	18655.783	21450.421	25523.636	28155.523 *
33.0	14467.495	14629.595	14956.460	15864.717	17498.950	16876.622	17089.940	18991.191	22842.353	27125.171 *
29.0	14011.631	14099.195	14249.166	14475.298	14903.770	16819.111	16920.174	17591.505	20780.140	25656.294 *
25.5	13912.923	13929.192	13989.378	14143.744	14426.806	15095.137	17744.968	17012.963	19424.132	24130.265 *

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CANDELA TABULATION - (Cont.)

22.5	13948.178	3939.747	3937.556	4003.726	4210.056	4612.211	6625.657	6964.622	8519.121	2794.781 *
19.5	14044.746	3987.275	3963.281	3956.143	4068.125	4427.537	5322.210	7603.294	7858.170	1649.037 *
17.0	14171.534	4096.092	3994.797	3962.385	3998.924	4289.594	4936.541	8019.929	7465.352	0863.681 *
15.0	14289.637	4178.443	4056.010	3976.035	3976.448	4206.677	4763.878	7935.790	7235.384	0356.813 *
13.0	14368.780	4263.830	4122.756	3997.814	3968.189	4135.116	4669.351	7358.293	7122.748	9943.715 *
11.0	14436.663	4332.758	4191.240	4028.094	3976.026	4092.872	4581.526	6615.625	7107.478	9585.042 *
9.0	14486.501	4386.870	4253.265	4076.995	4004.980	4070.918	4524.658	6052.458	7156.898	9304.706 *
7.0	14534.323	4429.722	4315.929	4139.210	4035.320	4067.180	4485.034	5693.655	7248.844	9091.457 *
5.0	14596.637	4489.455	4368.260	4198.904	4066.217	4073.899	4457.708	5570.480	7381.590	8938.214 *
3.0	14652.325	4543.175	4413.052	4248.353	4097.135	4087.219	4451.228	5471.266	7528.566	8779.350 *
1.0	14696.817	4586.073	4449.905	4288.193	4125.452	4104.464	4457.237	5423.703	7579.578	8769.799 *
0.0	14711.281	4600.428	4462.977	4301.695	4137.337	4115.505	4468.051	5433.131	7605.137	8765.016 *
-1.0	14714.337	4603.107	4467.392	4302.964	4142.334	4124.649	4483.315	5506.814	7588.697	8799.737 *
-3.0	14704.722	4594.261	4465.157	4292.833	4148.510	4148.840	4531.186	5725.872	7555.884	8869.068 *
-5.0	14682.649	4575.690	4453.935	4273.360	4153.877	4179.643	4595.957	6010.123	7439.318	9091.093 *
-7.0	14652.037	4552.478	4432.024	4241.942	4160.465	4221.938	4684.987	6333.944	7345.737	9309.695 *
-9.0	14639.211	4539.972	4391.159	4216.911	4165.997	4281.937	4784.349	6880.532	7299.008	9593.279 *
-11.0	14613.495	4510.402	4352.215	4204.091	4182.222	4368.250	4903.985	7553.172	7299.966	9950.741 *
-13.0	14577.345	4460.333	4304.984	4205.637	4208.176	4466.269	5107.373	8228.782	7360.447	0396.885 *
-15.0	14515.418	4394.191	4264.220	4206.296	4250.361	4562.595	5385.940	8581.316	7535.327	0904.622 *
-17.0	14415.776	4323.963	4236.303	4212.814	4309.488	4690.234	5874.922	8384.861	7866.873	1508.876 *
-19.5	14309.766	4257.788	4233.282	4250.351	4421.691	4869.869	6710.442	7731.496	8390.211	2417.615 *
-22.5	14265.617	4248.805	4255.679	4352.805	4622.465	5194.493	8069.273	7272.066	9214.822	3737.384 *
-25.5	14296.016	4318.776	4402.417	4567.424	4918.885	6241.253	8338.175	7468.882	0252.234	5215.690 *
-29.0	14554.041	4654.853	4815.448	5085.089	5887.001	8313.931	7327.277	8247.787	2 1799.648	26789.504 *
-33.0	15375.417	5695.465	6540.152	7790.729	8354.636	7365.782	7704.993	9885.500	2 4037.347	28198.240 *
-37.5	18566.363	8266.256	7853.121	7376.270	7448.308	8045.890	9600.068	2 2639.631	26771.452	29141.636 *
-42.5	17915.491	8216.196	8585.690	9162.549	20084.523	2 1428.097	2 3387.334	26400.623	29063.769	28912.939 *
-47.5	21807.936	2 2447.401	2 3041.539	2 3960.526	2 4982.736	26262.105	27843.032	29456.484	29137.233	26454.368 *
-55.0	28637.700	28769.105	28919.004	29111.338	29204.062	29055.273	28282.242	26120.332	22117.627	17104.921 *
-65.0	20937.246	20141.664	19054.972	17449.826	15983.712	13594.238	10787.790	7434.358 *	4016.768 *	1483.434
-75.0	1065.012	1019.619	964.595	904.797	874.806	840.640	782.353	717.390	646.680	562.734
-85.0	174.084	164.147	151.641	136.890	138.697	140.336	141.739	144.022	142.125	131.334
-90.0	2.623	1.964	1.140	0.151	0.996	1.982	3.107	4.373	5.779	5.760

Vert. Angles	**Horizontal Angles**				
	55.0	**65.0**	**75.0**	**85.0**	**90.0**
90.0	3.829	0.891	2.567	5.777	7.380
85.0	93.232	41.636	14.375	7.285	7.383
75.0	396.163	213.677	140.990	28.513	7.390
65.0	854.622	535.872	255.265	83.339	7.396
55.0	7455.012 *	881.082	442.278	128.414	7.401
47.5	17956.613	1847.165	611.860	154.277	7.405
42.5	23031.526	5280.064 *	722.864	169.290	7.407
37.5	26288.377	10265.352	8719.217	184.680	7.409
33.0	27653.412	14040.689	8997.534	193.982	7.411
29.0	28163.882	16887.612	9254.287	202.756	7.412
25.5	28291.162	19142.769	11002.685	209.810	7.413
22.5	28225.425	20484.595	11038.316	215.843	7.414
19.5	28018.806	21606.421	11077.458	221.316	7.415
17.0	27817.047	22355.532	11113.531	225.434	7.415
15.0	27631.235	22895.218	11143.310	228.429	7.416
13.0	27425.524	23334.528	11170.549	231.152	7.416
11.0	27246.100	23709.201	11198.669	238.168	7.416
9.0	27079.064	23997.543	11223.302	238.830	7.416

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	26911.020	24235.964	1244.414	239.497	7.417
5.0	26781.004	24426.558	1273.218	240.166	7.417
3.0	26647.121	24617.428	1280.024	240.838	7.417
1.0	26629.479	24678.313	1286.845	241.847	7.417
0.0	26620.647	24708.783	1290.258	241.847	7.417
-1.0	26663.116	24681.614	1287.047	241.522	7.417
-3.0	26747.953	24627.325	1280.628	240.872	7.417
-5.0	26944.654	24442.155	1274.224	240.223	7.416
-7.0	27134.054	24256.583	1246.212	239.576	7.416
-9.0	27355.499	24021.984	1225.937	238.932	7.416
-11.0	27575.520	23735.936	1202.380	238.292	7.416
-13.0	27804.083	23357.139	1175.625	231.284	7.415
-15.0	28055.959	22909.017	1149.924	228.576	7.415
-17.0	28281.648	22358.059	1121.707	225.593	7.414
-19.5	28523.909	21591.851	1087.779	221.487	7.414
-22.5	28746.957	20373.628	1050.387	216.021	7.413
-25.5	28802.764	19032.702	1015.346	209.989	7.412
-29.0	28634.985	16674.497	970.943	202.925	7.411
-33.0	28029.072	13631.098	912.982	194.125	7.409
-37.5	26550.387	9943.087	833.528	184.784	7.407
-42.5	23236.760	4732.715	732.897	169.595	7.405
-47.5	17820.674	1818.155	622.405	154.668	7.403
-55.0	7039.609	925.099	448.571	128.601	7.398
-65.0	904.022	558.465	258.902	83.914	7.393
-75.0	409.567	219.907	141.896	29.051	7.386
-85.0	95.320	46.034	16.038	7.183	7.380
-90.0	3.598	0.719	2.463	5.743	7.377

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Results derived from content of manufacturers photometric file.

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LUMEN TABULATION
Average Of Right And Left Sides
Total Luminaire Lumens (one side of beam only) = 41454.21
Total Field Lumens (one side of beam only) = 41038.57
* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	0	1	3	5	7	9	11	13	15	17
90	0.18	0.35	0.34	0.33	0.32	0.32	0.30	0.29	0.28	0.33
85	2.39	4.69	4.57	4.42	4.25	4.08	3.89	3.70	3.51	4.13
75	37.08 *	73.88 *	73.18 *	72.12 *	70.86 *	69.33 *	67.50 *	65.38 *	62.91 *	74.63 *
65	76.58 *	152.70 *	151.83 *	150.67 *	149.30 *	147.62 *	145.59 *	143.21 *	140.41 *	170.94 *
55	53.88 *	107.27 *	106.82 *	106.53 *	106.20 *	105.92 *	105.70 *	105.54 *	105.37 *	131.91 *
47.5	28.56 *	56.79 *	56.41 *	56.06 *	55.70 *	55.40 *	55.18 *	55.06 *	55.14 *	69.63 *
42.5	26.13 *	51.90 *	51.43 *	50.94 *	50.55 *	50.29 *	50.19 *	50.39 *	50.61 *	62.98 *
37.5	21.49 *	42.70 *	42.34 *	42.01 *	41.75 *	41.61 *	41.63 *	41.99 *	42.40 *	53.06 *
33	17.67 *	35.18 *	34.96 *	34.72 *	34.44 *	34.15 *	33.90 *	33.79 *	33.85 *	42.67 *
29	15.28 *	30.45 *	30.26 *	30.04 *	29.77 *	29.49 *	29.24 *	29.03 *	28.83 *	35.81 *
25.5	13.15 *	26.19 *	26.03 *	25.82 *	25.57 *	25.32 *	25.09 *	24.86 *	24.61 *	30.42 *
22.5	13.27 *	26.44 *	26.27 *	26.04 *	25.78 *	25.52 *	25.26 *	24.97 *	24.67 *	30.41 *
19.5	11.16 *	22.24 *	22.09 *	21.89 *	21.69 *	21.48 *	21.24 *	20.96 *	20.66 *	25.41 *
17	9.00 *	17.92 *	17.79 *	17.64 *	17.48 *	17.32 *	17.12 *	16.89 *	16.63 *	20.41 *
15	9.06 *	18.04 *	17.91 *	17.76 *	17.60 *	17.43 *	17.23 *	17.00 *	16.73 *	20.50 *
13	9.12 *	18.14 *	18.01 *	17.87 *	17.72 *	17.54 *	17.32 *	17.08 *	16.82 *	20.60 *
11	9.17 *	18.25 *	18.10 *	17.96 *	17.82 *	17.63 *	17.41 *	17.16 *	16.89 *	20.69 *
9	9.26 *	18.40 *	18.24 *	18.08 *	17.90 *	17.71 *	17.49 *	17.23 *	16.95 *	20.77 *
7	9.37 *	18.60 *	18.41 *	18.22 *	17.99 *	17.78 *	17.55 *	17.30 *	17.01 *	20.83 *
5	9.45 *	18.75 *	18.57 *	18.35 *	18.08 *	17.83 *	17.60 *	17.35 *	17.06 *	20.89 *
3	9.49 *	18.83 *	18.68 *	18.44 *	18.14 *	17.87 *	17.63 *	17.38 *	17.09 *	20.93 *
1	4.74 *	9.43 *	9.36 *	9.24 *	9.09 *	8.94 *	8.82 *	8.70 *	8.55 *	10.48 *
0	4.74 *	9.43 *	9.35 *	9.24 *	9.09 *	8.95 *	8.82 *	8.70 *	8.56 *	10.48 *
-1	9.50 *	18.83 *	18.67 *	18.43 *	18.15 *	17.88 *	17.64 *	17.40 *	17.11 *	20.96 *

LUMENS TABULATION - (Cont.)

-3	9.46 *	18.76 *	18.58 *	18.35 *	18.08 *	17.85 *	17.63 *	17.38 *	17.09 *	20.94 *
-5	9.38 *	18.61 *	18.42 *	18.23 *	18.01 *	17.81 *	17.60 *	17.34 *	17.06 *	20.91 *
-7	9.28 *	18.42 *	18.25 *	18.10 *	17.93 *	17.76 *	17.54 *	17.29 *	17.02 *	20.86 *
-9	9.18 *	18.27 *	18.13 *	18.00 *	17.86 *	17.69 *	17.48 *	17.23 *	16.97 *	20.80 *
-11	9.12 *	18.17 *	18.05 *	17.92 *	17.77 *	17.60 *	17.40 *	17.17 *	16.91 *	20.72 *
-13	9.06 *	18.06 *	17.95 *	17.81 *	17.67 *	17.51 *	17.31 *	17.09 *	16.83 *	20.63 *
-15	9.00 *	17.94 *	17.83 *	17.70 *	17.56 *	17.41 *	17.22 *	16.99 *	16.74 *	20.55 *
-17	11.16 *	22.25 *	22.13 *	21.98 *	21.80 *	21.60 *	21.36 *	21.10 *	20.81 *	25.63 *
-19.5	13.26 *	26.45 *	26.32 *	26.14 *	25.92 *	25.69 *	25.45 *	25.18 *	24.90 *	30.72 *
-22.5	13.14 *	26.22 *	26.10 *	25.94 *	25.75 *	25.55 *	25.35 *	25.14 *	24.91 *	30.83 *
-25.5	15.28 *	30.49 *	30.38 *	30.24 *	30.06 *	29.88 *	29.69 *	29.53 *	29.38 *	36.59 *
-29	17.64 *	35.24 *	35.16 *	35.07 *	34.97 *	34.88 *	34.86 *	34.97 *	35.23 *	44.89 *
-33	21.14 *	42.42 *	42.74 *	43.13 *	43.69 *	44.29 *	44.71 *	44.85 *	44.69 *	55.77 *
-37.5	25.68 *	51.50 *	51.77 *	52.09 *	52.58 *	53.14 *	53.44 *	53.37 *	52.95 *	65.34 *
-42.5	28.30 *	56.55 *	56.54 *	56.58 *	56.64 *	56.79 *	57.04 *	57.46 *	58.09 *	73.65 *
-47.5	53.91 *	107.85 *	108.10 *	108.52 *	108.89 *	109.28 *	109.70 *	110.19 *	110.67 *	138.89 *
-55	78.43 *	156.60 *	155.99 *	155.07 *	153.89 *	152.33 *	150.35 *	147.94 *	145.03 *	176.45 *
-65	38.59 *	76.79 *	75.93 *	74.71 *	73.27 *	71.55 *	69.50 *	67.13 *	64.40 *	76.18 *
-75	2.47	4.86	4.73	4.57	4.39	4.22	4.02	3.81	3.62	4.25
-85	0.19	0.37	0.36	0.35	0.34	0.33	0.31	0.30	0.28	0.33
-90										
Total	793.41	1581.23	1573.04	1563.28	1552.34	1540.55	1527.33	1512.79	1496.21	1844.8

Vert. Angles	**Horizontal Angles**									
	19.5	**22.5**	**25.5**	**29**	**33**	**37.5**	**42.5**	**47.5**	**55**	**65**
90	0.37	0.34	0.37	0.39	0.39	0.36	0.29	0.31	0.20	0.06
85	4.59	4.27	4.62	4.75	4.63	3.48	2.68	3.68	2.68	1.05
75	82.61 *	73.94 *	73.42 *	65.43 *	50.65 *	30.67 *	13.84	10.83	7.62	3.07
65	197.29 *	187.04 *	201.64 *	203.70 *	189.05 *	157.36 *	108.44 *	87.03 *	33.65	5.64
55	159.20 *	159.98 *	186.44 *	209.53 *	223.30 *	219.98 *	179.08 *	172.19 *	74.71 *	7.11

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LUMENS TABULATION - (Cont.)

47.5	85.24 *	87.62 *	105.86 *	125.90 *	146.28 *	160.66 *	146.20 *	164.63 *	86.55 *	9.72
42.5	74.70 *	74.60 *	88.76 *	105.82 *	126.75 *	148.98 *	147.94 *	185.68 *	116.74 *	19.31 *
37.5	63.54 *	63.68 *	73.58 *	83.92 *	98.75 *	119.14 *	126.44 *	174.06 *	127.36 *	27.04 *
33	52.29 *	53.85 *	63.68 *	71.42 *	80.00 *	94.86 *	104.31 *	154.21 *	126.20 *	30.87 *
29	42.88 *	43.34 *	52.32 *	61.46 *	67.83 *	76.73 *	84.86 *	132.14 *	118.16 *	31.68 *
25.5	36.05 *	35.75 *	42.05 *	50.76 *	57.41 *	62.79 *	68.47 *	110.54 *	105.56 *	30.00 *
22.5	35.87 *	35.28 *	40.81 *	48.05 *	55.86 *	61.71 *	65.34 *	107.97 *	108.19 *	31.97 *
19.5	29.88 *	29.25 *	33.56 *	38.34 *	45.76 *	51.43 *	52.64 *	88.16 *	91.71 *	27.92 *
17	23.94 *	23.37 *	26.69 *	30.15 *	36.43 *	41.07 *	41.18 *	69.51 *	74.14 *	23.03 *
15	24.00 *	23.37 *	26.61 *	29.93 *	36.05 *	40.67 *	40.57 *	68.72 *	74.69 *	23.58 *
13	24.07 *	23.39 *	26.58 *	29.82 *	35.43 *	40.04 *	40.16 *	68.05 *	75.14 *	24.05 *
11	24.16 *	23.44 *	26.60 *	29.77 *	34.83 *	39.47 *	39.87 *	67.50 *	75.48 *	24.43 *
9	24.24 *	23.51 *	26.64 *	29.76 *	34.44 *	39.13 *	39.69 *	67.05 *	75.71 *	24.72 *
7	24.33 *	23.58 *	26.69 *	29.78 *	34.24 *	39.02 *	39.62 *	66.73 *	75.88 *	24.95 *
5	24.40 *	23.64 *	26.74 *	29.80 *	34.17 *	39.04 *	39.61 *	66.48 *	76.03 *	25.15 *
3	24.45 *	23.69 *	26.79 *	29.85 *	34.17 *	39.09 *	39.65 *	66.40 *	76.14 *	25.26 *
1	12.24 *	11.86 *	13.41 *	14.95 *	17.12 *	19.59 *	19.87 *	33.24 *	38.09 *	12.64 *
0	12.24 *	11.87 *	13.42 *	14.96 *	17.15 *	19.62 *	19.88 *	33.26 *	38.10 *	12.64 *
-1	24.48 *	23.72 *	26.84 *	29.92 *	34.40 *	39.31 *	39.73 *	66.56 *	76.23 *	25.26 *
-3	24.46 *	23.71 *	26.84 *	29.95 *	34.65 *	39.49 *	39.77 *	66.80 *	76.22 *	25.16 *
-5	24.42 *	23.69 *	26.85 *	30.01 *	34.99 *	39.73 *	39.89 *	67.22 *	76.15 *	24.96 *
-7	24.37 *	23.66 *	26.86 *	30.09 *	35.47 *	40.12 *	40.06 *	67.71 *	76.06 *	24.73 *
-9	24.31 *	23.63 *	26.89 *	30.20 *	36.06 *	40.67 *	40.36 *	68.32 *	75.91 *	24.44 *
-11	24.24 *	23.62 *	26.94 *	30.38 *	36.71 *	41.24 *	40.78 *	69.05 *	75.63 *	24.06 *
-13	24.19 *	23.63 *	27.02 *	30.67 *	37.27 *	41.71 *	41.35 *	69.89 *	75.23 *	23.58 *
-15	24.16 *	23.65 *	27.14 *	31.19 *	37.67 *	41.93 *	42.14 *	70.87 *	74.72 *	23.02 *
-17	30.19 *	29.65 *	34.20 *	40.26 *	47.62 *	52.35 *	54.12 *	90.12 *	92.46 *	27.87 *
-19.5	36.31 *	35.85 *	41.82 *	50.77 *	58.33 *	63.04 *	67.55 *	110.67 *	109.04 *	31.83 *

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LUMENS TABULATION - (Cont.)

-22.5	36.63 *	36.56 *	43.88 *	53.36 *	59.26 *	64.60 *	71.11 *	113.59 *	106.31 *	29.76 *
-25.5	44.02 *	45.15 *	55.44 *	64.04 *	69.43 *	79.41 *	88.32 *	135.90 *	118.94 *	31.32 *
-29	55.53 *	56.87 *	66.40 *	73.55 *	82.37 *	98.68 *	108.50 *	158.32 *	126.66 *	30.24 *
-33	67.02 *	66.36 *	75.65 *	86.50 *	102.52 *	124.16 *	131.11 *	178.07 *	127.01 *	25.98 *
-37.5	77.38 *	77.47 *	92.45 *	110.41 *	132.23 *	154.89 *	152.57 *	188.95 *	115.52 *	18.00 *
-42.5	90.11 *	92.50 *	111.44 *	131.92 *	152.33 *	165.98 *	149.67 *	166.01 *	85.14 *	9.03
-47.5	167.34 *	167.65 *	194.42 *	217.18 *	230.06 *	224.73 *	180.88 *	170.26 *	72.21 *	7.10
-55	203.00 *	191.50 *	205.42 *	205.97 *	189.64 *	156.68 *	107.03 *	84.07 *	31.82	5.78
-65	83.76 *	74.26 *	73.07 *	64.05 *	48.33 *	29.19 *	13.48	10.73	7.82	3.10
-75	4.73	4.39	4.74	4.86	4.71	4.30	3.43	3.74	2.73	1.06
-85	0.37	0.34	0.37	0.39	0.39	0.36	0.29	0.32	0.21	0.06
-90										
Total	2173.61	2128.55	2421.97	2683.89	2925.14	3087.44	2912.79	3955.5	3280.74	862.22

Vert. Angles	**Horizontal Angles**		
	75	**85**	**90**	**Total**
90	0.01	0.00	6.11
85	0.21	0.00	76.27
75	0.60	0.01	1079.56
65	1.10	0.02	2800.82
55	1.24	0.03	2627.89
47.5	1.04	0.02	1663.66
42.5	1.20	0.02	1585.92
37.5	1.22	0.02	1369.71
33	1.17	0.02	1168.22
29	1.09	0.02	1000.71
25.5	0.98	0.02	847.43
22.5	1.02	0.02	840.74
19.5	0.88	0.02	698.37
17	0.72	0.01	558.46

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LUMENS TABULATION - (Cont.)

15	0.73	0.01	558.20
13	0.75	0.01	557.71
11	0.76	0.01	557.42
9	0.77	0.01	557.71
7	0.79	0.01	558.67
5	0.79	0.01	559.79
3	0.80	0.01	560.80
1	0.40	0.01	280.76
0	0.40	0.01	280.88
-1	0.80	0.01	561.84
-3	0.80	0.01	561.97
-5	0.79	0.01	562.07
-7	0.78	0.01	562.36
-9	0.77	0.01	563.18
-11	0.75	0.01	564.23
-13	0.74	0.01	565.22
-15	0.72	0.01	566.15
-17	0.88	0.02	709.56
-19.5	1.03	0.02	856.28
-22.5	0.99	0.02	865.00
-25.5	1.10	0.02	1024.61
-29	1.19	0.02	1201.26
-33	1.23	0.02	1413.05
-37.5	1.22	0.02	1632.97
-42.5	1.05	0.02	1712.86
-47.5	1.24	0.03	2699.09
-55	1.11	0.02	2854.11
-65	0.60	0.01	1096.44

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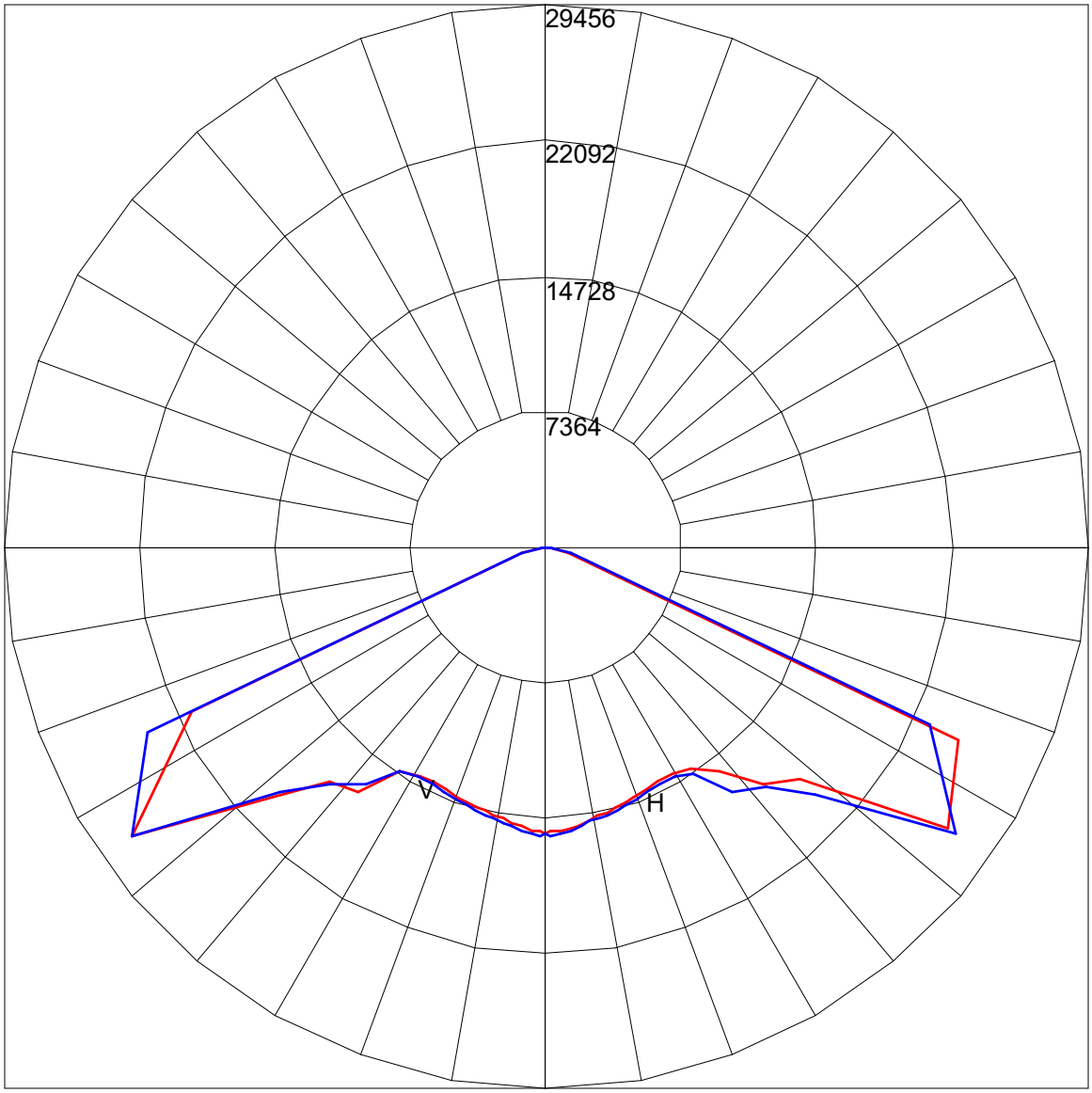
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LUMENS TABULATION - (Cont.)

-75			
	0.21	0.00	79.86
-85			
	0.01	0.00	6.27
-90			
Total	36.67	0.71	41454.21

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AXIAL CANDELA DISPLAY

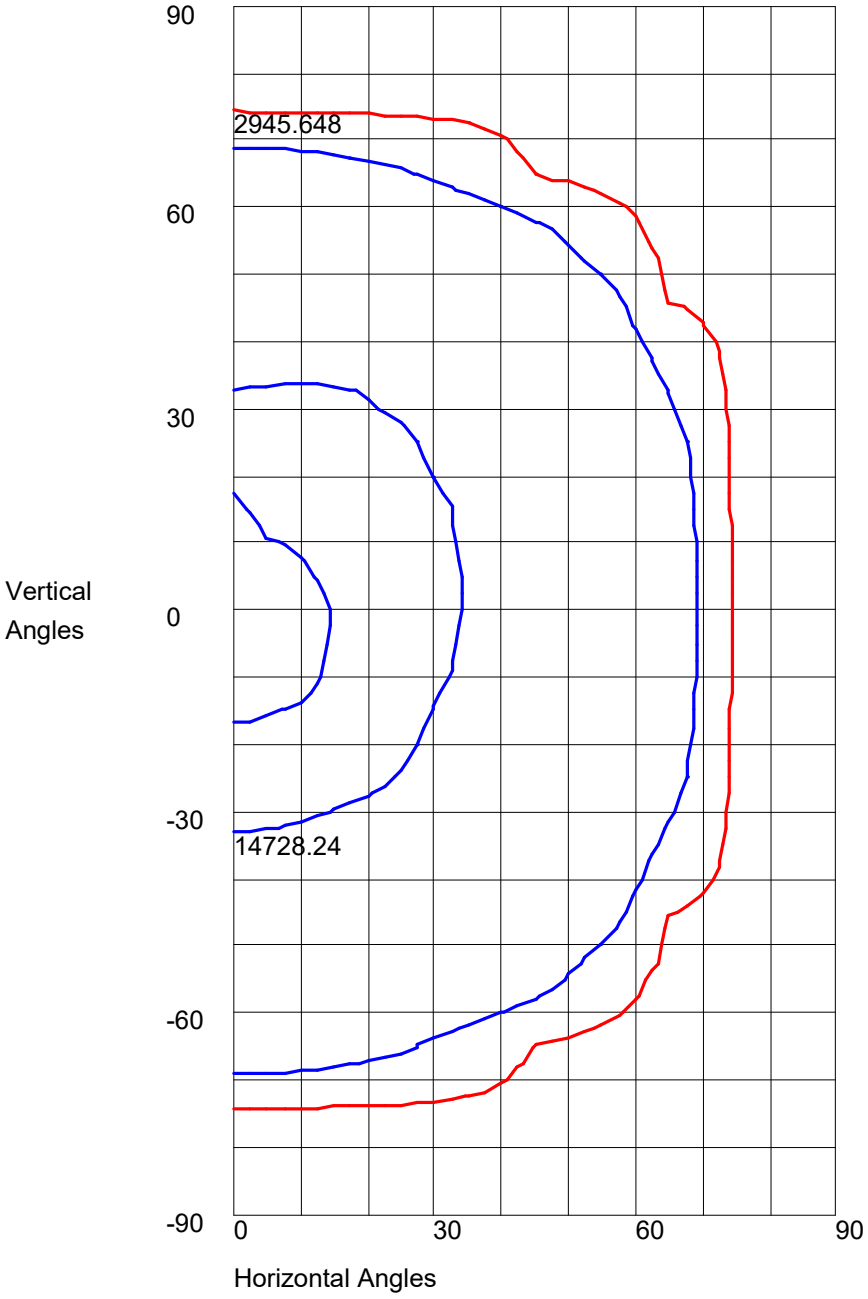


Maximum Candela = 29456.484 Located At Horizontal Angle = 37.5, Vertical Angle =-47.5
H - Horizontal Axial Candela
V - Vertical Axial Candela

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ISOCANDELA CURVES



Maximum Candela = 29456.484 Located At Horizontal Angle = 37.5, Vertical Angle =-47.5
50% Maximum Candela = 14728.242
10% Maximum Candela = 2945.6484