IES FLOOD REPORT
PHOTOMETRIC FILENAME : EPL-HB-300LED-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-300LED-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	37271.519
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	41622.5 (1 lamp)
Total Lamp Lumens	41622.5
Beam Lumens	19978
Beam Efficiency	48 %
Field Lumens	39790
Field Efficiency	96 %
Spill Lumens	1884
Luminaire Lumens	41674
Total Efficiency	100 %
Total Luminaire Watts	298.96
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.411	90	0
85	1.505	85	4.856
75	109.087	75	135.487
65	284.446	65	302.092
55	2001.248	55	3348.795
47.5	7127.303	47.5	8654.245
42.5	10098.363	42.5	10985.421
37.5	11708.266	37.5	12475.089
33	13300.866	33	14523.185
29	15903.083	29	17652.576
25.5	18970.44	25.5	20979.074
22.5	21916.127	22.5	24039.73
19.5	24974.594	19.5	27113.858
17	27510.401	17	29577.921
15	29403.177	15	31358.807
13	31172.094	13	32958.177
11	32708.816	11	34293.208
9	34037.897	9	35388.591
7	35117.618	7	36225.653
5	35981.49	5	36839.412
3	36563.925	3	37262.08
1	36917.106	1	37271.519
0	37005.401	0	37005.401
-1	37054.508	-1	37250.112
-3	36944.737	-3	37035.426
-5	36680.398	-5	36606.191
-7	36237.622	-7	36033.742
-9	35626.872	-9	35225.268
-11	34827.084	-11	34237.879
-13	33819.108	-13	33000.102
-15	32554.248	-15	31357.986
-17	31085.508	-17	29846.706
-19.5	28898.437	-19.5	27518.54
-22.5	25982.638	-22.5	24465.408
-25.5	22958.505	-25.5	21338.275
-29	19417.799	-29	17975.117
-33	15865.809	-33	14831.638
-37.5	13060.464	-37.5	12594.503
-42.5	11414.792	-42.5	10955.601
-47.5	9590.545	-47.5	8519.101
-55	4654.964	-55	3312.478
-65	351.882	-65	321.31
-75	175.36	-75	149.781
-85	24.074	-85	8.481
-90	.001	-90	.683

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CANDELA TABULATION
Maximum Candela = 37271.519
Beam Edge = 18635.7595 Cd (50% of Max.)
Field Edge = 3727.1519 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	0.000	0.243	0.732	0.978	0.490	0.123	0.061	0.185	0.295	0.394
85.0	0.001	0.447	1.896	4.957	5.078	5.247	6.111	8.112	9.732	11.399
75.0	0.001	0.914	15.658	42.990	63.741	78.795	87.862	105.703	120.655	132.004
65.0	0.001	3.252	41.488	107.207	161.425	199.233	223.029	247.951	265.390	280.580
55.0	0.001	6.490	74.175	174.472	259.000	307.059	349.362	438.710	811.499	1357.386
47.5	0.001	9.944	97.883	224.300	322.882	575.146	1395.299	2722.219	4030.538	*5282.091 *
42.5	0.001	12.120	112.558	250.761	388.107	1570.963	3271.117	5076.315	*6680.456	*8075.484 *
37.5	0.001	14.337	126.872	265.554	677.954	3181.490	5333.639	*7475.211	*9068.676	*10185.718 *
33.0	0.001	16.190	139.013	284.986	1244.630	4641.928	*7137.892	*9256.761	*10534.907	*11218.715 *
29.0	0.001	17.934	147.511	297.990	1876.521	5958.757	*8535.387	*10390.040	*11317.578	*12059.937 *
25.5	0.001	19.296	153.874	310.388	2451.691	6935.968	*9507.286	*11013.380	*11927.717	*12831.893 *
22.5	0.001	20.417	159.142	318.763	2808.586	7627.409	*10160.852	*11434.535	*12470.583	*13752.366 *
19.5	0.001	21.390	163.599	327.890	3366.443	8207.442	*10528.923	*11862.897	*13076.532	*14800.552 *
17.0	0.001	22.087	166.658	333.453	3718.030	8600.773	*10779.510	*12109.566	*13636.301	*15845.378 *
15.0	0.001	22.571	169.109	337.984	3971.914	*8869.809	*10960.496	*12312.829	*14122.737	*16675.755 *
13.0	0.001	22.987	170.798	342.460	4154.374	*9080.385	*11101.619	*12486.673	*14519.345	*17518.933 *
11.0	0.001	24.333	172.551	346.086	4308.424	*9254.289	*11186.082	*12649.895	*14982.056	*18046.418 *
9.0	0.001	24.286	173.916	349.605	4444.896	*9402.222	*11270.891	*12798.151	*15295.699	*18547.142 *
7.0	0.001	24.239	174.897	351.966	4550.072	*9506.174	*11335.791	*12926.443	*15520.706	*18941.597 *
5.0	0.001	24.192	176.645	353.222	4621.894	*9568.227	*11386.583	*12998.831	*15720.653	*19236.334 *
3.0	0.001	24.145	176.132	354.474	4697.802	*9635.387	*11440.706	*13054.063	*15843.428	*19395.841 *
1.0	0.001	24.098	175.617	352.747	4669.255	*9605.509	*11423.442	*13073.478	*15891.606	*19453.945 *
0.0	0.001	24.074	175.360	351.882	4654.964	*9590.545	*11414.792	*13060.464	*15865.809	*19417.799 *
-1.0	0.001	24.074	175.612	353.119	4667.791	*9599.334	*11422.321	*13077.023	*15905.143	*19470.280 *
-3.0	0.001	24.190	176.117	355.592	4693.413	*9616.885	*11437.348	*13064.915	*15881.839	*19440.903 *
-5.0	0.001	24.267	176.621	354.784	4614.982	*9536.005	*11380.311	*13017.554	*15778.196	*19299.884 *
-7.0	0.001	24.343	174.908	353.752	4540.943	*9459.274	*11326.127	*12953.683	*15599.621	*19038.967 *
-9.0	0.001	24.420	173.969	351.215	4434.088	*9344.555	*11255.295	*12825.408	*15412.537	*18688.350 *
-11.0	0.001	24.496	172.673	347.016	4290.116	*9194.335	*11159.154	*12672.814	*15117.335	*18217.558 *
-13.0	0.001	23.192	171.024	343.000	4125.887	*9013.380	*11055.417	*12503.374	*14662.935	*17721.970 *
-15.0	0.001	22.810	169.459	337.929	3954.003	*8785.666	*10909.725	*12310.096	*14246.978	*16866.849 *
-17.0	0.001	22.364	167.099	332.953	3706.380	8510.158	*10701.647	*12114.296	*13753.479	*16019.089 *
-19.5	0.001	21.715	164.168	327.029	3347.035	8122.304	*10418.875	*11838.602	*13125.883	*14967.639 *
-22.5	0.001	20.805	159.772	317.257	2810.775	7534.113	*10013.452	*11388.388	*12475.851	*13839.153 *
-25.5	0.001	19.753	154.438	309.767	2435.617	6847.957	*9341.620	*10894.934	*11897.951	*12848.049 *
-29.0	0.001	18.388	147.916	297.766	1872.272	5868.545	*8371.609	*10208.030	*11225.465	*12015.803 *
-33.0	0.001	16.602	138.832	285.212	1269.386	4590.527	*6982.573	*9026.845	*10305.426	*11091.127 *
-37.5	0.001	14.680	127.544	267.951	720.225	3117.805	5206.069	*7255.448	*8789.386	*9916.938 *
-42.5	0.001	12.448	114.303	249.789	404.598	1577.789	3206.956	4913.090	*6452.886	*7776.996 *
-47.5	0.001	10.252	100.344	223.332	321.767	629.853	1409.126	2618.314	3907.875	*5065.167 *
-55.0	0.001	6.776	76.478	176.915	259.760	308.705	354.332	502.210	887.989	1376.201
-65.0	0.001	3.483	44.964	111.860	164.533	202.427	223.998	249.181	265.570	283.500
-75.0	0.000	1.039	17.177	48.506	69.152	84.483	95.065	113.441	126.924	137.685
-85.0	0.000	0.477	2.282	6.000	6.581	7.537	8.804	10.831	12.334	13.895
-90.0	0.000	0.335	1.005	1.341	0.671	0.168	0.069	0.207	0.331	0.441

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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	0.481	0.555	0.481	0.419	0.370	0.321	0.271	0.222	0.173	0.123
85.0	12.832	13.984	13.313	12.574	11.892	11.137	10.897	9.799	8.701	7.602
75.0	142.453	149.436	150.803	150.225	149.890	148.779	147.730	146.316	144.537	143.494
65.0	293.256	302.833	310.247	313.489	315.535	316.800	316.840	315.812	313.995	311.436
55.0	1920.255	2381.235	2789.621	3063.618	3285.306	3408.880	3479.015	3533.294	3555.143	3539.578
47.5	6277.590	*7015.836	*7688.936	*8177.180	*8365.023	*8524.857	*8652.189	*8725.969	*8769.600	*8783.019 *
42.5	9051.802	*9770.700	*10237.761	10565.099	10785.136	10868.593	10920.917	10983.400	1024.443	1039.294 *
37.5	10828.898	1231.824	1621.308	1872.191	2080.111	2237.805	2356.004	2439.105	2520.347	2537.653 *
33.0	11782.743	2271.194	2778.980	3233.786	3597.811	3975.356	4283.244	4467.516	4579.115	4654.576 *
29.0	12700.774	3497.269	4344.986	5196.392	5897.238	6582.928	7148.477	7486.405	7720.007	7830.813 *
25.5	13836.003	4978.113	6382.918	7588.678	8516.877	9398.257	20179.494	20762.239	1055.331	1227.569 *
22.5	15219.017	6718.282	8382.849	9837.575	20977.793	22001.483	22940.070	23757.499	4111.559	4334.646 *
19.5	16807.414	8671.762	20528.129	22142.827	23428.163	24565.853	25594.580	26520.970	27130.734	27356.993 *
17.0	18183.117	20307.196	22413.584	24018.683	25338.558	26584.611	27719.684	28707.447	29513.490	29800.122 *
15.0	19274.004	21581.986	23836.857	25567.305	26877.660	28079.610	29308.147	30326.381	31177.591	31649.505 *
13.0	20291.615	22797.145	25156.846	26986.102	28304.571	29477.213	30687.687	31758.523	32588.367	33141.298 *
11.0	21227.775	23905.761	26373.849	28297.536	29698.853	30880.033	31896.351	32907.867	33724.587	34357.940 *
9.0	21826.659	24757.600	27491.601	29445.300	30865.231	32051.032	33045.684	33867.135	34620.793	35180.622 *
7.0	22350.402	25304.919	28176.419	30392.904	31827.179	32985.504	33962.847	34728.143	35318.893	35907.770 *
5.0	22692.407	25723.320	28630.392	30822.827	32352.487	33624.845	34679.391	35379.730	35977.134	36395.031 *
3.0	22918.356	25937.962	28875.400	31064.466	32561.641	33843.730	34879.465	35719.033	36364.837	36733.159 *
1.0	23004.545	26033.476	28957.143	31149.365	32621.523	33890.120	34904.390	35715.751	36337.237	36796.442 *
0.0	22958.505	25982.638	28898.437	31085.508	32554.248	33819.108	34827.084	35626.872	36237.622	36680.398 *
-1.0	23017.686	26049.009	28968.567	31139.067	32604.452	33859.989	34856.902	35645.432	36230.909	36655.708 *
-3.0	22962.877	25985.134	28905.505	31038.634	32515.481	33748.733	34750.712	35506.870	36067.322	36351.961 *
-5.0	22781.345	25803.359	28680.992	30806.107	32272.694	33498.639	34466.084	35073.065	35573.906	35848.154 *
-7.0	22450.413	25454.525	28298.615	30393.388	31762.027	32808.964	33699.460	34365.066	34839.823	35359.965 *
-9.0	21986.525	24909.945	27622.513	29510.124	30793.709	31872.690	32757.983	33452.713	34136.993	34644.450 *
-11.0	21407.742	24091.356	26531.652	28390.128	29683.412	30746.686	31628.176	32517.960	33234.166	33799.280 *
-13.0	20475.162	22962.913	25318.301	27116.825	28367.217	29442.659	30506.276	31406.057	32116.611	32629.655 *
-15.0	19431.963	21726.348	23985.269	25707.467	26997.383	28121.577	29237.107	30102.850	30831.297	31285.227 *
-17.0	18370.147	20433.905	22542.364	24150.592	25466.608	26672.114	27745.488	28620.618	29342.634	29695.551 *
-19.5	16998.650	18811.637	20633.636	22251.523	23512.398	24647.851	25668.979	26528.315	27146.152	27488.788 *
-22.5	15375.405	16919.665	18510.953	19929.580	21027.874	22067.537	22979.895	23778.545	24216.759	24507.743 *
-25.5	13936.550	15132.992	16557.122	17714.693	18612.240	19446.517	20228.112	20787.749	21172.273	21387.710 *
-29.0	12691.776	13542.219	14464.368	15332.860	16018.248	16706.672	17225.833	17608.266	17886.178	18063.440 *
-33.0	11704.127	12205.022	12726.815	13196.557	13606.952	14004.751	14390.224	14611.964	14767.181	14883.731 *
-37.5	10578.383	11052.287	11485.906	11737.722	11952.962	12128.424	12279.296	12408.222	12516.079	12570.643 *
-42.5	8725.217	*9420.362	*9906.993	*10227.297	10458.080	10615.171	10709.173	10808.622	10887.678	10940.097 *
-47.5	6001.063	*6723.595	*7355.631	*7811.079	*8040.784	*8215.676	*8365.918	*8483.360	*8557.320	*8591.075 *
-55.0	1871.760	2307.565	2696.059	2951.868	3130.859	3277.556	3328.170	3354.113	3402.846	3421.680
-65.0	298.089	307.464	316.250	319.880	322.444	324.384	325.638	326.498	326.581	325.925
-75.0	145.750	152.231	154.674	155.401	156.045	155.865	155.804	155.443	154.769	154.878
-85.0	15.222	16.332	15.921	15.372	14.826	14.194	14.153	13.122	12.090	11.059
-90.0	0.538	0.621	0.629	0.636	0.642	0.647	0.653	0.658	0.664	0.669

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	0.074	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	6.504	5.405	4.856	4.639	4.206	3.773	3.340	2.906	2.473	1.804
75.0	140.292	137.089	135.487	134.238	131.739	129.242	124.677	120.863	116.746	112.338
65.0	308.852	304.346	302.092	301.015	298.863	295.014	291.314	287.177	282.645	277.933

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CANDELA TABULATION - (Cont.)

55.0	3524.017	3407.226	3348.795	3290.810	3174.908	2966.262	2764.255	2536.455	2283.138	2024.649
47.5	8808.746	*8705.780	*8654.245	*8579.891	*8431.336	*8146.985	*7870.440	*7550.824	*7182.113	*6779.649 *
42.5	11059.754	*11010.223	*10985.421	*10933.604	*10830.121	*10643.930	*10454.687	*10229.868	9963.728	*9685.254 *
37.5	12537.367	*12507.190	*12475.089	*12422.819	*12286.436	*12125.976	*11955.347	*11729.252	*11496.192	*11250.422 *
33.0	14656.959	*14594.031	*14523.185	*14431.694	*14178.496	*13882.530	*13552.421	*13227.138	*12878.597	*12493.131 *
29.0	17846.806	*17761.792	*17652.576	*17501.215	*17069.964	*16551.098	*15971.518	*15341.095	*14667.880	*14227.515 *
25.5	21246.809	*21123.315	*20979.074	*20780.822	*20233.398	*19580.731	*18808.644	*17929.359	*17168.420	*16503.730 *
22.5	24329.404	*24199.117	*24039.730	*23810.232	*23161.284	*22386.769	*21460.857	*20366.865	*19675.877	*18855.699 *
19.5	27397.706	*27284.314	*27113.858	*26840.186	*26073.171	*25168.480	*24101.045	*23170.812	*22343.247	*21343.804 *
17.0	29864.648	*29755.709	*29577.921	*29266.567	*28389.259	*27353.899	*26201.511	*25424.666	*24516.389	*23421.228 *
15.0	31679.517	*31545.785	*31358.807	*31020.646	*30106.506	*29016.472	*28021.826	*27170.928	*26180.833	*24980.211 *
13.0	33202.616	*33120.224	*32958.177	*32601.836	*31621.455	*30473.767	*29710.234	*28830.984	*27732.377	*26427.732 *
11.0	34476.713	*34433.276	*34293.208	*33910.912	*32912.855	*31968.035	*31248.231	*30337.937	*29150.643	*27529.871 *
9.0	35479.705	*35488.123	*35388.591	*34974.689	*33890.856	*33207.428	*32539.069	*31603.816	*30141.014	*28467.160 *
7.0	36210.108	*36288.312	*36225.653	*35753.368	*34655.794	*34325.227	*33616.660	*32356.918	*30885.735	*29164.126 *
5.0	36696.758	*36862.442	*36839.412	*36281.699	*35505.734	*35146.883	*34179.806	*32869.341	*31444.507	*29762.049 *
3.0	37001.951	*37138.395	*37262.080	*36417.425	*36153.834	*35414.044	*34393.636	*33310.230	*32034.827	*30516.675 *
1.0	37072.910	*37266.044	*37271.519	*36713.764	*36305.761	*35801.766	*34976.396	*33902.037	*32578.050	*31048.861 *
0.0	36944.737	*37054.508	*37005.401	*36917.106	*36563.925	*35981.490	*35117.618	*34037.897	*32708.816	*31172.094 *
-1.0	36864.160	*36819.909	*37250.112	*37085.072	*36451.099	*35899.532	*35033.839	*33959.225	*32633.210	*31103.237 *
-3.0	36477.279	*36668.818	*37035.426	*36824.806	*36488.917	*35648.179	*34582.784	*33484.691	*32200.842	*30664.240 *
-5.0	36117.781	*36448.871	*36606.191	*36426.701	*35974.645	*35482.043	*34449.552	*33128.171	*31667.384	*30039.334 *
-7.0	35632.349	*35950.717	*36033.742	*35836.573	*35187.984	*34751.478	*33941.071	*32689.356	*31212.017	*29526.746 *
-9.0	34966.371	*35205.567	*35225.268	*35011.205	*34352.773	*33715.337	*32979.967	*31977.454	*30543.977	*28898.378 *
-11.0	34067.896	*34251.431	*34237.879	*34011.714	*33294.749	*32548.199	*31771.718	*30835.911	*29697.587	*28037.627 *
-13.0	32917.464	*33043.368	*33000.102	*32761.692	*32053.602	*31135.077	*30389.177	*29481.296	*28336.472	*27000.791 *
-15.0	31467.028	*31453.251	*31357.986	*31157.099	*30553.087	*29715.725	*28854.273	*27935.663	*26867.423	*25599.540 *
-17.0	29901.010	*29938.212	*29846.706	*29622.662	*28956.433	*28117.377	*27083.241	*26235.782	*25204.256	*24026.793 *
-19.5	27637.182	*27626.224	*27518.540	*27302.790	*26663.925	*25867.941	*24888.883	*23944.747	*23000.089	*21922.219 *
-22.5	24613.011	*24580.150	*24465.408	*24271.092	*23694.578	*23003.015	*22082.130	*21100.295	*20297.571	*19410.129 *
-25.5	21488.465	*21447.991	*21338.275	*21175.226	*20677.083	*20056.540	*19351.136	*18563.333	*17779.103	*17072.399 *
-29.0	18110.256	*18060.246	*17975.117	*17850.714	*17487.775	*17044.422	*16499.547	*15892.115	*15263.582	*14743.880 *
-33.0	14918.002	*14886.950	*14831.638	*14749.945	*14513.546	*14229.148	*13894.725	*13558.387	*13205.824	*12831.133 *
-37.5	12607.601	*12611.891	*12594.503	*12554.938	*12439.209	*12297.325	*12145.952	*11952.351	*11753.890	*11524.450 *
-42.5	10996.375	*10969.205	*10955.601	*10918.518	*10844.458	*10682.149	*10520.600	*10309.715	*10057.901	*9803.739 *
-47.5	8633.793	*8557.358	*8519.101	*8458.026	*8336.001	*8087.187	*7842.298	*7554.222	*7222.952	*6823.974 *
-55.0	3453.273	3359.428	3312.478	3260.043	3155.237	2927.407	2714.435	2475.097	2274.341	2059.441
-65.0	325.264	322.628	321.310	319.593	316.159	310.975	305.954	300.495	294.645	288.421
-75.0	152.840	150.801	149.781	148.069	144.646	141.223	135.620	130.798	125.647	120.174
-85.0	10.028	8.997	8.481	8.112	7.373	6.635	5.897	5.158	4.420	3.396
-90.0	0.674	0.680	0.683	0.652	0.592	0.531	0.470	0.410	0.349	0.288

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	0.073	0.158	0.255	0.365	0.486	0.486
85.0	1.359	0.942	0.469	0.004	0.161	0.305	0.409	0.459	0.534	0.559
75.0	108.041	102.527	95.716	87.617	82.140	76.254	69.001	60.509	50.504	35.401
65.0	272.784	267.348	260.490	252.339	245.673	233.684	218.166	197.853	172.194	135.755
55.0	1727.312	1443.951	1138.373	867.035	646.888	462.399	359.664	319.794	282.704	245.211
47.5	6339.968	*5848.609	*5373.020	*4715.543	*3999.138	*3054.740	2060.093	1077.778	420.362	306.159
42.5	9296.773	*8905.114	*8432.797	*7785.329	*6935.982	*5859.934	*4472.579	*2666.659	1114.574	387.111
37.5	11035.203	*10834.757	*10574.668	*10065.399	*9430.975	*8483.043	*6907.476	*4809.055	*2430.495	798.827
33.0	12266.459	*12016.099	*11695.646	*11273.796	*10811.988	*10096.838	*8739.176	*6613.316	*3944.875	*1535.153
29.0	13757.890	*13320.347	*12800.049	*12257.904	*11685.880	*11014.413	*9936.976	*8063.991	*5219.607	*2389.051
25.5	15793.075	*15065.006	*14168.191	*13230.311	*12406.002	*11598.265	*10651.121	*9024.040	*6233.177	*3206.434

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CANDELA TABULATION - (Cont.)

22.5	17957.684	17004.020	15783.984	14312.663	13113.520	12123.712	11119.305	9704.377	7036.288	4004.725 *
19.5	20270.867	19111.075	17524.929	15585.424	13926.471	12586.411	11499.305	10254.497	7796.968	4693.205 *
17.0	22221.194	20806.331	18896.762	16671.267	14684.658	13011.210	11773.259	10559.647	8381.524	5231.853 *
15.0	23714.307	22017.610	19914.622	17493.021	15302.273	13339.993	11995.928	10819.525	8808.491	5621.625 *
13.0	24776.941	23074.887	20835.993	18259.195	15872.432	13703.185	12232.222	11026.406	9148.776	5952.283 *
11.0	25816.643	24002.665	21672.699	18911.148	16448.545	14134.920	12498.910	11205.154	9370.321	6246.987 *
9.0	26659.171	24739.759	22364.532	19603.071	17109.516	14593.665	12703.040	11350.917	9593.544	6522.222 *
7.0	27312.466	25399.865	23136.526	20363.522	17730.794	15006.986	12887.285	11482.949	9774.069	6740.801 *
5.0	28094.178	26255.326	23907.035	20991.132	18219.607	15365.401	13059.318	11569.665	9911.428	6904.458 *
3.0	28782.475	26915.783	24475.694	21477.964	18622.683	15650.473	13188.173	11645.450	10054.315	7073.998 *
1.0	29282.605	27397.961	24878.427	21837.502	18907.787	15856.824	13280.178	11697.498	10083.660	7109.515 *
0.0	29403.177	27510.401	24974.594	21916.127	18970.440	15903.083	13300.866	11708.266	10098.363	7127.303 *
-1.0	29337.760	27452.930	24923.187	21867.372	18927.056	15877.111	13289.883	11703.941	10089.856	7112.100 *
-3.0	28949.030	27069.535	24597.487	21565.573	18685.034	15707.959	13215.817	11665.569	10072.876	7081.743 *
-5.0	28349.958	26506.633	24089.299	21131.490	18336.628	15451.294	13101.061	11605.495	9937.307	6917.039 *
-7.0	27692.040	25771.480	23412.861	20556.136	17896.600	15126.776	12943.033	11536.880	9803.535	6757.959 *
-9.0	27075.865	25149.933	22639.448	19843.331	17319.279	14746.152	12780.355	11418.515	9632.934	6543.497 *
-11.0	26314.781	24404.636	22000.686	19177.291	16681.346	14300.996	12585.313	11281.519	9420.279	6271.791 *
-13.0	25302.370	23502.099	21184.848	18537.558	16135.874	13880.642	12329.459	11126.960	9203.699	5978.942 *
-15.0	24270.039	22425.125	20258.745	17805.148	15574.043	13507.037	12106.960	10946.529	8868.708	5637.746 *
-17.0	22695.027	21222.719	19241.888	16986.544	14968.506	13177.531	11900.014	10700.422	8436.238	5248.496 *
-19.5	20763.216	19528.571	17923.909	15933.009	14198.084	12753.778	11644.778	10383.808	7859.302	4723.835 *
-22.5	18462.269	17464.158	16206.970	14671.949	13337.514	12294.644	11292.125	9816.927	7100.530	4013.299 *
-25.5	16335.950	15541.463	14566.421	13503.286	12632.627	11795.748	10844.817	9128.273	6288.763	3231.252
-29.0	14182.644	13679.971	13085.622	12496.415	11916.869	11243.824	10093.978	8141.170	5248.046	2408.544
-33.0	12569.555	12304.422	11957.040	11539.933	11050.968	10284.764	8833.163	6661.058	3944.173	1562.727
-37.5	11310.221	11085.097	10797.037	10259.883	9575.211	8570.581	6949.282	4810.660	2451.511	819.970
-42.5	9431.358	9034.015	8538.598	7890.562	7003.339	5893.238	4470.093	2677.868	1130.389	407.067
-47.5	6397.992	5924.626	5430.150	4754.747	4023.274	3065.645	2093.195	1088.060	436.835	320.185
-55.0	1792.404	1517.378	1204.459	919.816	689.406	486.409	375.014	335.924	292.750	251.745
-65.0	281.807	275.001	266.622	258.507	251.329	239.630	224.494	203.752	176.877	141.393
-75.0	114.808	108.814	101.449	93.276	88.565	82.281	74.872	64.958	53.172	38.261
-85.0	2.634	1.899	1.030	0.100	0.306	0.511	0.673	0.781	0.807	0.635
-90.0	0.228	0.167	0.091	0.000	0.100	0.217	0.350	0.500	0.667	0.667

Vert. Angles	**Horizontal Angles**				
	55.0	**65.0**	**75.0**	**85.0**	**90.0**
90.0	0.304	0.061	0.137	0.319	0.410
85.0	0.510	0.099	0.212	0.373	0.410
75.0	15.833	0.585	0.315	0.496	0.410
65.0	82.489	25.446	1.850	0.516	0.411
55.0	169.300	73.139	13.271	0.492	0.411
47.5	231.583	117.862	29.457	0.758	0.411
42.5	261.824	146.317	40.069	0.808	0.411
37.5	288.569	172.771	52.408	0.710	0.411
33.0	320.715	198.174	64.556	0.883	0.411
29.0	364.846	216.755	73.804	1.049	0.411
25.5	463.681	232.078	80.341	1.179	0.411
22.5	611.863	242.283	85.705	1.233	0.411
19.5	833.268	252.217	90.541	1.283	0.411
17.0	1029.576	258.436	94.131	1.323	0.411
15.0	1197.508	261.823	97.053	1.352	0.411
13.0	1381.573	262.534	99.320	1.379	0.411
11.0	1524.854	263.239	101.651	1.441	0.411
9.0	1658.712	269.012	103.681	1.453	0.411

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CANDELA TABULATION - (Cont.)

7.0	1775.940	274.051	105.409	1.464	0.411
5.0	1870.125	278.256	107.769	1.476	0.411
3.0	1968.343	282.806	108.296	1.487	0.411
1.0	1990.271	283.899	108.823	1.505	0.411
0.0	2001.248	284.446	109.087	1.505	0.411
-1.0	1991.224	284.076	108.856	1.499	0.411
-3.0	1971.201	283.337	108.393	1.487	0.411
-5.0	1874.699	279.130	107.932	1.476	0.411
-7.0	1782.087	275.260	105.662	1.464	0.411
-9.0	1666.177	270.539	104.028	1.453	0.411
-11.0	1533.522	265.065	102.107	1.441	0.411
-13.0	1391.232	264.669	99.904	1.379	0.411
-15.0	1208.948	264.258	97.777	1.352	0.411
-17.0	1043.285	261.120	94.897	1.323	0.411
-19.5	849.055	255.148	91.343	1.283	0.411
-22.5	624.539	245.267	86.435	1.233	0.411
-25.5	479.079	235.356	80.850	1.179	0.411
-29.0	384.926	219.454	74.441	1.049	0.411
-33.0	336.811	200.808	65.521	0.883	0.411
-37.5	299.727	175.454	53.140	0.710	0.411
-42.5	270.609	149.591	40.568	0.808	0.411
-47.5	238.147	120.130	30.181	0.758	0.411
-55.0	173.556	76.293	13.985	0.492	0.411
-65.0	85.782	26.581	1.966	0.516	0.410
-75.0	17.505	0.877	0.315	0.496	0.410
-85.0	0.370	0.094	0.212	0.373	0.410
-90.0	0.417	0.083	0.137	0.319	0.410

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LUMEN TABULATION
Average Of Right And Left Sides
Total Luminaire Lumens (one side of beam only) = 20837.03
Total Field Lumens (one side of beam only) = 19894.81
* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	0	1	3	5	7	9	11	13	15	17
90	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
85	0.21	0.43	0.43	0.43	0.42	0.42	0.41	0.40	0.39	0.48
75	0.67	1.34	1.34	1.33	1.32	1.30	1.28	1.26	1.23	1.49
65	5.56	11.12	10.95	10.63	10.25	9.77	9.23	8.59	7.82	8.67
55	13.70 *	27.35 *	26.99 *	26.35 *	25.62 *	24.72 *	23.65 *	22.42 *	21.00 *	24.08
47.5	14.95 *	29.82 *	29.53 *	29.06 *	28.51 *	27.83 *	27.03 *	26.10 *	24.99 *	29.48 *
42.5	17.86 *	35.61 *	35.35 *	34.95 *	34.44 *	33.79 *	33.06 *	32.23 *	31.25 *	37.53 *
37.5	18.50 *	36.85 *	36.53 *	36.06 *	35.45 *	34.72 *	33.84 *	32.90 *	31.93 *	38.49 *
33	19.59 *	38.98 *	38.49 *	37.79 *	36.90 *	35.85 *	34.64 *	33.34 *	32.00 *	38.11 *
29	20.58 *	40.90 *	40.30 *	39.43 *	38.29 *	36.93 *	35.42 *	33.79 *	32.06 *	37.61 *
25.5	20.56 *	40.84 *	40.22 *	39.30 *	38.06 *	36.62 *	35.02 *	33.25 *	31.35 *	36.40 *
22.5	23.35 *	46.37 *	45.63 *	44.54 *	43.12 *	41.48 *	39.62 *	37.55 *	35.30 *	40.76 *
19.5	21.56 *	42.78 *	42.05 *	41.01 *	39.74 *	38.25 *	36.51 *	34.58 *	32.45 *	37.39 *
17	18.54 *	36.78 *	36.14 *	35.25 *	34.17 *	32.90 *	31.40 *	29.74 *	27.90 *	32.09 *
15	19.56 *	38.80 *	38.12 *	37.23 *	36.13 *	34.80 *	33.20 *	31.42 *	29.47 *	33.88 *
13	20.45 *	40.53 *	39.83 *	38.96 *	37.87 *	36.49 *	34.83 *	32.94 *	30.88 *	35.51 *
11	21.18 *	41.94 *	41.25 *	40.42 *	39.34 *	37.94 *	36.22 *	34.28 *	32.14 *	36.95 *
9	21.76 *	43.04 *	42.37 *	41.61 *	40.52 *	39.09 *	37.35 *	35.37 *	33.18 *	38.17 *
7	22.18 *	43.87 *	43.28 *	42.54 *	41.39 *	39.94 *	38.21 *	36.22 *	34.03 *	39.18 *
5	22.46 *	44.45 *	43.91 *	43.11 *	41.96 *	40.54 *	38.85 *	36.88 *	34.67 *	39.95 *
3	22.59 *	44.76 *	44.25 *	43.44 *	42.34 *	40.95 *	39.28 *	37.32 *	35.10 *	40.45 *
1	11.29 *	22.44 *	22.19 *	21.81 *	21.26 *	20.57 *	19.74 *	18.75 *	17.64 *	20.33 *
0	11.29 *	22.43 *	22.18 *	21.80 *	21.26 *	20.57 *	19.74 *	18.76 *	17.65 *	20.34 *
-1	22.54 *	44.70 *	44.19 *	43.39 *	42.31 *	40.95 *	39.30 *	37.36 *	35.15 *	40.52 *

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LUMENS TABULATION - (Cont.)

-3	22.36 *	44.36 *	43.81 *	43.02 *	41.91 *	40.54 *	38.89 *	36.95 *	34.77 *	40.08 *
-5	22.08 *	43.77 *	43.20 *	42.45 *	41.33 *	39.94 *	38.27 *	36.35 *	34.19 *	39.41 *
-7	21.67 *	42.94 *	42.33 *	41.56 *	40.48 *	39.10 *	37.44 *	35.53 *	33.40 *	38.47 *
-9	21.12 *	41.88 *	41.23 *	40.42 *	39.35 *	38.01 *	36.38 *	34.49 *	32.40 *	37.29 *
-11	20.45 *	40.55 *	39.87 *	39.02 *	37.97 *	36.66 *	35.07 *	33.23 *	31.20 *	35.88 *
-13	19.58 *	38.87 *	38.25 *	37.41 *	36.37 *	35.08 *	33.54 *	31.79 *	29.82 *	34.26 *
-15	18.62 *	36.99 *	36.42 *	35.58 *	34.54 *	33.29 *	31.80 *	30.12 *	28.25 *	32.46 *
-17	21.82 *	43.31 *	42.60 *	41.58 *	40.30 *	38.80 *	37.04 *	35.04 *	32.87 *	37.85 *
-19.5	23.73 *	47.12 *	46.37 *	45.26 *	43.82 *	42.14 *	40.22 *	38.09 *	35.78 *	41.34 *
-22.5	20.91 *	41.54 *	40.89 *	39.94 *	38.70 *	37.24 *	35.59 *	33.79 *	31.86 *	37.02 *
-25.5	20.94 *	41.63 *	41.03 *	40.15 *	39.00 *	37.63 *	36.10 *	34.43 *	32.64 *	38.27 *
-29	19.98 *	39.75 *	39.27 *	38.55 *	37.62 *	36.52 *	35.27 *	33.89 *	32.47 *	38.60 *
-33	18.79 *	37.43 *	37.08 *	36.57 *	35.92 *	35.15 *	34.23 *	33.23 *	32.20 *	38.76 *
-37.5	17.92 *	35.75 *	35.47 *	35.05 *	34.52 *	33.85 *	33.10 *	32.22 *	31.20 *	37.43 *
-42.5	14.82 *	29.57 *	29.29 *	28.82 *	28.26 *	27.56 *	26.75 *	25.78 *	24.64 *	29.03 *
-47.5	13.51 *	26.95 *	26.55 *	25.87 *	25.10 *	24.22 *	23.22 *	22.02 *	20.62 *	23.66
-55	5.53	11.04	10.81	10.40	9.96	9.51	9.07	8.48	7.75	8.63
-65	0.72	1.43	1.42	1.41	1.38	1.36	1.33	1.30	1.27	1.54
-75	0.24	0.48	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.50
-85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
-90										
Total	715.74	1421.54	1401.92	1373.97	1337.68	1293.49	1241.62	1182.63	1117.38	1298.34

Vert. Angles	**Horizontal Angles**									
	19.5	**22.5**	**25.5**	**29**	**33**	**37.5**	**42.5**	**47.5**	**55**	**65**
90	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
85	0.55	0.51	0.54	0.55	0.52	0.47	0.36	0.37	0.25	0.09
75	1.72	1.62	1.76	1.82	1.80	1.67	1.32	1.38	0.95	0.31
65	8.85	7.21	6.44	5.21	4.00	3.25	2.58	2.79	2.00	0.66
55	25.57	21.77	20.43	17.05	12.40	7.66	3.92	3.24	2.24	0.78

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LUMENS TABULATION - (Cont.)

47.5	32.53 *	28.98 *	28.75 *	25.79 *	20.14	12.94	6.08	3.61	1.85	0.66
42.5	42.50 *	39.18 *	40.78 *	38.98 *	32.98 *	23.46	12.17	6.75	2.33	0.76
37.5	43.91 *	41.18 *	44.16 *	44.19 *	39.91 *	30.84 *	17.57	10.20	2.95	0.76
33	43.05 *	40.19 *	43.30 *	44.34 *	41.89 *	34.50 *	21.19	13.10	3.65	0.74
29	41.67 *	38.20 *	40.69 *	41.73 *	40.31 *	34.69 *	22.60 *	14.78	4.14	0.69
25.5	39.65 *	35.63 *	37.27 *	37.78 *	36.66 *	32.42 *	22.09 *	15.06	4.24	0.62
22.5	43.99 *	38.93 *	39.92 *	39.72 *	38.37 *	34.46 *	24.25 *	17.23	5.00	0.64
19.5	40.15 *	35.17 *	35.49 *	34.66 *	33.14 *	29.99 *	21.61 *	15.93	4.81	0.55
17	34.36 *	29.95 *	29.93 *	28.82 *	27.23 *	24.71 *	18.10 *	13.66	4.22	0.45
15	36.23 *	31.49 *	31.27 *	29.79 *	27.84 *	25.27 *	18.72 *	14.37	4.53	0.45
13	37.94 *	32.91 *	32.52 *	30.71 *	28.43 *	25.71 *	19.20 *	14.97 *	4.79	0.46
11	39.47 *	34.18 *	33.63 *	31.54 *	28.95 *	26.08 *	19.61 *	15.49 *	5.01	0.46
9	40.78 *	35.28 *	34.62 *	32.24 *	29.37 *	26.40 *	19.96 *	15.93 *	5.20	0.47
7	41.85 *	36.18 *	35.43 *	32.82 *	29.70 *	26.65 *	20.22 *	16.27 *	5.35	0.47
5	42.66 *	36.85 *	36.04 *	33.27 *	29.96 *	26.84 *	20.45 *	16.55 *	5.49	0.48
3	43.18 *	37.30 *	36.44 *	33.56 *	30.13 *	26.96 *	20.57 *	16.70 *	5.55	0.48
1	21.70 *	18.74 *	18.30 *	16.83 *	15.09 *	13.50 *	10.29 *	8.35 *	2.77	0.24
0	21.71 *	18.75 *	18.31 *	16.84 *	15.10 *	13.50 *	10.29 *	8.35 *	2.77	0.24
-1	43.26 *	37.37 *	36.51 *	33.62 *	30.16 *	26.98 *	20.57 *	16.70 *	5.55	0.48
-3	42.81 *	36.99 *	36.17 *	33.38 *	30.03 *	26.88 *	20.45 *	16.54 *	5.49	0.48
-5	42.10 *	36.40 *	35.63 *	32.98 *	29.81 *	26.70 *	20.22 *	16.25 *	5.35	0.48
-7	41.10 *	35.56 *	34.89 *	32.46 *	29.51 *	26.46 *	19.95 *	15.91 *	5.20	0.47
-9	39.84 *	34.52 *	33.96 *	31.81 *	29.12 *	26.15 *	19.60 *	15.46 *	5.00	0.46
-11	38.35 *	33.28 *	32.89 *	31.02 *	28.62 *	25.78 *	19.19 *	14.93 *	4.78	0.46
-13	36.63 *	31.86 *	31.65 *	30.11 *	28.04 *	25.35 *	18.69 *	14.32	4.52	0.45
-15	34.76 *	30.32 *	30.31 *	29.13 *	27.44 *	24.78 *	18.06 *	13.61	4.22	0.45
-17	40.66 *	35.66 *	35.97 *	35.03 *	33.39 *	30.05 *	21.54 *	15.88	4.81	0.55
-19.5	44.66 *	39.52 *	40.43 *	40.10 *	38.60 *	34.48 *	24.14 *	17.16	5.01	0.64

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LUMENS TABULATION - (Cont.)

-22.5	40.33 *	36.16 *	37.69 *	38.10 *	36.82 *	32.36 *	21.95 *	14.99	4.25	0.62
-25.5	42.30 *	38.66 *	41.08 *	42.01 *	40.36 *	34.51 *	22.42 *	14.71	4.15	0.69
-29	43.51 *	40.55 *	43.59 *	44.43 *	41.69 *	34.17 *	20.98	13.07	3.70	0.74
-33	44.16 *	41.30 *	44.12 *	43.90 *	39.43 *	30.40 *	17.37	10.22	3.04	0.77
-37.5	42.31 *	38.87 *	40.30 *	38.39 *	32.40 *	23.07	12.06	6.80	2.41	0.77
-42.5	32.00 *	28.46 *	28.17 *	25.27 *	19.74	12.74	6.14	3.72	1.88	0.67
-47.5	25.11	21.36	20.06	16.89	12.39	7.70	4.04	3.35	2.27	0.80
-55	8.83	7.20	6.51	5.40	4.26	3.41	2.63	2.84	2.04	0.69
-65	1.76	1.66	1.81	1.87	1.85	1.72	1.37	1.44	1.00	0.33
-75	0.57	0.53	0.57	0.59	0.57	0.51	0.39	0.40	0.28	0.10
-85	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
-90										
Total	1409.1	1246.46	1258.35	1204.76	1098.17	936.17	644.92	473.42	155.10	22.57

Vert. Angles	**Horizontal Angles**		
	75	**85**	**90**	**Total**
90	0.00	0.00	0.22
85	0.01	0.00	8.24
75	0.04	0.00	26.94
65	0.09	0.00	135.69
55	0.12	0.00	351.08
47.5	0.10	0.00	428.72
42.5	0.12	0.00	566.09
37.5	0.12	0.00	611.07
33	0.12	0.00	631.74
29	0.11	0.00	634.93
25.5	0.10	0.00	613.14
22.5	0.11	0.00	680.33
19.5	0.09	0.00	617.93
17	0.08	0.00	526.40

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LUMENS TABULATION - (Cont.)

15			
	0.08	0.00	552.65
13			
	0.08	0.00	576.01
11			
	0.08	0.00	596.16
9			
	0.08	0.00	612.76
7			
	0.08	0.00	625.89
5			
	0.08	0.00	635.45
3			
	0.08	0.00	641.45
1			
	0.04	0.00	321.87
0			
	0.04	0.00	321.90
-1			
	0.08	0.00	641.69
-3			
	0.08	0.00	636.00
-5			
	0.08	0.00	626.99
-7			
	0.08	0.00	614.52
-9			
	0.08	0.00	598.59
-11			
	0.08	0.00	579.27
-13			
	0.08	0.00	556.67
-15			
	0.08	0.00	531.23
-17			
	0.09	0.00	624.84
-19.5			
	0.11	0.00	688.70
-22.5			
	0.10	0.00	620.85
-25.5			
	0.12	0.00	642.83
-29			
	0.12	0.00	638.48
-33			
	0.12	0.00	614.19
-37.5			
	0.12	0.00	564.01
-42.5			
	0.10	0.00	423.42
-47.5			
	0.12	0.00	345.80
-55			
	0.10	0.00	135.10
-65			
	0.05	0.00	28.02

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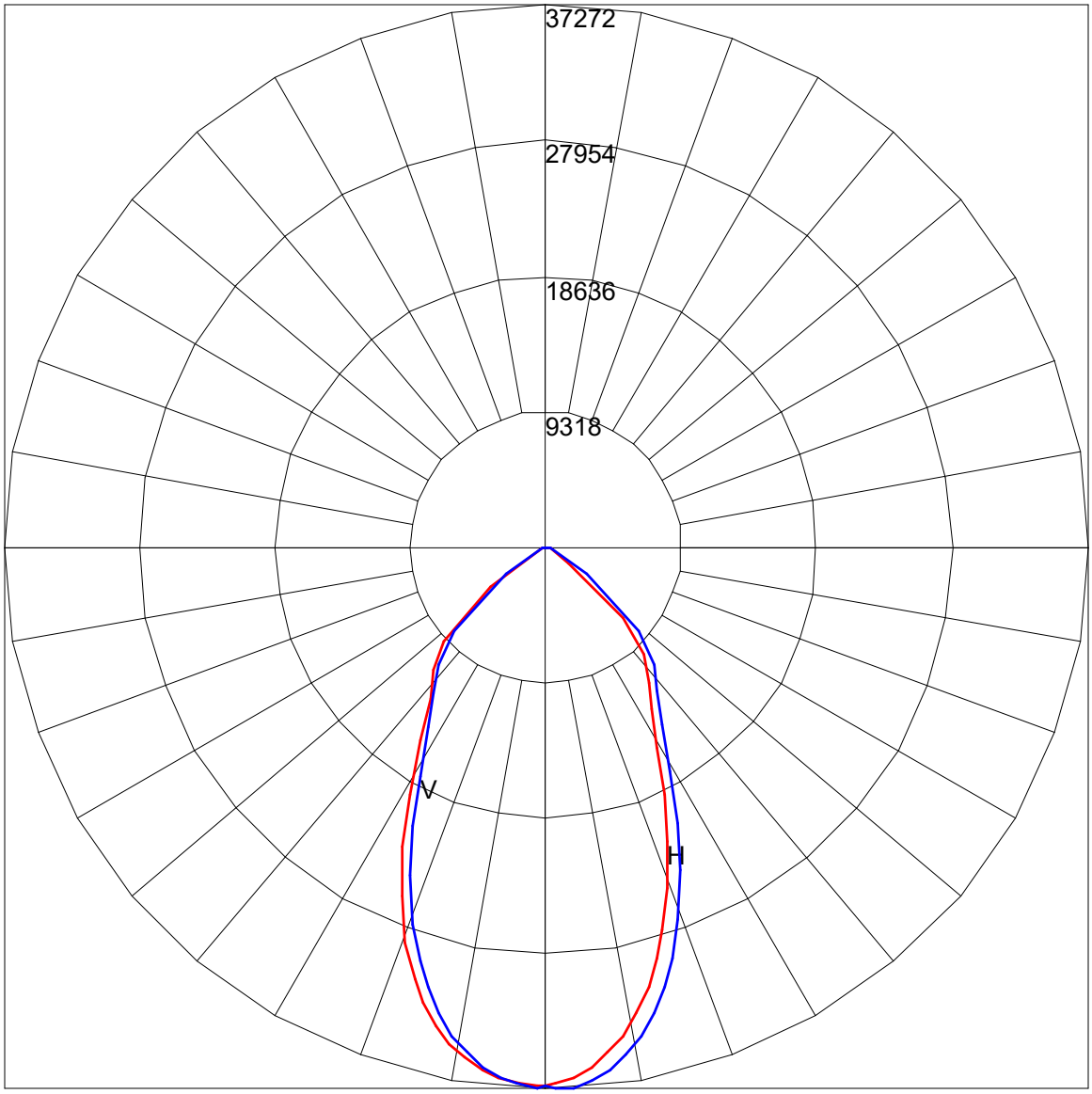
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LUMENS TABULATION - (Cont.)

-75			
	0.01	0.00	8.90
-85			
	0.00	0.00	0.30
-90			
Total	3.67	0.04	20837.05

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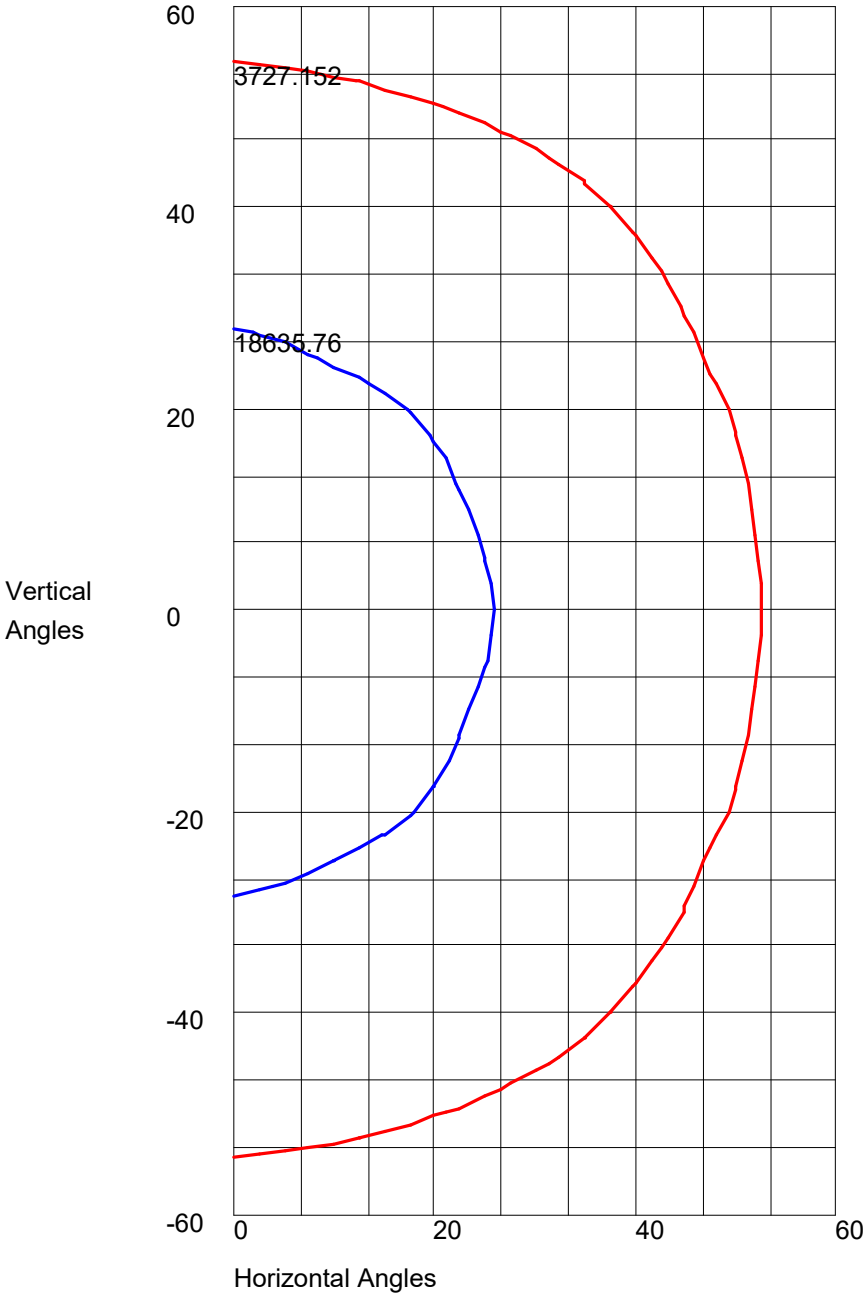
AXIAL CANDELA DISPLAY



Maximum Candela = 37271.519 Located At Horizontal Angle = 0, Vertical Angle = 1
H - Horizontal Axial Candela
V - Vertical Axial Candela

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ISOCANDELA CURVES



Maximum Candela = 37271.519 Located At Horizontal Angle = 0, Vertical Angle = 1
50% Maximum Candela = 18635.7595
10% Maximum Candela = 3727.1519

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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-300LED-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	20443.496
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	41622.5 (1 lamp)
Total Lamp Lumens	41622.5
Beam Lumens	32651
Beam Efficiency	78 %
Field Lumens	40027
Field Efficiency	96 %
Spill Lumens	1806
Luminaire Lumens	41832
Total Efficiency	101 %
Total Luminaire Watts	298.96
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	2.006	90	0
85	60.64	85	7.048
75	922.226	75	634.72
65	1946.715	65	1700.234
55	7061.911	55	4685.201
47.5	12210.817	47.5	10386.578
42.5	13820.225	42.5	13252.527
37.5	15007.815	37.5	14625.959
33	16163.423	33	15685.754
29	17197.154	29	16741.294
25.5	17965.188	25.5	17633.466
22.5	18493.656	22.5	18267.854
19.5	18945.926	19.5	18787.678
17	19273.991	17	19160.026
15	19508.504	15	19428.648
13	19708.84	13	19665.289
11	19881.65	11	19883.777
9	20012.304	9	20061.64
7	20110.976	7	20208.318
5	20169.82	5	20320.089
3	20198.877	3	20399.147
1	20198.877	1	20433.256
0	20232.056	0	20232.056
-1	20176.336	-1	20443.496
-3	20116.827	-3	20427.472
-5	20018.088	-5	20380.263
-7	19888.099	-7	20299.743
-9	19719.013	-9	20178.464
-11	19527.387	-11	20025.336
-13	19294.337	-13	19829.321
-15	19046.061	-15	19618.08
-17	18760.018	-17	19367.676
-19.5	18350.635	-19.5	19017.802
-22.5	17766.248	-22.5	18522.646
-25.5	17064.306	-25.5	17920.174
-29	16158.37	-29	17056.393
-33	15200.172	-33	15987.821
-37.5	14145.431	-37.5	14905.419
-42.5	12319.729	-42.5	13717.829
-47.5	9050.913	-47.5	11447.172
-55	3711.112	-55	5814.013
-65	1545.244	-65	1834.944
-75	547.218	-75	797.356
-85	5.519	-85	38.033
-90	0	-90	1.738

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CANDELA TABULATION
Maximum Candela = 20443.496
Beam Edge = 10221.748 Cd (50% of Max.)
Field Edge = 2044.3496 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	0.281	0.843	1.124	0.562	0.141	0.177	0.532	0.852	1.136
85.0	0.001	0.324	1.034	1.635	1.225	0.713	1.128	3.092	5.129	7.139
75.0	0.001	0.334	4.746	24.899	90.701	147.499	201.537	286.962	370.255	443.544
65.0	0.001	0.369	22.382	203.270	487.104	720.361	869.607	1053.221	1209.978	1331.575
55.0	0.000	0.497	87.679	516.188	1030.418	1381.277	1567.880	1752.607	1922.600	2131.969 *
47.5	0.000	1.093	169.715	766.675	1399.979	1766.306	1999.422	2598.368	*3717.610	*4843.382 *
42.5	0.000	1.741	224.558	925.975	1594.499	2018.851	2848.333	*4297.283	*5983.183	*7655.013 *
37.5	0.000	2.534	293.888	1070.720	1776.642	2698.903	*4385.801	*6613.043	*8635.630	*10415.778 *
33.0	0.000	3.150	348.247	1187.747	1910.435	3703.803	*6100.703	*8733.724	*10858.117	*12319.640 *
29.0	0.000	3.723	397.040	1277.778	2068.909	*4779.803	*7628.525	*10459.383	*12377.848	*13517.240 *
25.5	0.000	4.157	428.744	1350.298	2285.478	*5738.547	*8867.559	*11615.781	*13266.829	*14165.365 *
22.5	0.000	4.509	457.800	1394.227	2501.362	*6455.160	*9845.960	*12432.399	*13813.141	*14631.355 *
19.5	0.000	4.812	482.491	1436.994	2754.640	*7134.712	*10543.202	*13060.347	*14233.957	*14998.303 *
17.0	0.000	5.027	499.522	1463.075	2962.452	*7621.210	*11028.239	*13368.348	*14505.047	*15290.332 *
15.0	0.000	5.173	513.290	1482.722	3111.639	*7967.507	*11432.836	*13574.902	*14685.276	*15510.425 *
13.0	0.000	5.296	521.723	1499.746	3257.651	*8265.267	*11695.250	*13741.230	*14829.918	*15716.118 *
11.0	0.000	5.759	530.469	1513.998	3380.715	*8514.980	*11877.873	*13881.517	*14967.790	*15861.270 *
9.0	0.000	5.716	537.446	1525.907	3491.078	*8707.450	*12060.690	*13990.235	*15068.354	*15980.087 *
7.0	0.000	5.672	542.659	1535.119	3592.970	*8861.177	*12194.341	*14086.929	*15122.757	*16077.099 *
5.0	0.000	5.629	551.448	1541.571	3664.740	*8975.968	*12276.468	*14121.780	*15173.404	*16141.109 *
3.0	0.000	5.585	549.758	1548.491	3740.491	*9100.691	*12365.498	*14148.319	*15203.019	*16171.496 *
1.0	0.000	5.541	548.065	1546.327	3720.913	*9067.524	*12335.006	*14155.180	*15210.899	*16174.544 *
0.0	0.000	5.519	547.218	1545.244	3711.112	*9050.913	*12319.729	*14145.431	*15200.172	*16158.370 *
-1.0	0.000	5.519	548.698	1547.296	3731.372	*9083.723	*12343.948	*14156.739	*15212.587	*16177.454 *
-3.0	0.000	5.629	551.656	1551.395	3771.842	*9149.235	*12392.285	*14153.347	*15208.038	*16180.149 *
-5.0	0.000	5.702	554.607	1546.406	3715.841	*9057.228	*12324.483	*14131.184	*15181.634	*16155.300 *
-7.0	0.000	5.775	547.195	1541.876	3662.913	*8975.277	*12265.936	*14101.783	*15132.320	*16096.090 *
-9.0	0.000	5.848	543.368	1534.574	3578.290	*8854.643	*12167.234	*14015.902	*15075.358	*16002.496 *
-11.0	0.000	5.920	537.843	1524.561	3484.142	*8695.533	*12022.251	*13920.437	*14984.145	*15886.181 *
-13.0	0.000	5.459	530.629	1512.678	3375.787	*8479.825	*11863.955	*13797.236	*14847.062	*15741.053 *
-15.0	0.000	5.350	523.771	1498.277	3239.881	*8215.975	*11646.588	*13651.350	*14705.632	*15530.845 *
-17.0	0.000	5.215	511.028	1480.612	3091.269	*7917.860	*11289.537	*13472.845	*14528.594	*15316.288 *
-19.5	0.000	5.006	495.158	1456.185	2892.847	*7461.854	*10863.404	*13208.940	*14274.557	*15025.495 *
-22.5	0.000	4.698	472.016	1416.861	2632.973	*6818.924	*10239.869	*12668.418	*13910.466	*14666.868 *
-25.5	0.000	4.327	444.747	1379.046	2399.301	*6133.235	*9304.333	*11963.942	*13440.031	*14228.359 *
-29.0	0.000	3.911	414.658	1308.012	2156.710	*5185.829	*8136.452	*10912.349	*12685.533	*13687.274 *
-33.0	0.000	3.365	366.765	1222.561	1960.648	4025.966	*6607.705	*9282.320	*11347.932	*12683.907 *
-37.5	0.000	2.777	315.300	1111.567	1822.091	2964.842	*4861.596	*7241.380	*9269.464	*10997.599 *
-42.5	0.000	2.043	249.266	968.032	1641.857	2126.308	*3152.511	*4839.009	*6652.329	*8381.985 *
-47.5	0.000	1.444	186.693	812.268	1454.990	1814.709	2114.660	*2905.538	*4140.944	*5534.875 *
-55.0	0.000	0.835	102.156	567.165	1097.240	1440.293	1618.723	1804.738	2008.452	2341.134 *
-65.0	0.000	0.442	31.764	234.950	553.268	799.712	957.413	1141.943	1292.562	1409.450
-75.0	0.000	0.391	5.972	40.629	120.634	194.596	263.406	360.758	451.404	528.269
-85.0	0.000	0.368	1.211	1.959	2.308	1.843	3.281	7.217	11.156	15.261
-90.0	0.000	0.251	0.755	1.008	0.505	0.126	0.178	0.533	0.853	1.137

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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	1.384	1.597	1.384	1.207	1.065	0.923	0.781	0.639	0.497	0.355
85.0	8.947	10.418	10.041	9.715	9.452	9.184	9.299	8.890	8.481	8.071
75.0	498.955	546.338	573.596	590.294	604.209	612.963	621.923	628.767	633.540	642.122
65.0	1434.850	1503.555	1558.974	1588.209	1611.556	1632.767	1650.843	1666.265	1678.994	1688.883
55.0	2440.285	2723.002	3183.517	3487.044	3719.351	3948.807	4130.041	4299.968	4438.999	4547.868 *
47.5	5956.694	6906.190	7784.392	8452.309	8858.597	9201.058	9507.528	9773.001	9987.849	10158.691 *
42.5	9027.995	10138.686	10999.125	11661.038	12114.194	12423.405	12624.849	12827.397	12987.008	13100.961 *
37.5	11702.579	12595.528	13281.876	13639.577	13910.844	14096.748	14237.849	14358.224	14468.518	14532.642 *
33.0	13284.526	13882.658	14336.418	14646.702	14879.618	15088.829	15267.719	15394.254	15492.630	15579.546 *
29.0	14143.676	14661.541	15081.423	15425.022	15682.732	15947.898	16164.178	16341.357	16488.134	16602.773 *
25.5	14735.856	15204.555	15694.989	16103.026	16424.372	16714.279	16986.033	17193.511	17354.087	17478.791 *
22.5	15204.650	15690.601	16225.356	16684.959	17022.018	17338.366	17614.309	17853.532	18006.425	18122.539 *
19.5	15639.199	16207.053	16746.521	17210.987	17555.653	17864.907	18134.067	18363.169	18530.985	18647.366 *
17.0	15991.491	16611.019	17185.955	17605.721	17936.750	18228.073	18487.578	18701.756	18892.504	19008.939 *
15.0	16262.527	16905.268	17489.461	17913.370	18206.669	18466.872	18725.287	18938.585	19128.021	19265.450 *
13.0	16512.221	17167.443	17753.786	18161.022	18436.662	18671.851	18917.509	19142.068	19333.920	19492.371 *
11.0	16714.049	17397.928	17976.293	18374.673	18650.954	18881.525	19089.054	19307.199	19509.964	19688.404 *
9.0	16864.319	17570.281	18160.019	18549.624	18817.486	19057.097	19262.513	19444.227	19646.755	19824.735 *
7.0	16967.794	17679.128	18267.532	18681.505	18957.024	19196.180	19407.988	19592.498	19748.675	19939.242 *
5.0	17042.770	17755.892	18337.778	18747.190	19033.681	19288.937	19524.052	19703.835	19869.804	19999.813 *
3.0	17079.753	17783.367	18368.165	18778.463	19063.879	19320.178	19551.451	19758.083	19931.638	20062.747 *
1.0	17083.038	17785.399	18369.028	18778.681	19066.137	19315.825	19549.887	19747.202	19919.177	20058.861 *
0.0	17064.306	17766.248	18350.635	18760.018	19046.061	19294.337	19527.387	19719.013	19888.099	20018.088 *
-1.0	17085.738	17786.725	18369.112	18777.204	19061.446	19310.510	19540.623	19732.188	19898.546	20024.256 *
-3.0	17088.094	17787.928	18368.556	18774.861	19053.474	19304.780	19525.762	19717.867	19871.086	19967.206 *
-5.0	17057.361	17765.057	18339.276	18742.535	19021.910	19266.416	19485.324	19640.926	19778.178	19865.875 *
-7.0	16989.200	17692.403	18273.053	18676.167	18942.005	19162.910	19358.429	19517.351	19642.999	19784.786 *
-9.0	16892.367	17587.684	18167.662	18543.568	18803.093	19023.000	19208.677	19362.450	19529.571	19664.567 *
-11.0	16748.344	17420.214	17986.294	18369.178	18633.344	18849.060	19035.505	19223.316	19388.626	19528.342 *
-13.0	16546.341	17197.064	17770.392	18163.383	18421.923	18644.313	18864.755	19057.804	19218.392	19361.784 *
-15.0	16298.868	16942.406	17505.638	17920.019	18198.060	18437.773	18672.311	18862.774	19026.257	19195.054 *
-17.0	16025.807	16646.360	17211.560	17620.054	17934.944	18205.559	18436.151	18631.613	18793.031	18986.038 *
-19.5	15667.834	16243.906	16786.554	17230.962	17562.976	17853.567	18096.249	18301.477	18484.038	18671.707 *
-22.5	15234.365	15723.151	16260.360	16712.932	17045.829	17343.631	17599.477	17820.473	18025.022	18210.404 *
-25.5	14777.821	15235.011	15720.721	16133.516	16447.855	16736.840	16990.825	17230.454	17436.524	17616.259 *
-29.0	14219.112	14701.600	15104.734	15441.052	15706.299	15963.194	16197.335	16420.707	16617.220	16781.777 *
-33.0	13497.458	13994.912	14384.822	14676.239	14896.744	15101.058	15306.725	15482.728	15622.125	15757.671 *
-37.5	12172.862	12928.197	13486.852	13778.342	13985.984	14173.460	14333.101	14476.542	14619.079	14716.378 *
-42.5	9744.522	10820.402	11626.716	12188.838	12609.572	12870.661	13070.080	13255.154	13406.641	13524.040 *
-47.5	6757.461	7716.284	8612.732	9307.471	9720.173	10099.085	10446.102	10723.667	10960.779	11154.230 *
-55.0	2750.334	3265.197	3782.284	4191.459	4493.004	4782.125	5013.888	5231.226	5424.209	5580.557 *
-65.0	1504.566	1565.463	1621.509	1661.873	1692.475	1719.852	1744.766	1768.136	1788.444	1805.654
-75.0	591.821	640.881	677.022	702.840	723.623	737.387	751.676	764.172	774.839	789.678
-85.0	19.252	24.574	28.140	30.594	32.262	33.682	37.185	37.339	37.493	37.647
-90.0	1.386	1.600	1.618	1.634	1.646	1.658	1.671	1.683	1.695	1.708

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	0.213	0.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	7.662	7.253	7.048	6.977	6.834	6.692	6.550	6.407	6.265	5.439
75.0	639.162	636.201	634.720	634.598	634.353	634.108	622.092	613.859	603.414	590.680
65.0	1699.452	1699.973	1700.234	1700.087	1699.794	1689.334	1679.466	1666.598	1650.833	1631.798

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Results derived from content of manufacturers photometric file.

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

55.0	4661.348 *	4677.247 *	4685.201 *	4696.348 *	4718.628 *	4641.578 *	4567.787 *	4461.455 *	4320.428 *	4164.676 *
47.5	10340.547	10371.224	10386.578	10393.668	10407.833	10267.993	10136.972	9969.165 *	9766.821 *	9512.961 *
42.5	13217.751	13240.924	13252.527	13243.355	13225.039	13119.535	13021.533	12891.358	12723.338	12542.773 *
37.5	14586.400	14620.606	14625.959	14607.943	14549.177	14472.873	14388.686	14251.888	14114.802	13962.078 *
33.0	15640.508	15680.009	15685.754	15666.036	15597.812	15506.146	15390.220	15270.820	15104.850	14922.273 *
29.0	16681.886	16733.513	16741.294	16718.340	16635.369	16522.373	16379.448	16203.326	16000.047	15876.915 *
25.5	17567.770	17624.773	17633.466	17603.647	17506.308	17381.996	17217.181	17030.216	16864.453	16728.279 *
22.5	18204.024	18259.010	18267.854	18232.222	18126.205	17999.926	17838.258	17636.826	17541.013	17400.855 *
19.5	18725.824	18778.018	18787.678	18745.856	18628.312	18485.052	18317.091	18192.486	18096.759	17968.934 *
17.0	19092.780	19149.001	19160.026	19110.533	18977.855	18822.965	18645.663	18583.881	18487.639	18362.729 *
15.0	19354.449	19416.574	19428.648	19372.632	19226.004	19054.618	18934.474	18863.227	18771.665	18639.571 *
13.0	19587.102	19651.115	19665.289	19599.441	19434.654	19251.207	19187.009	19121.480	19023.305	18885.410 *
11.0	19789.591	19865.057	19883.777	19805.033	19614.375	19459.657	19418.763	19350.923	19248.615	19073.329 *
9.0	19961.437	20040.887	20061.640	19964.462	19740.852	19656.610	19624.200	19552.589	19406.461	19229.183 *
7.0	20088.937	20182.015	20208.318	20080.753	19823.480	19836.000	19799.656	19686.603	19543.415	19357.329 *
5.0	20159.256	20285.350	20320.089	20137.024	19958.860	19973.188	19907.543	19792.706	19649.023	19474.376 *
3.0	20171.710	20331.447	20399.147	20087.262	20068.769	20046.275	19977.633	19885.292	19754.749	19588.955 *
1.0	20166.513	20271.952	20433.256	20104.719	20144.987	20130.881	20074.710	19980.231	19850.023	19679.968 *
0.0	20116.827	20176.336	20232.056	20198.877	20198.877	20169.820	20110.976	20012.304	19881.650	19708.840 *
-1.0	20098.945	20089.880	20443.496	20306.375	20234.282	20188.390	20121.686	20018.176	19883.121	19709.402 *
-3.0	20013.366	20109.726	20427.472	20364.805	20286.823	20208.591	20112.523	19997.878	19852.351	19677.010 *
-5.0	19951.966	20185.551	20380.263	20343.751	20267.685	20209.380	20106.892	19967.850	19808.924	19618.932 *
-7.0	19870.931	20157.990	20299.743	20273.705	20197.498	20142.555	20057.858	19917.457	19753.211	19553.891 *
-9.0	19821.659	20067.138	20178.464	20160.195	20088.302	20021.333	19941.322	19833.899	19665.147	19469.477 *
-11.0	19717.385	19933.602	20025.336	20010.153	19944.694	19870.774	19789.294	19682.380	19549.536	19350.432 *
-13.0	19567.349	19751.882	19829.321	19818.163	19760.705	19677.612	19597.641	19495.877	19365.658	19201.359 *
-15.0	19381.805	19550.366	19618.080	19606.758	19550.392	19469.132	19378.134	19272.066	19152.646	18992.920 *
-17.0	19158.899	19308.258	19367.676	19358.529	19306.234	19226.489	19124.040	19022.786	18897.834	18743.023 *
-19.5	18830.148	18965.940	19017.802	19009.390	18958.538	18881.893	18779.665	18663.896	18542.955	18386.481 *
-22.5	18354.086	18477.575	18522.646	18516.248	18468.516	18396.532	18289.601	18153.468	18027.020	17864.305 *
-25.5	17761.096	17879.878	17920.174	17914.857	17865.740	17789.687	17686.302	17543.050	17389.863	17227.394 *
-29.0	16914.287	17020.728	17056.393	17054.059	17013.173	16943.257	16840.549	16711.614	16544.888	16400.092 *
-33.0	15868.800	15957.970	15987.821	15986.156	15952.047	15892.515	15805.060	15712.873	15589.395	15416.619 *
-37.5	14807.363	14880.889	14905.419	14902.347	14871.450	14822.322	14765.836	14668.891	14557.912	14430.640 *
-42.5	13641.696	13692.427	13717.829	13715.537	13710.960	13642.085	13575.198	13482.189	13368.430	13255.419 *
-47.5	11349.572	11414.616	11447.172	11453.516	11466.192	11354.860	11249.811	11097.273	10891.986	10643.669 *
-55.0	5740.203 *	5789.400 *	5814.013 *	5820.827 *	5834.448 *	5738.711 *	5646.974 *	5519.936 *	5360.151 *	5182.281 *
-65.0	1823.306	1831.064	1834.944	1834.686	1834.171	1823.893	1814.146	1801.470	1785.946	1766.588
-75.0	792.749	795.820	797.356	796.450	794.639	792.829	778.539	768.333	755.854	741.042
-85.0	37.802	37.956	38.033	37.517	36.484	35.452	34.420	33.388	32.355	28.501
-90.0	1.720	1.732	1.738	1.661	1.507	1.352	1.197	1.043	0.888	0.734

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	0.222	0.482	0.778	1.112	1.482	1.481
85.0	5.072	4.673	4.131	3.479	4.570	5.802	6.744	7.240	7.418	6.346
75.0	578.047	559.759	537.324	511.460	498.204	482.194	455.393	415.038	367.849	298.917
65.0	1609.130	1584.188	1552.793	1516.980	1492.632	1438.290	1377.125	1291.786	1167.720	974.420
55.0	3953.139 *	3775.859 *	3510.550 *	3211.455 *	2938.148 *	2589.384 *	2278.695 *	2016.533	1851.518	1640.742
47.5	9205.200 *	8855.700 *	8523.207 *	7993.927 *	7376.251 *	6572.531 *	5559.003 *	4288.610 *	2758.541 *	2035.483
42.5	12306.116	12025.525	11694.600	11229.224	10576.454	9692.970 *	8474.954 *	6718.353 *	4662.245 *	2776.795 *
37.5	13812.207	13696.786	13532.283	13219.090	12849.149	12253.990	11063.781	9148.516 *	6731.300 *	4322.282 *
33.0	14806.356	14674.209	14471.646	14193.773	13880.577	13439.345	12665.353	11073.579	8576.717 *	5769.413 *
29.0	15713.650	15543.803	15299.430	14997.780	14613.547	14127.728	13438.222	12365.467	10018.820	7055.907 *
25.5	16559.290	16359.630	16068.964	15664.744	15195.933	14616.470	13929.916	13039.533	11091.302	8147.789 *

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	17227.161	7026.727	6717.121	6244.772	5682.507	5057.150	4296.634	3424.366	1853.518	9036.031 *
19.5	17803.957	7602.977	7276.356	6756.363	6167.918	5440.839	4635.364	3751.828	2436.819	9823.824 *
17.0	18211.870	7995.204	7643.108	7133.810	6528.791	5755.775	4891.445	3978.906	2812.380	10370.730 *
15.0	18490.616	8245.643	7895.241	7392.550	6787.138	5992.901	5085.647	4172.117	3072.232	10758.357 *
13.0	18682.253	8450.761	8110.219	7616.337	7013.644	6232.791	5299.809	4337.918	3251.997	1102.789 *
11.0	18870.700	8632.132	8291.245	7809.544	7221.210	6447.674	5523.607	4492.368	3375.125	1396.839 *
9.0	19021.005	8785.918	8445.285	7976.745	7427.189	6653.925	5693.954	4632.409	3499.988	1637.522 *
7.0	19153.590	8916.804	8602.424	8147.064	7604.971	6831.869	5828.107	4766.297	3606.884	1830.827 *
5.0	19277.124	9053.500	8734.373	8284.657	7746.969	6973.915	5957.969	4851.891	3690.993	1981.240 *
3.0	19389.694	9163.399	8839.947	8386.262	7855.200	7086.370	6061.629	4929.703	3776.562	2133.574 *
1.0	19479.893	9247.952	8920.979	8468.046	7939.024	7171.382	6140.131	4989.611	3805.651	2185.042 *
0.0	19508.504	9273.991	8945.926	8493.656	7965.188	7197.154	6163.423	5007.815	3820.225	2210.817 *
-1.0	19507.182	9271.886	8943.558	8488.751	7957.887	7189.187	6156.222	5002.055	3815.366	2198.373 *
-3.0	19470.834	9236.479	8907.103	8448.052	7911.692	7139.817	6109.680	4966.917	3805.667	2173.526 *
-5.0	19411.028	9176.617	8844.469	8386.593	7840.762	7063.025	6037.367	4913.544	3738.875	2046.682 *
-7.0	19334.995	9085.334	8754.808	8288.827	7730.321	6956.290	5938.173	4851.904	3672.987	1920.814 *
-9.0	19242.896	8994.227	8640.755	8156.038	7595.510	6818.123	5834.238	4741.409	3584.207	1757.162 *
-11.0	19130.614	8876.083	8520.893	8022.250	7425.716	6645.170	5681.494	4624.379	3475.330	1556.770 *
-13.0	18980.016	8727.447	8371.262	7862.185	7251.504	6459.424	5495.369	4491.585	3363.720	1298.924 *
-15.0	18815.773	8555.598	8185.857	7667.810	7053.073	6243.016	5302.328	4336.794	3213.226	0990.609 *
-17.0	18571.450	8341.943	7965.016	7439.020	6825.887	6024.267	5123.867	4171.199	2987.600	0637.388 *
-19.5	18200.730	7981.401	7638.219	7095.961	6488.480	5717.927	4875.334	3962.628	2668.708	0130.255 *
-22.5	17673.114	7448.647	7115.968	6620.950	6019.779	5347.630	4551.504	3645.991	2159.442	9395.336 *
-25.5	17035.923	6819.752	6497.173	6048.918	5539.724	4913.795	4194.901	3277.674	1469.615	8546.887 *
-29.0	16204.637	6002.477	5727.636	5376.669	4952.952	4433.091	3722.218	2710.239	0494.560	7490.112 *
-33.0	15283.197	5119.109	4887.258	4578.150	4234.393	3770.376	3023.436	1581.824	9116.317 *	6222.224 *
-37.5	14303.969	4160.166	3977.228	3674.563	3316.141	2762.470	1670.571	9811.380 *	7306.886 *	4747.622 *
-42.5	13068.153	2825.758	2508.047	2055.632	1413.498	0518.662	9278.198 *	7413.709 *	5221.883 *	3144.712 *
-47.5	10360.144	0018.357	9626.829 *	9040.970 *	8363.152 *	7463.327 *	6334.351 *	4928.879 *	3214.813 *	2166.149 *
-55.0	4916.882 *	4654.948 *	4333.455 *	3950.219 *	3603.370 *	3109.114 *	2580.866 *	2168.199 *	1920.799	1703.987
-65.0	1743.632	1719.038	1688.235	1653.182	1617.364	1562.519	1493.504	1402.083	1276.344	1080.020
-75.0	726.418	705.970	680.561	651.115	632.922	603.337	567.920	519.580	455.946	369.766
-85.0	26.482	24.302	21.343	17.484	19.660	22.221	23.432	23.104	19.505	13.341
-90.0	0.579	0.425	0.232	0.000	0.285	0.617	0.996	1.423	1.897	1.896

Vert. Angles	**Horizontal Angles**				
	55.0	**65.0**	**75.0**	**85.0**	**90.0**
90.0	0.925	0.185	0.666	1.552	1.995
85.0	3.432	0.574	1.238	1.968	1.996
75.0	183.673	63.998	14.013	2.894	1.998
65.0	676.052	299.779	83.187	4.731	2.000
55.0	1267.938	682.697	210.359	8.741	2.001
47.5	1632.487	984.448	348.913	15.037	2.002
42.5	1841.460	1172.401	443.796	21.544	2.003
37.5	2019.289	1336.747	525.731	29.780	2.003
33.0	2398.764 *	1466.125	600.304	34.638	2.004
29.0	3016.802 *	1569.785	664.796	39.230	2.004
25.5	3678.396 *	1658.583	714.575	42.944	2.005
22.5	4258.180 *	1712.040	754.540	46.408	2.005
19.5	4836.558 *	1766.733	791.310	49.528	2.005
17.0	5279.985 *	1804.553	819.820	51.857	2.005
15.0	5615.144 *	1832.768	843.077	53.538	2.005
13.0	5933.279 *	1857.027	857.916	55.052	2.005
11.0	6180.047 *	1878.564	873.241	59.159	2.005
9.0	6410.550 *	1897.458	886.610	59.426	2.006

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IES FLOOD REPORT
PHOTOMETRIC FILENAME : EPL-HB-300LED-RT-125DB.IES

CANDELA TABULATION - (Cont.)

7.0	6620.056	*1913.453	898.009	59.694	2.006
5.0	6793.633	*1926.554	913.695	59.963	2.006
3.0	6974.630	*1939.977	917.102	60.234	2.006
1.0	7032.794	*1944.468	920.517	60.640	2.006
0.0	7061.911	*1946.715	922.226	60.640	2.006
-1.0	7045.173	*1945.387	921.135	60.530	2.006
-3.0	7011.737	*1942.732	918.954	60.311	2.006
-5.0	6855.136	*1931.078	916.778	60.093	2.006
-7.0	6705.630	*1919.692	902.350	59.875	2.005
-9.0	6519.671	*1905.317	892.207	59.657	2.005
-11.0	6311.603	*1887.924	880.104	59.442	2.005
-13.0	6086.332	*1867.859	866.060	55.416	2.005
-15.0	5787.236	*1844.970	852.503	53.968	2.005
-17.0	5471.159	*1818.188	830.476	52.359	2.005
-19.5	5039.507	*1782.238	803.488	50.125	2.005
-22.5	4494.806	*1729.083	768.537	47.130	2.004
-25.5	3936.657	*1677.771	730.382	43.806	2.004
-29.0	3236.905	*1593.047	682.688	40.202	2.004
-33.0	2586.596	*1492.613	618.148	35.725	2.003
-37.5	2109.569	*1364.716	546.147	30.988	2.003
-42.5	1889.440	1205.036	459.512	22.441	2.002
-47.5	1678.884	1026.081	371.023	15.654	2.002
-55.0	1329.208	732.543	228.319	9.069	2.000
-65.0	757.855	352.497	92.828	4.796	1.999
-75.0	229.020	81.765	18.804	2.911	1.997
-85.0	6.092	1.104	1.289	1.982	1.995
-90.0	1.185	0.237	0.666	1.552	1.994

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PHOTOMETRIC FILENAME : EPL-HB-300LED-RT-125DB.IES

LUMEN TABULATION
Average Of Right And Left Sides
Total Luminaire Lumens (one side of beam only) = 20916.16
Total Field Lumens (one side of beam only) = 20013.28
* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	0	1	3	5	7	9	11	13	15	17
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
85	0.98	1.96	1.96	1.94	1.91	1.87	1.83	1.78	1.73	2.07
75	3.56	7.11	7.09	7.02	6.93	6.83	6.70	6.55	6.39	7.72
65	9.73 *	19.45 *	19.25 *	18.88 *	18.44 *	17.88 *	17.23 *	16.46 *	15.61 *	18.30 *
55	17.21 *	34.40 *	34.04 *	33.37 *	32.60 *	31.63 *	30.48 *	29.13 *	27.62 *	32.25 *
47.5	18.00 *	35.94 *	35.64 *	35.13 *	34.54 *	33.78 *	32.89 *	31.83 *	30.55 *	36.16 *
42.5	21.22 *	42.35 *	42.09 *	41.69 *	41.17 *	40.51 *	39.75 *	38.85 *	37.76 *	45.44 *
37.5	20.77 *	41.42 *	41.18 *	40.84 *	40.39 *	39.82 *	39.15 *	38.40 *	37.57 *	45.67 *
33	19.75 *	39.38 *	39.13 *	38.76 *	38.30 *	37.72 *	37.06 *	36.33 *	35.54 *	43.20 *
29	18.31 *	36.51 *	36.26 *	35.90 *	35.42 *	34.85 *	34.23 *	33.53 *	32.75 *	39.73 *
25.5	16.39 *	32.68 *	32.45 *	32.13 *	31.70 *	31.21 *	30.66 *	30.02 *	29.30 *	35.49 *
22.5	16.92 *	33.72 *	33.49 *	33.16 *	32.74 *	32.27 *	31.72 *	31.07 *	30.33 *	36.74 *
19.5	14.44 *	28.77 *	28.56 *	28.28 *	27.94 *	27.57 *	27.12 *	26.59 *	25.97 *	31.47 *
17	11.74 *	23.39 *	23.22 *	22.99 *	22.73 *	22.43 *	22.07 *	21.66 *	21.17 *	25.67 *
15	11.90 *	23.69 *	23.50 *	23.27 *	23.02 *	22.72 *	22.36 *	21.94 *	21.46 *	26.04 *
13	12.03 *	23.95 *	23.75 *	23.53 *	23.28 *	22.98 *	22.61 *	22.19 *	21.71 *	26.35 *
11	12.15 *	24.17 *	23.96 *	23.75 *	23.51 *	23.20 *	22.83 *	22.40 *	21.92 *	26.62 *
9	12.25 *	24.34 *	24.14 *	23.94 *	23.69 *	23.38 *	23.01 *	22.58 *	22.09 *	26.83 *
7	12.32 *	24.46 *	24.28 *	24.09 *	23.84 *	23.53 *	23.16 *	22.72 *	22.23 *	27.00 *
5	12.36 *	24.54 *	24.38 *	24.20 *	23.95 *	23.64 *	23.26 *	22.82 *	22.33 *	27.12 *
3	12.37 *	24.56 *	24.44 *	24.27 *	24.02 *	23.71 *	23.33 *	22.89 *	22.39 *	27.20 *
1	6.17 *	12.28 *	12.23 *	12.15 *	12.02 *	11.87 *	11.68 *	11.46 *	11.21 *	13.62 *
0	6.17 *	12.28 *	12.23 *	12.15 *	12.03 *	11.87 *	11.68 *	11.46 *	11.21 *	13.62 *
-1	12.38 *	24.58 *	24.46 *	24.29 *	24.05 *	23.74 *	23.36 *	22.92 *	22.42 *	27.24 *

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IES FLOOD REPORT
PHOTOMETRIC FILENAME : EPL-HB-300LED-RT-125DB.IES

LUMENS TABULATION - (Cont.)

-3	12.38 *	24.59 *	24.43 *	24.25 *	24.01 *	23.70 *	23.32 *	22.88 *	22.38 *	27.19 *
-5	12.36 *	24.54 *	24.35 *	24.17 *	23.92 *	23.62 *	23.24 *	22.80 *	22.31 *	27.10 *
-7	12.31 *	24.45 *	24.25 *	24.05 *	23.80 *	23.49 *	23.12 *	22.69 *	22.20 *	26.96 *
-9	12.23 *	24.31 *	24.10 *	23.89 *	23.64 *	23.33 *	22.96 *	22.54 *	22.05 *	26.78 *
-11	12.12 *	24.13 *	23.92 *	23.69 *	23.45 *	23.14 *	22.77 *	22.35 *	21.86 *	26.54 *
-13	12.00 *	23.89 *	23.70 *	23.47 *	23.21 *	22.91 *	22.54 *	22.12 *	21.64 *	26.25 *
-15	11.86 *	23.63 *	23.44 *	23.20 *	22.94 *	22.64 *	22.28 *	21.86 *	21.37 *	25.91 *
-17	14.60 *	29.09 *	28.87 *	28.58 *	28.24 *	27.86 *	27.40 *	26.87 *	26.25 *	31.81 *
-19.5	17.14 *	34.15 *	33.90 *	33.57 *	33.15 *	32.67 *	32.11 *	31.46 *	30.71 *	37.20 *
-22.5	16.64 *	33.16 *	32.92 *	32.59 *	32.17 *	31.67 *	31.10 *	30.45 *	29.72 *	35.99 *
-25.5	18.63 *	37.14 *	36.87 *	36.50 *	36.02 *	35.44 *	34.79 *	34.06 *	33.25 *	40.32 *
-29	20.12 *	40.11 *	39.84 *	39.46 *	38.98 *	38.39 *	37.70 *	36.94 *	36.11 *	43.88 *
-33	21.16 *	42.20 *	41.94 *	41.58 *	41.11 *	40.54 *	39.86 *	39.10 *	38.28 *	46.57 *
-37.5	21.79 *	43.46 *	43.20 *	42.82 *	42.32 *	41.70 *	40.99 *	40.16 *	39.13 *	47.26 *
-42.5	19.15 *	38.22 *	37.92 *	37.44 *	36.86 *	36.12 *	35.25 *	34.22 *	32.98 *	39.19 *
-47.5	19.70 *	39.31 *	38.87 *	38.12 *	37.25 *	36.16 *	34.87 *	33.36 *	31.66 *	36.97 *
-55	11.64 *	23.22 *	22.93 *	22.43 *	21.86 *	21.17 *	20.38 *	19.43 *	18.35 *	21.38 *
-65	4.01	7.99	7.94	7.85	7.74	7.60	7.45	7.28	7.08	8.55
-75	1.27	2.53	2.52	2.48	2.43	2.39	2.32	2.25	2.18	2.60
-85	0.03	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.05
-90										
Total	570.28	1136.12	1127.7	1115.95	1101.4	1083.61	1062.68	1038.46	1010.81	1220.07

Vert. Angles	**Horizontal Angles**									
	19.5	**22.5**	**25.5**	**29**	**33**	**37.5**	**42.5**	**47.5**	**55**	**65**
90	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00
85	2.34	2.17	2.31	2.32	2.17	1.88	1.39	1.31	0.70	0.15
75	8.85	8.35	9.03	9.28	9.04	8.24	6.39	6.39	3.86	0.93
65	20.01 *	18.01 *	18.71 *	18.64	18.05	16.87	13.69	14.61	9.82	2.74
55	35.06 *	30.95 *	30.96 *	28.99 *	25.32 *	20.59 *	15.14 *	16.28	11.81	3.67

IES FLOOD REPORT
PHOTOMETRIC FILENAME : EPL-HB-300LED-RT-125DB.IES

LUMENS TABULATION - (Cont.)

47.5	40.13 *	36.11 *	36.55 *	34.26 *	29.12 *	21.99 *	14.04 *	13.46 *	9.81	3.28
42.5	51.55 *	47.65 *	49.86 *	48.41 *	42.62 *	33.10 *	20.49 *	17.01 *	11.16	3.90
37.5	52.55 *	49.59 *	53.39 *	53.83 *	49.60 *	40.26 *	25.61 *	19.77 *	11.27	4.00
33	49.87 *	47.44 *	51.80 *	53.64 *	51.46 *	43.71 *	28.87 *	21.94 *	11.33 *	3.91
29	45.78 *	43.54 *	47.73 *	50.00 *	49.20 *	43.42 *	29.83 *	22.99 *	11.25 *	3.67
25.5	40.79 *	38.70 *	42.39 *	44.55 *	44.41 *	40.31 *	28.68 *	22.56 *	10.75 *	3.31
22.5	42.18 *	39.94 *	43.65 *	45.86 *	46.02 *	42.58 *	31.14 *	25.08 *	11.79 *	3.43
19.5	36.14 *	34.18 *	37.26 *	39.08 *	39.32 *	36.81 *	27.51 *	22.68 *	10.60 *	2.95
17	29.49 *	27.88 *	30.35 *	31.77 *	31.97 *	30.16 *	22.90 *	19.18 *	8.96 *	2.41
15	29.93 *	28.31 *	30.81 *	32.20 *	32.38 *	30.70 *	23.56 *	20.01 *	9.35 *	2.45
13	30.31 *	28.68 *	31.21 *	32.60 *	32.76 *	31.10 *	24.08 *	20.73 *	9.70 *	2.48
11	30.63 *	29.00 *	31.55 *	32.94 *	33.08 *	31.44 *	24.51 *	21.33 *	9.99 *	2.51
9	30.89 *	29.27 *	31.84 *	33.22 *	33.35 *	31.74 *	24.87 *	21.85 *	10.26 *	2.53
7	31.10 *	29.47 *	32.08 *	33.44 *	33.55 *	31.96 *	25.14 *	22.26 *	10.49 *	2.56
5	31.24 *	29.62 *	32.24 *	33.62 *	33.70 *	32.12 *	25.38 *	22.64 *	10.70 *	2.57
3	31.33 *	29.71 *	32.35 *	33.73 *	33.81 *	32.22 *	25.51 *	22.85 *	10.82 *	2.58
1	15.69 *	14.88 *	16.20 *	16.89 *	16.93 *	16.12 *	12.76 *	11.44 *	5.42 *	1.29
0	15.69 *	14.88 *	16.20 *	16.90 *	16.93 *	16.13 *	12.76 *	11.45 *	5.43 *	1.29
-1	31.37 *	29.75 *	32.39 *	33.77 *	33.84 *	32.26 *	25.56 *	22.92 *	10.86 *	2.58
-3	31.32 *	29.69 *	32.32 *	33.70 *	33.77 *	32.20 *	25.49 *	22.79 *	10.77 *	2.58
-5	31.21 *	29.58 *	32.19 *	33.56 *	33.65 *	32.08 *	25.30 *	22.48 *	10.60 *	2.56
-7	31.04 *	29.41 *	32.00 *	33.38 *	33.49 *	31.90 *	25.09 *	22.14 *	10.41 *	2.55
-9	30.82 *	29.18 *	31.75 *	33.13 *	33.26 *	31.65 *	24.79 *	21.71 *	10.17 *	2.52
-11	30.53 *	28.90 *	31.44 *	32.83 *	32.97 *	31.36 *	24.43 *	21.18 *	9.91 *	2.50
-13	30.18 *	28.55 *	31.07 *	32.46 *	32.63 *	31.02 *	23.97 *	20.53 *	9.59 *	2.47
-15	29.76 *	28.15 *	30.64 *	32.05 *	32.26 *	30.55 *	23.39 *	19.77 *	9.22 *	2.43
-17	36.53 *	34.55 *	37.64 *	39.45 *	39.74 *	37.41 *	28.25 *	23.51 *	10.95 *	2.98
-19.5	42.70 *	40.41 *	44.13 *	46.35 *	46.63 *	43.48 *	32.19 *	26.19 *	12.23 *	3.48

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LUMENS TABULATION - (Cont.)

-22.5	41.34 *	39.19 *	42.90 *	45.13 *	45.18 *	41.43 *	29.90 *	23.77 *	11.22 *	3.36
-25.5	46.43 *	44.14 *	48.41 *	50.85 *	50.39 *	45.04 *	31.45 *	24.44 *	11.77 *	3.75
-29	50.65 *	48.23 *	52.82 *	55.01 *	53.31 *	45.98 *	30.83 *	23.48 *	11.83 *	4.01
-33	53.70 *	50.90 *	55.14 *	56.11 *	52.39 *	43.18 *	27.77 *	21.25 *	11.70	4.12
-37.5	53.89 *	50.15 *	52.90 *	51.91 *	46.29 *	36.34 *	22.56 *	18.26 *	11.52	4.04
-42.5	43.72 *	39.60 *	40.38 *	38.05 *	32.52 *	24.63 *	15.45 *	14.22 *	10.15	3.43
-47.5	40.25 *	35.57 *	35.47 *	32.81 *	28.19 *	22.61 *	16.14 *	16.99	12.40	3.93
-55	23.31 *	20.77 *	21.20 *	20.62 *	19.43	17.92	14.53	15.65	10.70	3.05
-65	9.79	9.24	10.01	10.32	10.11	9.30	7.26	7.33	4.51	1.12
-75	2.92	2.71	2.88	2.90	2.75	2.41	1.78	1.67	0.92	0.20
-85	0.05	0.04	0.05	0.05	0.05	0.04	0.03	0.02	0.01	0.01
-90										
Total	1393.08	1307.08	1406.24	1440.63	1397.67	1256.27	920.45	788.14	406.69	116.27

Vert. Angles	**Horizontal Angles**			
	75	**85**	**90**	**Total**
90	0.00	0.00	0.26	
85	0.02	0.00	34.79	
75	0.09	0.00	136.34	
65	0.28	0.00	322.65	
55	0.42	0.00	521.92	
47.5	0.40	0.00	563.60	
42.5	0.51	0.00	717.08	
37.5	0.55	0.00	745.62	
33	0.55	0.00	729.70	
29	0.53	0.00	685.43	
25.5	0.49	0.00	618.96	
22.5	0.51	0.00	644.35	
19.5	0.45	0.00	553.68	
17	0.37	0.00	452.51	

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LUMENS TABULATION - (Cont.)

15			
	0.38	0.00	459.98
13			
	0.38	0.00	466.42
11			
	0.39	0.00	471.90
9			
	0.40	0.00	476.46
7			
	0.40	0.00	480.08
5			
	0.40	0.00	482.84
3			
	0.41	0.00	484.51
1			
	0.20	0.00	242.51
0			
	0.20	0.00	242.59
-1			
	0.41	0.00	485.17
-3			
	0.41	0.00	484.16
-5			
	0.40	0.00	482.06
-7			
	0.40	0.00	479.12
-9			
	0.39	0.00	475.23
-11			
	0.39	0.00	470.39
-13			
	0.38	0.00	464.58
-15			
	0.37	0.00	457.73
-17			
	0.45	0.00	561.03
-19.5			
	0.52	0.00	654.39
-22.5			
	0.50	0.00	630.34
-25.5			
	0.55	0.00	700.25
-29			
	0.57	0.00	748.25
-33			
	0.57	0.00	769.16
-37.5			
	0.54	0.00	751.22
-42.5			
	0.43	0.00	609.95
-47.5			
	0.45	0.00	591.08
-55			
	0.31	0.00	370.29
-65			
	0.10	0.00	152.60

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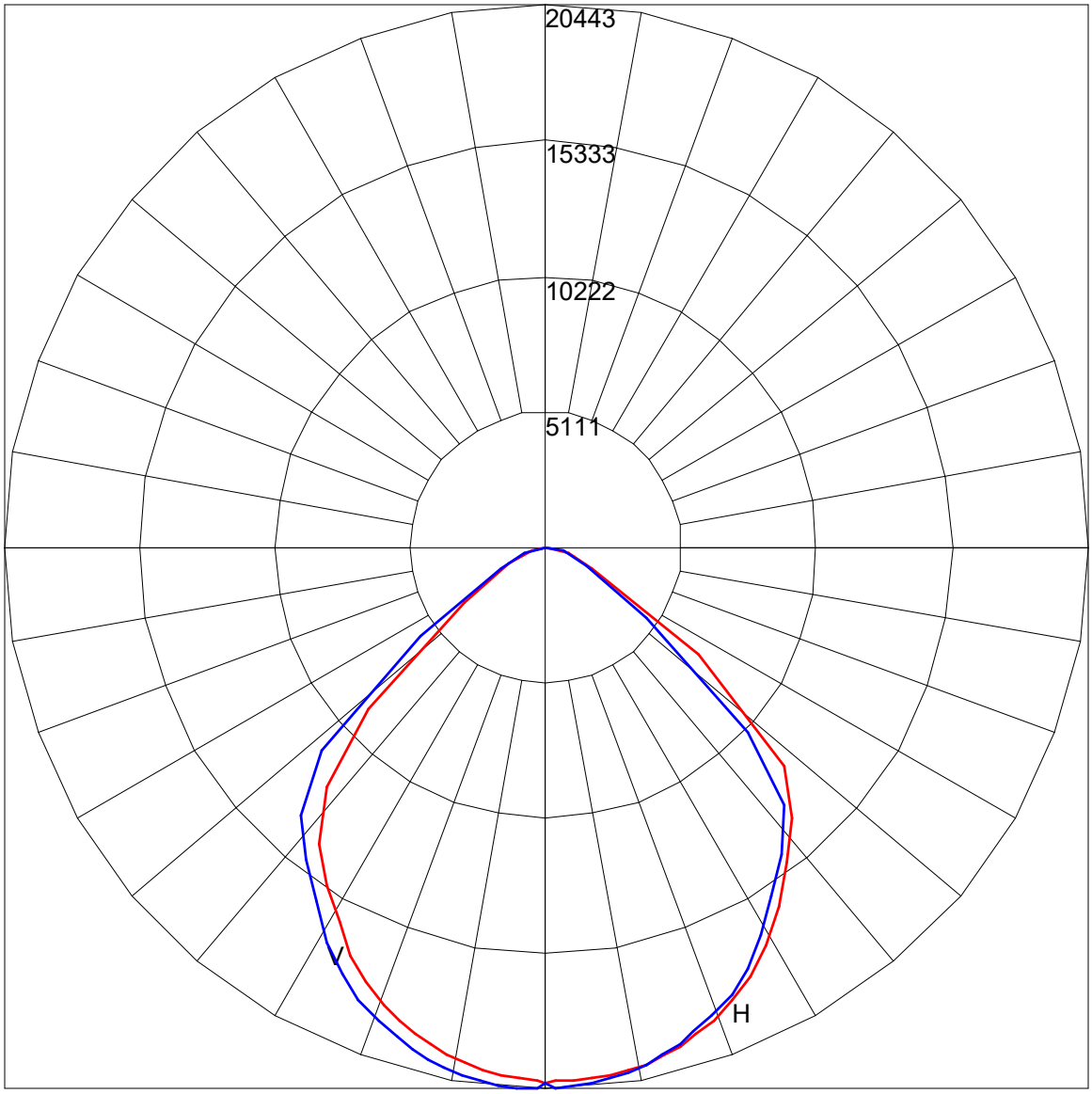
LUMENS TABULATION - (Cont.)

-75			
	0.02	0.00	44.14
-85			
	0.00	0.00	0.86
-90			
Total	16.50	0.09	20916.17

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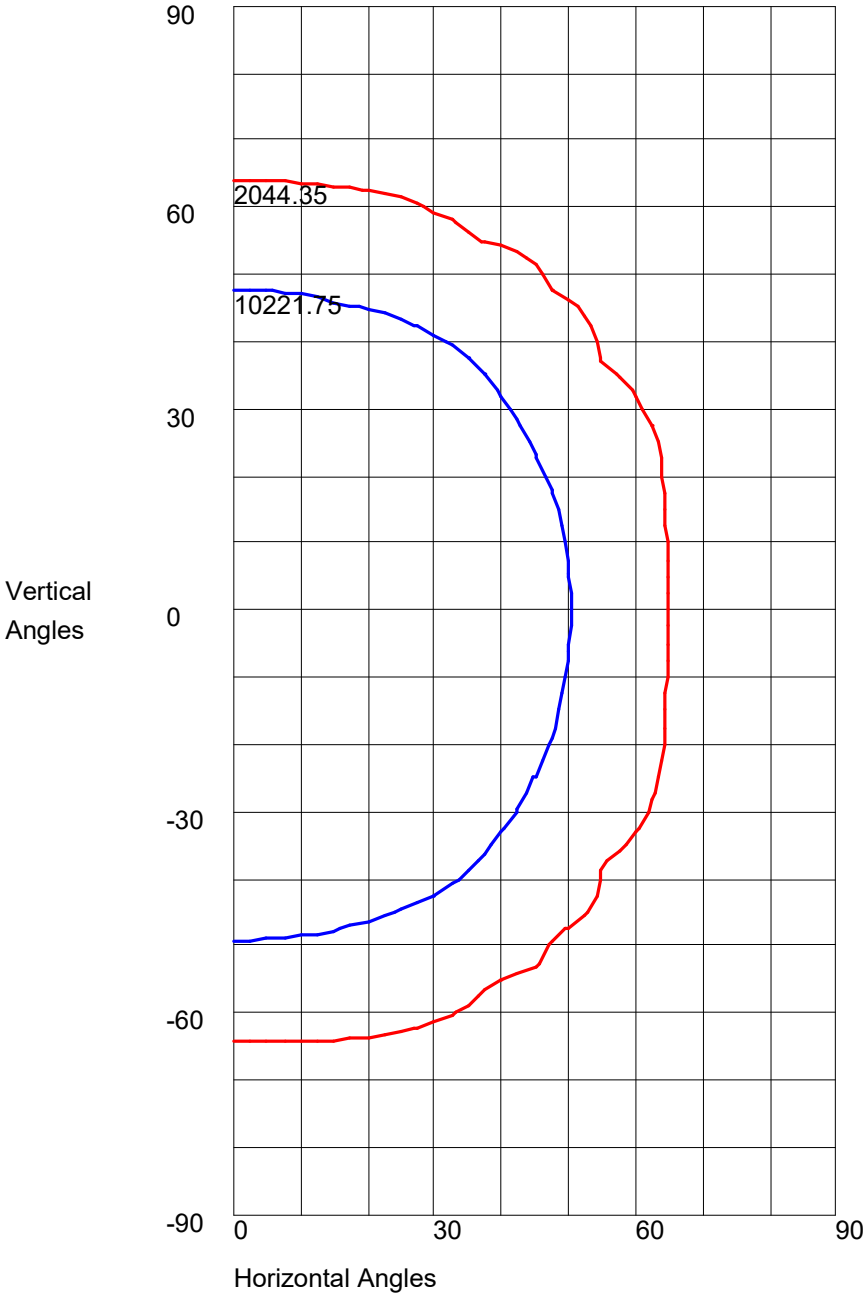
AXIAL CANDELA DISPLAY



Maximum Candela = 20443.496 Located At Horizontal Angle = 0, Vertical Angle =-1
H - Horizontal Axial Candela
V - Vertical Axial Candela

IES FLOOD REPORT
PHOTOMETRIC FILENAME : EPL-HB-300LED-RT-125DB.IES

ISOCANDELA CURVES



Maximum Candela = 20443.496 Located At Horizontal Angle = 0, Vertical Angle =-1
50% Maximum Candela = 10221.748
10% Maximum Candela = 2044.3496

IES FLOOD REPORT
PHOTOMETRIC FILENAME : EPL-HB-300LED-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-300LED-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	14728.242
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	41622.5 (1 lamp)
Total Lamp Lumens	41622.5
Beam Lumens	30739
Beam Efficiency	74 %
Field Lumens	41039
Field Efficiency	99 %
Spill Lumens	416
Luminaire Lumens	41454
Total Efficiency	100 %
Total Luminaire Watts	298.96
Ballast Factor	1.00

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IES FLOOD REPORT
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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	3.708	90	0
85	120.923	85	115.85
75	645.129	75	672.266
65	12354.392	65	11514.233
55	13310.324	55	13646.879
47.5	9382.508	47.5	9967.522
42.5	8802.568	42.5	8821.095
37.5	7716.565	37.5	8377.069
33	7234.025	33	7340.573
29	7057.753	29	7179.368
25.5	7068.669	25.5	7170.988
22.5	7150.847	22.5	7228.952
19.5	7231.488	19.5	7308.67
17	7300.214	17	7366.557
15	7355.64	15	7421.06
13	7397.614	13	7470.644
11	7438.742	11	7509.235
9	7512.618	9	7565.507
7	7610.786	7	7654.451
5	7692.196	5	7748.468
3	7740.012	3	7815.579
1	7758.539	1	7847.405
0	7774.221	0	7774.221
-1	7755.079	-1	7846.637
-3	7719.102	-3	7823.959
-5	7638.538	-5	7763.535
-7	7543.675	-7	7676.206
-9	7457.191	-9	7578.038
-11	7409.376	-11	7512.618
-13	7364.865	-13	7471.413
-15	7310.361	-15	7419.446
-17	7255.781	-17	7359.792
-19.5	7197.894	-19.5	7299.445
-22.5	7123.173	-22.5	7220.572
-25.5	7085.427	-25.5	7166.837
-29	7106.414	-29	7171.834
-33	7247.325	-33	7314.513
-37.5	8433.264	-37.5	8097.631
-42.5	8683.413	-42.5	8758.981
-47.5	10065.69	-47.5	9825.689
-55	13782.024	-55	13766.111
-65	10643.17	-65	11993.467
-75	654.431	-75	695.789
-85	98.168	-85	121.461
-90	0	-90	3.784

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CANDELA TABULATION
Maximum Candela = 14728.242
Beam Edge = 7364.121 Cd (50% of Max.)
Field Edge = 1472.8242 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	0.530	1.590	2.122	1.061	0.265	0.299	0.897	1.435	1.914
85.0	0.001	0.630	2.085	6.902	23.527	32.538	41.682	58.358	71.312	82.502
75.0	0.001	0.674	61.872	125.605	177.263	216.402	250.821	311.484	363.672	406.833
65.0	0.001	2.050	136.851	281.114	418.869	522.558	875.482	2648.016	*4710.769	*6590.411 *
55.0	0.001	17.896	221.911	471.698	2814.492	*7129.711	*9458.155	*11527.833	*13146.875	*13880.362 *
47.5	0.001	37.929	301.601	758.735	8078.718	*12078.056	*13650.146	*14339.497	*13975.053	*13090.173 *
42.5	0.001	48.382	357.397	1821.483	*10803.856	*13697.424	*14147.639	*13401.008	*12082.473	*10821.529 *
37.5	0.001	57.521	413.209	3711.596	*12625.669	*14008.324	*13219.133	*11467.566	*10077.610	*9108.792 *
33.0	0.001	65.505	461.649	5498.448	*13462.896	*13564.004	*11778.989	9925.339	*8865.979	*8446.341 *
29.0	0.001	73.079	498.594	6819.323	*13809.615	*12781.619	*10557.444	8968.252	*8429.659	*8801.026 *
25.5	0.000	78.959	527.543	7955.293	*13945.889	*12020.631	9722.437	*8533.317	*8698.736	*8044.195 *
22.5	0.000	83.079	551.182	8570.142	*13979.535	*11470.296	9149.487	*8406.328	*8586.291	*7440.650 *
19.5	0.000	86.738	572.049	9164.847	*13953.056	*10992.381	8898.468	*8619.175	*7686.469	*7150.710 *
17.0	0.000	89.423	586.893	9528.809	*13918.371	*10678.050	8744.578	*8819.592	*7351.348	*7063.469 *
15.0	0.000	91.326	599.031	9804.793	*13879.476	*10469.241	8650.465	*8878.653	*7219.421	*7022.587 *
13.0	0.000	93.004	608.760	10047.637	*13832.537	*10313.415	8606.909	*8768.838	*7192.958	*7002.107 *
11.0	0.000	98.184	618.799	10252.934	*13800.776	*10191.758	8602.115	*8573.135	*7172.141	*7016.014 *
9.0	0.000	98.181	627.766	10393.534	*13776.321	*10092.775	8600.160	*8441.219	*7171.210	*7030.403 *
7.0	0.000	98.178	635.643	10503.633	*13754.036	*10031.534	8607.535	*8366.458	*7182.440	*7046.587 *
5.0	0.000	98.175	645.980	10582.817	*13745.778	*10007.455	8628.635	*8351.059	*7194.205	*7063.094 *
3.0	0.000	98.172	649.355	10666.532	*13737.559	9977.923	*8644.267	*8340.789	*7211.017	*7079.464 *
1.0	0.000	98.170	652.738	10650.962	*13767.191	*10036.403	8670.347	*8376.163	*7232.572	*7096.660 *
0.0	0.000	98.168	654.431	10643.170	*13782.024	*10065.690	8683.413	*8433.264	*7247.325	*7106.414 *
-1.0	0.000	98.168	652.788	10650.995	*13779.307	*10049.253	8675.558	*8414.892	*7239.351	*7101.436 *
-3.0	0.000	98.147	649.504	10666.632	*13773.878	*10016.431	8659.881	*8461.713	*7231.556	*7093.860 *
-5.0	0.000	98.134	646.226	10582.298	*13806.533	*10072.859	8656.324	*8566.427	*7229.004	*7087.280 *
-7.0	0.000	98.120	636.115	10501.987	*13839.317	*10124.622	8648.452	*8690.642	*7233.176	*7082.544 *
-9.0	0.000	98.106	628.478	10389.853	*13886.348	*10215.899	8657.329	*8873.453	*7240.436	*7079.504 *
-11.0	0.000	98.093	619.830	10246.065	*13932.641	*10348.411	8680.336	*9007.405	*7266.853	*7079.651 *
-13.0	0.000	92.894	610.203	10034.874	*13984.811	*10506.573	8711.338	*9086.092	*7342.532	*7082.027 *
-15.0	0.000	91.198	600.942	9783.790	*14049.022	*10702.314	8789.282	*9074.243	*7454.223	*7107.799 *
-17.0	0.000	89.279	589.368	9497.553	*14102.919	*10954.829	8925.396	*8917.964	*7766.752	*7157.406 *
-19.5	0.000	86.572	575.318	9118.295	*14155.302	*11325.942	9134.175	*8651.571	*8399.351	*7286.472 *
-22.5	0.000	82.886	555.090	8481.438	*14201.709	*11862.582	9451.126	*8521.456	*9029.070	*7691.696 *
-25.5	0.000	78.738	531.643	7833.358	*14189.567	*12481.521	*10061.872	8704.795	*8772.360	*8718.229 *
-29.0	0.000	72.826	502.333	6689.312	*14072.346	*13224.762	*10957.690	9202.553	*8534.965	*8948.651 *
-33.0	0.000	65.214	464.650	5313.910	*13705.973	*13963.246	*12222.046	*10237.564	9047.014	*8545.228 *
-37.5	0.000	57.188	415.860	3335.219	*12787.839	*14348.517	*13634.416	*11857.613	*10368.812	9309.425 *
-42.5	0.000	48.070	358.591	1609.494	*10788.089	*13934.689	*14505.864	*13803.689	*12480.109	*11194.874 *
-47.5	0.000	37.755	301.802	722.552	7850.140	*12152.598	*13832.544	*14674.817	*14388.419	*13544.792 *
-55.0	0.000	18.119	221.951	485.878	2457.700	*6874.250	*9333.893	*11503.421	*13219.137	*14049.536 *
-65.0	0.000	2.167	136.121	281.508	428.797	504.914	689.147	2360.021	*4386.397	*6385.313 *
-75.0	0.000	0.714	60.411	124.333	175.923	213.860	246.019	306.305	358.950	401.032
-85.0	0.000	0.664	2.209	7.498	25.135	32.582	41.141	57.011	69.561	80.212
-90.0	0.000	0.530	1.591	2.123	1.062	0.266	0.274	0.823	1.317	1.756

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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	2.332	2.691	2.332	2.033	1.794	1.555	1.316	1.076	0.837	0.598
85.0	91.476	98.784	101.495	103.757	105.533	107.256	111.361	112.177	112.993	113.809
75.0	442.419	468.219	496.552	521.781	542.285	563.345	584.468	603.907	621.723	642.276
65.0	8123.300	9202.790	10048.092	10451.160	10731.905	10944.479	11124.440	11259.026	11364.284	11441.047 *
55.0	14138.816	4172.109	4068.521	3964.509	3886.113	3811.243	3752.275	3704.259	3656.921	3630.761 *
47.5	12214.907	11507.779	10878.839	10418.140	10246.834	10108.876	9995.673	9929.636	9891.564	9881.811 *
42.5	9941.871	9342.959	8950.201	8732.989	8611.039	8596.993	8610.388	8631.729	8663.907	8713.287 *
37.5	8629.899	8465.666	8653.347	8801.380	8744.786	8528.633	8395.660	8321.895	8261.308	8264.501 *
33.0	8648.276	8660.173	8070.717	7619.024	7376.012	7252.044	7229.738	7229.774	7247.504	7266.203 *
29.0	8254.132	7576.520	7220.982	7121.607	7082.325	7063.473	7062.201	7081.428	7101.767	7122.867 *
25.5	7377.987	7152.621	7067.965	7045.905	7041.425	7046.292	7055.505	7076.088	7100.781	7123.216 *
22.5	7125.273	7053.859	7033.083	7038.430	7049.562	7067.702	7090.039	7115.391	7147.020	7178.252 *
19.5	7038.833	7018.858	7031.414	7049.786	7075.044	7109.331	7152.252	7192.560	7227.909	7257.158 *
17.0	7008.309	7014.294	7040.249	7071.318	7113.698	7160.557	7205.638	7245.864	7279.919	7313.254 *
15.0	6997.392	7017.957	7058.485	7107.183	7150.922	7196.480	7243.651	7285.717	7330.107	7364.845 *
13.0	6992.987	7027.121	7083.606	7142.906	7188.234	7230.726	7276.502	7328.247	7377.598	7417.807 *
11.0	6997.966	7041.905	7113.389	7176.518	7224.852	7266.665	7313.727	7369.124	7420.553	7459.979 *
9.0	7019.582	7061.733	7140.229	7205.549	7253.884	7305.939	7357.005	7403.840	7449.588	7495.093 *
7.0	7037.567	7084.114	7163.600	7227.916	7283.315	7340.787	7393.011	7433.793	7472.581	7543.649 *
5.0	7053.307	7102.066	7180.447	7244.277	7302.483	7362.527	7412.651	7456.437	7520.392	7586.462 *
3.0	7067.775	7113.533	7191.246	7253.855	7312.210	7371.100	7418.684	7474.945	7566.139	7651.471 *
1.0	7080.029	7121.458	7197.576	7257.478	7314.105	7369.857	7415.511	7469.394	7562.387	7665.018 *
0.0	7085.427	7123.173	7197.894	7255.781	7310.361	7364.865	7409.376	7457.191	7543.675	7638.538 *
-1.0	7083.086	7122.546	7197.778	7256.261	7311.201	7366.327	7409.762	7460.715	7550.612	7646.093 *
-3.0	7077.282	7116.465	7192.141	7250.423	7304.762	7360.640	7403.636	7449.705	7531.914	7603.504 *
-5.0	7070.114	7106.045	7182.848	7239.881	7292.504	7348.077	7391.790	7421.068	7471.210	7524.491 *
-7.0	7063.126	7093.917	7169.269	7225.525	7270.607	7317.828	7362.454	7390.529	7412.652	7465.539 *
-9.0	7053.922	7079.381	7147.025	7198.366	7235.887	7279.658	7323.159	7356.831	7386.084	7411.122 *
-11.0	7043.276	7064.510	7113.155	7166.483	7203.818	7237.011	7276.480	7319.067	7354.430	7378.380 *
-13.0	7040.833	7051.847	7079.051	7128.496	7164.678	7195.592	7232.234	7271.515	7308.670	7341.049 *
-15.0	7044.002	7042.934	7055.051	7086.220	7124.030	7159.223	7194.514	7224.626	7255.317	7297.986 *
-17.0	7056.615	7037.533	7044.169	7051.059	7079.565	7118.687	7154.075	7182.483	7205.792	7254.537 *
-19.5	7096.186	7041.836	7036.003	7038.811	7043.982	7064.595	7094.358	7125.440	7161.717	7205.809 *
-22.5	7212.381	7090.811	7039.847	7032.093	7033.167	7034.078	7039.757	7051.372	7092.191	7133.159 *
-25.5	7627.062	7233.846	7102.305	7053.549	7037.326	7029.607	7026.710	7041.898	7068.180	7096.032 *
-29.0	8881.872	7842.479	7365.370	7199.300	7131.166	7085.387	7067.044	7077.155	7093.770	7113.099 *
-33.0	8731.238	9118.007	8653.683	8004.707	7687.277	7468.572	7348.419	7306.100	7289.858	7282.616 *
-37.5	8767.594	8566.820	8711.774	9002.072	9185.147	9214.172	9091.261	8863.060	8553.487	8374.053 *
-42.5	10264.566	9609.567	9190.090	8914.838	8751.891	8669.859	8652.195	8651.867	8666.041	8695.412 *
-47.5	12692.159	11989.303	11344.729	10883.854	10613.589	10393.363	10200.534	10062.433	9957.399	9884.578 *
-55.0	14374.600	4427.264	4345.978	4265.647	4196.864	4117.097	4044.208	3976.115	3900.752	3841.433 *
-65.0	7974.956	9112.838	10032.950	10509.532	10846.138	11114.449	11346.513	11528.694	11680.611	11803.575 *
-75.0	433.835	456.729	486.662	514.595	537.432	563.693	589.719	613.435	634.994	659.434
-85.0	88.571	95.141	99.126	102.384	104.959	107.486	112.257	113.930	115.603	117.277
-90.0	2.140	2.470	2.645	2.791	2.908	3.025	3.142	3.258	3.375	3.492

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	0.359	0.120	0.000	0.004	0.010	0.017	0.024	0.031	0.038	0.045
85.0	114.626	115.442	115.850	113.974	110.222	106.470	102.718	98.966	95.215	88.290
75.0	654.270	666.267	672.266	662.174	641.993	621.817	594.530	570.161	545.078	519.416
65.0	11519.050	11515.839	11514.233	11477.319	11403.512	11243.992	11082.438	10886.457	10653.572	10378.826 *

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CANDELA TABULATION - (Cont.)

55.0	13606.193	13633.312	13646.879	13615.098	13551.574	13536.128	13519.678	13519.697	13524.158	13538.806 *
47.5	9867.418	9934.131	9967.522	9923.659	9836.022	9831.669	9824.328	9844.081	9887.645	9980.700 *
42.5	8759.034	8800.388	8821.095	8786.422	8717.175	8645.080	8570.589	8510.774	8463.907	8433.069 *
37.5	8286.662	8337.121	8377.069	8309.984	8201.796	8112.943	8032.452	8039.996	8086.795	8263.929 *
33.0	7290.801	7320.780	7340.573	7315.304	7274.357	7238.755	7208.697	7178.972	7168.201	7171.762 *
29.0	7145.174	7167.525	7179.368	7157.916	7116.618	7076.096	7037.111	6999.430	6964.729	6974.692 *
25.5	7143.755	7162.413	7170.988	7151.331	7110.705	7068.742	7025.842	6981.868	6954.400	6954.511 *
22.5	7202.009	7221.635	7228.952	7208.786	7163.854	7115.818	7064.118	7008.360	6995.504	6982.236 *
19.5	7281.321	7301.184	7308.670	7287.336	7239.614	7187.600	7132.755	7097.270	7074.145	7050.040 *
17.0	7339.607	7359.681	7366.557	7343.619	7292.415	7237.312	7179.663	7171.967	7150.142	7121.965 *
15.0	7393.294	7414.733	7421.060	7396.159	7339.187	7276.544	7236.273	7223.291	7206.613	7180.857 *
13.0	7444.383	7464.838	7470.644	7442.174	7379.021	7315.094	7294.086	7278.740	7259.410	7228.170 *
11.0	7485.203	7504.556	7509.235	7477.269	7405.481	7351.895	7342.366	7328.915	7305.935	7264.984 *
9.0	7538.987	7563.136	7565.507	7527.265	7436.714	7400.300	7383.581	7366.105	7337.342	7294.909 *
7.0	7619.905	7653.532	7654.451	7606.690	7494.278	7485.066	7444.672	7393.126	7362.531	7320.805 *
5.0	7684.802	7746.340	7748.468	7680.019	7598.845	7579.644	7499.077	7422.871	7381.506	7345.657 *
3.0	7715.181	7799.029	7815.579	7699.088	7683.137	7623.267	7532.181	7455.474	7403.688	7371.559 *
1.0	7742.419	7792.846	7847.405	7725.224	7714.595	7673.695	7593.290	7499.942	7430.135	7391.012 *
0.0	7719.102	7755.079	7774.221	7758.539	7740.012	7692.196	7610.786	7512.618	7438.742	7397.614 *
-1.0	7713.556	7717.427	7846.637	7799.111	7737.779	7686.723	7604.152	7509.782	7440.460	7401.809 *
-3.0	7648.156	7712.406	7823.959	7788.802	7753.347	7666.444	7563.959	7484.811	7436.711	7402.521 *
-5.0	7592.883	7698.917	7763.535	7741.170	7689.374	7654.990	7555.872	7474.719	7436.673	7396.277 *
-7.0	7518.994	7631.230	7676.206	7657.965	7600.859	7571.975	7520.774	7464.336	7430.517	7383.210 *
-9.0	7461.435	7544.082	7578.038	7567.140	7529.125	7502.220	7477.206	7449.561	7417.050	7367.919 *
-11.0	7427.378	7486.492	7512.618	7506.368	7488.530	7470.010	7449.569	7426.314	7395.697	7356.360 *
-13.0	7398.169	7449.250	7471.413	7467.790	7453.931	7432.175	7410.018	7386.815	7368.147	7335.205 *
-15.0	7351.427	7399.725	7419.446	7416.137	7401.595	7383.638	7365.525	7351.097	7327.068	7299.861 *
-17.0	7300.407	7341.967	7359.792	7359.045	7351.576	7340.024	7323.641	7307.629	7282.212	7249.425 *
-19.5	7246.023	7283.143	7299.445	7298.770	7292.336	7281.103	7263.899	7242.694	7214.609	7184.478 *
-22.5	7171.053	7205.760	7220.572	7219.100	7210.884	7198.936	7185.728	7171.827	7159.225	7143.401 *
-25.5	7125.017	7153.145	7166.837	7165.798	7163.090	7159.771	7154.844	7149.194	7145.121	7141.867 *
-29.0	7135.295	7159.068	7171.834	7170.608	7170.336	7172.698	7179.437	7190.843	7212.237	7234.844 *
-33.0	7288.829	7302.942	7314.513	7317.806	7333.576	7357.617	7393.885	7435.515	7493.505	7595.196 *
-37.5	8217.286	8113.859	8097.631	8122.131	8242.474	8417.123	8615.551	8917.965	9166.702	9318.375 *
-42.5	8726.700	8748.210	8758.981	8754.450	8745.402	8731.226	8722.305	8739.745	8782.906	8848.610 *
-47.5	9809.005	9820.124	9825.689	9836.819	9859.057	9971.916	10084.808	10230.295	10406.389	10629.063 *
-55.0	13779.206	13770.478	13766.111	13783.503	13818.266	13902.453	13980.688	14069.534	14154.486	14242.775 *
-65.0	11926.686	11971.203	11993.467	11955.483	11879.535	11717.953	11551.332	11346.409	11099.280	10805.531 *
-75.0	673.973	688.517	695.789	686.547	668.063	649.584	623.836	601.292	578.235	554.867
-85.0	118.951	120.624	121.461	119.431	115.370	111.309	107.249	103.189	99.129	91.961
-90.0	3.609	3.726	3.784	3.619	3.289	2.960	2.630	2.300	1.971	1.641

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	0.052	0.059	0.068	0.078	0.519	1.033	1.621	2.282	3.016	3.016
85.0	83.693	79.063	73.263	66.549	67.673	68.459	69.095	70.280	70.279	65.361
75.0	494.505	469.509	439.247	409.901	401.579	388.427	368.457	342.042	47.335	271.157
65.0	10067.896	9688.977	9163.602	8509.133	7875.441	6761.792	5475.012	3882.148	2159.524	798.693
55.0	13553.347	13563.565	13598.581	13745.168	13860.684	13878.820	13586.063	12591.849	10823.602	8521.320 *
47.5	10095.401	10236.425	10554.970	11008.475	11565.356	12293.429	13165.055	14082.182	14111.348	12936.136 *
42.5	8441.550	8538.471	8711.957	8985.413	9405.110	10029.742	10999.244	12524.025	13935.901	14080.361 *
37.5	8576.712	8691.388	8588.424	8354.962	8365.376	8624.199	9327.891	10725.210	12761.818	14077.762 *
33.0	7233.748	7314.797	7478.230	7932.358	8749.475	8438.310	8544.970	9495.596	11421.176	13562.586 *
29.0	7005.815	7049.598	7124.583	7237.650	7451.885	8409.555	8460.087	8795.752	10390.070	12828.147 *
25.5	6956.461	6964.596	6994.689	7071.872	7213.403	7547.568	8872.484	8506.482	9712.066	12065.132 *

CANDELA TABULATION - (Cont.)

22.5	6974.089	6969.873	6968.778	7001.863	7105.028	7306.106	8312.829	8482.311	9259.560	11397.391
19.5	7022.373	6993.638	6981.640	6978.071	7034.062	7213.769	7661.105	8801.647	8929.085	10824.519
17.0	7085.766	7048.046	6997.398	6981.192	6999.462	7144.797	7468.271	9009.964	8732.676	10431.841
15.0	7144.818	7089.221	7028.005	6988.018	6988.224	7103.339	7381.939	8967.895	8617.692	10178.406
13.0	7184.390	7131.915	7061.378	6998.907	6984.095	7067.558	7334.676	8679.147	8561.375	9971.858
11.0	7218.331	7166.379	7095.620	7014.047	6988.013	7046.436	7290.763	8307.813	8553.739	9792.521
9.0	7243.250	7193.435	7126.633	7038.498	7002.490	7035.459	7262.329	8026.229	8578.449	9652.353
7.0	7267.162	7214.861	7157.964	7069.605	7017.660	7033.590	7242.517	7846.828	8624.422	9545.729
5.0	7298.318	7244.727	7184.130	7099.452	7033.109	7036.949	7228.854	7785.240	8690.795	9469.107
3.0	7326.162	7271.587	7206.526	7124.176	7048.568	7043.610	7225.614	7735.633	8764.282	9389.675
1.0	7348.408	7293.036	7224.952	7144.096	7062.726	7052.232	7228.618	7711.851	8789.789	9384.900
0.0	7355.640	7300.214	7231.488	7150.847	7068.669	7057.753	7234.025	7716.565	8802.568	9382.508
-1.0	7357.168	7301.554	7233.696	7151.482	7071.168	7062.325	7241.657	7753.406	8794.348	9399.869
-3.0	7352.360	7297.130	7232.578	7146.416	7074.255	7074.420	7265.593	7862.936	8777.942	9434.534
-5.0	7341.324	7287.845	7226.968	7136.680	7076.939	7089.821	7297.978	8005.061	8719.659	9545.546
-7.0	7326.019	7276.239	7216.012	7120.971	7080.232	7110.969	7342.493	8166.972	8672.868	9654.847
-9.0	7319.606	7269.986	7195.580	7108.455	7082.998	7140.969	7392.174	8440.266	8649.504	9796.640
-11.0	7306.747	7255.201	7176.108	7102.046	7091.112	7184.125	7451.992	8776.586	8649.983	9975.371
-13.0	7288.672	7230.167	7152.492	7102.819	7104.088	7233.135	7553.687	9114.391	8680.224	10198.442
-15.0	7257.709	7197.096	7132.110	7103.148	7125.180	7281.298	7692.970	9290.658	8767.663	10452.311
-17.0	7207.888	7161.981	7118.151	7106.407	7154.744	7345.117	7937.461	9192.431	8933.437	10754.438
-19.5	7154.883	7128.894	7116.641	7125.176	7210.846	7434.934	8355.221	8865.748	9195.105	11208.807
-22.5	7132.809	7124.402	7127.839	7176.403	7311.232	7597.246	9034.636	8636.033	9607.411	11868.692
-25.5	7148.008	7159.388	7201.209	7283.712	7459.443	8120.626	9169.088	8734.441	10126.117	12607.845
-29.0	7277.021	7327.427	7407.724	7542.544	7943.500	9156.965	8663.639	9123.893	10899.824	13394.752
-33.0	7687.708	7847.733	8270.076	8895.364	9177.318	8682.891	8852.497	9942.750	12018.674	14099.120
-37.5	9283.182	9133.127	8926.560	8688.135	8724.154	9022.945	9800.034	11319.816	13385.726	14570.818
-42.5	8957.746	9108.098	9292.845	9581.275	10042.262	10714.049	11693.667	13200.311	14531.885	14456.469
-47.5	10903.968	11223.701	11520.770	11980.263	12491.368	13131.052	13921.516	14728.242	14568.616	13227.184
-55.0	14318.850	14384.552	14459.502	14555.668	14602.031	14527.637	14141.121	13060.166	11058.814	8552.461
-65.0	10468.623	10070.832	9527.486	8724.914	7991.856	6797.119	5393.895	3717.179	2008.384	741.717
-75.0	532.506	509.809	482.298	452.399	437.404	420.320	391.177	358.695	323.340	281.367
-85.0	87.042	82.073	75.820	68.445	69.349	70.168	70.870	72.011	71.062	65.667
-90.0	1.311	0.982	0.570	0.076	0.498	0.991	1.554	2.187	2.890	2.880

Vert. Angles	**Horizontal Angles**				
	55.0	**65.0**	**75.0**	**85.0**	**90.0**
90.0	1.914	0.445	1.283	2.888	3.690
85.0	46.616	20.818	7.188	3.642	3.692
75.0	198.081	106.839	70.495	14.257	3.695
65.0	427.311	267.936	127.633	41.669	3.698
55.0	3727.506	440.541	221.139	64.207	3.701
47.5	8978.306	923.582	305.930	77.138	3.702
42.5	11515.763	2640.032	361.432	84.645	3.704
37.5	13144.188	5132.676	409.608	92.340	3.705
33.0	13826.706	7020.345	448.767	96.991	3.705
29.0	14081.941	8443.806	477.143	101.378	3.706
25.5	14145.581	9571.385	501.343	104.905	3.707
22.5	14112.713	10242.297	519.158	107.921	3.707
19.5	14009.403	10803.211	538.729	110.658	3.707
17.0	13908.524	11177.766	556.766	112.717	3.708
15.0	13815.617	11447.609	571.655	114.214	3.708
13.0	13712.761	11667.264	585.275	115.576	3.708
11.0	13623.050	11854.601	599.335	119.083	3.708
9.0	13539.532	11998.772	611.651	119.415	3.708

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Results derived from content of manufacturers photometric file.

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CANDELA TABULATION - (Cont.)

7.0	13455.5101	2117.9826	22.207	119.748	3.708
5.0	13390.5031	2213.2806	36.609	120.083	3.708
3.0	13323.5611	2308.7146	40.012	120.418	3.708
1.0	13314.7401	2339.1576	43.423	120.923	3.708
0.0	13310.3241	2354.3926	45.129	120.923	3.708
-1.0	13331.5591	2340.8086	43.523	120.760	3.708
-3.0	13373.9771	2313.6636	40.314	120.435	3.708
-5.0	13472.3271	2221.0786	37.112	120.111	3.708
-7.0	13567.0271	2128.2926	23.106	119.788	3.708
-9.0	13677.7501	2010.9926	12.969	119.466	3.708
-11.0	13787.7601	1867.9686	01.190	119.145	3.708
-13.0	13902.0411	1678.5705	87.813	115.642	3.708
-15.0	14027.9791	1454.5085	74.962	114.288	3.707
-17.0	14140.8241	1179.0295	60.854	112.796	3.707
-19.5	14261.9551	0795.9255	43.890	110.743	3.707
-22.5	14373.4781	0186.8145	25.194	108.011	3.706
-25.5	14401.3829	516.351 *	507.673	104.994	3.706
-29.0	14317.4928	337.249 *	485.472	101.462	3.705
-33.0	14014.5366	815.549 *	456.491	97.063	3.705
-37.5	13275.1934	971.544 *	416.764	92.392	3.704
-42.5	11618.3802	366.357 *	366.448	84.798	3.702
-47.5	8910.337 *	909.078	311.202	77.334	3.701
-55.0	3519.805 *	462.550	224.286	64.300	3.699
-65.0	452.011	279.232	129.451	41.957	3.696
-75.0	204.784	109.954	70.948	14.526	3.693
-85.0	47.660	23.017	8.019	3.591	3.690
-90.0	1.799	0.360	1.232	2.871	3.688

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LUMEN TABULATION
Average Of Right And Left Sides
Total Luminaire Lumens (one side of beam only) = 20727.1
Total Field Lumens (one side of beam only) = 20519.28
* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	0	1	3	5	7	9	11	13	15	17
90	0.09	0.17	0.17	0.17	0.16	0.16	0.15	0.14	0.14	0.16
85	1.19	2.34	2.28	2.21	2.12	2.04	1.95	1.85	1.76	2.07
75	18.54 *	36.94 *	36.59 *	36.06 *	35.43 *	34.67 *	33.75 *	32.69 *	31.45 *	37.32 *
65	38.29 *	76.35 *	75.91 *	75.34 *	74.65 *	73.81 *	72.79 *	71.61 *	70.20 *	85.47 *
55	26.94 *	53.63 *	53.41 *	53.26 *	53.10 *	52.96 *	52.85 *	52.77 *	52.68 *	65.96 *
47.5	14.28 *	28.40 *	28.20 *	28.03 *	27.85 *	27.70 *	27.59 *	27.53 *	27.57 *	34.81 *
42.5	13.07 *	25.95 *	25.71 *	25.47 *	25.27 *	25.15 *	25.09 *	25.19 *	25.30 *	31.49 *
37.5	10.75 *	21.35 *	21.17 *	21.00 *	20.88 *	20.81 *	20.81 *	21.00 *	21.20 *	26.53 *
33	8.83 *	17.59 *	17.48 *	17.36 *	17.22 *	17.07 *	16.95 *	16.89 *	16.92 *	21.33 *
29	7.64 *	15.22 *	15.13 *	15.02 *	14.89 *	14.74 *	14.62 *	14.51 *	14.42 *	17.90 *
25.5	6.57 *	13.10 *	13.01 *	12.91 *	12.79 *	12.66 *	12.55 *	12.43 *	12.31 *	15.21 *
22.5	6.64 *	13.22 *	13.13 *	13.02 *	12.89 *	12.76 *	12.63 *	12.49 *	12.34 *	15.20 *
19.5	5.58 *	11.12 *	11.04 *	10.95 *	10.85 *	10.74 *	10.62 *	10.48 *	10.33 *	12.70 *
17	4.50 *	8.96 *	8.90 *	8.82 *	8.74 *	8.66 *	8.56 *	8.45 *	8.32 *	10.20 *
15	4.53 *	9.02 *	8.95 *	8.88 *	8.80 *	8.71 *	8.61 *	8.50 *	8.37 *	10.25 *
13	4.56 *	9.07 *	9.00 *	8.93 *	8.86 *	8.77 *	8.66 *	8.54 *	8.41 *	10.30 *
11	4.59 *	9.12 *	9.05 *	8.98 *	8.91 *	8.82 *	8.71 *	8.58 *	8.44 *	10.34 *
9	4.63 *	9.20 *	9.12 *	9.04 *	8.95 *	8.86 *	8.75 *	8.62 *	8.48 *	10.38 *
7	4.68 *	9.30 *	9.21 *	9.11 *	9.00 *	8.89 *	8.78 *	8.65 *	8.50 *	10.42 *
5	4.73 *	9.38 *	9.29 *	9.17 *	9.04 *	8.91 *	8.80 *	8.67 *	8.53 *	10.45 *
3	4.75 *	9.42 *	9.34 *	9.22 *	9.07 *	8.93 *	8.81 *	8.69 *	8.55 *	10.47 *
1	2.37 *	4.71 *	4.68 *	4.62 *	4.54 *	4.47 *	4.41 *	4.35 *	4.28 *	5.24 *
0	2.37 *	4.71 *	4.68 *	4.62 *	4.54 *	4.47 *	4.41 *	4.35 *	4.28 *	5.24 *
-1	4.75 *	9.42 *	9.34 *	9.22 *	9.07 *	8.94 *	8.82 *	8.70 *	8.55 *	10.48 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	4.73 *	9.38 *	9.29 *	9.17 *	9.04 *	8.92 *	8.82 *	8.69 *	8.54 *	10.47 *
-5	4.69 *	9.30 *	9.21 *	9.11 *	9.01 *	8.91 *	8.80 *	8.67 *	8.53 *	10.45 *
-7	4.64 *	9.21 *	9.13 *	9.05 *	8.97 *	8.88 *	8.77 *	8.65 *	8.51 *	10.43 *
-9	4.59 *	9.13 *	9.07 *	9.00 *	8.93 *	8.84 *	8.74 *	8.62 *	8.48 *	10.40 *
-11	4.56 *	9.08 *	9.02 *	8.96 *	8.89 *	8.80 *	8.70 *	8.58 *	8.45 *	10.36 *
-13	4.53 *	9.03 *	8.97 *	8.91 *	8.83 *	8.75 *	8.66 *	8.55 *	8.41 *	10.32 *
-15	4.50 *	8.97 *	8.92 *	8.85 *	8.78 *	8.70 *	8.61 *	8.50 *	8.37 *	10.28 *
-17	5.58 *	11.13 *	11.07 *	10.99 *	10.90 *	10.80 *	10.68 *	10.55 *	10.41 *	12.81 *
-19.5	6.63 *	13.23 *	13.16 *	13.07 *	12.96 *	12.85 *	12.72 *	12.59 *	12.45 *	15.36 *
-22.5	6.57 *	13.11 *	13.05 *	12.97 *	12.88 *	12.78 *	12.67 *	12.57 *	12.46 *	15.41 *
-25.5	7.64 *	15.25 *	15.19 *	15.12 *	15.03 *	14.94 *	14.85 *	14.76 *	14.69 *	18.29 *
-29	8.82 *	17.62 *	17.58 *	17.53 *	17.48 *	17.44 *	17.43 *	17.49 *	17.62 *	22.45 *
-33	10.57 *	21.21 *	21.37 *	21.57 *	21.85 *	22.15 *	22.36 *	22.42 *	22.34 *	27.89 *
-37.5	12.84 *	25.75 *	25.88 *	26.04 *	26.29 *	26.57 *	26.72 *	26.68 *	26.48 *	32.67 *
-42.5	14.15 *	28.27 *	28.27 *	28.29 *	28.32 *	28.39 *	28.52 *	28.73 *	29.05 *	36.83 *
-47.5	26.96 *	53.93 *	54.05 *	54.26 *	54.44 *	54.64 *	54.85 *	55.09 *	55.33 *	69.44 *
-55	39.22 *	78.30 *	77.99 *	77.53 *	76.94 *	76.17 *	75.17 *	73.97 *	72.51 *	88.22 *
-65	19.30 *	38.39 *	37.97 *	37.35 *	36.63 *	35.77 *	34.75 *	33.56 *	32.20 *	38.09 *
-75	1.24	2.43	2.37	2.29	2.20	2.11	2.01	1.91	1.81	2.13
-85	0.09	0.19	0.18	0.18	0.17	0.16	0.16	0.15	0.14	0.17
-90										
Total	396.70	790.61	786.52	781.64	776.17	770.27	763.67	756.40	748.11	922.40

Vert. Angles	**Horizontal Angles**									
	19.5	**22.5**	**25.5**	**29**	**33**	**37.5**	**42.5**	**47.5**	**55**	**65**
90	0.18	0.17	0.19	0.19	0.19	0.18	0.15	0.16	0.10	0.03
85	2.30	2.14	2.31	2.37	2.31	1.74	1.34	1.84	1.34	0.52
75	41.31 *	36.97 *	36.71 *	32.72 *	25.32 *	15.33 *	6.92	5.41	3.81	1.53
65	98.64 *	93.52 *	100.82 *	101.85 *	94.52 *	78.68 *	54.22 *	43.51 *	16.83	2.82
55	79.60 *	79.99 *	93.22 *	104.76 *	111.65 *	109.99 *	89.54 *	86.09 *	37.35 *	3.56

LUMENS TABULATION - (Cont.)

47.5	42.62 *	43.81 *	52.93 *	62.95 *	73.14 *	80.33 *	73.10 *	82.32 *	43.28 *	4.86
42.5	37.35 *	37.30 *	44.38 *	52.91 *	63.38 *	74.49 *	73.97 *	92.84 *	58.37 *	9.66 *
37.5	31.77 *	31.84 *	36.79 *	41.96 *	49.37 *	59.57 *	63.22 *	87.03 *	63.68 *	13.52 *
33	26.15 *	26.93 *	31.84 *	35.71 *	40.00 *	47.43 *	52.15 *	77.11 *	63.10 *	15.44 *
29	21.44 *	21.67 *	26.16 *	30.73 *	33.91 *	38.37 *	42.43 *	66.07 *	59.08 *	15.84 *
25.5	18.02 *	17.87 *	21.02 *	25.38 *	28.71 *	31.39 *	34.24 *	55.27 *	52.78 *	15.00 *
22.5	17.94 *	17.64 *	20.40 *	24.03 *	27.93 *	30.86 *	32.67 *	53.98 *	54.10 *	15.98 *
19.5	14.94 *	14.63 *	16.78 *	19.17 *	22.88 *	25.72 *	26.32 *	44.08 *	45.86 *	13.96 *
17	11.97 *	11.69 *	13.35 *	15.08 *	18.21 *	20.53 *	20.59 *	34.75 *	37.07 *	11.52 *
15	12.00 *	11.69 *	13.31 *	14.96 *	18.02 *	20.33 *	20.29 *	34.36 *	37.35 *	11.79 *
13	12.04 *	11.70 *	13.29 *	14.91 *	17.72 *	20.02 *	20.08 *	34.02 *	37.57 *	12.03 *
11	12.08 *	11.72 *	13.30 *	14.89 *	17.42 *	19.74 *	19.94 *	33.75 *	37.74 *	12.22 *
9	12.12 *	11.76 *	13.32 *	14.88 *	17.22 *	19.56 *	19.85 *	33.53 *	37.85 *	12.36 *
7	12.16 *	11.79 *	13.34 *	14.89 *	17.12 *	19.51 *	19.81 *	33.37 *	37.94 *	12.48 *
5	12.20 *	11.82 *	13.37 *	14.90 *	17.09 *	19.52 *	19.80 *	33.24 *	38.02 *	12.58 *
3	12.23 *	11.85 *	13.39 *	14.92 *	17.08 *	19.55 *	19.83 *	33.20 *	38.07 *	12.63 *
1	6.12 *	5.93 *	6.71 *	7.47 *	8.56 *	9.80 *	9.93 *	16.62 *	19.05 *	6.32 *
0	6.12 *	5.93 *	6.71 *	7.48 *	8.57 *	9.81 *	9.94 *	16.63 *	19.05 *	6.32 *
-1	12.24 *	11.86 *	13.42 *	14.96 *	17.20 *	19.65 *	19.87 *	33.28 *	38.12 *	12.63 *
-3	12.23 *	11.85 *	13.42 *	14.98 *	17.32 *	19.74 *	19.89 *	33.40 *	38.11 *	12.58 *
-5	12.21 *	11.84 *	13.42 *	15.00 *	17.50 *	19.87 *	19.94 *	33.61 *	38.07 *	12.48 *
-7	12.18 *	11.83 *	13.43 *	15.04 *	17.73 *	20.06 *	20.03 *	33.85 *	38.03 *	12.36 *
-9	12.15 *	11.82 *	13.45 *	15.10 *	18.03 *	20.33 *	20.18 *	34.16 *	37.95 *	12.22 *
-11	12.12 *	11.81 *	13.47 *	15.19 *	18.35 *	20.62 *	20.39 *	34.52 *	37.81 *	12.03 *
-13	12.10 *	11.81 *	13.51 *	15.34 *	18.64 *	20.85 *	20.67 *	34.95 *	37.62 *	11.79 *
-15	12.08 *	11.83 *	13.57 *	15.60 *	18.84 *	20.96 *	21.07 *	35.43 *	37.36 *	11.51 *
-17	15.10 *	14.82 *	17.10 *	20.13 *	23.81 *	26.18 *	27.06 *	45.06 *	46.23 *	13.94 *
-19.5	18.16 *	17.93 *	20.91 *	25.39 *	29.16 *	31.52 *	33.77 *	55.33 *	54.52 *	15.91 *

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LUMENS TABULATION - (Cont.)

-22.5	18.32 *	18.28 *	21.94 *	26.68 *	29.63 *	32.30 *	35.56 *	56.80 *	53.16 *	14.88 *
-25.5	22.01 *	22.57 *	27.72 *	32.02 *	34.72 *	39.71 *	44.16 *	67.95 *	59.47 *	15.66 *
-29	27.76 *	28.44 *	33.20 *	36.77 *	41.19 *	49.34 *	54.25 *	79.16 *	63.33 *	15.12 *
-33	33.51 *	33.18 *	37.83 *	43.25 *	51.26 *	62.08 *	65.55 *	89.03 *	63.51 *	12.99 *
-37.5	38.69 *	38.73 *	46.22 *	55.20 *	66.12 *	77.45 *	76.29 *	94.47 *	57.76 *	9.00 *
-42.5	45.06 *	46.25 *	55.72 *	65.96 *	76.17 *	82.99 *	74.83 *	83.00 *	42.57 *	4.52
-47.5	83.67 *	83.82 *	97.21 *	108.59 *	115.03 *	112.37 *	90.44 *	85.13 *	36.11 *	3.55
-55	101.50 *	95.75 *	102.71 *	102.99 *	94.82 *	78.34 *	53.51 *	42.03 *	15.91	2.89
-65	41.88 *	37.13 *	36.54 *	32.02 *	24.16 *	14.59 *	6.74	5.36	3.91	1.55
-75	2.36	2.19	2.37	2.43	2.36	2.15	1.72	1.87	1.37	0.53
-85	0.18	0.17	0.19	0.19	0.19	0.18	0.15	0.16	0.10	0.03
-90										
Total	1086.8	1064.27	1210.98	1341.95	1462.57	1543.72	1456.4	1977.75	1640.37	431.11

Vert. Angles	**Horizontal Angles**		
	75	**85**	**90**	**Total**
90	0.01	0.00	3.06
85	0.11	0.00	38.14
75	0.30	0.01	539.78
65	0.55	0.01	1400.41
55	0.62	0.01	1313.95
47.5	0.52	0.01	831.83
42.5	0.60	0.01	792.96
37.5	0.61	0.01	684.86
33	0.59	0.01	584.11
29	0.55	0.01	500.35
25.5	0.49	0.01	423.71
22.5	0.51	0.01	420.37
19.5	0.44	0.01	349.19
17	0.36	0.01	279.23

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LUMENS TABULATION - (Cont.)

15	0.37	0.01	279.10
13	0.37	0.01	278.86
11	0.38	0.01	278.71
9	0.39	0.01	278.86
7	0.39	0.01	279.33
5	0.40	0.01	279.89
3	0.40	0.01	280.40
1	0.20	0.00	140.38
0	0.20	0.00	140.44
-1	0.40	0.01	280.92
-3	0.40	0.01	280.99
-5	0.39	0.01	281.04
-7	0.39	0.01	281.18
-9	0.38	0.01	281.59
-11	0.38	0.01	282.12
-13	0.37	0.01	282.61
-15	0.36	0.01	283.08
-17	0.44	0.01	354.78
-19.5	0.51	0.01	428.14
-22.5	0.49	0.01	432.50
-25.5	0.55	0.01	512.31
-29	0.59	0.01	600.63
-33	0.61	0.01	706.53
-37.5	0.61	0.01	816.48
-42.5	0.52	0.01	856.43
-47.5	0.62	0.01	1349.54
-55	0.55	0.01	1427.05
-65	0.30	0.01	548.22

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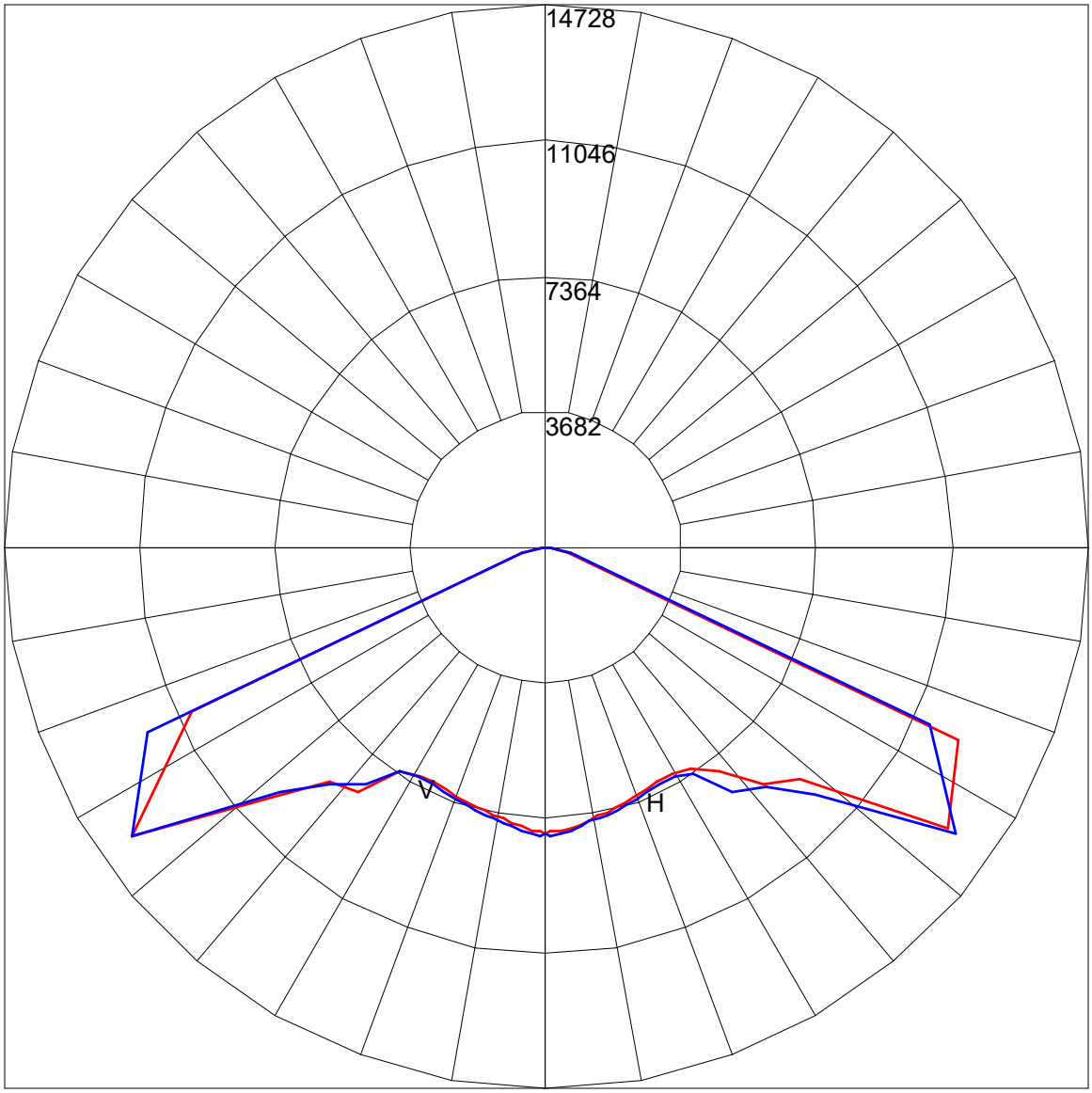
LUMENS TABULATION - (Cont.)

-75			
	0.11	0.00	39.93
-85			
	0.01	0.00	3.13
-90			
Total	18.34	0.36	20727.1

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AXIAL CANDELA DISPLAY

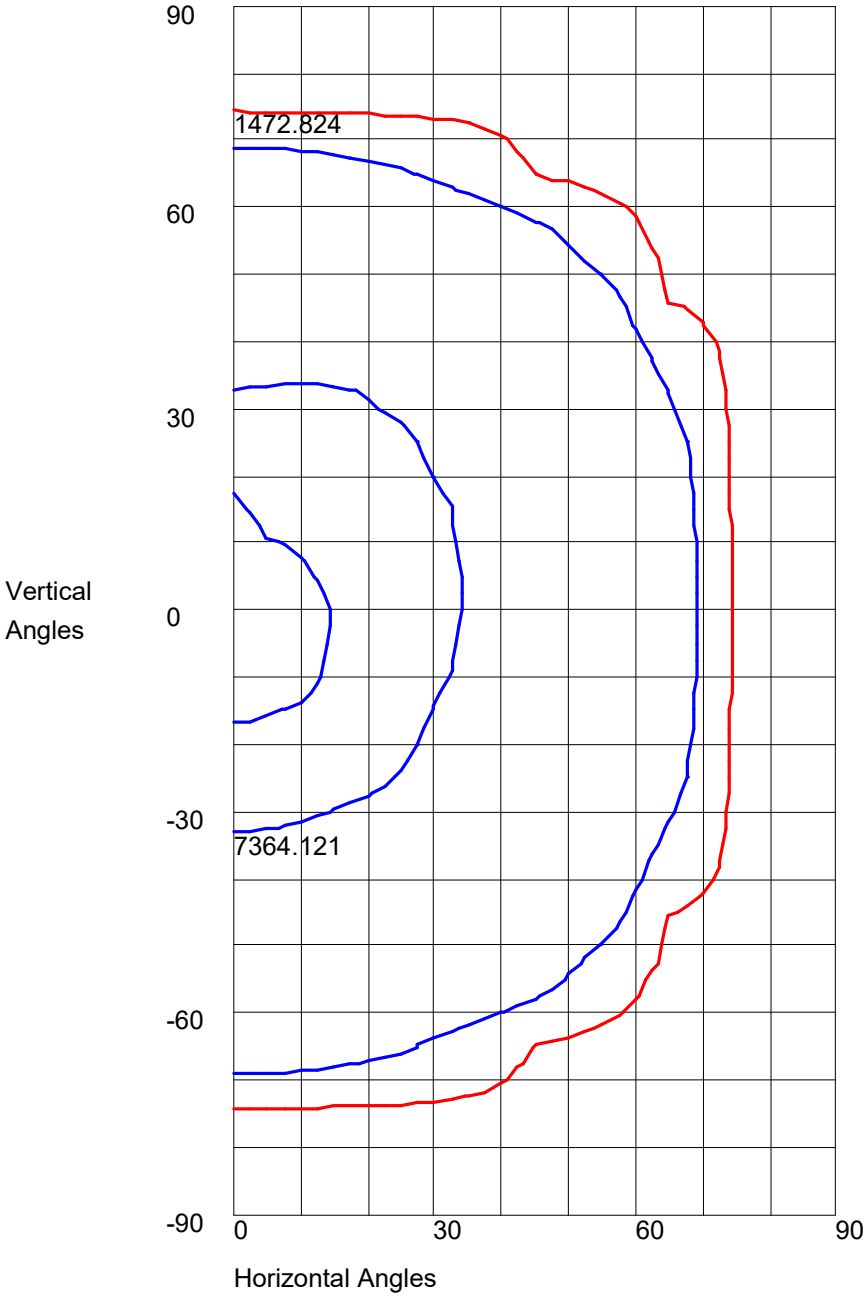


Maximum Candela = 14728.242 Located At Horizontal Angle = 37.5, Vertical Angle =-47.5
H - Horizontal Axial Candela
V - Vertical Axial Candela

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ISOCANDELA CURVES



Maximum Candela = 14728.242 Located At Horizontal Angle = 37.5, Vertical Angle =-47.5
50% Maximum Candela = 7364.121
10% Maximum Candela = 1472.8242