

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-B-H-835-ASY-TG-ITL90352 ITL89599.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90352 ITL89599.011 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/04/18

[ISSUEDATE]05/31/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-RG-4ft-B-H-835-ASY-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 48.5 WATTS

[_ABSOLUTE]LUMENS]4492

[OTHER]see www.finelite.com for source files ITL90352 and ITL89599. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4492
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	46.5
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14275	10226	8047
55	12844	8192	6278
65	11370	6271	4777
75	9670	4835	4288
85	7721	3860	3522

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	1188.987	1188.987	1188.987	1188.987	1188.987	1188.987	1188.987	1188.987	1188.987	1188.987
2.5	1187.432	1187.432	1186.654	1186.654	1185.876	1185.876	1185.099	1185.099	1184.321	1184.321
5.0	1181.988	1181.211	1180.433	1178.878	1177.322	1175.767	1173.434	1171.879	1170.324	1169.546
7.5	1172.657	1171.101	1169.546	1164.880	1160.215	1155.549	1151.661	1147.773	1146.217	1143.885
10.0	1159.437	1155.549	1150.883	1144.662	1137.664	1129.888	1122.111	1115.890	1112.780	1109.669
12.5	1143.107	1135.331	1127.555	1118.223	1107.336	1096.450	1085.563	1076.231	1071.566	1066.900
15.0	1122.111	1111.225	1100.338	1087.118	1072.343	1057.568	1042.794	1030.352	1024.131	1017.910
17.5	1098.783	1084.785	1070.788	1052.125	1032.684	1014.021	996.136	979.806	972.030	964.254
20.0	1071.566	1053.680	1036.572	1014.021	989.915	967.364	945.591	926.928	917.596	908.265
22.5	1038.905	1018.687	998.469	972.030	944.035	917.596	891.934	870.161	859.274	849.165
25.0	1005.468	981.361	958.033	927.705	895.823	865.495	836.723	812.617	801.730	790.843
27.5	968.919	941.702	915.263	881.048	845.277	811.839	781.512	755.073	743.408	731.744
30.0	930.038	900.488	870.939	834.390	794.732	758.183	724.745	696.751	685.864	674.200
32.5	887.269	856.942	826.614	786.955	744.186	704.527	668.756	639.984	629.098	618.211
35.0	844.500	812.617	779.957	737.965	692.863	652.426	615.878	585.551	573.886	561.444
37.5	800.953	766.737	733.299	689.752	642.317	600.326	563.777	533.450	521.786	510.121
40.0	755.850	720.857	685.087	640.762	592.549	550.558	514.787	484.460	473.573	461.909
42.5	710.748	674.977	639.207	593.327	544.337	502.345	467.352	438.580	427.693	416.806
45.0	664.868	628.320	591.772	545.892	496.902	455.688	422.250	395.033	384.924	374.815
47.5	618.211	582.440	546.670	500.790	451.799	412.141	380.258	353.819	345.265	336.711
50.0	572.331	536.560	500.790	455.688	408.252	369.371	339.822	315.715	307.939	300.163
52.5	529.562	492.236	455.688	412.141	366.261	330.490	303.273	281.500	274.501	267.503
55.0	485.237	447.911	410.585	369.371	326.602	292.387	268.280	248.840	243.396	237.175
57.5	441.690	405.142	368.594	328.935	287.721	256.616	235.620	218.512	213.847	208.403
60.0	398.921	363.150	327.380	290.054	251.950	223.178	205.293	190.518	185.852	181.186
62.5	356.929	322.714	287.721	252.728	217.735	192.851	176.521	164.079	159.413	155.525
65.0	316.493	283.055	250.395	217.735	185.852	163.301	149.304	137.639	135.306	132.974
67.5	275.279	244.174	213.847	185.075	156.302	137.639	127.530	119.754	118.976	118.199
70.0	237.175	208.403	178.853	153.192	129.086	113.533	108.090	104.202	103.424	102.646
72.5	200.627	173.410	146.971	125.197	105.757	94.870	91.760	89.427	87.871	87.094
75.0	164.856	139.972	115.866	99.536	86.316	78.540	76.207	73.874	73.097	73.097
77.5	132.974	110.423	87.094	75.430	67.653	62.987	61.432	59.877	59.099	59.099
80.0	101.869	82.428	62.210	54.434	50.545	48.213	46.657	45.880	45.880	45.880
82.5	71.541	57.544	43.547	38.881	36.548	34.215	33.438	32.660	32.660	32.660
85.0	44.325	35.771	27.217	24.106	22.551	21.773	20.996	20.218	20.218	20.218
87.5	18.663	15.553	11.664	10.109	9.332	9.332	8.554	8.554	8.554	8.554
90.0	0.000	0.000	0.000	0.000	6.264	10.439	7.308	4.698	2.088	0.000
92.5	40.714	41.236	40.714	38.626	34.972	32.884	31.318	28.708	25.055	12.527
95.0	81.428	82.472	81.428	78.818	76.208	73.598	69.944	63.681	52.719	30.796
97.5	123.707	124.751	123.185	123.185	123.185	121.619	114.834	101.784	80.384	50.109
100.0	160.245	162.855	165.987	173.817	179.558	176.948	164.421	141.454	107.526	69.944
102.5	205.657	211.399	221.838	238.019	246.893	239.585	216.618	179.558	132.581	89.257
105.0	267.772	278.733	300.134	319.969	323.622	306.919	268.815	214.530	156.070	109.092
107.5	363.814	376.342	398.786	412.358	409.226	378.429	318.925	245.327	177.992	129.449
110.0	486.478	492.741	506.834	512.576	495.351	442.110	360.682	271.947	198.871	149.806
112.5	607.575	611.229	618.536	610.185	571.037	493.263	393.045	295.958	219.228	170.163
115.0	725.019	723.975	719.277	690.568	628.454	531.889	419.665	317.359	240.107	191.564
117.5	819.495	811.666	794.963	750.595	669.690	558.510	440.022	337.194	260.986	213.486
120.0	886.830	875.868	848.204	789.743	694.744	576.779	457.769	356.507	282.387	234.887
122.5	930.153	916.582	880.566	811.144	709.881	590.350	473.428	375.820	303.788	256.288
125.0	950.510	935.895	894.659	820.018	717.711	601.311	488.565	395.132	324.666	277.689
127.5	954.686	939.549	895.703	820.539	721.365	610.707	504.225	414.445	345.545	298.568
130.0	947.379	932.241	888.918	816.886	722.931	619.580	520.406	434.280	367.468	320.491
132.5	933.807	920.758	879.522	811.144	724.497	628.976	536.065	454.637	389.391	342.413

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

135.0	918.670	905.621	867.517	805.402	726.585	638.893	551.724	473.950	411.314	364.858
137.5	903.533	891.006	856.556	800.705	729.716	649.333	568.427	493.785	432.714	387.303
140.0	887.352	877.434	847.160	797.051	732.848	659.772	584.608	513.620	454.115	409.226
142.5	874.303	865.951	839.330	794.963	736.502	670.212	600.789	532.933	476.038	431.149
145.0	863.341	856.034	832.023	792.353	740.678	681.173	616.448	551.202	496.395	453.071
147.5	853.424	846.638	825.759	790.265	744.854	691.091	631.064	568.949	516.752	474.472
150.0	842.462	837.242	819.495	788.699	749.029	700.486	643.591	585.130	536.065	496.395
152.5	833.589	828.891	814.276	788.177	752.161	707.793	655.074	600.267	554.334	516.752
155.0	826.281	821.583	809.056	786.089	753.727	713.013	663.948	613.317	571.037	536.065
157.5	818.973	814.276	803.314	782.436	752.161	715.101	670.734	625.322	587.218	554.334
160.0	809.056	804.358	793.919	775.650	748.507	715.101	675.431	634.717	600.789	571.037
162.5	796.007	791.831	782.436	765.732	741.200	712.491	678.041	643.069	613.317	586.174
165.0	779.304	775.128	766.254	752.161	731.804	707.271	678.563	648.811	623.756	599.745
167.5	759.469	755.815	748.507	736.502	719.799	699.964	676.997	652.465	631.586	611.229
170.0	736.502	733.370	727.629	718.233	706.228	691.091	672.821	654.030	637.849	620.102
172.5	713.013	710.925	706.750	700.486	691.091	679.607	667.080	653.509	640.981	627.410
175.0	687.959	686.393	683.261	679.607	673.865	667.080	659.250	650.377	642.025	633.674
177.5	662.382	661.860	660.816	658.728	656.640	653.509	649.333	645.157	640.981	636.805
180.0	637.849	637.849	637.849	637.849	637.849	637.849	637.849	637.849	637.849	637.849

Vert. Angles

Horizontal Angles

	100	110	120	130	140	150	160	170	180
0.0	1188.987	1188.987	1188.987	1188.987	1188.987	1188.987	1188.987	1188.987	1188.987
2.5	1184.321	1185.099	1185.099	1185.876	1185.876	1186.654	1186.654	1187.432	1187.432
5.0	1170.324	1171.879	1173.434	1175.767	1177.322	1178.878	1180.433	1181.211	1181.988
7.5	1146.217	1147.773	1151.661	1155.549	1160.215	1164.880	1169.546	1171.101	1172.657
10.0	1112.780	1115.890	1122.111	1129.888	1137.664	1144.662	1150.883	1155.549	1159.437
12.5	1071.566	1076.231	1085.563	1096.450	1107.336	1118.223	1127.555	1135.331	1143.107
15.0	1024.131	1030.352	1042.794	1057.568	1072.343	1087.118	1100.338	1111.225	1122.111
17.5	972.030	979.806	996.136	1014.021	1032.684	1052.125	1070.788	1084.785	1098.783
20.0	917.596	926.928	945.591	967.364	989.915	1014.021	1036.572	1053.680	1071.566
22.5	859.274	870.161	891.934	917.596	944.035	972.030	998.469	1018.687	1038.905
25.0	801.730	812.617	836.723	865.495	895.823	927.705	958.033	981.361	1005.468
27.5	743.408	755.073	781.512	811.839	845.277	881.048	915.263	941.702	968.919
30.0	685.864	696.751	724.745	758.183	794.732	834.390	870.939	900.488	930.038
32.5	629.098	639.984	668.756	704.527	744.186	786.955	826.614	856.942	887.269
35.0	573.886	585.551	615.878	652.426	692.863	737.965	779.957	812.617	844.500
37.5	521.786	533.450	563.777	600.326	642.317	689.752	733.299	766.737	800.953
40.0	473.573	484.460	514.787	550.558	592.549	640.762	685.087	720.857	755.850
42.5	427.693	438.580	467.352	502.345	544.337	593.327	639.207	674.977	710.748
45.0	384.924	395.033	422.250	455.688	496.902	545.892	591.772	628.320	664.868
47.5	345.265	353.819	380.258	412.141	451.799	500.790	546.670	582.440	618.211
50.0	307.939	315.715	339.822	369.371	408.252	455.688	500.790	536.560	572.331
52.5	274.501	281.500	303.273	330.490	366.261	412.141	455.688	492.236	529.562
55.0	243.396	248.840	268.280	292.387	326.602	369.371	410.585	447.911	485.237
57.5	213.847	218.512	235.620	256.616	287.721	328.935	368.594	405.142	441.690
60.0	185.852	190.518	205.293	223.178	251.950	290.054	327.380	363.150	398.921
62.5	159.413	164.079	176.521	192.851	217.735	252.728	287.721	322.714	356.929
65.0	135.306	137.639	149.304	163.301	185.852	217.735	250.395	283.055	316.493
67.5	118.976	119.754	127.530	137.639	156.302	185.075	213.847	244.174	275.279
70.0	103.424	104.202	108.090	113.533	129.086	153.192	178.853	208.403	237.175
72.5	87.871	89.427	91.760	94.870	105.757	125.197	146.971	173.410	200.627
75.0	73.097	73.874	76.207	78.540	86.316	99.536	115.866	139.972	164.856
77.5	59.099	59.877	61.432	62.987	67.653	75.430	87.094	110.423	132.974
80.0	45.880	45.880	46.657	48.213	50.545	54.434	62.210	82.428	101.869

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-B-H-835-ASY-TG-ITL90352 ITL89599.011.IES****CANDELA TABULATION - (Cont.)**

82.5	32.660	32.660	33.438	34.215	36.548	38.881	43.547	57.544	71.541
85.0	20.218	20.218	20.996	21.773	22.551	24.106	27.217	35.771	44.325
87.5	8.554	8.554	8.554	9.332	9.332	10.109	11.664	15.553	18.663
90.0	2.088	4.698	6.786	9.396	10.961	12.527	13.571	14.093	14.093
92.5	16.181	17.225	19.313	20.879	22.445	22.967	23.489	24.011	24.011
95.0	33.928	35.494	38.104	41.236	42.802	43.324	43.324	42.280	41.236
97.5	51.153	53.241	57.417	62.115	65.246	66.812	67.856	66.812	66.290
100.0	68.900	71.510	76.208	81.950	86.125	89.779	92.389	91.867	91.867
102.5	87.169	91.345	97.087	103.350	108.570	112.224	114.834	115.356	115.356
105.0	104.916	110.658	119.010	127.883	133.103	135.713	137.279	136.757	136.757
107.5	123.707	128.927	137.279	147.196	153.982	157.635	160.245	159.201	158.157
110.0	141.976	145.108	155.026	167.031	174.861	178.514	181.646	181.646	181.646
112.5	160.245	161.289	172.251	186.344	195.739	200.959	204.613	204.613	204.613
115.0	178.514	177.470	188.432	204.091	215.574	222.882	228.102	228.624	229.146
117.5	196.783	192.086	203.569	220.794	233.843	243.239	250.024	251.068	252.112
120.0	215.574	207.745	218.706	235.931	250.024	261.508	270.903	271.947	273.513
122.5	233.843	222.882	232.799	250.024	265.162	278.733	289.694	291.260	293.348
125.0	253.156	239.063	247.415	263.074	278.733	294.914	307.441	309.529	311.617
127.5	271.947	254.200	260.464	274.557	290.738	308.485	322.579	325.710	328.842
130.0	290.738	269.337	272.991	284.997	300.656	318.925	334.062	339.282	343.979
132.5	310.573	284.474	285.519	295.436	309.007	326.754	341.369	348.155	354.419
135.0	329.886	299.612	297.524	304.831	316.837	333.018	346.589	353.375	359.639
137.5	349.721	315.271	310.051	313.705	323.100	337.716	350.243	355.985	361.726
140.0	370.078	332.496	323.100	323.622	329.886	341.891	352.331	357.551	362.770
142.5	390.957	351.809	338.238	333.540	336.150	345.545	353.375	357.551	361.726
145.0	412.880	372.166	354.419	344.501	342.413	349.199	354.419	357.551	360.682
147.5	434.280	393.045	370.600	354.941	349.199	352.853	356.507	358.594	360.682
150.0	455.159	412.358	386.781	366.424	357.029	358.594	359.639	360.682	361.204
152.5	476.038	433.758	404.528	379.995	366.424	364.858	363.292	363.292	363.292
155.0	496.395	455.159	424.363	397.220	380.517	374.254	369.034	367.990	366.424
157.5	516.230	475.516	445.764	419.143	399.830	387.825	378.429	375.820	373.732
160.0	536.065	499.005	470.296	444.720	423.319	406.616	393.045	388.869	384.693
162.5	554.856	521.972	494.829	469.774	448.896	432.192	418.099	411.314	405.050
165.0	573.125	545.460	519.884	495.351	475.516	461.423	449.418	442.632	436.368
167.5	588.784	565.817	543.372	521.450	503.703	490.131	479.170	473.950	469.252
170.0	602.355	584.086	566.861	549.636	535.021	521.972	511.532	506.313	501.615
172.5	614.361	601.311	588.784	576.779	565.817	556.422	548.592	544.938	540.763
175.0	624.800	615.927	608.097	600.267	593.482	587.740	583.042	580.432	578.345
177.5	632.630	627.932	624.278	620.624	618.014	615.404	612.795	611.751	610.185
180.0	637.849	637.849	637.849	637.849	637.849	637.849	637.849	637.849	637.849

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-B-H-835-ASY-TG-ITL90352 ITL89599.011.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	410.10	N.A.	9.10
0-30	817.24	N.A.	18.20
0-40	1244.77	N.A.	27.70
0-60	1921.94	N.A.	42.80
0-80	2218.54	N.A.	49.40
0-90	2247.72	N.A.	50.00
10-90	2136.82	N.A.	47.60
20-40	834.68	N.A.	18.60
20-50	1216.01	N.A.	27.10
40-70	871.51	N.A.	19.40
60-80	296.60	N.A.	6.60
70-80	102.26	N.A.	2.30
80-90	29.18	N.A.	0.60
90-110	269.73	N.A.	6.00
90-120	627.04	N.A.	14.00
90-130	1036.87	N.A.	23.10
90-150	1754.07	N.A.	39.00
90-180	2244.38	N.A.	50.00
110-180	1974.66	N.A.	44.00
0-180	4492.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.90
10-20	299.19
20-30	407.15
30-40	427.53
40-50	381.34
50-60	295.83
60-70	194.34
70-80	102.26
80-90	29.18
90-100	62.66
100-110	207.07
110-120	357.31
120-130	409.83
130-140	385.33
140-150	331.87
150-160	260.14
160-170	170.13
170-180	60.04

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-B-H-835-ASY-TG-ITL90352 ITL89599.011.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

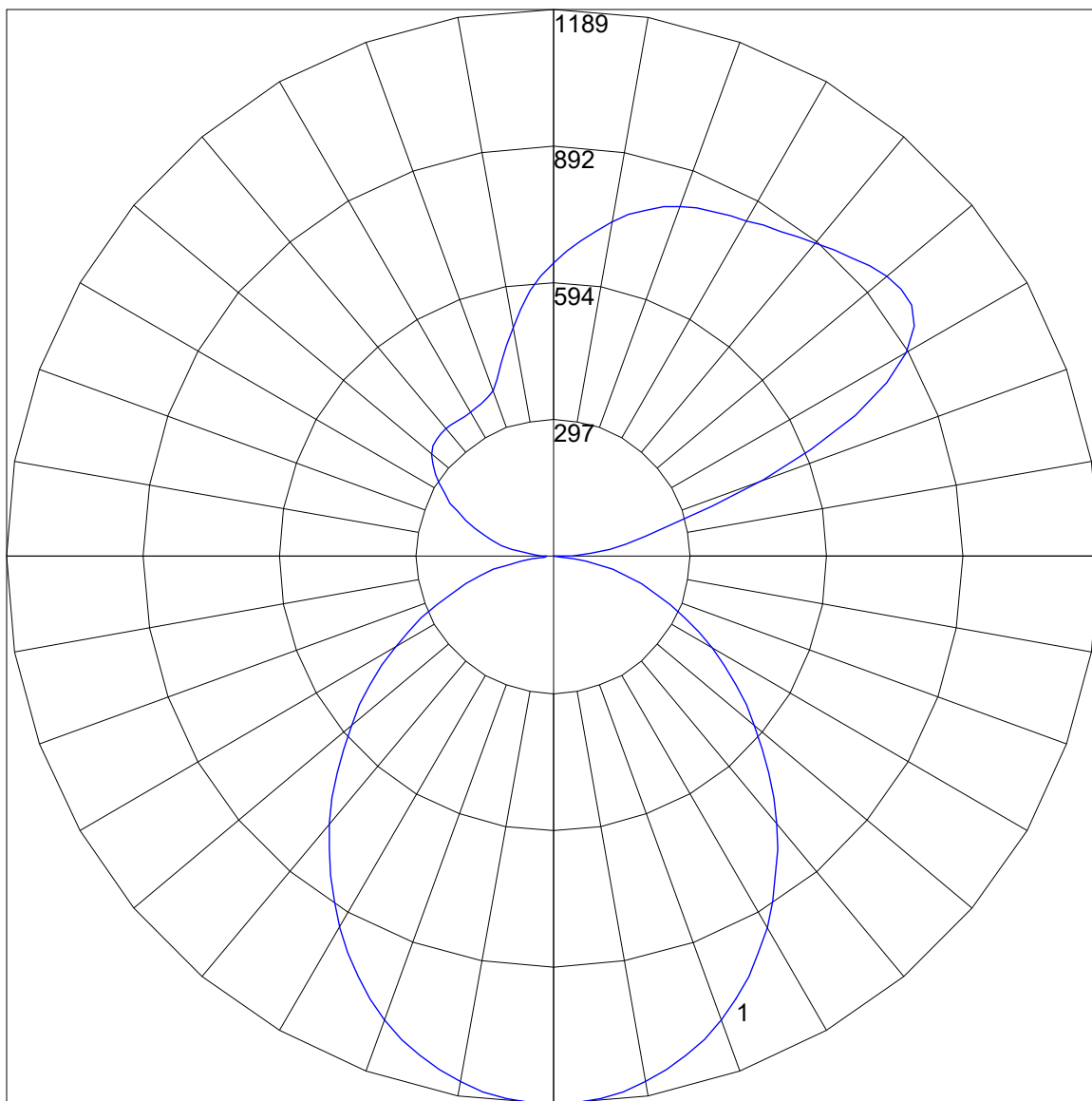
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	91	87	91	87	84	81	74	72	70	62	60	59	50	49	48	43
2	90	83	77	72	83	77	72	68	65	62	59	55	52	50	45	43	42	37
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	59	51	45	64	55	48	43	47	42	38	40	36	33	33	30	28	25
6	65	53	45	39	59	49	42	37	43	37	33	36	32	29	30	27	25	22
7	60	48	40	35	55	45	38	33	39	33	29	33	29	26	28	25	22	20
8	56	44	36	31	51	41	34	29	36	30	26	31	26	23	26	23	20	18
9	52	40	33	28	48	38	31	26	33	27	24	28	24	21	24	21	19	16
10	49	37	30	25	45	35	28	24	30	25	22	26	22	19	22	19	17	15

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POLAR GRAPH



Maximum Candela = 1188.987 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)