



IES ROAD REPORT

PHOTOMETRIC FILENAME : ALL MD S UV 850.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] Q2017011701 scaled from 256w

[TESTLAB] QSSI

[MANUFAC] LumenFocus, LLC

[ISSUEDATE] 01/17/17

[LUMCAT] ALL MD S UV 850

[LUMINAIRE] ALL WITH ONE 167 WATT LED ARRAY WITH 30 DEGREE OPTICS

[LAMPCAT] SAMSUNG 351B LEDs

[LAMP] SAMSUNG 351B LEDs

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20684
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	177
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	43380.756
Maximum Candela Angle	270H 2.5V
Maximum Candela (<90 Degrees Vertical)	43380.756
Maximum Candela Angle (<90 Degrees Vertical)	270H 2.5V
Maximum Candela At 90 Degrees Vertical	5.567 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	267.319 (1.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	6889.5	N.A.	33.3
FM - Front-Medium (30-60)	2378.0	N.A.	11.5
FH - Front-High (60-80)	518.7	N.A.	2.5
FVH - Front-Very High (80-90)	19.0	N.A.	0.1
BL - Back-Low (0-30)	7488.8	N.A.	36.2
BM - Back-Medium (30-60)	2445.4	N.A.	11.8
BH - Back-High (60-80)	618.4	N.A.	3.0
BVH - Back-Very High (80-90)	35.3	N.A.	0.2
UL - Uplight-Low (90-100)	3.8	N.A.	0.0
UH - Uplight-High (100-180)	287.1	N.A.	1.4
Total	20684.0	N.A.	100.0
BUG Rating	B5-U3-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0.0	42604.8914	2604.8914	2604.8914	2604.8914	2604.8914	2604.8914	2604.8914	2604.8914	2604.8914	2604.8914
2.5	40990.3514	0893.1444	0778.2634	0685.4774	0658.9634	0893.1444	0906.3964	0972.6794	0999.1924	2037.534
5.0	38321.5863	8144.8403	7972.5253	7862.0583	8162.5203	8175.7743	8255.3023	8374.6073	8507.1583	9320.162
7.5	34658.6523	4402.3803	4190.2933	4464.2363	4446.5643	4428.8923	4534.9313	4694.0043	4901.6693	5502.585
10.0	30310.8533	0019.2402	9776.2223	0072.2552	9586.2233	0001.5603	0098.7723	0266.6723	0505.2713	0889.682
12.5	25671.4412	5388.6562	5132.3852	5419.5862	5366.5632	5282.6122	5362.1452	5017.5022	5724.4632	6418.166
15.0	21146.9042	0903.8872	1093.8822	0921.5592	0846.4492	0749.2362	0749.2362	0824.3542	1018.7642	1531.314
17.5	17457.4651	7249.7931	7046.5441	6900.7321	6807.9441	6662.1341	6604.6941	6609.1111	7143.7491	7121.660
20.0	13949.1831	3772.4431	3604.5381	3485.2381	3388.0331	3198.0391	3100.8281	3038.9731	3449.8891	3396.866
22.5	11081.5811	10931.3481	10807.6311	10692.7499	10778.122	8748.172	8818.426	8688.079	8684.550	10387.877
25.0	8743.756	8619.593	8544.036	8442.414	8341.227	8138.864	8187.464	8050.932	8038.123	8032.820
27.5	6893.731	6808.013	6772.222	6696.225	6443.929	6407.698	6395.770	6248.632	6217.264	6212.401
30.0	5314.563	5387.025	5380.840	5326.493	5223.983	5172.728	5014.547	4874.038	4830.737	4838.249
32.5	4320.844	4288.147	4292.123	4247.938	4150.290	4000.503	3958.969	3840.554	3793.718	3830.833
35.0	3472.051	3451.284	3453.935	3410.634	3319.172	3267.033	3157.455	3075.271	3027.993	3084.108
37.5	2828.277	2821.649	2818.115	2770.395	2687.769	2641.817	2567.586	2511.029	2473.914	2527.378
40.0	2348.429	2348.870	2340.917	2336.057	2251.222	2184.945	2135.458	2098.784	2072.715	2266.686
42.5	1960.485	1993.624	1984.787	1936.625	1889.789	1846.488	1823.070	1799.652	1780.210	1834.116
45.0	1720.119	1720.119	1741.770	1667.980	1624.238	1594.634	1595.076	1580.053	1565.472	1619.820
47.5	1508.915	1513.334	1532.333	1464.730	1419.220	1408.174	1426.289	1417.010	1405.080	1476.218
50.0	1341.454	1350.291	1363.989	1321.571	1254.852	1264.131	1293.734	1287.107	1285.340	1330.850
52.5	1197.854	1207.132	1225.690	1187.691	1122.297	1145.273	1179.296	1172.226	1168.249	1225.248
55.0	1096.670	1102.414	1099.321	1071.926	1009.626	1041.880	1071.043	1078.112	1075.461	1119.646
57.5	986.207	991.952	996.370	966.766	873.448	911.977	987.091	984.440	996.370	1041.439
60.0	875.789	879.766	877.910	881.578	810.926	859.839	879.456	881.799	881.622	964.999
62.5	781.455	800.101	823.430	791.926	714.515	785.740	852.460	856.127	854.448	893.419
65.0	668.341	693.394	740.760	698.387	619.959	682.304	776.727	781.278	770.718	808.584
67.5	553.107	577.232	635.379	593.359	533.003	593.050	671.522	666.397	634.009	646.426
70.0	387.502	427.135	539.365	490.895	445.649	484.665	560.486	557.305	510.469	509.452
72.5	285.126	330.194	427.401	405.838	346.277	393.025	450.289	434.780	326.350	311.504
75.0	194.193	243.724	330.680	304.743	264.756	289.367	334.215	334.391	240.675	229.320
77.5	128.092	172.675	233.296	211.911	153.189	174.530	235.152	237.406	152.305	137.371
80.0	76.573	112.407	133.615	117.753	86.558	95.307	134.543	154.603	98.444	87.442
82.5	35.260	48.824	43.080	40.915	38.088	43.169	45.378	68.266	48.515	43.566
85.0	8.925	8.837	7.953	9.279	8.351	9.941	12.063	12.725	13.786	11.665
87.5	4.595	4.418	4.330	4.242	4.242	4.330	4.551	5.125	5.346	5.390
90.0	3.270	3.314	3.358	3.358	3.270	3.270	3.225	3.181	3.181	3.446
92.5	3.358	3.358	3.358	3.314	3.314	3.270	3.225	3.181	3.137	3.535
95.0	3.402	3.402	3.402	3.358	3.358	3.314	3.225	3.181	3.137	3.579
97.5	3.490	3.535	3.446	3.446	3.402	3.358	3.314	3.225	3.225	3.756
100.0	3.756	3.756	3.712	3.667	3.667	3.623	3.490	3.446	3.402	3.889
102.5	3.889	3.889	3.844	3.756	3.756	3.756	3.623	3.535	3.535	4.065
105.0	4.065	4.021	3.933	3.889	3.889	3.844	3.712	3.623	3.667	4.242
107.5	4.197	4.153	4.065	4.021	4.021	3.933	3.844	3.800	3.756	4.374
110.0	4.330	4.286	4.197	4.153	4.153	4.153	3.977	3.889	3.889	4.551
112.5	4.463	4.374	4.330	4.330	4.330	4.286	4.109	4.021	4.065	4.684
115.0	4.595	4.507	4.418	4.418	4.418	4.374	4.197	4.197	4.153	4.861
117.5	4.728	4.639	4.595	4.551	4.551	4.507	4.374	4.197	4.286	4.993
120.0	4.905	4.905	4.816	4.816	4.772	4.639	4.639	4.551	4.551	5.125
122.5	5.479	5.435	5.390	5.302	5.302	5.258	5.214	5.169	5.081	5.435
125.0	6.451	6.407	6.407	6.274	6.274	6.230	6.141	6.141	6.053	6.097
127.5	8.086	8.130	7.953	7.997	7.997	7.953	7.909	7.777	7.600	7.556
130.0	11.090	11.179	10.914	10.914	11.002	10.958	10.781	10.340	10.295	10.251

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132.5	15.111	15.332	15.420	15.376	15.420	15.420	15.200	15.067	14.448	14.448
135.0	20.811	21.076	21.165	21.120	21.120	21.032	20.237	20.016	19.839	20.767
137.5	29.162	29.427	29.560	29.560	29.516	29.427	28.190	27.925	27.660	30.488
140.0	40.650	40.915	41.003	40.959	40.871	39.501	39.236	38.883	38.485	42.108
142.5	55.010	55.320	55.408	55.320	53.641	53.420	53.066	52.625	52.182	55.894
145.0	74.540	74.761	74.673	72.375	72.286	72.022	71.624	71.138	70.607	72.198
147.5	99.328	99.505	96.721	96.367	98.886	95.926	95.528	95.042	94.556	88.060
150.0	130.699	130.788	127.120	126.943	126.325	126.237	125.971	125.617	125.309	111.346
152.5	167.019	171.349	166.886	166.710	166.445	165.738	165.738	165.517	161.143	140.950
155.0	216.153	215.578	210.851	210.674	210.718	210.011	210.187	210.187	210.232	199.141
157.5	252.340	251.633	250.970	250.528	250.396	250.396	249.556	249.954	246.375	267.098
160.0	288.970	287.865	286.937	289.411	286.230	286.318	283.137	283.004	283.844	311.990
162.5	316.673	315.304	314.155	313.536	313.448	311.548	314.155	313.890	311.858	356.528
165.0	332.227	330.415	329.045	328.073	326.924	328.161	327.764	327.808	326.792	379.018
167.5	334.834	333.154	331.475	330.150	329.266	329.973	330.680	330.415	328.206	387.811
170.0	322.860	321.269	320.208	319.457	317.071	319.280	319.589	319.634	316.894	364.349
172.5	301.916	301.120	300.457	303.241	303.241	301.916	300.767	300.280	296.879	304.876
175.0	273.549	272.621	276.509	277.835	278.453	274.521	275.184	274.477	273.947	258.438
177.5	243.547	243.901	247.568	247.524	247.170	246.508	243.636	241.162	244.166	223.620
180.0	216.105	216.105	216.105	216.105	216.105	216.105	216.105	216.105	216.105	216.105

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0.0	42604.89142604.89142604.89142604.89142604.89142604.89142604.89142604.89142604.89142604.89142604.891									
2.5	41993.35342041.95942130.32142311.48042337.99342457.29442505.89642461.71042466.13042558.917									
5.0	39426.20639669.22339952.00540296.65040491.06540800.36140773.84840955.01141127.32541277.554									
7.5	35732.34536130.01336554.18837053.47737389.28137866.48138197.86538153.68138458.55938670.646									
10.0	31234.31931738.03132272.66832864.74333297.75533889.83833894.25434274.24234702.84334945.857									
12.5	26329.79527880.68627478.60328123.70328605.31929259.25729732.03230160.62630182.72130447.826									
15.0	21986.41922096.87922662.44623303.12723789.16624416.58624893.78625304.70826298.86625600.747									
17.5	17563.50918093.72518208.60918800.68619255.79019799.26620219.02220585.75521058.53720859.703									
20.0	13768.02213891.73814722.41914872.64815270.30815703.32316047.96216335.16616370.51116980.267									
22.5	10683.91510812.04811218.55411629.47011965.27312292.24712561.77312765.02213118.50012968.273									
25.0	8262.581 8819.313 8938.613 9049.074 9305.346 9557.201 9751.611 9893.006 10144.86010047.649									
27.5	6402.395 6663.089 6769.127 7034.238 7233.071 7418.649 7551.204 7648.409 7816.315 7763.293									
30.0	4975.222 5182.892 5408.234 5620.322 5637.996 5766.132 5858.921 5916.361 6022.405 6159.379									
32.5	3919.202 4069.431 4246.171 4405.236 4422.910 4515.699 4688.020 4612.906 4679.183 4794.064									
35.0	3137.129 3252.010 3380.147 3490.609 3499.446 3574.560 3623.163 3645.256 3693.859 3782.229									
37.5	2575.981 2708.535 2730.628 2796.906 2796.906 2876.438 2920.623 2933.879 2964.808 3035.504									
40.0	2271.105 2293.198 2293.198 2279.942 2337.382 2412.496 2412.496 2425.753 2434.589 2492.030									
42.5	1879.627 1919.393 1929.114 1927.346 1969.322 2288.779 2284.361 2297.616 2266.686 2279.942									
45.0	1659.586 1693.608 1690.073 1665.329 1701.119 1779.327 1816.443 1790.373 1784.629 1823.070									
47.5	1494.334 1523.496 1507.147 1485.939 1519.077 1581.820 1597.285 1584.471 1574.309 1607.006									
50.0	1358.687 1390.499 1368.407 1314.059 1348.082 1434.243 1462.079 1432.033 1420.545 1444.847									
52.5	1238.062 1266.340 1261.480 1192.993 1230.992 1321.129 1343.663 1306.548 1293.734 1314.059									
55.0	1153.226 1176.202 1159.413 1090.484 1133.343 1224.806 1233.643 1215.969 1199.621 1206.690									
57.5	1071.043 1093.577 1069.275 1001.231 1048.067 1143.506 1149.692 1134.669 1116.111 1132.018									
60.0	994.603 1021.997 1003.439 915.512 971.627 1068.833 1070.159 1062.205 1048.067 1046.741									
62.5	925.674 961.464 932.744 822.281 892.536 1006.091 1003.439 989.301 972.952 980.022									
65.0	843.049 894.303 866.466 733.912 803.282 943.348 940.255 921.256 909.326 905.349									
67.5	700.331 780.748 755.562 641.565 719.330 852.327 835.537 792.678 776.329 801.073									
70.0	565.567 652.169 613.287 551.870 611.077 721.982 697.238 643.332 626.101 655.262									
72.5	391.037 533.754 501.941 448.477 494.429 569.543 553.637 440.082 431.686 480.290									
75.0	288.086 399.874 396.339 345.526 398.106 463.058 428.594 298.690 283.667 325.201									
77.5	233.296 291.178 286.760 235.506 281.458 349.061 348.177 232.855 227.552 249.645									

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CANDELA TABULATION - (Cont.)

80.0	125.706	228.436	227.552	128.667	235.506	249.645	243.901	146.517	136.973	196.977
82.5	66.410	86.603	77.324	68.398	85.984	135.029	145.059	96.235	78.429	111.258
85.0	15.907	21.076	26.688	29.383	34.067	39.192	58.103	47.410	41.622	57.838
87.5	5.921	6.628	7.246	8.307	8.660	9.500	11.002	10.914	11.974	14.051
90.0	3.446	3.402	3.446	3.490	4.021	4.418	4.993	4.949	4.905	5.081
92.5	3.446	3.402	3.402	3.402	3.402	3.402	3.402	3.314	3.314	3.314
95.0	3.535	3.490	3.446	3.490	3.446	3.446	3.358	3.358	3.314	3.270
97.5	3.623	3.579	3.535	3.535	3.535	3.490	3.446	3.402	3.358	3.358
100.0	3.756	3.667	3.712	3.667	3.623	3.579	3.535	3.490	3.446	3.402
102.5	3.933	3.844	3.800	3.756	3.712	3.623	3.623	3.623	3.623	3.490
105.0	4.109	3.977	3.889	3.889	3.800	3.756	3.756	3.712	3.712	3.667
107.5	4.197	4.109	4.065	4.021	3.977	3.889	3.844	3.889	3.844	3.800
110.0	4.418	4.286	4.242	4.197	4.109	4.021	4.021	4.065	4.021	3.933
112.5	4.551	4.463	4.374	4.374	4.330	4.197	4.153	4.153	4.197	4.065
115.0	4.728	4.639	4.551	4.551	4.463	4.374	4.330	4.330	4.286	4.242
117.5	4.905	4.772	4.728	4.684	4.639	4.507	4.463	4.463	4.418	4.374
120.0	4.993	4.905	4.861	4.816	4.728	4.639	4.551	4.551	4.551	4.463
122.5	5.346	5.258	5.169	5.169	5.081	4.949	4.861	4.861	4.816	4.728
125.0	6.053	5.921	5.877	5.833	5.789	5.656	5.567	5.479	5.435	5.302
127.5	7.158	7.202	7.069	7.025	7.114	6.849	6.761	6.628	6.495	6.318
130.0	10.030	9.809	9.588	9.456	8.969	9.014	8.793	8.881	8.749	8.528
132.5	14.051	13.653	13.344	13.035	12.725	12.328	11.709	12.328	12.063	11.709
135.0	21.783	21.120	20.546	19.971	19.442	18.999	18.514	18.867	18.469	17.983
137.5	29.560	29.648	28.853	27.969	27.350	26.688	26.025	26.334	25.848	25.274
140.0	42.152	40.871	39.678	38.662	37.646	36.718	35.745	35.039	35.216	34.862
142.5	54.392	52.978	51.564	51.475	48.780	48.780	47.587	46.836	45.864	46.438
145.0	70.431	68.575	68.443	66.543	64.731	63.008	59.959	60.356	59.605	60.224
147.5	88.060	85.984	82.096	83.642	81.654	79.533	77.677	76.617	75.733	76.749
150.0	109.137	104.586	104.674	104.762	102.421	99.769	97.428	96.323	95.439	96.898
152.5	138.564	136.134	133.615	130.699	131.450	128.181	125.309	123.850	122.922	121.950
155.0	196.579	193.706	190.746	187.255	183.677	179.832	183.456	181.247	180.628	179.391
157.5	265.330	263.342	261.000	257.951	254.638	250.926	246.198	251.456	251.324	251.677
160.0	315.569	308.720	306.555	308.411	305.185	305.539	297.541	294.449	289.278	301.297
162.5	355.026	352.993	350.210	346.896	343.405	333.596	327.675	315.481	307.130	333.729
165.0	378.267	375.219	371.640	367.000	360.195	346.498	333.287	321.843	319.413	337.882
167.5	384.895	378.135	368.546	355.379	339.208	317.601	305.141	300.236	299.353	305.318
170.0	362.228	344.333	328.250	310.974	293.521	278.056	270.279	262.591	266.214	265.949
172.5	298.513	290.737	281.016	266.745	258.923	252.296	246.198	236.743	236.345	236.124
175.0	254.505	250.838	246.243	239.173	236.390	234.445	224.857	219.025	217.478	214.783
177.5	219.997	217.566	214.474	213.325	213.192	211.646	209.790	207.227	204.664	203.251
180.0	216.105	216.105	216.105	216.105	216.105	216.105	216.105	216.105	216.105	216.105

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0.0	42604.8914	2604.8914	2604.8914	2604.8914	2604.8914	2604.8914	2604.8914	2604.8914	2604.8914	2604.891
2.5	42541.2454	2483.8024	2452.8744	2355.6664	2227.5294	2139.1624	1927.0754	3380.7564	2969.8414	2603.099
5.0	41304.0624	1281.9754	1233.3684	1162.6744	1078.2679	10610.3624	10296.6504	1931.4904	1339.4134	10791.520
7.5	38741.3413	759.0183	701.5733	604.3683	506.3073	7809.0363	7411.3763	39214.1183	38458.5593	37791.364
10.0	35056.3193	5122.5983	5069.5733	4963.5303	4318.4323	4415.6373	33554.0313	5431.8913	4587.9573	33845.648
12.5	30589.2193	30699.6813	30673.1713	30571.5503	30337.3672	29502.2722	29056.0013	30920.6083	30081.0932	29325.533
15.0	25786.3192	5932.1352	5936.5512	5852.5952	5127.9692	5251.6862	4359.1492	26091.1942	5340.0522	4633.092
17.5	21080.6252	1235.2762	1283.8752	1230.8522	10996.6762	10236.6941	9869.9612	1412.0132	20789.0092	20179.254
20.0	17214.4441	6993.5221	7077.4721	7050.9611	6843.2951	6189.3561	5893.3181	7232.1211	6723.9941	6622.367
22.5	13206.8721	3396.8661	3502.9101	3489.6551	3339.4281	3096.4111	2566.1901	3697.3271	3299.6611	2963.856
25.0	10290.6661	10462.9881	10586.7101	10586.7101	10498.3391	10043.2341	10100.6721	10803.2169	703.012	8738.012

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

27.5	7979.798	8156.536	8284.675	8302.347	8231.653	7864.914	7719.103	8458.759	8463.181	8153.441
30.0	6199.145	6362.628	6486.344	6517.278	6451.000	6314.022	6194.729	6793.870	6676.785	6631.715
32.5	4961.967	5098.940	5085.685	5116.614	5068.010	4961.967	4745.461	5336.213	5283.633	5165.217
35.0	3821.996	3932.458	4016.409	4047.339	4020.828	3932.458	3852.925	4134.825	4205.079	4227.171
37.5	3066.434	3137.129	3194.570	3225.500	3212.243	3159.222	3101.781	3397.379	3387.216	3415.936
40.0	2558.307	2598.073	2629.003	2593.655	2606.911	2580.400	2536.215	2774.813	2777.464	2802.650
42.5	2293.198	2279.942	2279.942	2306.453	2279.942	2271.105	2275.523	2311.755	2318.825	2342.684
45.0	1853.557	1854.883	1837.209	1819.977	1857.976	1856.209	1825.721	1941.044	1976.833	1959.601
47.5	1634.842	1628.214	1590.657	1595.960	1620.703	1624.679	1592.866	1713.933	1716.143	1725.421
50.0	1470.033	1455.451	1402.871	1407.290	1458.544	1447.498	1411.267	1510.682	1512.892	1520.403
52.5	1340.571	1326.432	1257.061	1261.921	1311.851	1307.432	1264.572	1346.314	1342.780	1346.757
55.0	1227.015	1220.387	1137.320	1139.529	1166.924	1170.900	1144.389	1213.318	1206.249	1217.295
57.5	1134.227	1121.413	1035.253	1026.415	1072.368	1062.647	1035.253	1091.809	1084.298	1095.786
60.0	1054.694	1038.788	944.232	927.000	980.022	971.627	940.697	990.184	986.207	986.207
62.5	989.301	967.208	849.676	838.630	896.954	890.326	851.885	874.640	876.982	875.038
65.0	928.767	895.629	760.423	748.934	825.374	816.538	778.096	813.666	797.980	817.333
67.5	843.490	809.910	670.286	655.704	742.749	730.819	674.262	709.036	704.970	725.473
70.0	725.958	709.610	572.637	562.916	634.053	623.007	556.730	588.367	590.576	615.363
72.5	605.775	560.265	477.639	463.500	527.568	525.801	435.663	465.886	475.871	528.452
75.0	486.034	462.616	388.827	385.734	426.384	407.827	279.249	292.328	329.531	405.794
77.5	372.920	352.154	293.388	278.365	315.481	316.364	232.413	203.384	245.270	300.855
80.0	267.319	250.087	228.436	233.296	236.831	234.622	128.136	128.004	165.870	201.262
82.5	229.762	184.295	97.295	91.065	129.241	124.248	76.263	75.512	94.865	88.060
85.0	62.124	53.994	46.924	45.820	44.141	39.413	29.825	33.227	32.476	28.897
87.5	13.211	14.139	13.697	11.886	10.384	7.600	6.893	7.688	7.821	7.202
90.0	5.523	5.567	5.435	5.169	4.861	4.418	4.021	3.933	3.844	3.446
92.5	3.314	3.402	3.402	3.402	3.402	3.402	3.446	3.225	3.270	3.270
95.0	3.358	3.402	3.402	3.402	3.402	3.446	3.490	3.225	3.225	3.270
97.5	3.358	3.402	3.446	3.490	3.535	3.490	3.535	3.314	3.270	3.314
100.0	3.402	3.490	3.490	3.535	3.535	3.579	3.623	3.535	3.490	3.535
102.5	3.535	3.579	3.579	3.579	3.579	3.667	3.756	3.623	3.623	3.623
105.0	3.579	3.579	3.667	3.667	3.667	3.756	3.889	3.756	3.667	3.712
107.5	3.712	3.756	3.756	3.756	3.756	3.889	3.977	3.844	3.844	3.800
110.0	3.844	3.889	3.889	3.889	3.889	3.933	4.109	3.933	3.933	3.933
112.5	4.021	4.021	4.065	4.021	4.021	4.109	4.197	4.065	3.977	4.021
115.0	4.153	4.153	4.197	4.109	4.153	4.197	4.330	4.109	4.065	4.109
117.5	4.286	4.286	4.286	4.242	4.242	4.286	4.374	4.197	4.153	4.153
120.0	4.374	4.374	4.374	4.330	4.286	4.330	4.463	4.374	4.374	4.374
122.5	4.639	4.639	4.639	4.551	4.595	4.551	4.684	4.816	4.772	4.816
125.0	5.302	5.169	5.214	5.169	5.125	5.081	5.081	5.567	5.567	5.656
127.5	6.230	6.141	6.230	6.186	6.097	6.053	6.141	7.114	6.981	7.069
130.0	8.351	8.218	8.395	8.307	8.174	8.174	8.218	9.323	9.456	9.588
132.5	11.532	11.356	11.179	11.444	11.400	11.356	11.400	13.079	13.300	13.609
135.0	17.674	17.453	16.569	17.055	17.674	17.718	17.851	18.027	18.292	18.690
137.5	24.920	24.611	24.434	24.214	25.097	25.186	25.362	25.760	26.202	25.760
140.0	34.420	34.155	33.978	33.890	35.039	35.304	35.569	37.955	36.144	37.999
142.5	46.173	45.952	45.908	45.908	46.085	47.720	48.162	49.531	50.238	51.078
145.0	58.545	58.412	60.224	60.577	60.843	61.284	63.405	69.238	70.078	70.961
147.5	76.617	76.882	75.380	77.589	77.942	78.561	81.035	95.351	96.102	96.986
150.0	94.644	97.560	98.267	98.842	99.416	99.946	100.477	133.615	134.145	130.655
152.5	122.171	123.232	128.048	128.888	129.594	130.080	130.390	175.326	175.503	175.591
155.0	179.744	188.935	190.172	190.923	191.232	183.854	190.834	226.757	226.139	225.432
157.5	252.959	255.875	264.402	259.366	266.391	266.523	265.905	273.328	271.737	270.323
160.0	305.583	309.604	313.183	320.959	321.932	322.020	321.357	314.773	312.166	309.957
162.5	344.156	351.535	359.930	360.240	365.630	366.337	365.763	345.173	341.947	337.087
165.0	355.512	370.049	379.504	386.972	390.772	392.495	392.760	360.505	356.484	353.170

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CANDELA TABULATION - (Cont.)

167.5	319.015	348.972	371.242	387.325	395.013	399.918	402.392	362.051	359.223	355.379
170.0	273.593	300.546	323.566	345.703	359.135	372.523	380.211	348.398	345.880	342.433
172.5	242.973	254.063	268.733	287.290	296.967	306.290	316.806	319.634	321.224	317.645
175.0	217.566	221.632	227.155	235.241	243.768	253.091	258.968	282.519	289.278	286.893
177.5	204.179	206.211	209.083	212.795	216.153	219.953	223.620	255.389	254.638	255.477
180.0	216.105	216.105	216.105	216.105	216.105	216.105	216.105	216.105	216.105	216.105

Vert. Horizontal Angles
Angles

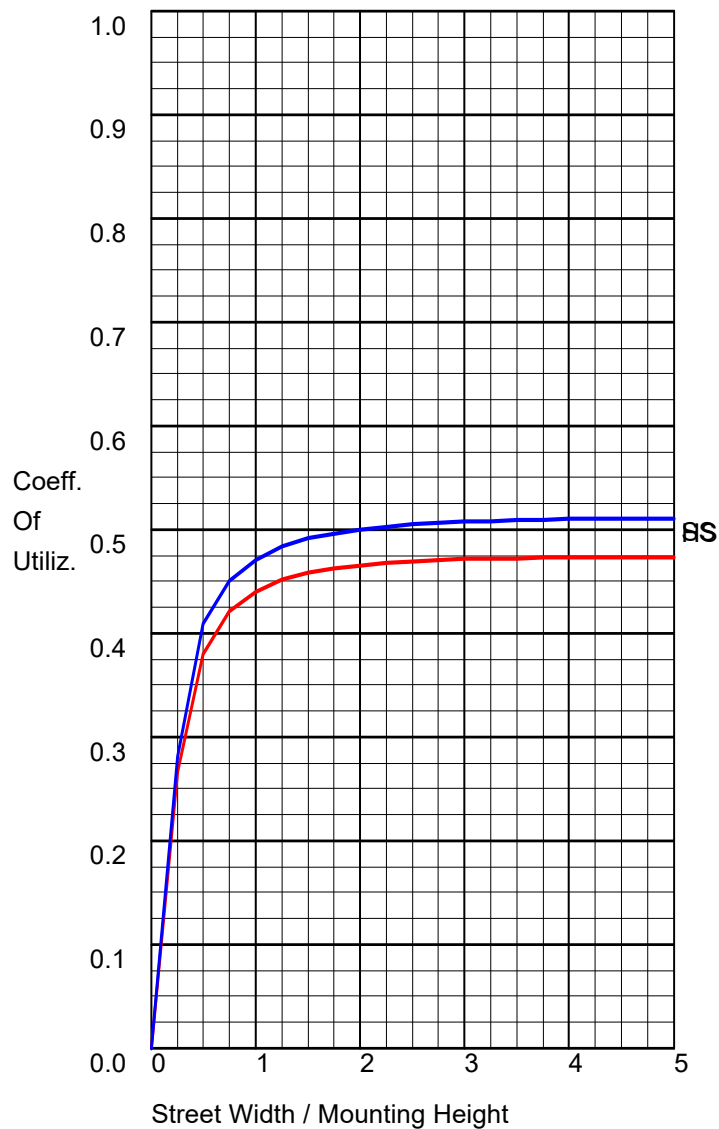
	300	310	320	330	340	350	360
0.0	42604.89142604.89142604.89142604.89142604.89142604.89142604.891						
2.5	42307.06442125.90641816.60541745.91141476.38541246.62540990.351						
5.0	40336.41539991.77039545.50639452.71739032.96238670.64638321.586						
7.5	37216.96136730.92736576.27736072.57335551.18435087.24634658.652						
10.0	33213.80532626.14532489.17431897.09631313.85330792.47630310.853						
12.5	28689.26828066.26327942.54627328.37626727.45926192.82225671.441						
15.0	24054.27123479.86523364.98322768.48922180.83021677.12621146.904						
17.5	20108.55519596.01119083.46818557.66817996.52017545.83217457.465						
20.0	16237.96215813.78415371.93514912.40914386.61014006.62013949.183						
22.5	13003.62312685.49012314.34111929.93011439.47411368.78211081.581						
25.0	9596.967 8683.222 8800.314 8684.990 8654.503 8748.172 8743.756						
27.5	8260.372 8125.609 7875.962 7574.620 7199.489 6909.641 6893.731						
30.0	6601.668 6514.183 6320.213 5900.897 5854.944 5597.788 5314.563						
32.5	5287.168 5237.681 5090.102 4840.016 4566.512 4453.840 4320.844						
35.0	4253.241 4212.149 4105.663 3985.038 3756.160 3503.865 3472.051						
37.5	3432.285 3411.960 3327.567 3237.429 2995.738 2915.763 2828.277						
40.0	2809.278 2795.580 2736.372 2672.304 2531.796 2416.473 2348.429						
42.5	2336.941 2313.523 2274.198 2241.059 2137.225 2040.460 1960.485						
45.0	1979.484 1949.439 1954.741 1915.416 1836.767 1757.234 1720.119						
47.5	1709.514 1669.306 1683.004 1665.772 1607.447 1521.287 1508.915						
50.0	1501.404 1466.939 1470.916 1467.381 1424.522 1368.849 1341.454						
52.5	1333.943 1269.433 1300.362 1306.106 1269.433 1223.038 1197.854						
55.0	1199.621 1135.553 1155.436 1163.831 1137.762 1105.507 1096.670						
57.5	1072.810 1006.091 1028.625 1045.415 1019.788 991.952 986.207						
60.0	964.115 881.666 876.938 875.745 880.694 873.978 875.789						
62.5	864.390 783.620 814.328 847.423 819.056 799.747 781.455						
65.0	773.589 676.560 704.440 758.390 725.605 676.560 668.341						
67.5	677.222 576.613 608.957 673.334 625.261 574.139 553.107						
70.0	568.616 485.637 512.722 568.307 517.140 411.053 387.502						
72.5	475.607 392.937 423.468 452.939 407.429 303.285 285.126						
75.0	370.093 311.371 327.499 341.947 320.915 212.706 194.193						
77.5	255.787 182.749 229.276 252.517 227.508 146.208 128.092						
80.0	148.417 106.795 127.385 150.317 141.701 91.949 76.573						
82.5	71.978 57.573 59.959 55.585 59.782 42.639 35.260						
85.0	24.258 19.618 17.453 13.653 11.046 8.837 8.925						
87.5	6.451 5.789 5.479 4.772 4.772 4.772 4.595						
90.0	3.314 3.314 3.314 3.314 3.314 3.270 3.270						
92.5	3.270 3.314 3.314 3.314 3.314 3.270 3.358						
95.0	3.270 3.314 3.314 3.314 3.358 3.358 3.402						
97.5	3.358 3.402 3.446 3.446 3.402 3.446 3.490						
100.0	3.579 3.623 3.623 3.667 3.667 3.712 3.756						
102.5	3.667 3.756 3.756 3.756 3.756 3.889 3.889						
105.0	3.756 3.844 3.844 3.844 3.933 4.065 4.065						
107.5	3.889 3.977 3.933 3.977 4.065 4.197 4.197						
110.0	4.021 4.109 4.109 4.109 4.197 4.330 4.330						
112.5	4.109 4.197 4.242 4.242 4.330 4.374 4.463						

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CANDELA TABULATION - (Cont.)

115.0	4.197	4.286	4.330	4.330	4.463	4.551	4.595
117.5	4.330	4.418	4.463	4.463	4.551	4.639	4.728
120.0	4.507	4.639	4.684	4.684	4.816	4.905	4.905
122.5	4.993	5.125	5.169	5.169	5.258	5.435	5.479
125.0	5.833	6.009	5.965	6.141	6.141	6.318	6.451
127.5	7.290	7.512	7.467	7.600	7.732	8.174	8.086
130.0	9.544	9.897	10.074	10.295	10.560	10.869	11.090
132.5	13.520	14.360	14.272	14.581	14.935	15.376	15.111
135.0	18.646	19.088	19.618	20.060	20.546	21.032	20.811
137.5	27.394	27.041	27.660	28.367	28.985	29.648	29.162
140.0	37.646	38.396	39.104	39.811	40.562	40.031	40.650
142.5	52.006	52.801	53.641	54.436	53.508	54.524	55.010
145.0	74.186	75.026	73.480	74.275	72.950	74.054	74.540
147.5	97.826	98.621	99.151	97.118	98.267	98.930	99.328
150.0	131.141	131.671	128.490	129.153	129.904	130.478	130.699
152.5	175.547	175.856	175.768	171.128	171.217	171.393	167.019
155.0	224.636	219.643	218.804	217.920	217.257	216.771	216.153
157.5	264.712	262.989	261.089	259.542	258.261	261.354	252.340
160.0	307.659	301.695	298.955	296.702	294.890	290.383	288.970
162.5	333.906	330.371	327.764	325.068	322.638	318.529	316.673
165.0	349.547	345.217	342.565	339.870	336.424	334.215	332.227
167.5	350.342	346.719	343.582	341.373	338.942	336.866	334.834
170.0	337.352	333.773	330.194	329.134	326.792	324.715	322.860
172.5	315.038	312.608	309.427	306.025	305.008	302.755	301.916
175.0	286.230	284.153	280.972	280.132	277.172	274.830	273.549
177.5	254.328	251.854	251.589	247.789	245.005	243.503	243.547
180.0	216.105	216.105	216.105	216.105	216.105	216.105	216.105

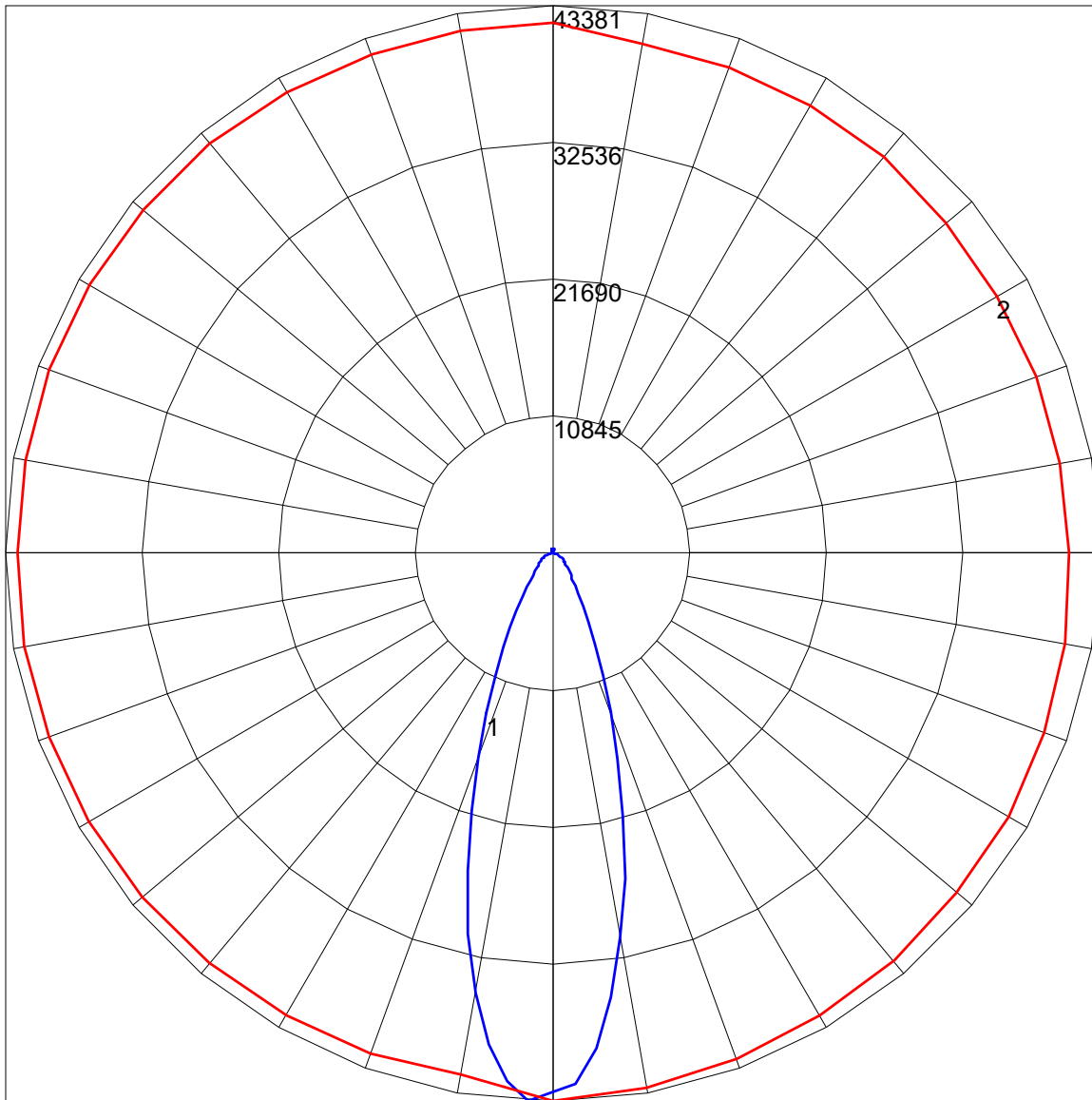
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

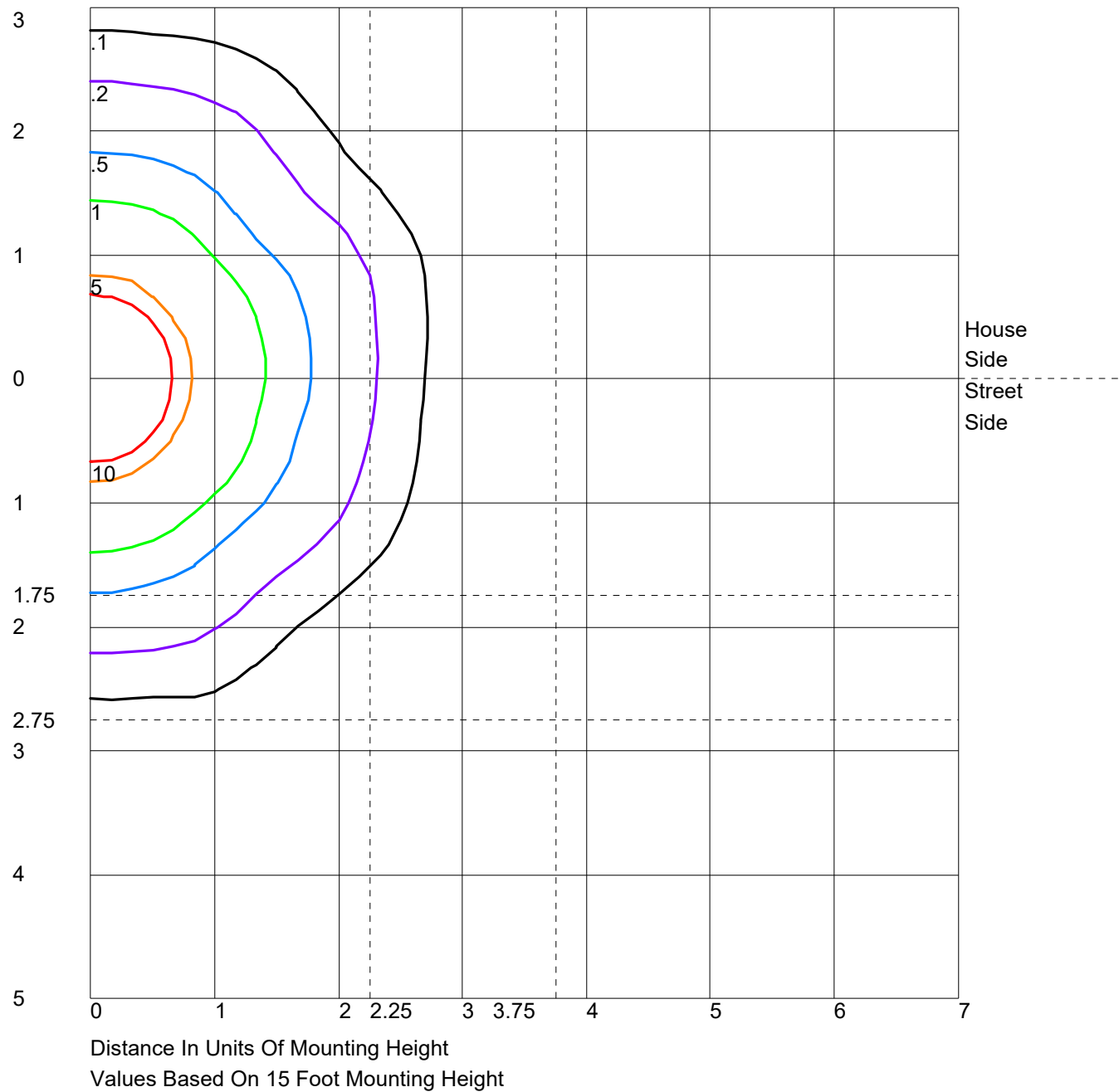
	Lumens	Percent Of Luminaire
Downward Street Side	9805.3	47.4
Downward House Side	10587.9	51.2
Downward Total	20393.2	98.6
Upward Street Side	149.5	0.7
Upward House Side	141.4	0.7
Upward Total	290.9	1.4
Total Flux	20684.1	100.0

POLAR GRAPH

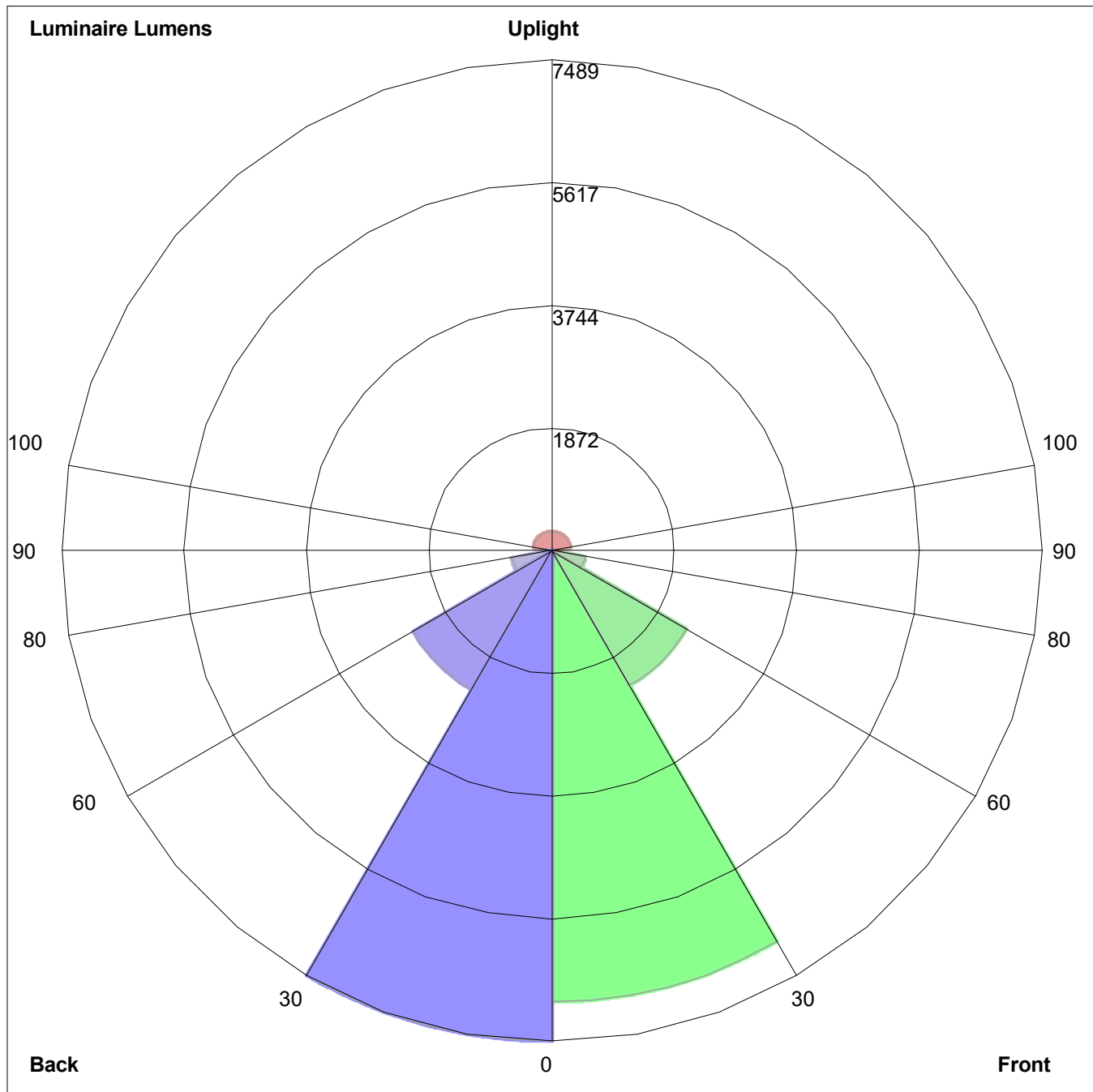


Maximum Candela = 43380.756 Located At Horizontal Angle = 270, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=6889.5, Medium= 2378.0, High=518.7, Very High=19.0
Back: Low=7488.8, Medium=2445.4, High=618.4, Very High=35.3
Uplight: Low=3.8, High=287.1

BUG Rating : B5-U3-G1