



IES ROAD REPORT

PHOTOMETRIC FILENAME : ALL HI 3 UV 850-EHS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Q2018032101
[TESTLAB] QSSI
[ISSUE DATE] 2018-3-21
[MANUFAC] LumenFocus, LLC
[LUMCAT] ALL HI 3 UV 850-EHS
[LUMINAIRE] ALL WITH ONE 256W LED ARRAY, HOUSE SIDE SHIELD
[LAMPCAT] SAMSUNG 351B-N WITH TYPE III OPTICS
[LAMP] SAMSUNG 351B-N 1164PCS

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20770
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	278
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10794.5
Maximum Candela Angle	10H 60V
Maximum Candela (<90 Degrees Vertical)	10794.5
Maximum Candela Angle (<90 Degrees Vertical)	10H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	707.378 (3.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3509.8	N.A.	16.9
FM - Front-Medium (30-60)	9670.5	N.A.	46.6
FH - Front-High (60-80)	3827.2	N.A.	18.4
FVH - Front-Very High (80-90)	95.2	N.A.	0.5
BL - Back-Low (0-30)	1282.2	N.A.	6.2
BM - Back-Medium (30-60)	2106.6	N.A.	10.1
BH - Back-High (60-80)	268.2	N.A.	1.3
BVH - Back-Very High (80-90)	10.5	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	20770.2	N.A.	100.0
BUG Rating	B3-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<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	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566
5	6878.026	6886.693	6721.280	6601.373	6427.292	6106.577	5803.921	5403.028	4906.787	4386.709
10	8410.810	8401.419	8254.064	8105.987	7821.389	7510.787	7127.952	6594.873	5850.150	4758.709
15	9312.999	9258.824	9178.646	9045.016	8812.425	8487.377	7957.909	7341.761	6510.359	5231.113
20	9884.362	9854.747	9817.187	9711.004	9422.794	9016.122	8609.451	7895.789	7013.824	5660.900
25	10170.410	10177.630	10197.130	10059.890	9724.005	9412.682	8899.827	8236.006	7335.261	5948.387
30	10206.520	10243.360	10229.640	9975.377	9787.570	9437.240	9039.959	8331.354	7456.612	6111.634
35	10161.020	10186.300	10079.390	9669.830	9518.864	9301.443	8916.441	8313.295	7428.441	6191.813
40	10083.730	10193.520	9879.307	9375.843	9109.303	8938.833	8618.118	8116.099	7250.748	6095.742
45	9826.576	10184.850	9789.737	9296.386	8905.605	8584.169	8225.171	7663.920	6854.189	5842.205
50	9952.262	10283.810	9878.584	9339.003	8826.872	8334.242	7663.198	7019.603	6333.389	5371.968
55	10382.770	10647.140	10265.030	9671.997	8983.617	8077.093	7148.177	6341.334	5555.440	4742.819
60	10343.760	10794.500	10478.840	10203.630	9312.999	7938.406	6508.193	5369.079	4607.021	3860.854
65	7919.625	8506.157	8432.479	8654.234	8256.231	7578.686	5687.626	4210.461	3454.904	2738.353
70	1406.665	1993.631	3826.182	5338.019	5743.246	5038.251	4051.549	2819.976	2189.382	1803.658
75	603.579	755.991	860.078	1284.303	1395.325	2577.995	1404.209	1360.364	1058.936	794.563
80	302.584	350.980	379.946	400.965	573.602	707.378	537.991	360.659	304.896	373.445
85	145.838	167.653	190.623	194.018	178.993	187.589	160.141	125.469	82.635	51.574
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566
5	4120.892	3922.251	3800.178	3710.609	3623.929	3572.644	3552.419	3502.578	3509.801	3511.968
10	4107.890	3743.114	3555.308	3422.399	3298.881	3220.869	3187.642	3091.572	3082.904	3101.685
15	4139.673	3551.696	3302.493	3106.019	2897.265	2790.361	2742.687	2697.902	2665.398	2676.955
20	4316.644	3464.294	3051.844	2749.188	2627.114	2484.815	2393.801	2347.572	2323.735	2331.681
25	4518.896	3411.564	2809.864	2512.263	2325.180	2224.776	2130.151	2073.087	2053.584	2075.254
30	4653.250	3214.368	2640.838	2299.898	2066.586	1974.128	1875.168	1841.941	1823.883	1830.384
35	4679.976	3143.580	2389.468	2030.469	1839.774	1711.922	1660.636	1622.353	1602.128	1629.576
40	4664.807	3028.729	2205.273	1839.774	1614.407	1485.110	1394.819	1368.093	1349.312	1371.705
45	4418.492	2772.302	1987.852	1589.126	1319.697	1204.846	1127.557	1100.831	1060.380	1117.444
50	3900.582	2447.976	1638.244	1259.743	1040.155	898.578	813.344	781.561	772.171	783.006
55	3339.331	1971.961	1217.848	877.631	690.547	530.913	454.346	420.396	375.612	386.447

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CANDELA TABULATION - (Cont.)

60	2403.914	1253.242	738.221	452.179	395.837	168.086	62.048	44.929	37.995	41.895
65	1661.359	706.439	383.557	89.786	45.218	24.054	10.763	7.007	5.201	5.417
70	788.784	371.278	65.226	30.916	12.641	8.451	7.223	6.284	6.068	6.212
75	374.167	56.414	20.081	10.690	10.257	14.158	19.936	21.237	20.153	21.814
80	54.103	17.480	11.268	15.097	32.722	33.661	25.787	18.636	17.480	18.130
85	13.724	13.797	18.058	17.914	25.715	22.464	23.548	22.970	21.670	23.331
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566
5	3509.079	3542.306	3592.147	3649.211	3769.840	3883.246	4071.052	4311.587	4692.255	5118.430
10	3143.580	3173.196	3243.984	3346.555	3465.017	3649.211	3986.539	4626.523	5486.818	6289.327
15	2705.126	2737.631	2832.978	3044.621	3190.531	3425.288	3924.419	4930.625	6063.238	6971.207
20	2365.631	2420.528	2575.829	2674.788	2964.442	3280.823	3993.040	5203.665	6495.191	7443.610
25	2120.038	2206.718	2267.394	2466.757	2689.234	3224.481	4106.446	5398.694	6808.682	7783.105
30	1882.392	1952.458	2001.576	2224.054	2542.602	3004.892	4209.739	5519.323	6930.755	7835.835
35	1636.800	1689.530	1775.487	1960.403	2268.838	2929.048	4238.632	5556.162	6877.303	7812.721
40	1376.038	1450.438	1592.015	1742.260	2047.805	2819.254	4164.232	5489.708	6754.507	7614.080
45	1081.328	1171.619	1272.023	1473.553	1833.996	2524.543	3885.413	5249.171	6445.350	7257.249
50	777.949	863.907	983.813	1180.287	1525.561	2207.440	3456.349	4705.257	5871.098	6716.224
55	430.509	499.852	611.091	796.730	1087.107	1686.640	2906.656	4054.438	5212.333	5905.770
60	53.380	128.936	383.557	378.501	577.864	1056.769	2051.417	3124.799	4209.017	5007.914
65	7.584	20.948	33.588	60.892	178.271	455.790	1242.408	2073.087	3011.393	3770.562
70	6.284	6.862	8.379	18.925	46.229	117.090	490.462	1159.773	1424.218	2419.805
75	21.237	15.963	10.618	9.968	13.435	37.344	82.779	392.514	826.273	1026.575
80	22.753	33.733	32.938	19.142	11.413	11.124	32.866	69.922	220.961	264.301
85	23.981	22.392	24.198	18.636	16.325	19.936	9.101	27.737	66.093	104.738
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

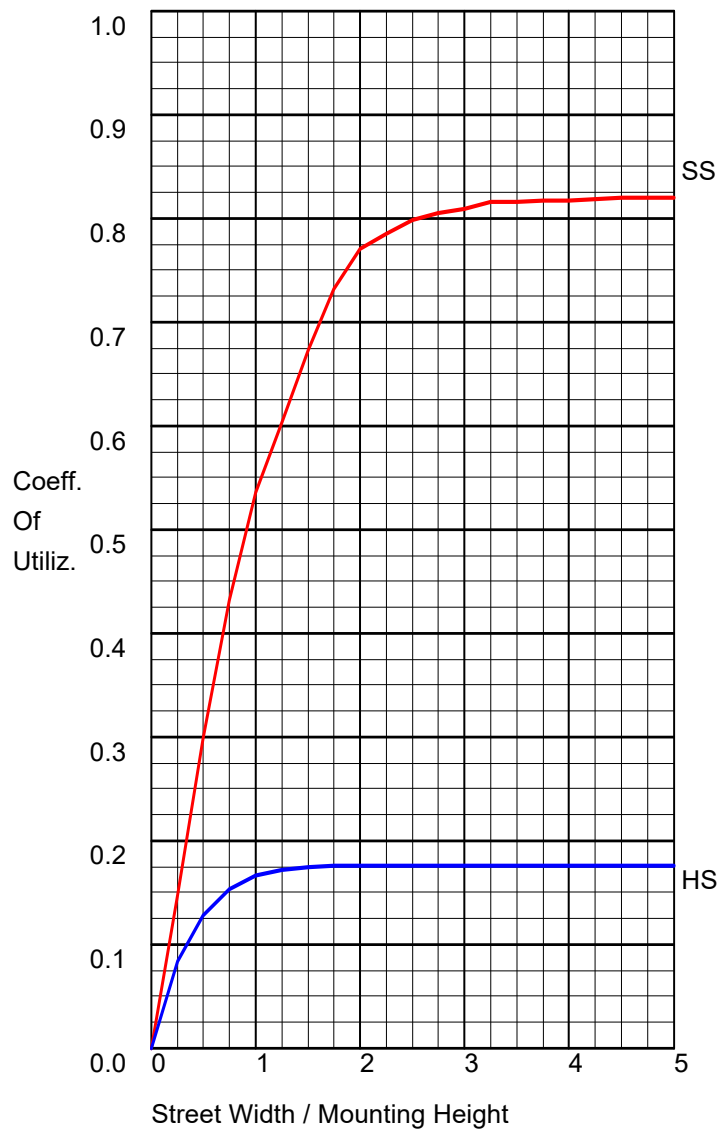
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566	4392.566
5	5576.387	5897.102	6220.706	6576.092	6624.488	6765.342	6878.026
10	6954.593	7309.257	7669.699	7968.021	8169.552	8305.350	8410.810
15	7659.587	8227.338	8648.457	8930.165	9105.691	9211.151	9312.999
20	8214.336	8695.407	9142.530	9576.650	9755.788	9823.688	9884.362
25	8442.592	9060.185	9432.906	9877.140	10137.900	10156.680	10170.410
30	8562.499	9080.409	9510.918	9789.016	10186.300	10211.580	10206.520
35	8425.257	8891.882	9226.320	9482.747	9781.070	10170.410	10161.020
40	8179.664	8540.829	8853.598	9130.251	9530.422	10169.680	10083.730
45	7731.820	8167.385	8602.227	9029.124	9518.864	10239.750	9826.576
50	7269.528	7932.627	8496.045	9077.521	9654.662	10383.490	9952.262
55	6667.828	7670.422	8555.998	9352.006	9989.823	10771.380	10382.770
60	6134.026	7497.785	8849.986	9823.688	10137.900	10776.440	10343.760
65	5077.979	6922.088	7841.614	8203.501	8436.813	8367.470	7919.625
70	3496.799	4446.663	5566.274	5334.407	3956.201	2128.706	1406.665
75	1379.217	1857.833	1435.197	1269.206	828.657	760.613	603.579
80	387.241	635.000	532.068	363.693	370.772	352.786	302.584
85	138.326	171.915	169.675	184.411	189.612	168.158	145.838
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

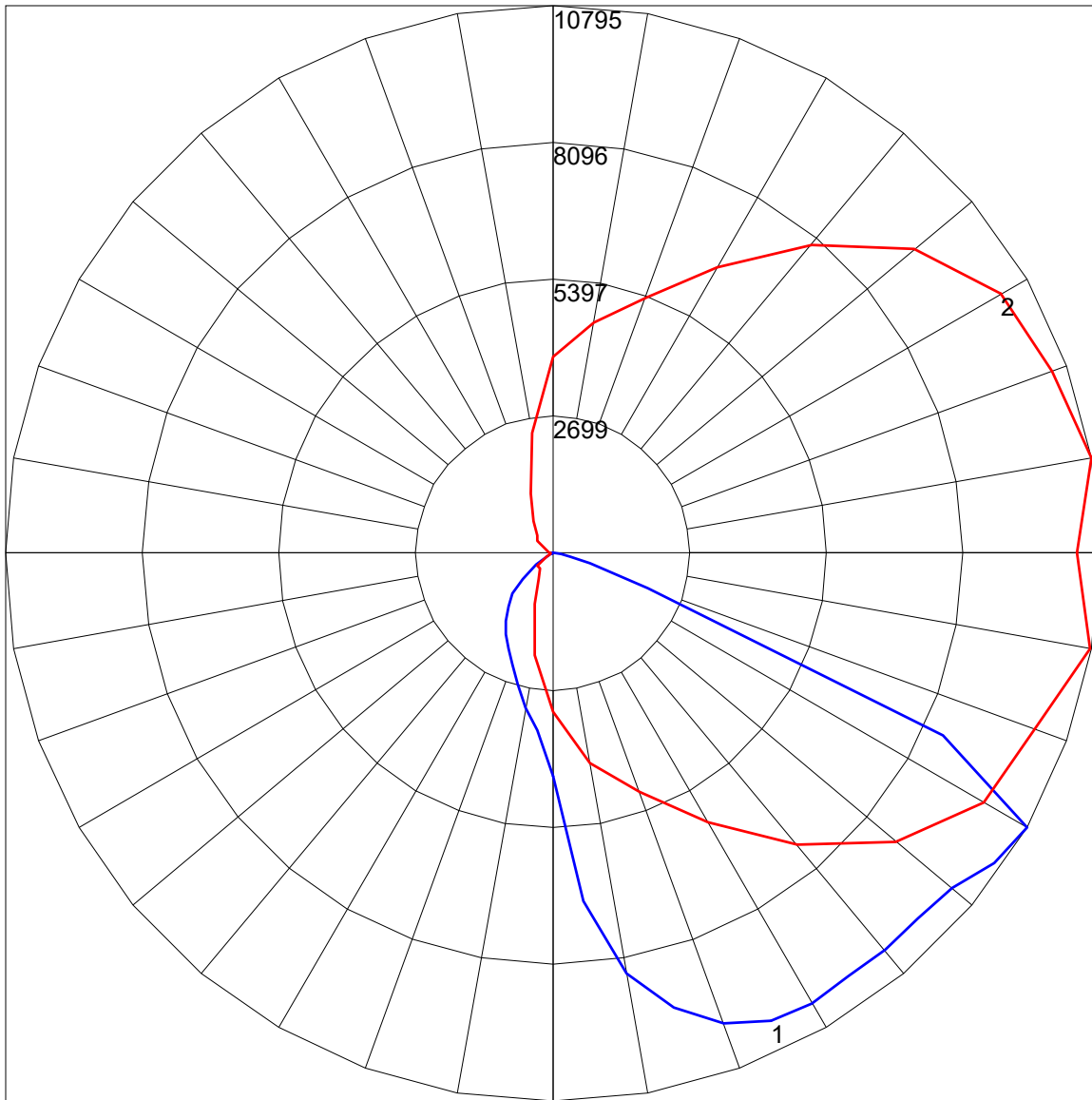
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

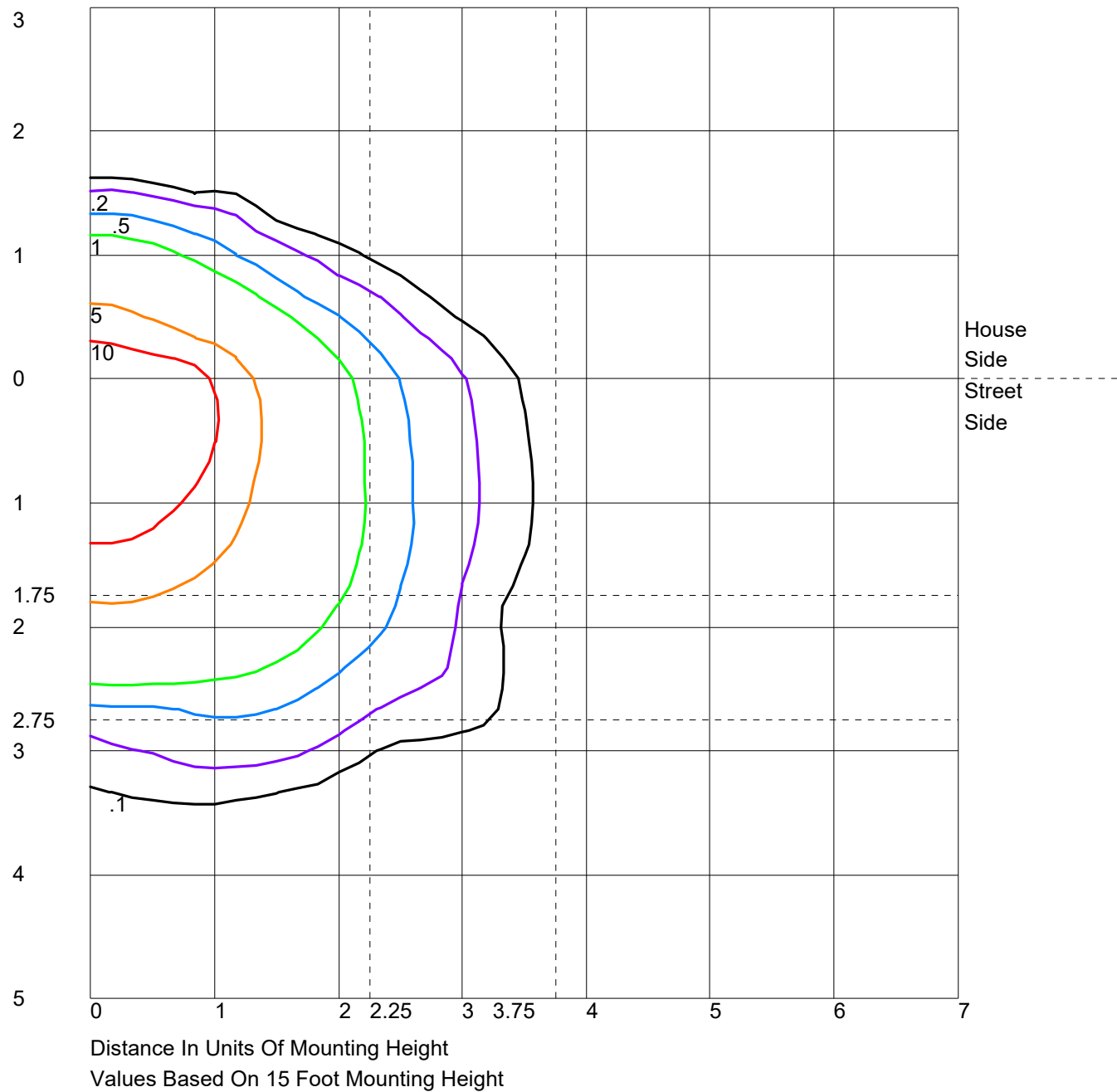
	Lumens	Percent Of Luminaire
Downward Street Side	17102.7	82.3
Downward House Side	3667.4	17.7
Downward Total	20770.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	20770.1	100.0

POLAR GRAPH

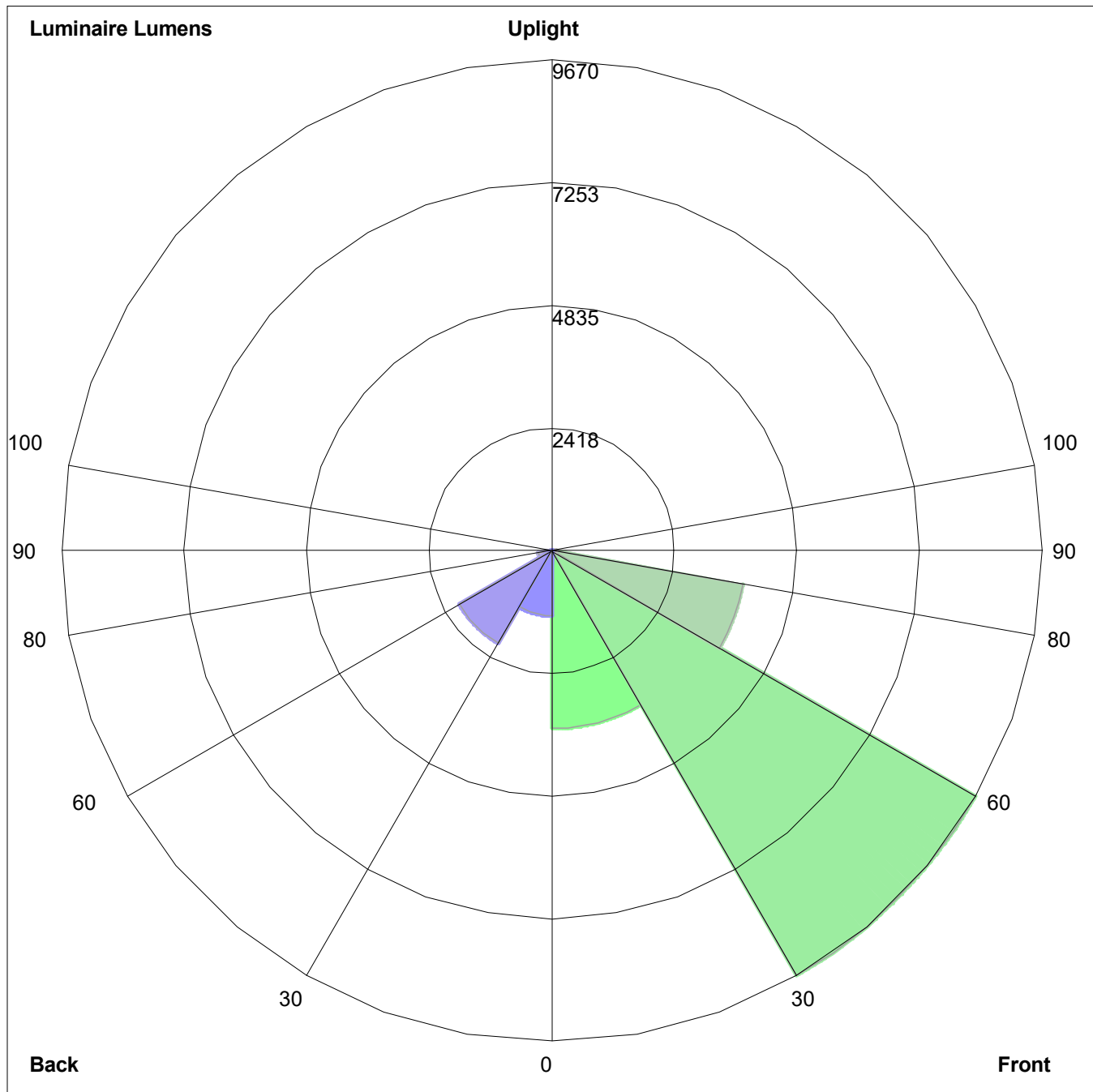


Maximum Candela = 10794.5 Located At Horizontal Angle = 10, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3509.8, Medium=9670.5, High=3827.2, Very High=95.2
Back: Low=1282.2, Medium=2106.6, High=268.2, Very High=10.5
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2