

IES ROAD REPORT PHOTOMETRIC FILENAME : 1394-2340024.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[NAME] INFORME DE RESULTADOS SIMPLIFICADO - FSLA01b V03 2023-04-14
[TESTING METHOD] ANSI/IES LM-79-19 Numerales 5 y 7.3
[TEST] 1394-2340024
[ISSUEDATE] 20-abr-23
[MANUFAC] ELECTROCONTROL S.A.S.
[LUMCAT] LED
[LUMINAIRE] Luminaria Magnus LED 180 W - M8B-40 5700K
[LAMPCAT] Magnus LED 3 Modulos
[LAMP] Modulos de LEDs - M8B-63 - M8B-40D5340
[BALLAST] LED Driver - INVENTRONICS - EUM-200S105DG
[TESTLAB] LAPEC LABORATORIO DE PRUEBAS Y ENSAYOS ELECTROCONTROL
[MORE] Voltaje (V): 220.05; Corriente (A): 0.8286; Potencia (W): 179.485; Frecuencia (Hz): 60
[MORE] Este informe contiene 12 paginas.
[MORE] El Anexo IES es parte integral de este informe.
[MORE] El presente informe NO puede reproducirse parcialmente sin la aprobacion del Laboratorio.
[MORE] El Laboratorio LAPEC NO es responsable de los perjuicios por el uso inadecuado de este informe.
[MORE] Calle 59 No. 59-194 Copacabana, Antioquia; Tel: (+57) 314 488 7855
[MORE] Lapec@electrocontrol.com.co; Tlaboratorio@electrocontrol.com.co; <https://www.electrocontrol.com.co/>

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26918
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	179.458
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	51421.114
Maximum Candela Angle	0H 0V
Maximum Candela (<90 Degrees Vertical)	51421.114
Maximum Candela Angle (<90 Degrees Vertical)	0H 0V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	198.051 (0.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	11046.6	N.A.	41.0
FM - Front-Medium (30-60)	2091.7	N.A.	7.8
FH - Front-High (60-80)	286.3	N.A.	1.1
FVH - Front-Very High (80-90)	34.3	N.A.	0.1
BL - Back-Low (0-30)	11046.6	N.A.	41.0
BM - Back-Medium (30-60)	2091.7	N.A.	7.8
BH - Back-High (60-80)	286.3	N.A.	1.1
BVH - Back-Very High (80-90)	34.3	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	26917.8	N.A.	100.0
BUG Rating	B5-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	10	15	20	25	30	35	40	45
0.0	51421.1145	1421.1145	1421.1145	1421.1145	1421.1145	1421.1145	1421.1145	1421.1145	1421.1145	1421.114
2.5	50989.1445	1128.7155	1163.5435	1111.3025	1059.0605	1041.6465	1041.6465	0989.1445	0954.3165	0936.902
5.0	50866.9865	0919.4885	1059.0605	1076.4745	1093.8885	1128.7155	1163.5435	1128.7155	1163.5435	1198.631
7.5	49450.2174	9485.3054	9660.4844	9765.4884	9853.0774	9905.5794	9975.4954	9975.4955	0045.6715	0150.414
10.0	46742.2144	6724.5414	6918.4334	7041.8914	7094.9124	7112.3264	7077.2384	7094.9124	7094.9124	7271.131
12.5	43557.2774	3592.8854	3752.4704	3805.7514	3699.1884	3557.2774	3326.7374	3149.2194	3113.6114	3220.174
15.0	40089.8184	0161.0334	0268.1164	0232.2493	9858.2383	9590.7913	9091.7643	8646.0183	8431.8523	8271.228
17.5	35326.1873	5433.2703	5575.9613	5468.8783	5040.2863	4522.5463	33808.3133	3147.8823	2808.6993	2362.694
20.0	28549.0342	8726.8132	8762.4202	8673.5312	8264.4332	7766.7052	7109.3932	6576.8372	6310.6892	5814.521
22.5	21385.6552	1473.2442	1578.7682	1684.2912	1666.6172	1403.0692	0929.2532	0526.1322	0315.8652	0071.030
25.0	12911.5491	2962.7511	3116.3581	3475.0341	3714.6711	4143.0031	4366.0051	4623.5761	4709.6061	4692.452
27.5	8487.881	8504.515	8571.312	8688.271	8805.491	8955.979	9106.727	9391.588	9542.596	9710.757
30.0	6908.928	6925.562	6958.570	6991.579	7008.213	7057.856	7074.490	7124.133	7207.044	7273.321
32.5	5553.237	5553.237	5619.774	5664.479	5642.126	5664.479	5709.183	5709.183	5731.535	5754.147
35.0	4329.841	4349.854	4369.867	4369.867	4349.854	4349.854	4349.854	4349.854	4390.140	4410.153
37.5	3320.090	3320.090	3338.284	3320.090	3284.223	3284.223	3284.223	3302.157	3320.090	3338.284
40.0	2365.701	2365.701	2397.670	2413.784	2365.701	2365.701	2365.701	2413.784	2381.815	2397.670
42.5	1645.750	1630.675	1645.750	1600.526	1570.116	1570.116	1585.451	1585.451	1600.526	1585.451
45.0	1077.847	1109.296	1077.847	999.094	967.385	967.385	935.416	999.094	1030.803	1014.949
47.5	758.157	823.135	741.783	692.660	692.660	676.026	692.660	692.660	741.783	758.157
50.0	741.783	774.272	709.034	609.749	593.115	576.480	576.480	609.749	609.749	609.749
52.5	692.660	725.409	626.383	526.058	542.952	542.952	526.058	526.058	542.952	526.058
55.0	593.115	609.749	609.749	542.952	475.375	458.481	475.375	492.270	509.164	509.164
57.5	526.058	526.058	526.058	475.375	475.375	475.375	475.375	475.375	475.375	458.481
60.0	458.481	475.375	441.327	424.433	424.433	424.433	407.279	424.433	424.433	390.125
62.5	407.279	407.279	355.557	355.557	372.711	372.711	372.711	338.143	355.557	338.143
65.0	372.711	372.711	355.557	355.557	372.711	338.143	372.711	372.711	320.989	338.143
67.5	320.989	338.143	338.143	303.575	355.557	320.989	320.989	303.575	286.161	303.575
70.0	338.143	355.557	338.143	338.143	338.143	303.575	320.989	303.575	286.161	286.161
72.5	286.161	320.989	286.161	268.487	286.161	286.161	251.073	268.487	251.073	251.073
75.0	233.399	233.399	198.051	215.725	251.073	215.725	198.051	162.444	180.378	198.051
77.5	162.444	162.444	144.770	198.051	162.444	162.444	162.444	162.444	144.770	180.378
80.0	198.051	198.051	180.378	198.051	198.051	180.378	198.051	144.770	162.444	144.770
82.5	126.836	90.709	108.902	90.709	90.709	126.836	126.836	126.836	126.836	126.836
85.0	54.581	54.581	36.387	72.775	54.581	90.709	72.775	90.709	18.194	18.194
87.5	0.000	0.000	36.387	54.581	36.387	36.387	18.194	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles										
	50	55	60	65	70	75	80	85	90	95	
0.0	51421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.114										
2.5	50954.31650954.31651023.97251006.55851006.55850954.31651023.97250989.14450849.57250989.144										
5.0	51198.63151233.45951303.11551285.70151268.28751216.04551180.95751111.30251023.97251111.302										
7.5	50255.41850273.09250377.83550447.75150500.25350395.24950395.24950290.50650238.00450290.506										
10.0	47482.43847658.39747869.70448098.42548291.79848326.88648379.64748309.21248239.03648309.212										
12.5	43433.04043592.88543805.75144142.59544302.17944443.83044443.83044302.17944248.89844302.179										
15.0	38289.16138289.16138342.70338485.39438610.15038770.77538663.69238503.32738324.76938503.327										
17.5	32273.28532023.51131898.75431898.75431880.82131969.97031862.88731720.19631577.50631720.196										
20.0	25690.28425548.63325548.63325672.61025832.19526080.40926115.75726080.40925938.49826080.409										
22.5	19983.44019913.52420071.03020245.94920386.04120491.04420350.95320140.94619861.02320140.946										
25.0	14709.60614640.73014623.57614554.96014383.15914194.46513903.10613680.36313458.14013680.363										
27.5	9845.131 9828.237 9794.708 9744.286 9643.441 9559.490 9391.588 9341.425 9223.946 9341.425										
30.0	7339.598 7356.233 7389.501 7389.501 7356.233 7372.867 7372.867 7422.510 7389.501 7422.510										
32.5	5821.724 5844.336 5889.821 5889.821 5957.917 5980.789 5980.789 6072.537 6072.537 6072.537										
35.0	4430.426 4470.972 4511.518 4552.324 4552.324 4572.857 4511.518 4593.389 4593.389 4593.389										
37.5	3374.671 3374.671 3374.671 3429.253 3374.671 3338.284 3248.095 3266.029 3230.161 3266.029										

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CANDELA TABULATION - (Cont.)

40.0	2413.784	2413.784	2430.159	2413.784	2349.586	2270.314	2172.588	2127.103	2096.954	2127.103
42.5	1630.675	1630.675	1615.601	1600.526	1509.557	1479.148	1372.325	1310.986	1326.321	1310.986
45.0	1030.803	1046.398	1030.803	1030.803	951.531	951.531	919.562	903.447	887.593	903.447
47.5	741.783	709.034	741.783	758.157	725.409	692.660	692.660	692.660	741.783	692.660
50.0	609.749	626.383	643.017	626.383	626.383	609.749	609.749	626.383	692.660	626.383
52.5	509.164	509.164	526.058	542.952	492.270	542.952	526.058	526.058	659.652	526.058
55.0	492.270	475.375	509.164	458.481	492.270	475.375	526.058	542.952	626.383	542.952
57.5	441.327	441.327	424.433	407.279	424.433	441.327	441.327	441.327	526.058	441.327
60.0	407.279	424.433	407.279	390.125	355.557	372.711	372.711	355.557	407.279	355.557
62.5	355.557	355.557	372.711	338.143	338.143	355.557	338.143	338.143	338.143	338.143
65.0	355.557	338.143	355.557	338.143	338.143	338.143	320.989	355.557	338.143	355.557
67.5	303.575	338.143	338.143	338.143	320.989	303.575	286.161	303.575	338.143	303.575
70.0	303.575	303.575	303.575	268.487	251.073	286.161	251.073	303.575	303.575	303.575
72.5	268.487	268.487	268.487	251.073	251.073	251.073	251.073	251.073	268.487	251.073
75.0	180.378	180.378	180.378	198.051	198.051	215.725	198.051	198.051	233.399	198.051
77.5	180.378	198.051	215.725	198.051	144.770	162.444	162.444	198.051	144.770	198.051
80.0	162.444	162.444	162.444	144.770	108.902	126.836	108.902	144.770	144.770	144.770
82.5	54.581	90.709	72.775	90.709	72.775	126.836	126.836	126.836	108.902	126.836
85.0	54.581	54.581	54.581	54.581	36.387	18.194	54.581	54.581	72.775	54.581
87.5	0.000	0.000	0.000	0.000	36.387	0.000	18.194	0.000	18.194	0.000
90.0	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>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	51421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.114									
2.5	51023.97250954.31651006.55851006.55851023.97250954.31650954.31650936.90250954.31650989.144									
5.0	51180.95751216.04551268.28751285.70151303.11551233.45951198.63151198.63151163.54351128.715									
7.5	50395.24950395.24950500.25350447.75150377.83550273.09250255.41850150.41450045.67149975.495									
10.0	48379.64748326.88648291.79848098.42547869.70447658.39747482.43847271.13147094.91247094.912									
12.5	44443.83044443.83044302.17944142.59443805.75143592.88543433.04043220.17443113.61143149.219									
15.0	38663.69238770.77538610.15038485.39438342.70338289.16138289.16138271.22838431.85238646.018									
17.5	31862.88731969.97031880.82131898.75431898.75432023.51132273.28532362.69432808.69933147.882									
20.0	26115.75726080.40925832.19525672.61025548.63325548.63325690.28425814.52126310.68926576.837									
22.5	20350.95320491.04420386.04120245.94920071.03019913.52419983.44020071.03020315.86520526.132									
25.0	13903.10614194.46514383.15914554.96014623.57614640.73014709.60614692.45214709.60614623.576									
27.5	9391.588 9559.490 9643.441 9744.286 9794.708 9828.237 9845.131 9710.757 9542.596 9391.588									
30.0	7372.867 7372.867 7356.233 7389.501 7389.501 7356.233 7339.598 7273.321 7207.044 7124.133									
32.5	5980.789 5980.789 5957.917 5889.821 5889.821 5844.336 5821.724 5754.147 5731.535 5709.183									
35.0	4511.518 4572.857 4552.324 4552.324 4511.518 4470.972 4430.426 4410.153 4390.140 4349.854									
37.5	3248.095 3338.284 3374.671 3429.253 3374.671 3374.671 3374.671 3338.284 3320.090 3302.157									
40.0	2172.588 2270.314 2349.586 2413.784 2430.159 2413.784 2413.784 2397.670 2381.815 2413.784									
42.5	1372.325 1479.148 1509.557 1600.526 1615.601 1630.675 1630.675 1585.451 1600.526 1585.451									
45.0	919.562 951.531 951.531 1030.803 1030.803 1046.398 1030.803 1014.949 1030.803 999.094									
47.5	692.660 692.660 725.409 758.157 741.783 709.034 741.783 758.157 741.783 692.660									
50.0	609.749 609.749 626.383 626.383 643.017 626.383 609.749 609.749 609.749 609.749									
52.5	526.058 542.952 492.270 542.952 526.058 509.164 509.164 526.058 542.952 526.058									
55.0	526.058 475.375 492.270 458.481 509.164 475.375 492.270 509.164 509.164 492.270									
57.5	441.327 441.327 424.433 407.279 424.433 441.327 441.327 458.481 475.375 475.375									
60.0	372.711 372.711 355.557 390.125 407.279 424.433 407.279 390.125 424.433 424.433									
62.5	338.143 355.557 338.143 338.143 372.711 355.557 355.557 338.143 355.557 338.143									
65.0	320.989 338.143 338.143 338.143 355.557 338.143 355.557 338.143 320.989 372.711									
67.5	286.161 303.575 320.989 338.143 338.143 338.143 303.575 303.575 286.161 303.575									
70.0	251.073 286.161 251.073 268.487 303.575 303.575 303.575 286.161 286.161 303.575									
72.5	251.073 251.073 251.073 251.073 268.487 268.487 268.487 251.073 251.073 268.487									
75.0	198.051 215.725 198.051 198.051 180.378 180.378 180.378 198.051 180.378 162.444									
77.5	162.444 162.444 144.770 198.051 215.725 198.051 180.378 180.378 144.770 162.444									
80.0	108.902 126.836 108.902 144.770 162.444 162.444 162.444 144.770 162.444 144.770									
82.5	126.836 126.836 72.775 90.709 72.775 90.709 54.581 126.836 126.836 126.836									
85.0	54.581 18.194 36.387 54.581 54.581 54.581 54.581 18.194 18.194 90.709									

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CANDELA TABULATION - (Cont.)

87.5	18.194	0.000	36.387	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>	<u>185</u>	<u>190</u>	<u>195</u>
0.0	51421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.114									
2.5	51041.64651041.64651059.06051111.30251163.54351128.71550989.14451128.71551163.54351111.302									
5.0	51163.54351128.71551093.88851076.47451059.06050919.48850866.98650919.48851059.06051076.474									
7.5	49975.49549905.57949853.07749765.48849660.48449485.30549450.21749485.30549660.48449765.488									
10.0	47077.23847112.32647094.91247041.89146918.43346724.54146742.21446724.54146918.43347041.891									
12.5	43326.73743557.27743699.18843805.75143752.47043592.88543557.27743592.88543752.47043805.751									
15.0	39091.76439590.79139858.23840232.24940268.11640161.03340089.81840161.03340268.11640232.249									
17.5	33808.31334522.54635040.28635468.87835575.96135433.27035326.18735433.27035575.96135468.878									
20.0	27109.39327766.70528264.43328673.53128762.42028726.81328549.03428726.81328762.42028673.531									
22.5	20929.25321403.06921666.61721684.29121578.76821473.24421385.65521473.24421578.76821684.291									
25.0	14366.00514143.00313714.67113475.03413116.35812962.75112911.54912962.75113116.35813475.034									
27.5	9106.727 8955.979 8805.491 8688.271 8571.312 8504.515 8487.881 8504.515 8571.312 8688.271									
30.0	7074.490 7057.856 7008.213 6991.579 6958.570 6925.562 6908.928 6925.562 6958.570 6991.579									
32.5	5709.183 5664.479 5642.126 5664.479 5619.774 5553.237 5553.237 5553.237 5619.774 5664.479									
35.0	4349.854 4349.854 4349.854 4369.867 4369.867 4349.854 4329.841 4349.854 4369.867 4369.867									
37.5	3284.223 3284.223 3284.223 3320.090 3338.284 3320.090 3320.090 3320.090 3338.284 3320.090									
40.0	2365.701 2365.701 2365.701 2413.784 2397.670 2365.701 2365.701 2365.701 2397.670 2413.784									
42.5	1585.451 1570.116 1570.116 1600.526 1645.750 1630.675 1645.750 1630.675 1645.750 1600.526									
45.0	935.416 967.385 967.385 999.094 1077.847 1109.296 1077.847 1109.296 1077.847 999.094									
47.5	692.660 676.026 692.660 692.660 741.783 823.135 758.157 823.135 741.783 692.660									
50.0	576.480 576.480 593.115 609.749 709.034 774.272 741.783 774.272 709.034 609.749									
52.5	526.058 542.952 542.952 526.058 626.383 725.409 692.660 725.409 626.383 526.058									
55.0	475.375 458.481 475.375 542.952 609.749 609.749 593.115 609.749 609.749 542.952									
57.5	475.375 475.375 475.375 475.375 526.058 526.058 526.058 526.058 526.058 475.375									
60.0	407.279 424.433 424.433 424.433 441.327 475.375 458.481 475.375 441.327 424.433									
62.5	372.711 372.711 372.711 355.557 355.557 407.279 407.279 407.279 355.557 355.557									
65.0	372.711 338.143 372.711 355.557 355.557 372.711 372.711 372.711 355.557 355.557									
67.5	320.989 320.989 355.557 303.575 338.143 338.143 320.989 338.143 338.143 303.575									
70.0	320.989 303.575 338.143 338.143 338.143 355.557 338.143 355.557 338.143 338.143									
72.5	251.073 286.161 286.161 268.487 286.161 320.989 286.161 320.989 286.161 268.487									
75.0	198.051 215.725 251.073 215.725 198.051 233.399 233.399 233.399 198.051 215.725									
77.5	162.444 162.444 162.444 198.051 144.770 162.444 162.444 162.444 144.770 198.051									
80.0	198.051 180.378 198.051 198.051 180.378 198.051 198.051 198.051 180.378 198.051									
82.5	126.836 126.836 90.709 90.709 108.902 90.709 126.836 90.709 108.902 90.709									
85.0	72.775 90.709 54.581 72.775 36.387 54.581 54.581 54.581 36.387 72.775									
87.5	18.194 36.387 36.387 54.581 36.387 0.000 0.000 0.000 36.387 54.581									
90.0	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>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0.0	51421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.114									
2.5	51059.06051041.64651041.64650989.14450954.31650936.90250954.31650954.31651023.97251006.558									
5.0	51093.88851128.71551163.54351128.71551163.54351198.63151198.63151233.45951303.11551285.701									
7.5	49853.07749905.57949975.49549975.49550045.67150150.41450255.41850273.09250377.83550447.751									
10.0	47094.91247112.32647077.23847094.91247094.91247271.13147482.43847658.39747869.70448098.425									
12.5	43699.18843557.27743326.73743149.21943113.61143220.17443433.04043592.88543805.75144142.595									
15.0	39858.23839590.79139091.76438646.01838431.85238271.22838289.16138289.16138342.70338485.394									
17.5	35040.28634522.54633808.31333147.88232808.69932362.69432273.28532023.51131898.75431898.754									
20.0	28264.43327766.70527109.39326576.83726310.68925814.52125690.28425548.63325548.63325672.610									
22.5	21666.61721403.06920929.25320526.13220315.86520071.03019983.44019913.52420071.03020245.949									
25.0	13714.67114143.00314366.00514623.57614709.60614692.45214709.60614640.73014623.57614554.960									
27.5	8805.491 8955.979 9106.727 9391.588 9542.596 9710.757 9845.131 9828.237 9794.708 9744.286									
30.0	7008.213 7057.856 7074.490 7124.133 7207.044 7273.321 7339.598 7356.233 7389.501 7389.501									

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CANDELA TABULATION - (Cont.)

32.5	5642.126	5664.479	5709.183	5709.183	5731.535	5754.147	5821.724	5844.336	5889.821	5889.821
35.0	4349.854	4349.854	4349.854	4349.854	4390.140	4410.153	4430.426	4470.972	4511.518	4552.324
37.5	3284.223	3284.223	3284.223	3302.157	3320.090	3338.284	3374.671	3374.671	3374.671	3429.253
40.0	2365.701	2365.701	2365.701	2413.784	2381.815	2397.670	2413.784	2413.784	2430.159	2413.784
42.5	1570.116	1570.116	1585.451	1585.451	1600.526	1585.451	1630.675	1630.675	1615.601	1600.526
45.0	967.385	967.385	935.416	999.094	1030.803	1014.949	1030.803	1046.398	1030.803	1030.803
47.5	692.660	676.026	692.660	692.660	741.783	758.157	741.783	709.034	741.783	758.157
50.0	593.115	576.480	576.480	609.749	609.749	609.749	609.749	626.383	643.017	626.383
52.5	542.952	542.952	526.058	526.058	542.952	526.058	509.164	509.164	526.058	542.952
55.0	475.375	458.481	475.375	492.270	509.164	509.164	492.270	475.375	509.164	458.481
57.5	475.375	475.375	475.375	475.375	475.375	458.481	441.327	441.327	424.433	407.279
60.0	424.433	424.433	407.279	424.433	424.433	390.125	407.279	424.433	407.279	390.125
62.5	372.711	372.711	372.711	338.143	355.557	338.143	355.557	355.557	372.711	338.143
65.0	372.711	338.143	372.711	372.711	320.989	338.143	355.557	338.143	355.557	338.143
67.5	355.557	320.989	320.989	303.575	286.161	303.575	303.575	338.143	338.143	338.143
70.0	338.143	303.575	320.989	303.575	286.161	286.161	303.575	303.575	303.575	268.487
72.5	286.161	286.161	251.073	268.487	251.073	251.073	268.487	268.487	268.487	251.073
75.0	251.073	215.725	198.051	162.444	180.378	198.051	180.378	180.378	180.378	198.051
77.5	162.444	162.444	162.444	162.444	144.770	180.378	180.378	198.051	215.725	198.051
80.0	198.051	180.378	198.051	144.770	162.444	144.770	162.444	162.444	162.444	144.770
82.5	90.709	126.836	126.836	126.836	126.836	126.836	54.581	90.709	72.775	90.709
85.0	54.581	90.709	72.775	90.709	18.194	18.194	54.581	54.581	54.581	54.581
87.5	36.387	36.387	18.194	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	250	255	260	265	270	275	280	285	290	295
0.0	51421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.114									
2.5	51006.55850954.31651023.97250989.14450849.57250989.14451023.97250954.31651006.55851006.558									
5.0	51268.28751216.04551180.95751111.30251023.97251111.30251180.95751216.04551268.28751285.701									
7.5	50500.25350395.24950395.24950290.50650238.00450290.50650395.24950395.24950500.25350447.751									
10.0	48291.79848326.88648379.64748309.21248239.03648309.21248379.64748326.88648291.79848098.425									
12.5	44302.17944443.83044443.83044302.17944248.89844302.17944443.83044443.83044302.17944142.595									
15.0	38610.15038770.77538663.69238503.32738324.76938503.32738663.69238770.77538610.15038485.394									
17.5	31880.82131969.97031862.88731720.19631577.50631720.19631862.88731969.97031880.82131898.754									
20.0	25832.19526080.40926115.75726080.40925938.49826080.40926115.75726080.40925832.19525672.610									
22.5	20386.04120491.04420350.95320140.94619861.02320140.94620350.95320491.04420386.04120245.949									
25.0	14383.15914194.46513903.10613680.36313458.14013680.36313903.10614194.46514383.15914554.960									
27.5	9643.441 9559.490 9391.588 9341.425 9223.946 9341.425 9391.588 9559.490 9643.441 9744.286									
30.0	7356.233 7372.867 7372.867 7422.510 7389.501 7422.510 7372.867 7372.867 7356.233 7389.501									
32.5	5957.917 5980.789 5980.789 6072.537 6072.537 6072.537 5980.789 5980.789 5957.917 5889.821									
35.0	4552.324 4572.857 4511.518 4593.389 4593.389 4593.389 4511.518 4572.857 4552.324 4552.324									
37.5	3374.671 3338.284 3248.095 3266.029 3230.161 3266.029 3248.095 3338.284 3374.671 3429.253									
40.0	2349.586 2270.314 2172.588 2127.103 2096.954 2127.103 2172.588 2270.314 2349.586 2413.784									
42.5	1509.557 1479.148 1372.325 1310.986 1326.321 1310.986 1372.325 1479.148 1509.557 1600.526									
45.0	951.531 951.531 919.562 903.447 887.593 903.447 919.562 951.531 951.531 1030.803									
47.5	725.409 692.660 692.660 692.660 741.783 692.660 692.660 692.660 725.409 758.157									
50.0	626.383 609.749 609.749 626.383 692.660 626.383 609.749 609.749 626.383 626.383									
52.5	492.270 542.952 526.058 526.058 659.652 526.058 526.058 542.952 492.270 542.952									
55.0	492.270 475.375 526.058 542.952 626.383 542.952 526.058 475.375 492.270 458.481									
57.5	424.433 441.327 441.327 441.327 526.058 441.327 441.327 441.327 424.433 407.279									
60.0	355.557 372.711 372.711 355.557 407.279 355.557 372.711 372.711 355.557 390.125									
62.5	338.143 355.557 338.143 338.143 338.143 338.143 338.143 355.557 338.143 338.143									
65.0	338.143 338.143 320.989 355.557 338.143 355.557 320.989 338.143 338.143 338.143									
67.5	320.989 303.575 286.161 303.575 338.143 303.575 286.161 303.575 320.989 338.143									
70.0	251.073 286.161 251.073 303.575 303.575 303.575 251.073 286.161 251.073 268.487									
72.5	251.073 251.073 251.073 251.073 268.487 251.073 251.073 251.073 251.073 251.073									
75.0	198.051 215.725 198.051 198.051 233.399 198.051 198.051 215.725 198.051 198.051									
77.5	144.770 162.444 162.444 198.051 144.770 198.051 162.444 162.444 144.770 198.051									

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CANDELA TABULATION - (Cont.)

80.0	108.902	126.836	108.902	144.770	144.770	144.770	108.902	126.836	108.902	144.770
82.5	72.775	126.836	126.836	126.836	108.902	126.836	126.836	126.836	72.775	90.709
85.0	36.387	18.194	54.581	54.581	72.775	54.581	54.581	18.194	36.387	54.581
87.5	36.387	0.000	18.194	0.000	18.194	0.000	18.194	0.000	36.387	0.000
90.0	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>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0.0	51421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.11451421.114									
2.5	51023.97250954.31650954.31650936.90250954.31650989.14451041.64651041.64651059.06051111.302									
5.0	51303.11551233.45951198.63151198.63151163.54351128.71551163.54351128.71551093.88851076.474									
7.5	50377.83550273.09250255.41850150.41450045.67149975.49549975.49549905.57949853.07749765.488									
10.0	47869.70447658.39747482.43847271.13147094.91247094.91247077.23847112.32647094.91247041.891									
12.5	43805.75143592.88543433.04043220.17443113.61143149.21943326.73743557.27743699.18843805.751									
15.0	38342.70338289.16138289.16138271.22838431.85238646.01839091.76439590.79139858.23840232.249									
17.5	31898.75432023.51132273.28532362.69432808.69933147.88233808.31334522.54635040.28635468.878									
20.0	25548.63325548.63325690.28425814.52126310.68926576.83727109.39327766.70528264.43328673.531									
22.5	20071.03019913.52419983.44020071.03020315.86520526.13220929.25321403.06921666.61721684.291									
25.0	14623.57614640.73014709.60614692.45214709.60614623.57614366.00514143.00313714.67113475.034									
27.5	9794.708 9828.237 9845.131 9710.757 9542.596 9391.588 9106.727 8955.979 8805.491 8688.271									
30.0	7389.501 7356.233 7339.598 7273.321 7207.044 7124.133 7074.490 7057.856 7008.213 6991.579									
32.5	5889.821 5844.336 5821.724 5754.147 5731.535 5709.183 5709.183 5664.479 5642.126 5664.479									
35.0	4511.518 4470.972 4430.426 4410.153 4390.140 4349.854 4349.854 4349.854 4349.854 4369.867									
37.5	3374.671 3374.671 3374.671 3338.284 3320.090 3302.157 3284.223 3284.223 3284.223 3320.090									
40.0	2430.159 2413.784 2413.784 2397.670 2381.815 2413.784 2365.701 2365.701 2365.701 2413.784									
42.5	1615.601 1630.675 1630.675 1585.451 1600.526 1585.451 1585.451 1570.116 1570.116 1600.526									
45.0	1030.803 1046.398 1030.803 1014.949 1030.803 999.094 935.416 967.385 967.385 999.094									
47.5	741.783 709.034 741.783 758.157 741.783 692.660 692.660 676.026 692.660 692.660									
50.0	643.017 626.383 609.749 609.749 609.749 609.749 576.480 576.480 593.115 609.749									
52.5	526.058 509.164 509.164 526.058 542.952 526.058 526.058 542.952 542.952 526.058									
55.0	509.164 475.375 492.270 509.164 509.164 492.270 475.375 458.481 475.375 542.952									
57.5	424.433 441.327 441.327 458.481 475.375 475.375 475.375 475.375 475.375 475.375									
60.0	407.279 424.433 407.279 390.125 424.433 424.433 407.279 424.433 424.433 424.433									
62.5	372.711 355.557 355.557 338.143 355.557 338.143 372.711 372.711 372.711 355.557									
65.0	355.557 338.143 355.557 338.143 320.989 372.711 372.711 338.143 372.711 355.557									
67.5	338.143 338.143 303.575 303.575 286.161 303.575 320.989 320.989 355.557 303.575									
70.0	303.575 303.575 303.575 286.161 286.161 303.575 320.989 303.575 338.143 338.143									
72.5	268.487 268.487 268.487 251.073 251.073 268.487 251.073 286.161 286.161 268.487									
75.0	180.378 180.378 180.378 198.051 180.378 162.444 198.051 215.725 251.073 215.725									
77.5	215.725 198.051 180.378 180.378 144.770 162.444 162.444 162.444 162.444 198.051									
80.0	162.444 162.444 162.444 144.770 162.444 144.770 198.051 180.378 198.051 198.051									
82.5	72.775 90.709 54.581 126.836 126.836 126.836 126.836 126.836 90.709 90.709									
85.0	54.581 54.581 54.581 18.194 18.194 90.709 72.775 90.709 54.581 72.775									
87.5	0.000 0.000 0.000 0.000 0.000 0.000 18.194 36.387 36.387 54.581									
90.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									

Vert. Angles **Horizontal Angles**

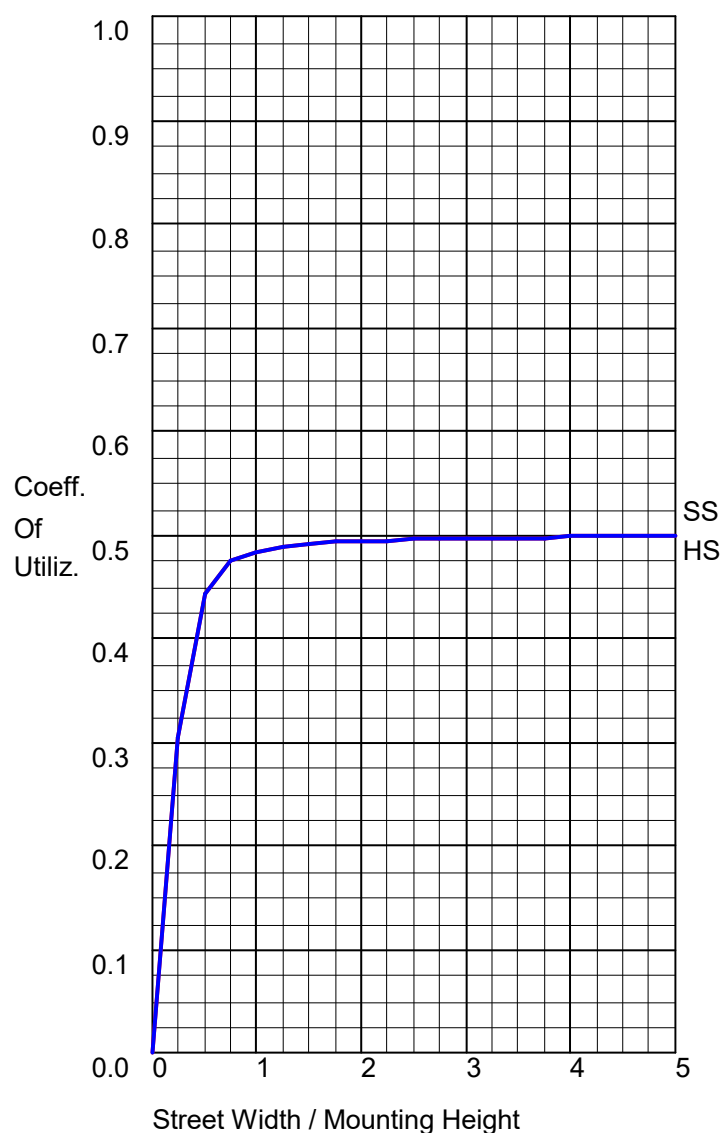
	<u>350</u>	<u>355</u>	<u>360</u>
0.0	51421.11451421.11451421.114		
2.5	51163.54351128.71550989.144		
5.0	51059.06050919.48850866.986		
7.5	49660.48449485.30549450.217		
10.0	46918.43346724.54146742.214		
12.5	43752.47043592.88543557.277		
15.0	40268.11640161.03340089.818		
17.5	35575.96135433.27035326.187		
20.0	28762.42028726.81328549.034		
22.5	21578.76821473.24421385.655		

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CANDELA TABULATION - (Cont.)

25.0	13116.35812962.75112911.549		
27.5	8571.312 8504.515 8487.881		
30.0	6958.570 6925.562 6908.928		
32.5	5619.774 5553.237 5553.237		
35.0	4369.867 4349.854 4329.841		
37.5	3338.284 3320.090 3320.090		
40.0	2397.670 2365.701 2365.701		
42.5	1645.750 1630.675 1645.750		
45.0	1077.847 1109.296 1077.847		
47.5	741.783 823.135 758.157		
50.0	709.034 774.272 741.783		
52.5	626.383 725.409 692.660		
55.0	609.749 609.749 593.115		
57.5	526.058 526.058 526.058		
60.0	441.327 475.375 458.481		
62.5	355.557 407.279 407.279		
65.0	355.557 372.711 372.711		
67.5	338.143 338.143 320.989		
70.0	338.143 355.557 338.143		
72.5	286.161 320.989 286.161		
75.0	198.051 233.399 233.399		
77.5	144.770 162.444 162.444		
80.0	180.378 198.051 198.051		
82.5	108.902 90.709 126.836		
85.0	36.387 54.581 54.581		
87.5	36.387 0.000 0.000		
90.0	0.000 0.000 0.000		

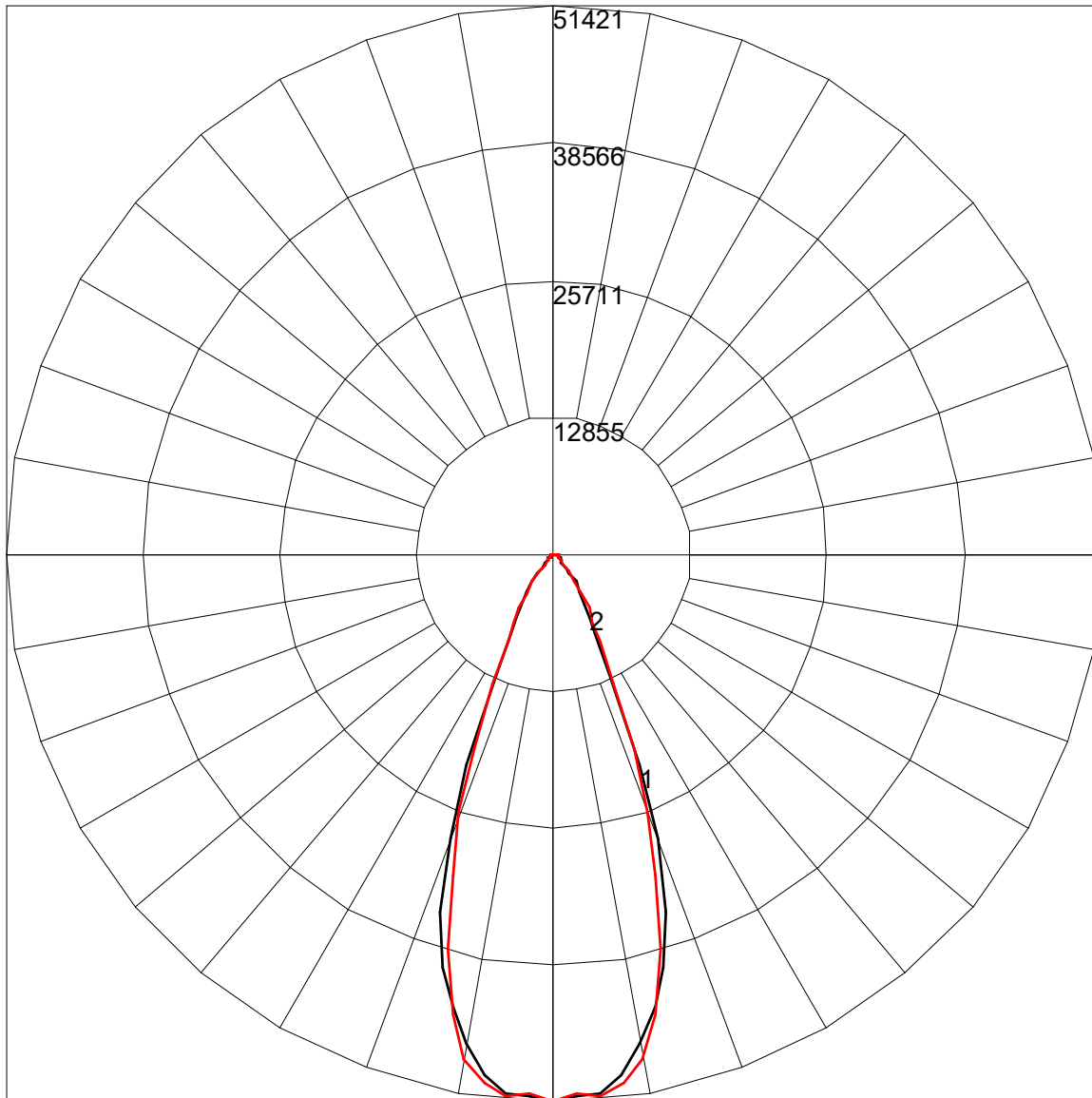
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	13458.9	50.0
Downward House Side	13458.9	50.0
Downward Total	26917.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	26917.8	100.0

POLAR GRAPH

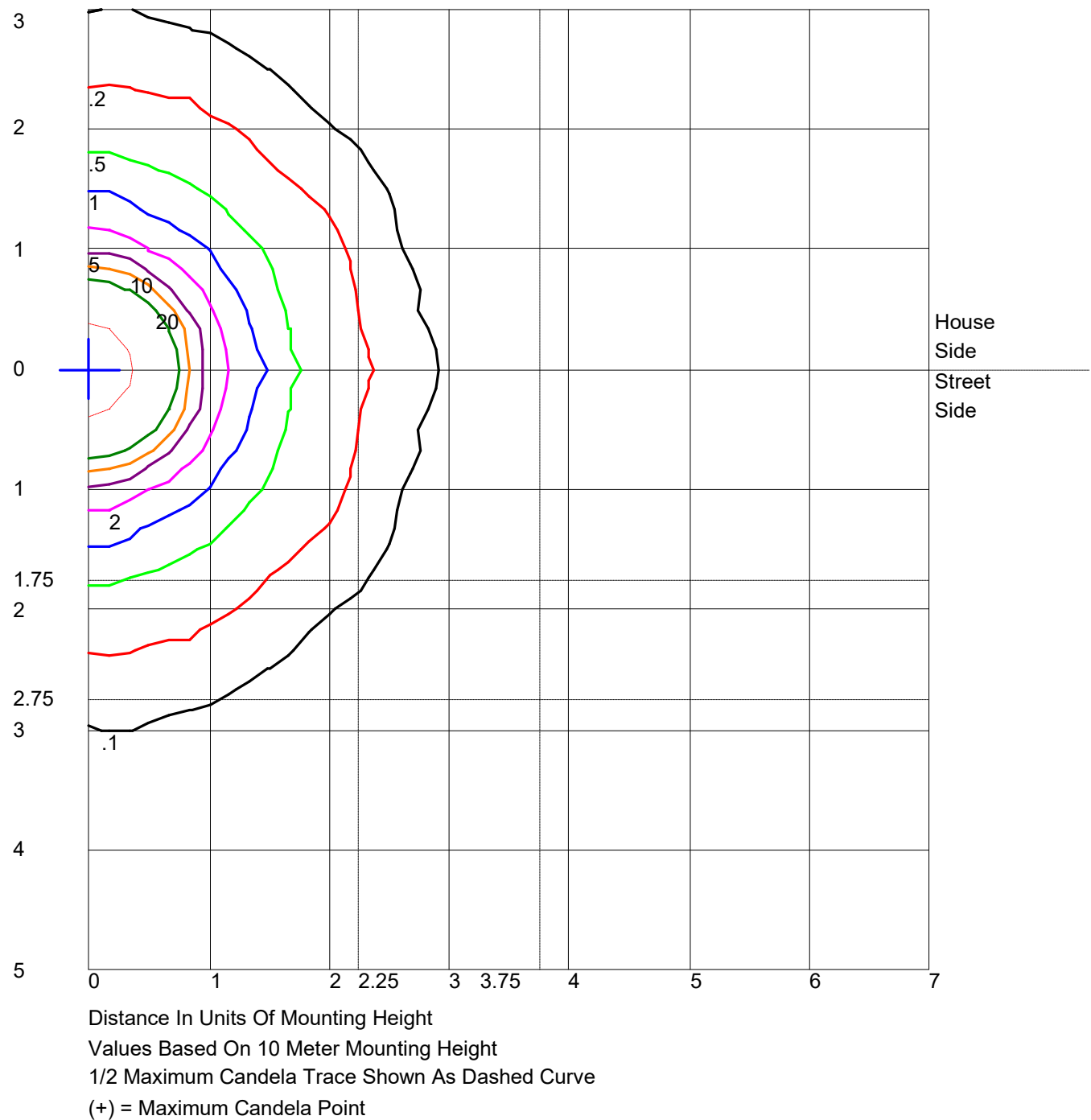


Maximum Candela = 51421.114 Located At Horizontal Angle = 0, Vertical Angle = 0

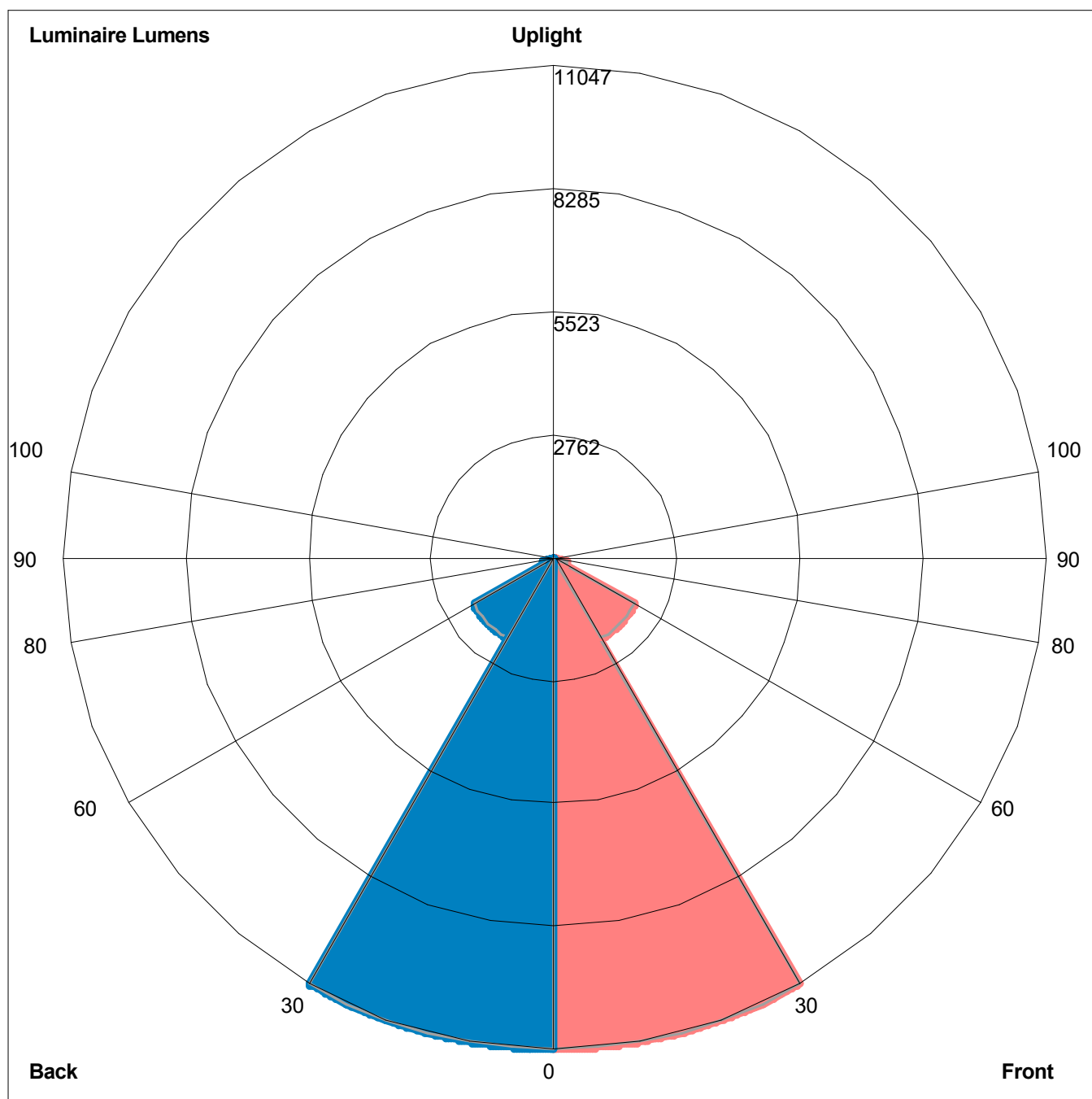
1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

ISOLUX LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=11046.6, Medium=2091.7, High=286.3, Very High=34.3
Back: Low=11046.6, Medium=2091.7, High=286.3, Very High=34.3
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G1