

IES ROAD REPORT

PHOTOMETRIC FILENAME : 1324-01-2280045.IES

DESCRIPTIVE INFORMATION (From Photometric File)

[NAME] INFORME DE RESULTADOS SIMPLIFICADO - FSLA01b V02 2021-12-13
 [TESTING METHOD] ANSI/IES LM-79-19
 [TEST] 1324-01-2280045
 [ISSUE DATE] 19-ago-22
 [MANUFACTURER] ELECTROCONTROL S.A.S.
 [LUMINAIRE] LED
 [LUMINAIRE] Luminaria Magnus LED 100 W - M16B90 5700K
 [LAMP] Magnus 2 Módulos
 [LAMP] 2 Módulos de LEDs - M16B-90D2090 - 5700 K
 [BALLAST] LED Driver INVENTRONICS
 [TEST LAB] LAPEC LABORATORIO DE PRUEBAS Y ENSAYOS ELECTROCONTROL
 [MORE] "Voltaje (V): 220.01 ± 0.24; Corriente (A): 0.4806 ± 0.0007; Potencia (W): 103.85 ± 0.23"
 [MORE] "Calle 59 No. 59-194 Autopista Norte Km. 13; Copacabana, Antioquia"
 [MORE] "(604) 400 55 00 Ext. 1501 - 1511; <https://www.electrocontrol.com.co/>"
 [MORE] "Lapec@electrocontrol.com.co; Tlaboratorio@electrocontrol.com.co"
 [MORE] Este informe contiene 12 páginas.
 [MORE] El Anexo IES es parte integral de este informe.
 [MORE] El presente informe NO puede reproducirse parcialmente sin la aprobación del Laboratorio.
 [MORE] El Laboratorio LAPEC NO es responsable de los perjuicios por el uso inadecuado de este informe.

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17497
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	168
Total Luminaire Watts	103.85
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8152.905
Maximum Candela Angle	360H 0V
Maximum Candela (<90 Degrees Vertical)	8152.905
Maximum Candela Angle (<90 Degrees Vertical)	360H 0V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	111.444 (0.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3279.2	N.A.	18.7
FM - Front-Medium (30-60)	5052.2	N.A.	28.9
FH - Front-High (60-80)	411.6	N.A.	2.4
FVH - Front-Very High (80-90)	5.5	N.A.	0.0
BL - Back-Low (0-30)	3279.2	N.A.	18.7
BM - Back-Medium (30-60)	5052.2	N.A.	28.9
BH - Back-High (60-80)	411.6	N.A.	2.4
BVH - Back-Very High (80-90)	5.5	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	17497.0	N.A.	100.0
BUG Rating	B4-U0-G0		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905
2.5	8045.960	7977.778	8045.960	8028.828	8062.919	8062.919	8045.960	8045.960	8045.960	8045.960
5.0	8062.919	8011.869	8045.960	8045.960	8062.919	8045.960	8062.919	8062.919	8079.878	8062.919
7.5	8028.828	8045.960	8011.869	8028.828	8045.960	8045.960	8062.919	8045.960	8062.919	8045.960
10.0	7994.737	8045.960	8045.960	8011.869	7994.737	8045.960	8062.919	8062.919	8062.919	8028.828
12.5	7994.737	8045.960	8011.869	7977.778	7977.778	8011.869	8045.960	8045.960	8045.960	8011.869
15.0	7977.778	8011.869	7977.778	7943.687	7977.778	7977.778	7994.737	7994.737	7994.737	7977.778
17.5	7926.555	7977.778	7909.596	7892.637	7892.637	7943.687	7926.555	7943.687	7943.687	7926.555
20.0	7841.415	7909.596	7858.547	7824.456	7858.547	7875.506	7909.596	7875.506	7909.596	7875.506
22.5	7756.447	7807.497	7739.315	7773.406	7773.406	7807.497	7773.406	7790.365	7773.406	7790.365
25.0	7688.438	7705.397	7637.389	7637.389	7654.348	7688.438	7688.438	7688.438	7688.438	7705.397
27.5	7535.289	7518.330	7518.330	7518.330	7552.421	7569.380	7586.339	7569.380	7569.380	7569.380
30.0	7382.486	7348.568	7365.527	7382.486	7399.445	7399.445	7382.486	7382.486	7382.486	7382.486
32.5	7178.806	7144.888	7161.847	7195.765	7229.683	7212.724	7195.765	7212.724	7178.806	7212.724
35.0	6907.810	6890.851	6907.810	6941.555	6958.514	6941.555	6975.472	6941.555	6975.472	6958.514
37.5	6626.431	6578.150	6602.377	6653.946	6670.904	6626.431	6670.904	6687.690	6653.946	6670.904
40.0	6033.042	6033.042	6079.766	6126.489	6149.851	6126.489	6173.386	6173.386	6196.921	6149.851
42.5	5418.715	5418.715	5463.362	5530.505	5552.828	5575.325	5620.491	5620.491	5665.657	5620.491
45.0	4747.281	4768.220	4789.505	4874.299	4853.014	4938.501	4959.786	5024.334	5024.334	5045.965
47.5	4012.856	4012.856	4072.213	4131.915	4151.816	4171.716	4232.111	4292.678	4353.592	4373.839
50.0	3308.889	3308.889	3364.092	3364.092	3419.641	3419.641	3438.157	3512.742	3550.294	3607.054
52.5	2605.960	2605.960	2639.705	2656.664	2673.623	2707.540	2724.672	2793.373	2827.810	2914.854
55.0	1994.055	1978.654	2024.858	2009.457	2071.062	2071.062	2086.464	2148.070	2179.046	2225.423
57.5	1437.180	1437.180	1468.329	1484.077	1499.651	1530.800	1530.800	1577.351	1608.500	1685.853
60.0	990.884	1007.151	990.884	1023.418	1023.418	1072.045	1088.138	1136.419	1152.340	1216.195
62.5	692.546	692.546	692.546	692.546	709.505	743.077	776.475	793.261	843.100	876.152
65.0	486.963	486.963	504.268	504.268	486.963	538.878	573.315	607.579	624.711	624.711
67.5	364.270	364.270	381.921	364.270	381.921	381.921	417.051	452.180	434.702	486.963
70.0	275.150	275.150	292.974	275.150	328.622	346.446	346.446	364.270	346.446	381.921
72.5	202.815	220.985	202.815	239.155	220.985	275.150	275.150	275.150	292.974	257.152
75.0	148.131	166.474	166.474	148.131	202.815	202.815	202.815	220.985	202.815	184.644
77.5	111.444	111.444	111.444	129.788	129.788	148.131	148.131	148.131	129.788	129.788
80.0	56.068	56.068	56.068	93.101	74.585	111.444	74.585	74.585	56.068	37.379
82.5	37.379	37.379	18.689	56.068	56.068	18.689	56.068	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	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>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905
2.5	8062.919	7994.737	8028.828	8045.960	8028.828	8062.919	8062.919	8062.919	8062.919	8062.919
5.0	8062.919	8028.828	8028.828	8045.960	8045.960	8062.919	8079.878	8062.919	8062.919	8062.919
7.5	8045.960	8011.869	8062.919	8045.960	8011.869	8045.960	8011.869	8062.919	8045.960	8062.919
10.0	8045.960	8045.960	8062.919	8045.960	8011.869	8028.828	8045.960	8062.919	8028.828	8062.919
12.5	8045.960	8011.869	8045.960	7977.778	7977.778	7977.778	7994.737	8028.828	7994.737	8028.828
15.0	7977.778	7977.778	8011.869	7960.646	7977.778	7943.687	7977.778	7977.778	7977.778	7977.778
17.5	7909.596	7943.687	7926.555	7926.555	7909.596	7909.596	7892.637	7909.596	7909.596	7909.596
20.0	7875.506	7875.506	7892.637	7858.547	7858.547	7824.456	7824.456	7807.497	7807.497	7807.497
22.5	7773.406	7790.365	7773.406	7773.406	7773.406	7739.315	7705.397	7705.397	7688.438	7705.397
25.0	7688.438	7688.438	7688.438	7654.348	7688.438	7654.348	7620.257	7620.257	7586.339	7620.257
27.5	7569.380	7586.339	7535.289	7569.380	7569.380	7535.289	7518.330	7467.454	7450.495	7467.454

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CANDELA TABULATION - (Cont.)

30.0	7382.486	7382.486	7382.486	7382.486	7382.486	7382.486	7382.486	7365.527	7314.650	7314.650	7314.650
32.5	7178.806	7212.724	7161.847	7195.765	7178.806	7195.765	7144.888	7127.930	7127.930	7127.930	7127.930
35.0	6975.472	6941.555	6907.810	6924.596	6958.514	6958.514	6907.810	6890.851	6907.810	6890.851	6890.851
37.5	6670.904	6653.946	6602.377	6626.431	6602.377	6626.431	6578.150	6554.096	6578.150	6554.096	6554.096
40.0	6173.386	6149.851	6126.489	6149.851	6149.851	6149.851	6126.489	6056.404	6126.489	6056.404	6056.404
42.5	5665.657	5620.491	5597.994	5597.994	5575.325	5575.325	5597.994	5552.828	5575.325	5552.828	5552.828
45.0	5045.965	5002.876	5024.334	5024.334	5024.334	5024.334	5024.334	5002.876	5024.334	5002.876	5002.876
47.5	4373.839	4373.839	4353.592	4394.259	4373.839	4394.259	4373.839	4373.839	4353.592	4373.839	4373.839
50.0	3644.952	3663.988	3683.023	3683.023	3683.023	3702.059	3683.023	3663.988	3663.988	3663.988	3663.988
52.5	2932.332	2967.461	3002.764	3038.239	3020.588	3038.239	3020.588	3038.239	3020.588	3038.239	3038.239
55.0	2287.375	2302.776	2357.979	2374.246	2374.246	2390.513	2390.513	2390.513	2390.513	2390.513	2390.513
57.5	1716.656	1747.632	1793.836	1809.238	1824.639	1840.041	1840.041	1855.442	1840.041	1855.442	1855.442
60.0	1248.037	1279.705	1295.625	1358.616	1358.616	1358.616	1358.616	1358.616	1374.363	1358.616	1358.616
62.5	892.592	909.032	925.471	974.618	990.884	974.618	974.618	974.618	974.618	974.618	974.618
65.0	675.587	692.546	692.546	709.505	726.291	692.546	692.546	692.546	658.628	692.546	692.546
67.5	486.963	486.963	469.658	469.658	452.180	417.051	399.572	364.270	364.270	364.270	364.270
70.0	346.446	346.446	328.622	292.974	292.974	239.155	257.152	257.152	220.985	257.152	257.152
72.5	275.150	220.985	202.815	202.815	184.644	202.815	148.131	148.131	166.474	148.131	148.131
75.0	166.474	129.788	148.131	129.788	148.131	111.444	111.444	111.444	93.101	111.444	111.444
77.5	74.585	74.585	74.585	56.068	56.068	56.068	56.068	56.068	37.379	56.068	56.068
80.0	56.068	56.068	18.689	37.379	18.689	18.689	18.689	18.689	37.379	37.379	37.379
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	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	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	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905
2.5	8062.919	8062.919	8028.828	8045.960	8028.828	7994.737	8062.919	8045.960	8045.960	8045.960
5.0	8079.878	8062.919	8045.960	8045.960	8028.828	8028.828	8062.919	8062.919	8079.878	8062.919
7.5	8011.869	8045.960	8011.869	8045.960	8062.919	8011.869	8045.960	8045.960	8062.919	8045.960
10.0	8045.960	8028.828	8011.869	8045.960	8062.919	8045.960	8045.960	8028.828	8062.919	8062.919
12.5	7994.737	7977.778	7977.778	7977.778	8045.960	8011.869	8045.960	8011.869	8045.960	8045.960
15.0	7977.778	7943.687	7977.778	7960.646	8011.869	7977.778	7977.778	7977.778	7994.737	7994.737
17.5	7892.637	7909.596	7909.596	7926.555	7926.555	7943.687	7909.596	7926.555	7943.687	7943.687
20.0	7824.456	7824.456	7858.547	7858.547	7892.637	7875.506	7875.506	7875.506	7909.596	7875.506
22.5	7705.397	7739.315	7773.406	7773.406	7773.406	7790.365	7773.406	7790.365	7773.406	7790.365
25.0	7620.257	7654.348	7688.438	7654.348	7688.438	7688.438	7688.438	7705.397	7688.438	7688.438
27.5	7518.330	7535.289	7569.380	7569.380	7535.289	7586.339	7569.380	7569.380	7569.380	7569.380
30.0	7365.527	7382.486	7382.486	7382.486	7382.486	7382.486	7382.486	7382.486	7382.486	7382.486
32.5	7144.888	7195.765	7178.806	7195.765	7161.847	7212.724	7178.806	7212.724	7178.806	7212.724
35.0	6907.810	6958.514	6958.514	6924.596	6907.810	6941.555	6975.472	6958.514	6975.472	6941.555
37.5	6578.150	6626.431	6602.377	6626.431	6602.377	6653.946	6670.904	6670.904	6653.946	6687.690
40.0	6126.489	6149.851	6149.851	6149.851	6126.489	6149.851	6173.386	6149.851	6196.921	6173.386
42.5	5597.994	5575.325	5575.325	5597.994	5597.994	5620.491	5665.657	5620.491	5665.657	5620.491
45.0	5024.334	5024.334	5024.334	5024.334	5024.334	5002.876	5045.965	5045.965	5024.334	5024.334
47.5	4373.839	4394.259	4373.839	4394.259	4353.592	4373.839	4373.839	4373.839	4353.592	4292.678
50.0	3683.023	3702.059	3683.023	3683.023	3683.023	3663.988	3644.952	3607.054	3550.294	3512.742
52.5	3020.588	3038.239	3020.588	3038.239	3002.764	2967.461	2932.332	2914.854	2827.810	2793.373
55.0	2390.513	2390.513	2374.246	2374.246	2357.979	2302.776	2287.375	2225.423	2179.046	2148.070
57.5	1840.041	1840.041	1824.639	1809.238	1793.836	1747.632	1716.656	1685.853	1608.500	1577.351
60.0	1358.616	1358.616	1358.616	1358.616	1295.625	1279.705	1248.037	1216.195	1152.340	1136.419
62.5	974.618	974.618	990.884	974.618	925.471	909.032	892.592	876.152	843.100	793.261
65.0	692.546	692.546	726.291	709.505	692.546	692.546	675.587	624.711	624.711	607.579

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CANDELA TABULATION - (Cont.)

67.5	399.572	417.051	452.180	469.658	469.658	486.963	486.963	486.963	434.702	452.180
70.0	257.152	239.155	292.974	292.974	328.622	346.446	346.446	381.921	346.446	364.270
72.5	148.131	202.815	184.644	202.815	202.815	220.985	275.150	257.152	292.974	275.150
75.0	111.444	111.444	148.131	129.788	148.131	129.788	166.474	184.644	202.815	220.985
77.5	56.068	56.068	56.068	56.068	74.585	74.585	74.585	129.788	129.788	148.131
80.0	18.689	18.689	18.689	37.379	18.689	56.068	56.068	37.379	56.068	74.585
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	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	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905
2.5	8045.960	8062.919	8062.919	8028.828	8045.960	7977.778	8045.960	7977.778	8045.960	8028.828
5.0	8062.919	8045.960	8062.919	8045.960	8045.960	8011.869	8062.919	8011.869	8045.960	8045.960
7.5	8062.919	8045.960	8045.960	8028.828	8011.869	8045.960	8028.828	8045.960	8011.869	8028.828
10.0	8062.919	8045.960	7994.737	8011.869	8045.960	8045.960	7994.737	8045.960	8045.960	8011.869
12.5	8045.960	8011.869	7977.778	7977.778	8011.869	8045.960	7994.737	8045.960	8011.869	7977.778
15.0	7994.737	7977.778	7977.778	7943.687	7977.778	8011.869	7977.778	8011.869	7977.778	7943.687
17.5	7926.555	7943.687	7892.637	7892.637	7909.596	7977.778	7926.555	7977.778	7909.596	7892.637
20.0	7909.596	7875.506	7858.547	7824.456	7858.547	7909.596	7841.415	7909.596	7858.547	7824.456
22.5	7773.406	7807.497	7773.406	7773.406	7739.315	7807.497	7756.447	7807.497	7739.315	7773.406
25.0	7688.438	7688.438	7654.348	7637.389	7637.389	7705.397	7688.438	7705.397	7637.389	7637.389
27.5	7586.339	7569.380	7552.421	7518.330	7518.330	7518.330	7535.289	7518.330	7518.330	7518.330
30.0	7382.486	7399.445	7399.445	7382.486	7365.527	7348.568	7382.486	7348.568	7365.527	7382.486
32.5	7195.765	7212.724	7229.683	7195.765	7161.847	7144.888	7178.806	7144.888	7161.847	7195.765
35.0	6975.472	6941.555	6958.514	6941.555	6907.810	6890.851	6907.810	6890.851	6907.810	6941.555
37.5	6670.904	6626.431	6670.904	6653.946	6602.377	6578.150	6626.431	6578.150	6602.377	6653.946
40.0	6173.386	6126.489	6149.851	6126.489	6079.766	6033.042	6033.042	6033.042	6079.766	6126.489
42.5	5620.491	5575.325	5552.828	5530.505	5463.362	5418.715	5418.715	5418.715	5463.362	5530.505
45.0	4959.786	4938.501	4853.014	4874.299	4789.505	4768.220	4747.281	4768.220	4789.505	4874.299
47.5	4232.111	4171.716	4151.816	4131.915	4072.213	4012.856	4012.856	4012.856	4072.213	4131.915
50.0	3438.157	3419.641	3419.641	3364.092	3364.092	3308.889	3308.889	3308.889	3364.092	3364.092
52.5	2724.672	2707.540	2673.623	2656.664	2639.705	2605.960	2605.960	2605.960	2639.705	2656.664
55.0	2086.464	2071.062	2071.062	2009.457	2024.858	1978.654	1994.055	1978.654	2024.858	2009.457
57.5	1530.800	1530.800	1499.651	1484.077	1468.329	1437.180	1437.180	1437.180	1468.329	1484.077
60.0	1088.138	1072.045	1023.418	1023.418	990.884	1007.151	990.884	1007.151	990.884	1023.418
62.5	776.475	743.077	709.505	692.546	692.546	692.546	692.546	692.546	692.546	692.546
65.0	573.315	538.878	486.963	504.268	504.268	486.963	486.963	486.963	504.268	504.268
67.5	417.051	381.921	381.921	364.270	381.921	364.270	364.270	364.270	381.921	364.270
70.0	346.446	346.446	328.622	275.150	292.974	275.150	275.150	275.150	292.974	275.150
72.5	275.150	275.150	220.985	239.155	202.815	220.985	202.815	220.985	202.815	239.155
75.0	202.815	202.815	202.815	148.131	166.474	166.474	148.131	166.474	166.474	148.131
77.5	148.131	148.131	129.788	129.788	111.444	111.444	111.444	111.444	111.444	129.788
80.0	74.585	111.444	74.585	93.101	56.068	56.068	56.068	56.068	56.068	93.101
82.5	56.068	18.689	56.068	56.068	18.689	37.379	37.379	37.379	18.689	56.068
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	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>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	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905

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CANDELA TABULATION - (Cont.)

2.5	8062.919	8062.919	8045.960	8045.960	8045.960	8045.960	8062.919	7994.737	8028.828	8045.960
5.0	8062.919	8045.960	8062.919	8062.919	8079.878	8062.919	8062.919	8028.828	8028.828	8045.960
7.5	8045.960	8045.960	8062.919	8045.960	8062.919	8045.960	8045.960	8011.869	8062.919	8045.960
10.0	7994.737	8045.960	8062.919	8062.919	8062.919	8028.828	8045.960	8045.960	8062.919	8045.960
12.5	7977.778	8011.869	8045.960	8045.960	8045.960	8011.869	8045.960	8011.869	8045.960	7977.778
15.0	7977.778	7977.778	7994.737	7994.737	7994.737	7977.778	7977.778	7977.778	8011.869	7960.646
17.5	7892.637	7943.687	7926.555	7943.687	7943.687	7926.555	7909.596	7943.687	7926.555	7926.555
20.0	7858.547	7875.506	7909.596	7875.506	7909.596	7875.506	7875.506	7875.506	7892.637	7858.547
22.5	7773.406	7807.497	7773.406	7790.365	7773.406	7790.365	7773.406	7790.365	7773.406	7773.406
25.0	7654.348	7688.438	7688.438	7688.438	7688.438	7705.397	7688.438	7688.438	7688.438	7654.348
27.5	7552.421	7569.380	7586.339	7569.380	7569.380	7569.380	7569.380	7586.339	7535.289	7569.380
30.0	7399.445	7399.445	7382.486	7382.486	7382.486	7382.486	7382.486	7382.486	7382.486	7382.486
32.5	7229.683	7212.724	7195.765	7212.724	7178.806	7212.724	7178.806	7212.724	7161.847	7195.765
35.0	6958.514	6941.555	6975.472	6941.555	6975.472	6958.514	6975.472	6941.555	6907.810	6924.596
37.5	6670.904	6626.431	6670.904	6687.690	6653.946	6670.904	6670.904	6653.946	6602.377	6626.431
40.0	6149.851	6126.489	6173.386	6173.386	6196.921	6149.851	6173.386	6149.851	6126.489	6149.851
42.5	5552.828	5575.325	5620.491	5620.491	5665.657	5620.491	5665.657	5620.491	5597.994	5597.994
45.0	4853.014	4938.501	4959.786	5024.334	5024.334	5045.965	5045.965	5002.876	5024.334	5024.334
47.5	4151.816	4171.716	4232.111	4292.678	4353.592	4373.839	4373.839	4373.839	4353.592	4394.259
50.0	3419.641	3419.641	3438.157	3512.742	3550.294	3607.054	3644.952	3663.988	3683.023	3683.023
52.5	2673.623	2707.540	2724.672	2793.373	2827.810	2914.854	2932.332	2967.461	3002.764	3038.239
55.0	2071.062	2071.062	2086.464	2148.070	2179.046	2225.423	2287.375	2302.776	2357.979	2374.246
57.5	1499.651	1530.800	1530.800	1577.351	1608.500	1685.853	1716.656	1747.632	1793.836	1809.238
60.0	1023.418	1072.045	1088.138	1136.419	1152.340	1216.195	1248.037	1279.705	1295.625	1358.616
62.5	709.505	743.077	776.475	793.261	843.100	876.152	892.592	909.032	925.471	974.618
65.0	486.963	538.878	573.315	607.579	624.711	624.711	675.587	692.546	692.546	709.505
67.5	381.921	381.921	417.051	452.180	434.702	486.963	486.963	486.963	469.658	469.658
70.0	328.622	346.446	346.446	364.270	346.446	381.921	346.446	346.446	328.622	292.974
72.5	220.985	275.150	275.150	275.150	292.974	257.152	275.150	220.985	202.815	202.815
75.0	202.815	202.815	202.815	220.985	202.815	184.644	166.474	129.788	148.131	129.788
77.5	129.788	148.131	148.131	148.131	129.788	129.788	74.585	74.585	74.585	56.068
80.0	74.585	111.444	74.585	74.585	56.068	37.379	56.068	56.068	18.689	37.379
82.5	56.068	18.689	56.068	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	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>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0.0	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905
2.5	8028.828	8062.919	8062.919	8062.919	8062.919	8062.919	8062.919	8062.919	8028.828	8045.960
5.0	8045.960	8062.919	8079.878	8062.919	8062.919	8062.919	8079.878	8062.919	8045.960	8045.960
7.5	8011.869	8045.960	8011.869	8062.919	8045.960	8062.919	8011.869	8045.960	8011.869	8045.960
10.0	8011.869	8028.828	8045.960	8062.919	8028.828	8062.919	8045.960	8028.828	8011.869	8045.960
12.5	7977.778	7977.778	7994.737	8028.828	7994.737	8028.828	7994.737	7977.778	7977.778	7977.778
15.0	7977.778	7943.687	7977.778	7977.778	7977.778	7977.778	7977.778	7943.687	7977.778	7960.646
17.5	7909.596	7909.596	7892.637	7909.596	7909.596	7909.596	7892.637	7909.596	7909.596	7926.555
20.0	7858.547	7824.456	7824.456	7807.497	7807.497	7807.497	7824.456	7824.456	7858.547	7858.547
22.5	7773.406	7739.315	7705.397	7705.397	7688.438	7705.397	7705.397	7739.315	7773.406	7773.406
25.0	7688.438	7654.348	7620.257	7620.257	7586.339	7620.257	7620.257	7654.348	7688.438	7654.348
27.5	7569.380	7535.289	7518.330	7467.454	7450.495	7467.454	7518.330	7535.289	7569.380	7569.380
30.0	7382.486	7382.486	7365.527	7314.650	7314.650	7314.650	7365.527	7382.486	7382.486	7382.486
32.5	7178.806	7195.765	7144.888	7127.930	7127.930	7127.930	7144.888	7195.765	7178.806	7195.765
35.0	6958.514	6958.514	6907.810	6890.851	6907.810	6890.851	6907.810	6958.514	6958.514	6924.596
37.5	6602.377	6626.431	6578.150	6554.096	6578.150	6554.096	6578.150	6626.431	6602.377	6626.431

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CANDELA TABULATION - (Cont.)

40.0	6149.851	6149.851	6126.489	6056.404	6126.489	6056.404	6126.489	6149.851	6149.851	6149.851
42.5	5575.325	5575.325	5597.994	5552.828	5575.325	5552.828	5597.994	5575.325	5575.325	5597.994
45.0	5024.334	5024.334	5024.334	5002.876	5024.334	5002.876	5024.334	5024.334	5024.334	5024.334
47.5	4373.839	4394.259	4373.839	4373.839	4353.592	4373.839	4373.839	4394.259	4373.839	4394.259
50.0	3683.023	3702.059	3683.023	3663.988	3663.988	3663.988	3683.023	3702.059	3683.023	3683.023
52.5	3020.588	3038.239	3020.588	3038.239	3020.588	3038.239	3020.588	3038.239	3020.588	3038.239
55.0	2374.246	2390.513	2390.513	2390.513	2390.513	2390.513	2390.513	2390.513	2374.246	2374.246
57.5	1824.639	1840.041	1840.041	1855.442	1840.041	1855.442	1840.041	1840.041	1824.639	1809.238
60.0	1358.616	1358.616	1358.616	1358.616	1374.363	1358.616	1358.616	1358.616	1358.616	1358.616
62.5	990.884	974.618	974.618	974.618	974.618	974.618	974.618	974.618	990.884	974.618
65.0	726.291	692.546	692.546	692.546	658.628	692.546	692.546	692.546	726.291	709.505
67.5	452.180	417.051	399.572	364.270	364.270	364.270	399.572	417.051	452.180	469.658
70.0	292.974	239.155	257.152	257.152	220.985	257.152	257.152	239.155	292.974	292.974
72.5	184.644	202.815	148.131	148.131	166.474	148.131	148.131	202.815	184.644	202.815
75.0	148.131	111.444	111.444	111.444	93.101	111.444	111.444	111.444	148.131	129.788
77.5	56.068	56.068	56.068	56.068	37.379	56.068	56.068	56.068	56.068	56.068
80.0	18.689	18.689	18.689	37.379	37.379	37.379	18.689	18.689	18.689	37.379
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	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>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	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905	8152.905
2.5	8028.828	7994.737	8062.919	8045.960	8045.960	8045.960	8045.960	8062.919	8062.919	8028.828
5.0	8028.828	8028.828	8062.919	8062.919	8079.878	8062.919	8062.919	8045.960	8062.919	8045.960
7.5	8062.919	8011.869	8045.960	8045.960	8062.919	8045.960	8062.919	8045.960	8045.960	8028.828
10.0	8062.919	8045.960	8045.960	8028.828	8062.919	8062.919	8062.919	8045.960	7994.737	8011.869
12.5	8045.960	8011.869	8045.960	8011.869	8045.960	8045.960	8045.960	8011.869	7977.778	7977.778
15.0	8011.869	7977.778	7977.778	7977.778	7994.737	7994.737	7994.737	7977.778	7977.778	7943.687
17.5	7926.555	7943.687	7909.596	7926.555	7943.687	7943.687	7926.555	7943.687	7892.637	7892.637
20.0	7892.637	7875.506	7875.506	7875.506	7909.596	7875.506	7909.596	7875.506	7858.547	7824.456
22.5	7773.406	7790.365	7773.406	7790.365	7773.406	7790.365	7773.406	7807.497	7773.406	7773.406
25.0	7688.438	7688.438	7688.438	7705.397	7688.438	7688.438	7688.438	7688.438	7654.348	7637.389
27.5	7535.289	7586.339	7569.380	7569.380	7569.380	7569.380	7586.339	7569.380	7552.421	7518.330
30.0	7382.486	7382.486	7382.486	7382.486	7382.486	7382.486	7382.486	7399.445	7399.445	7382.486
32.5	7161.847	7212.724	7178.806	7212.724	7178.806	7212.724	7195.765	7212.724	7229.683	7195.765
35.0	6907.810	6941.555	6975.472	6958.514	6975.472	6941.555	6975.472	6941.555	6958.514	6941.555
37.5	6602.377	6653.946	6670.904	6670.904	6653.946	6687.690	6670.904	6626.431	6670.904	6653.946
40.0	6126.489	6149.851	6173.386	6149.851	6196.921	6173.386	6173.386	6126.489	6149.851	6126.489
42.5	5597.994	5620.491	5665.657	5620.491	5665.657	5620.491	5620.491	5575.325	5552.828	5530.505
45.0	5024.334	5002.876	5045.965	5045.965	5024.334	5024.334	4959.786	4938.501	4853.014	4874.299
47.5	4353.592	4373.839	4373.839	4373.839	4353.592	4292.678	4232.111	4171.716	4151.816	4131.915
50.0	3683.023	3663.988	3644.952	3607.054	3550.294	3512.742	3438.157	3419.641	3419.641	3364.092
52.5	3002.764	2967.461	2932.332	2914.854	2827.810	2793.373	2724.672	2707.540	2673.623	2656.664
55.0	2357.979	2302.776	2287.375	2225.423	2179.046	2148.070	2086.464	2071.062	2071.062	2009.457
57.5	1793.836	1747.632	1716.656	1685.853	1608.500	1577.351	1530.800	1530.800	1499.651	1484.077
60.0	1295.625	1279.705	1248.037	1216.195	1152.340	1136.419	1088.138	1072.045	1023.418	1023.418
62.5	925.471	909.032	892.592	876.152	843.100	793.261	776.475	743.077	709.505	692.546
65.0	692.546	692.546	675.587	624.711	624.711	607.579	573.315	538.878	486.963	504.268
67.5	469.658	486.963	486.963	486.963	434.702	452.180	417.051	381.921	381.921	364.270
70.0	328.622	346.446	346.446	381.921	346.446	364.270	346.446	346.446	328.622	275.150
72.5	202.815	220.985	275.150	257.152	292.974	275.150	275.150	275.150	220.985	239.155
75.0	148.131	129.788	166.474	184.644	202.815	220.985	202.815	202.815	202.815	148.131

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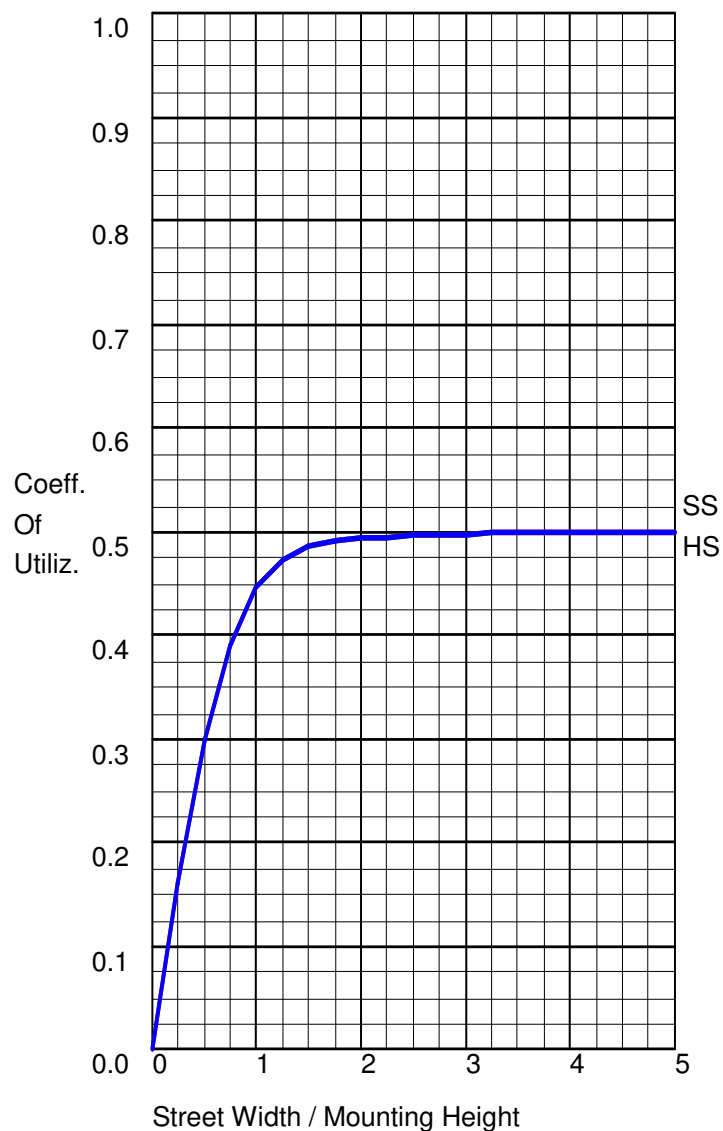
CANDELA TABULATION - (Cont.)

77.5	74.585	74.585	74.585	129.788	129.788	148.131	148.131	148.131	129.788	129.788
80.0	18.689	56.068	56.068	37.379	56.068	74.585	74.585	111.444	74.585	93.101
82.5	0.000	0.000	0.000	0.000	0.000	0.000	56.068	18.689	56.068	56.068
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	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

	350	355	360
0.0	8152.905	8152.905	8152.905
2.5	8045.960	7977.778	8045.960
5.0	8045.960	8011.869	8062.919
7.5	8011.869	8045.960	8028.828
10.0	8045.960	8045.960	7994.737
12.5	8011.869	8045.960	7994.737
15.0	7977.778	8011.869	7977.778
17.5	7909.596	7977.778	7926.555
20.0	7858.547	7909.596	7841.415
22.5	7739.315	7807.497	7756.447
25.0	7637.389	7705.397	7688.438
27.5	7518.330	7518.330	7535.289
30.0	7365.527	7348.568	7382.486
32.5	7161.847	7144.888	7178.806
35.0	6907.810	6890.851	6907.810
37.5	6602.377	6578.150	6626.431
40.0	6079.766	6033.042	6033.042
42.5	5463.362	5418.715	5418.715
45.0	4789.505	4768.220	4747.281
47.5	4072.213	4012.856	4012.856
50.0	3364.092	3308.889	3308.889
52.5	2639.705	2605.960	2605.960
55.0	2024.858	1978.654	1994.055
57.5	1468.329	1437.180	1437.180
60.0	990.884	1007.151	990.884
62.5	692.546	692.546	692.546
65.0	504.268	486.963	486.963
67.5	381.921	364.270	364.270
70.0	292.974	275.150	275.150
72.5	202.815	220.985	202.815
75.0	166.474	166.474	148.131
77.5	111.444	111.444	111.444
80.0	56.068	56.068	56.068
82.5	18.689	37.379	37.379
85.0	0.000	0.000	0.000
87.5	0.000	0.000	0.000
90.0	0.000	0.000	0.000

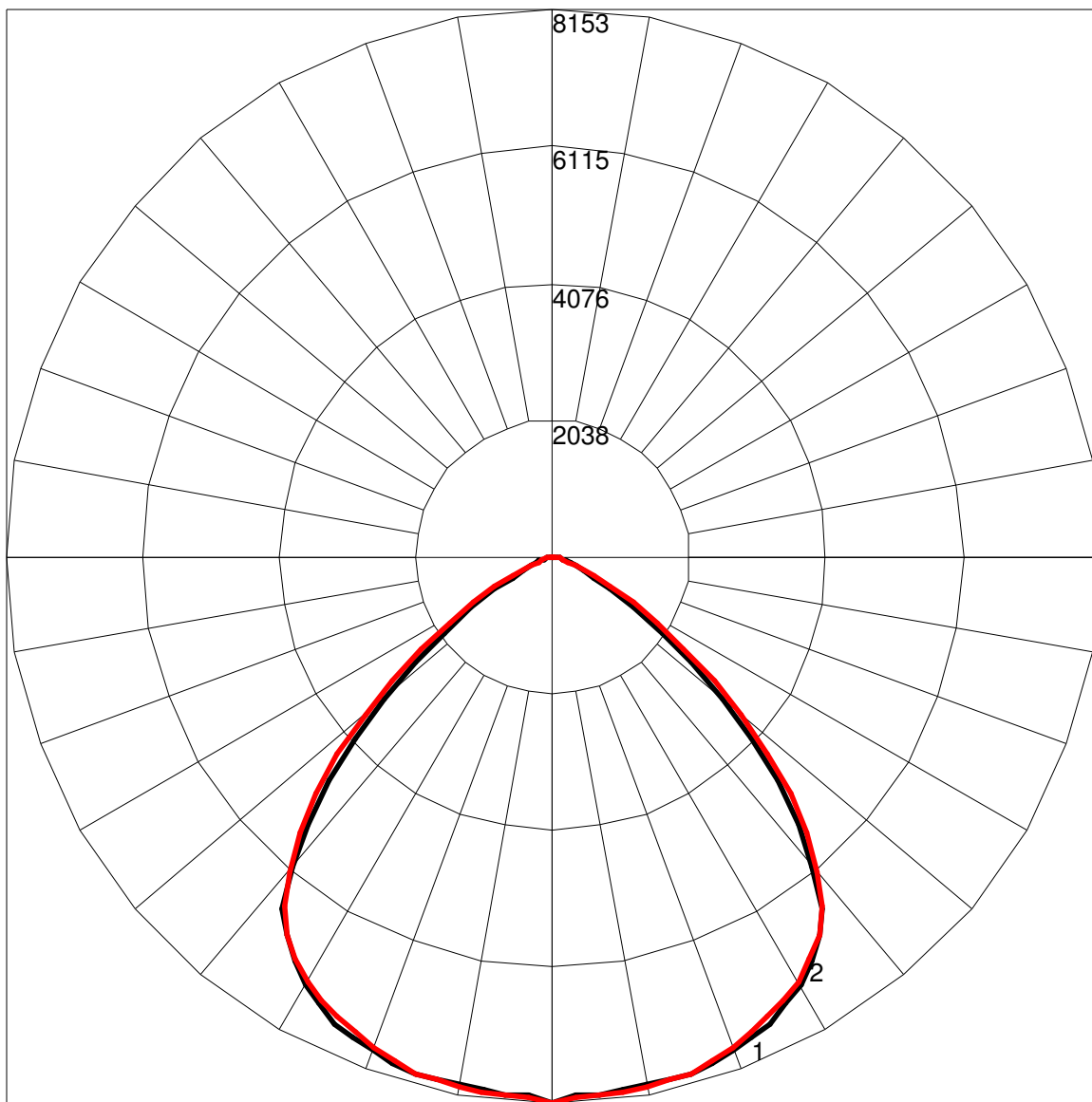
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

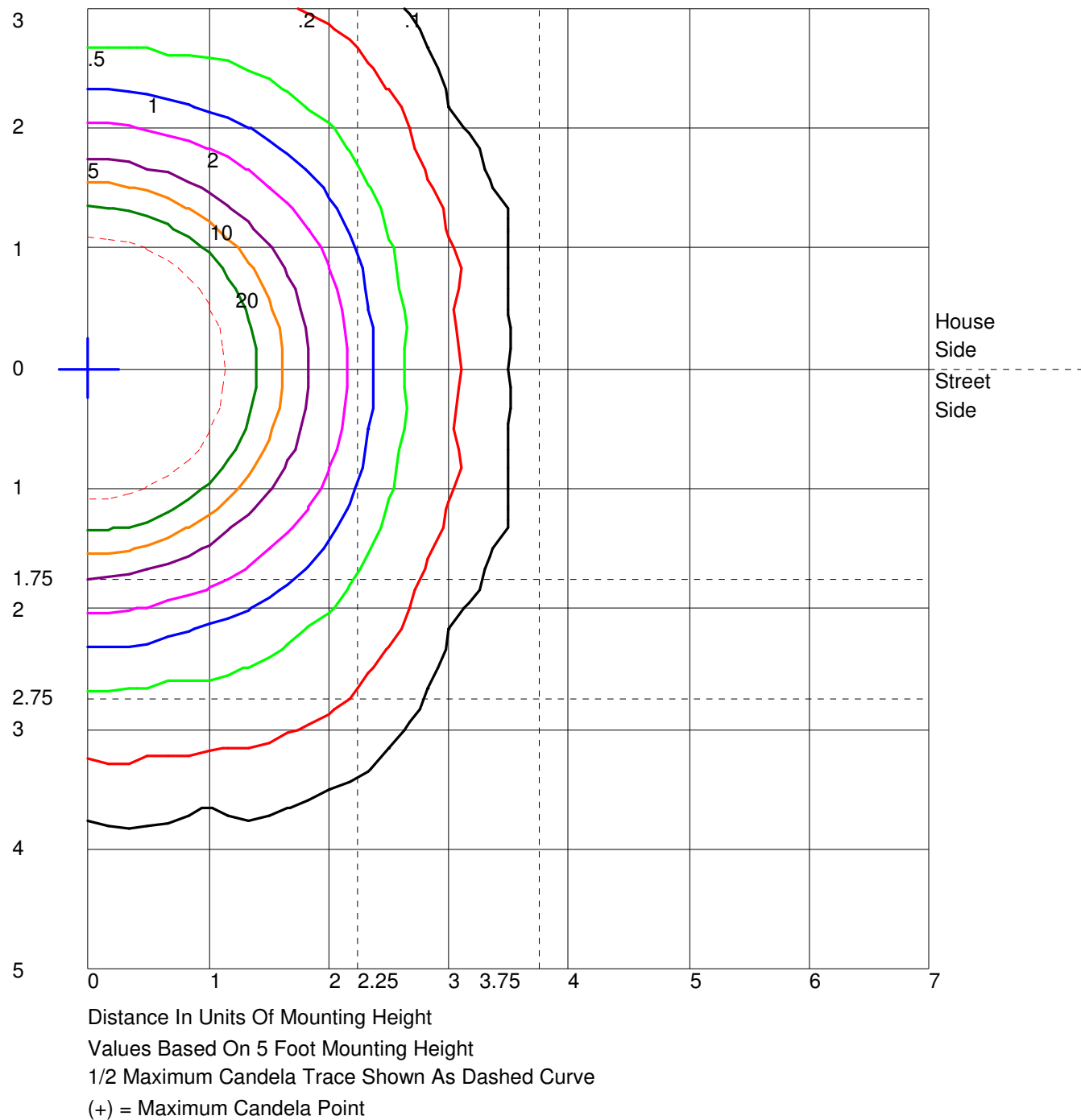
	Lumens	Percent Of Luminaire
Downward Street Side	8748.5	50.0
Downward House Side	8748.5	50.0
Downward Total	17497.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17497.0	100.0

POLAR GRAPH

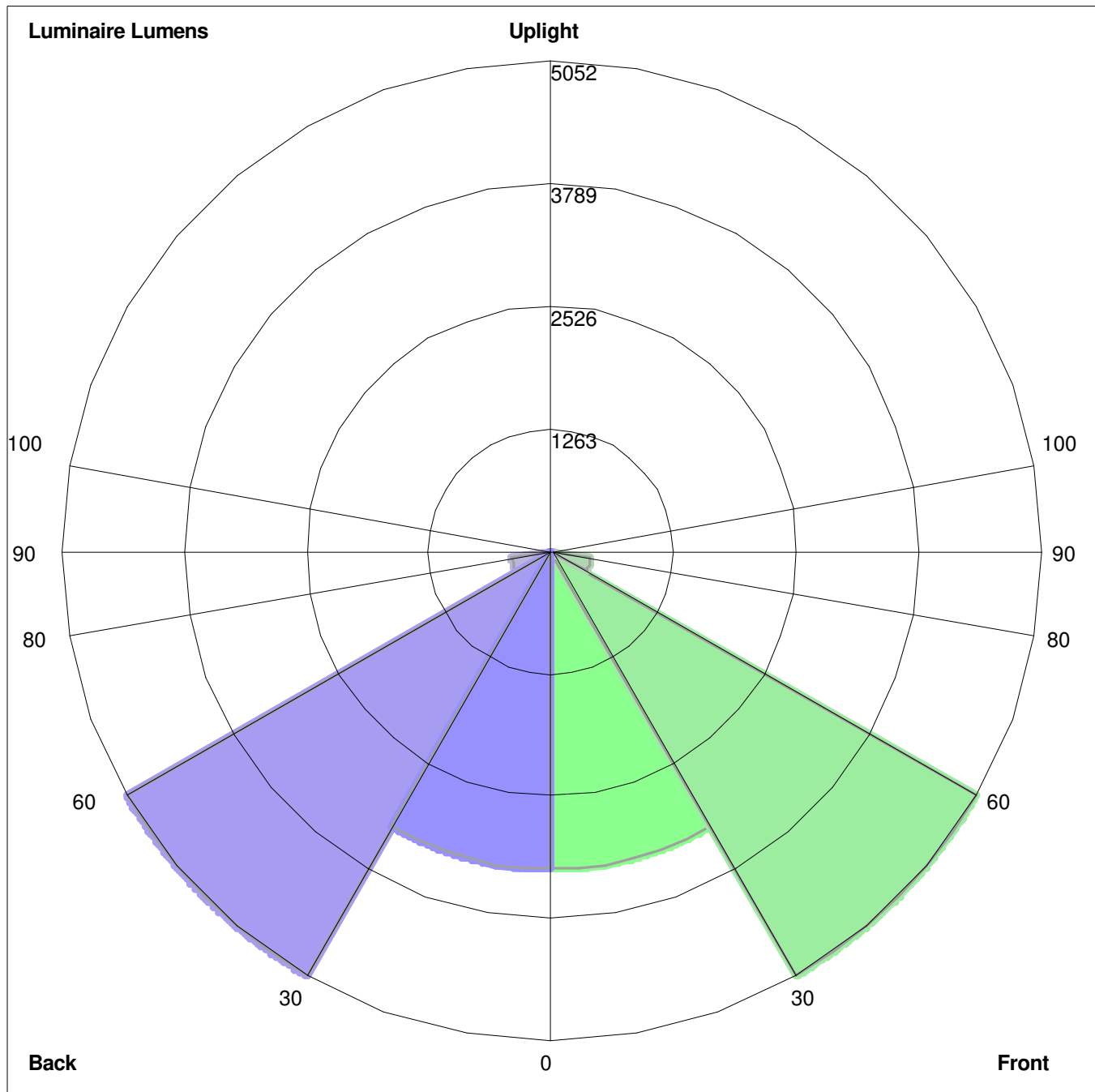


Maximum Candela = 8152.905 Located At Horizontal Angle = 360, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3279.2, Medium=5052.2, High=411.6, Very High=5.5
Back: Low=3279.2, Medium=5052.2, High=411.6, Very High=5.5
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G0