



ISO/IEC 17025:2017  
12-LAB-051



## IES ROAD REPORT PHOTOMETRIC FILENAME : 1582-02-2580025.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[NAME] INFORME DE RESULTADOS SIMPLIFICADO - FSLA01b V04 2024-02-22  
[TESTING METHOD] ANSI/IES LM-79-19 Numerales 5, 7, 3 y 8  
[TEST] 1582-02-2580025  
[ISSUE DATE] 27-ago-25  
[MANUFAC] ELECTROCONTROL S.A.S.  
[LUMCAT] LED  
[LUMINAIRE] Luminaria Proyector Magnus LED 35 W - MAGNUS-1M-35W  
[LAMPCAT] MAGNUS-1M-35W  
[LAMP] Modulo LEDs - 5000 K - M16A-90D2190  
[BALLAST] DONE - LED Driver - DL-50W-V72A-MXG  
[TESTLAB] LAPEC LABORATORIO DE PRUEBAS Y ENSAYOS ELECTROCONTROL  
[MORE] Voltaje (V): 220.02; Corriente (A): 0.1762; Potencia (W): 36.0607; Factor de Potencia (FP): 0.9286  
[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	6620
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	184
Total Luminaire Watts	36.0607
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3584.635
Maximum Candela Angle	360H 0V
Maximum Candela (<90 Degrees Vertical)	3584.635
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	37.726 (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)	1342.2	N.A.	20.3
FM - Front-Medium (30-60)	1822.1	N.A.	27.5
FH - Front-High (60-80)	136.5	N.A.	2.1
FVH - Front-Very High (80-90)	3.4	N.A.	0.1
BL - Back-Low (0-30)	1342.2	N.A.	20.3
BM - Back-Medium (30-60)	1822.1	N.A.	27.5
BH - Back-High (60-80)	136.5	N.A.	2.1
BVH - Back-Very High (80-90)	3.4	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	11.0	N.A.	0.2
Total	6619.4	N.A.	100.0
BUG Rating	B3-U2-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>
<b>0</b>	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635
<b>5</b>	3531.571	3556.213	3500.750	3492.536	3488.466	3492.536	3478.217	3478.217	3484.322	3480.252
<b>10</b>	3455.683	3463.897	3443.471	3445.506	3433.221	3427.115	3418.974	3412.868	3433.221	3421.009
<b>15</b>	3362.058	3345.848	3360.023	3374.270	3362.058	3341.777	3339.742	3333.709	3345.848	3335.744
<b>20</b>	3238.921	3212.825	3250.988	3250.988	3244.954	3216.823	3216.823	3208.827	3206.865	3212.825
<b>25</b>	3095.140	3073.333	3099.138	3093.178	3075.296	3047.601	3041.640	3037.715	3025.794	3041.640
<b>30</b>	2900.113	2896.188	2896.188	2872.781	2855.263	2833.820	2824.152	2824.152	2806.634	2814.411
<b>35</b>	2633.341	2639.083	2621.856	2591.399	2566.611	2553.309	2545.749	2545.749	2526.777	2526.777
<b>40</b>	2258.914	2264.512	2227.512	2207.232	2188.769	2186.951	2185.134	2185.134	2175.902	2164.926
<b>45</b>	1782.141	1789.192	1748.413	1736.055	1725.443	1729.004	1734.311	1739.617	1744.923	1744.923
<b>50</b>	1248.523	1252.449	1224.681	1210.797	1204.837	1212.760	1220.683	1232.604	1248.523	1264.370
<b>55</b>	688.665	690.628	678.925	667.294	669.257	682.850	686.702	700.295	721.666	735.332
<b>60</b>	328.341	326.451	326.451	320.708	324.561	337.936	345.568	357.053	370.428	380.023
<b>65</b>	174.020	174.020	172.130	172.130	174.020	179.690	187.322	196.845	206.294	208.257
<b>70</b>	100.094	98.204	100.094	101.984	107.654	109.544	117.104	126.626	130.406	124.736
<b>75</b>	58.515	58.515	58.515	62.295	66.075	73.635	77.415	75.525	67.965	60.405
<b>80</b>	26.386	26.386	30.166	35.836	35.836	37.726	35.836	30.166	26.386	20.717
<b>85</b>	5.670	7.560	9.450	9.450	7.560	3.780	3.780	1.890	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	3.780	0.000	0.000	3.780	0.000	3.780	0.000	1.890
<b>115</b>	1.890	1.890	0.000	1.890	0.000	3.780	1.890	1.890	3.780	1.890
<b>120</b>	0.000	0.000	0.000	0.000	0.000	1.890	1.890	1.890	1.890	1.890
<b>125</b>	0.000	0.000	0.000	1.890	3.780	1.890	0.000	3.780	0.000	0.000
<b>130</b>	1.890	0.000	0.000	3.780	1.890	0.000	3.780	1.890	3.780	1.890
<b>135</b>	3.780	5.670	1.890	3.780	1.890	5.670	5.670	3.780	5.670	5.670
<b>140</b>	3.780	0.000	0.000	1.890	1.890	1.890	3.780	1.890	1.890	0.000
<b>145</b>	3.780	7.560	5.670	9.450	3.780	7.560	5.670	5.670	3.780	3.780
<b>150</b>	3.780	3.780	7.560	3.780	7.560	5.670	3.780	7.560	5.670	5.670
<b>155</b>	3.780	5.670	3.780	5.670	3.780	3.780	5.670	3.780	5.670	5.670
<b>160</b>	5.670	5.670	5.670	3.780	7.560	3.780	3.780	3.780	3.780	5.670
<b>165</b>	5.670	5.670	7.560	5.670	5.670	3.780	7.560	5.670	5.670	3.780
<b>170</b>	3.780	3.780	7.560	7.560	3.780	7.560	5.670	7.560	7.560	11.340
<b>175</b>	3.780	3.780	7.560	3.780	3.780	3.780	3.780	3.780	5.670	5.670
<b>180</b>	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

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>
<b>0</b>	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635
<b>5</b>	3488.466	3513.035	3508.964	3482.287	3500.750	3519.214	3515.143	3504.821	3500.750	3504.821
<b>10</b>	3416.939	3435.329	3418.974	3406.762	3427.115	3439.400	3445.506	3435.329	3423.045	3435.329
<b>15</b>	3339.742	3335.744	3325.568	3335.744	3345.848	3349.919	3351.954	3357.987	3347.883	3357.987
<b>20</b>	3220.894	3206.865	3200.831	3222.857	3232.888	3234.923	3238.921	3244.954	3253.023	3244.954
<b>25</b>	3047.601	3035.680	3045.566	3065.410	3081.256	3085.182	3077.258	3081.256	3103.063	3081.256
<b>30</b>	2818.264	2818.264	2828.004	2845.523	2861.078	2865.004	2857.153	2865.004	2890.300	2865.004
<b>35</b>	2526.777	2530.557	2545.749	2560.941	2560.941	2566.611	2572.354	2589.436	2604.701	2589.436
<b>40</b>	2168.561	2170.378	2194.293	2199.817	2201.707	2210.939	2225.695	2244.158	2251.573	2244.158
<b>45</b>	1753.792	1755.536	1778.579	1780.323	1778.579	1789.192	1808.745	1826.554	1831.933	1826.554
<b>50</b>	1280.289	1300.206	1318.160	1324.121	1328.119	1336.914	1355.669	1365.918	1371.006	1365.918
<b>55</b>	758.666	774.221	793.702	805.405	815.218	828.884	838.625	850.328	860.141	850.328
<b>60</b>	395.361	408.809	418.404	427.999	433.741	439.484	437.594	435.704	435.704	435.704
<b>65</b>	217.707	217.707	208.257	202.514	191.102	183.542	175.910	168.350	170.240	168.350
<b>70</b>	111.434	105.764	98.204	88.754	88.754	83.085	79.305	77.415	75.525	77.415
<b>75</b>	50.956	47.176	47.176	43.396	39.616	35.836	32.056	28.276	28.276	28.276

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**CANDELA TABULATION - (Cont.)**

<b>80</b>	15.047	15.047	9.450	7.560	5.670	5.670	3.780	5.670	5.670	5.670
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.890	0.000	1.890
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	1.890	1.890	0.000	1.890	0.000
<b>120</b>	3.780	0.000	0.000	1.890	0.000	3.780	0.000	1.890	1.890	1.890
<b>125</b>	0.000	0.000	0.000	1.890	1.890	1.890	0.000	0.000	0.000	0.000
<b>130</b>	0.000	3.780	1.890	1.890	0.000	0.000	3.780	0.000	3.780	0.000
<b>135</b>	3.780	1.890	0.000	0.000	1.890	0.000	1.890	0.000	0.000	0.000
<b>140</b>	0.000	5.670	1.890	1.890	1.890	1.890	1.890	1.890	1.890	1.890
<b>145</b>	5.670	0.000	3.780	5.670	3.780	0.000	0.000	3.780	5.670	3.780
<b>150</b>	3.780	0.000	3.780	1.890	3.780	1.890	3.780	1.890	0.000	1.890
<b>155</b>	5.670	7.560	5.670	5.670	7.560	5.670	7.560	5.670	5.670	5.670
<b>160</b>	3.780	5.670	1.890	5.670	5.670	3.780	5.670	5.670	9.450	5.670
<b>165</b>	3.780	5.670	3.780	7.560	7.560	5.670	7.560	7.560	5.670	7.560
<b>170</b>	7.560	7.560	9.450	7.560	7.560	5.670	3.780	3.780	5.670	3.780
<b>175</b>	5.670	5.670	3.780	5.670	5.670	5.670	7.560	5.670	7.560	5.670
<b>180</b>	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

**Vert. Angles**      **Horizontal Angles**

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
<b>0</b>	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635
<b>5</b>	3515.143	3519.214	3500.750	3482.287	3508.964	3513.035	3488.466	3480.252	3484.322	3478.217
<b>10</b>	3445.506	3439.400	3427.115	3406.762	3418.974	3435.329	3416.939	3421.009	3433.221	3412.868
<b>15</b>	3351.954	3349.919	3345.848	3335.744	3325.568	3335.744	3339.742	3335.744	3345.848	3333.709
<b>20</b>	3238.921	3234.923	3232.888	3222.857	3200.831	3206.865	3220.894	3212.825	3206.865	3208.827
<b>25</b>	3077.258	3085.182	3081.256	3065.410	3045.566	3035.680	3047.601	3041.640	3025.794	3037.715
<b>30</b>	2857.153	2865.004	2861.078	2845.523	2828.004	2818.264	2818.264	2814.411	2806.634	2824.152
<b>35</b>	2572.354	2566.611	2560.941	2560.941	2545.749	2530.557	2526.777	2526.777	2526.777	2545.749
<b>40</b>	2225.695	2210.939	2201.707	2199.817	2194.293	2170.378	2168.561	2164.926	2175.902	2185.134
<b>45</b>	1808.745	1789.192	1778.579	1780.323	1778.579	1755.536	1753.792	1744.923	1744.923	1739.617
<b>50</b>	1355.669	1336.914	1328.119	1324.121	1318.160	1300.206	1280.289	1264.370	1248.523	1232.604
<b>55</b>	838.625	828.884	815.218	805.405	793.702	774.221	758.666	735.332	721.666	700.295
<b>60</b>	437.594	439.484	433.741	427.999	418.404	408.809	395.361	380.023	370.428	357.053
<b>65</b>	175.910	183.542	191.102	202.514	208.257	217.707	217.707	208.257	206.294	196.845
<b>70</b>	79.305	83.085	88.754	88.754	98.204	105.764	111.434	124.736	130.406	126.626
<b>75</b>	32.056	35.836	39.616	43.396	47.176	47.176	50.956	60.405	67.965	75.525
<b>80</b>	3.780	5.670	5.670	7.560	9.450	15.047	15.047	20.717	26.386	30.166
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.890
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.890	0.000	3.780
<b>115</b>	1.890	1.890	0.000	0.000	0.000	0.000	0.000	1.890	3.780	1.890
<b>120</b>	0.000	3.780	0.000	1.890	0.000	0.000	3.780	1.890	1.890	1.890
<b>125</b>	0.000	1.890	1.890	1.890	0.000	0.000	0.000	0.000	0.000	3.780
<b>130</b>	3.780	0.000	0.000	1.890	1.890	3.780	0.000	1.890	3.780	1.890
<b>135</b>	1.890	0.000	1.890	0.000	0.000	1.890	3.780	5.670	5.670	3.780
<b>140</b>	1.890	1.890	1.890	1.890	1.890	5.670	0.000	0.000	1.890	1.890
<b>145</b>	0.000	0.000	3.780	5.670	3.780	0.000	5.670	3.780	3.780	5.670
<b>150</b>	3.780	1.890	3.780	1.890	3.780	0.000	3.780	5.670	5.670	7.560
<b>155</b>	7.560	5.670	7.560	5.670	5.670	7.560	5.670	5.670	5.670	3.780
<b>160</b>	5.670	3.780	5.670	5.670	1.890	5.670	3.780	5.670	3.780	3.780
<b>165</b>	7.560	5.670	7.560	7.560	3.780	5.670	3.780	3.780	5.670	5.670
<b>170</b>	3.780	5.670	7.560	7.560	9.450	7.560	7.560	11.340	7.560	7.560

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>175</b>	7.560	5.670	5.670	5.670	3.780	5.670	5.670	5.670	5.670	3.780
<b>180</b>	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>	<b>185</b>	<b>190</b>	<b>195</b>
<b>0</b>	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635
<b>5</b>	3478.217	3492.536	3488.466	3492.536	3500.750	3556.213	3531.571	3556.213	3500.750	3492.536
<b>10</b>	3418.974	3427.115	3433.221	3445.506	3443.471	3463.897	3455.683	3463.897	3443.471	3445.506
<b>15</b>	3339.742	3341.777	3362.058	3374.270	3360.023	3345.848	3362.058	3345.848	3360.023	3374.270
<b>20</b>	3216.823	3216.823	3244.954	3250.988	3250.988	3212.825	3238.921	3212.825	3250.988	3250.988
<b>25</b>	3041.640	3047.601	3075.296	3093.178	3099.138	3073.333	3095.140	3073.333	3099.138	3093.178
<b>30</b>	2824.152	2833.820	2855.263	2872.781	2896.188	2896.188	2900.113	2896.188	2896.188	2872.781
<b>35</b>	2545.749	2553.309	2566.611	2591.399	2621.856	2639.083	2633.341	2639.083	2621.856	2591.399
<b>40</b>	2185.134	2186.951	2188.769	2207.232	2227.512	2264.512	2258.914	2264.512	2227.512	2207.232
<b>45</b>	1734.311	1729.004	1725.443	1736.055	1748.413	1789.192	1782.141	1789.192	1748.413	1736.055
<b>50</b>	1220.683	1212.760	1204.837	1210.797	1224.681	1252.449	1248.523	1252.449	1224.681	1210.797
<b>55</b>	686.702	682.850	669.257	667.294	678.925	690.628	688.665	690.628	678.925	667.294
<b>60</b>	345.568	337.936	324.561	320.708	326.451	326.451	328.341	326.451	326.451	320.708
<b>65</b>	187.322	179.690	174.020	172.130	172.130	174.020	174.020	174.020	172.130	172.130
<b>70</b>	117.104	109.544	107.654	101.984	100.094	98.204	100.094	98.204	100.094	101.984
<b>75</b>	77.415	73.635	66.075	62.295	58.515	58.515	58.515	58.515	58.515	62.295
<b>80</b>	35.836	37.726	35.836	35.836	30.166	26.386	26.386	26.386	30.166	35.836
<b>85</b>	3.780	3.780	7.560	9.450	9.450	7.560	5.670	7.560	9.450	9.450
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	3.780	0.000	0.000	3.780	0.000	0.000	0.000	3.780	0.000
<b>115</b>	1.890	3.780	0.000	1.890	0.000	1.890	1.890	1.890	0.000	1.890
<b>120</b>	1.890	1.890	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	1.890	3.780	1.890	0.000	0.000	0.000	0.000	0.000	1.890
<b>130</b>	3.780	0.000	1.890	3.780	0.000	0.000	1.890	0.000	0.000	3.780
<b>135</b>	5.670	5.670	1.890	3.780	1.890	5.670	3.780	5.670	1.890	3.780
<b>140</b>	3.780	1.890	1.890	1.890	0.000	0.000	3.780	0.000	0.000	1.890
<b>145</b>	5.670	7.560	3.780	9.450	5.670	7.560	3.780	7.560	5.670	9.450
<b>150</b>	3.780	5.670	7.560	3.780	7.560	3.780	3.780	3.780	7.560	3.780
<b>155</b>	5.670	3.780	3.780	5.670	3.780	5.670	3.780	5.670	3.780	5.670
<b>160</b>	3.780	3.780	7.560	3.780	5.670	5.670	5.670	5.670	5.670	3.780
<b>165</b>	7.560	3.780	5.670	5.670	7.560	5.670	5.670	5.670	7.560	5.670
<b>170</b>	5.670	7.560	3.780	7.560	7.560	3.780	3.780	3.780	7.560	7.560
<b>175</b>	3.780	3.780	3.780	3.780	7.560	3.780	3.780	3.780	7.560	3.780
<b>180</b>	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>200</b>	<b>205</b>	<b>210</b>	<b>215</b>	<b>220</b>	<b>225</b>	<b>230</b>	<b>235</b>	<b>240</b>	<b>245</b>
<b>0</b>	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635
<b>5</b>	3488.466	3492.536	3478.217	3478.217	3484.322	3480.252	3488.466	3513.035	3508.964	3482.287
<b>10</b>	3433.221	3427.115	3418.974	3412.868	3433.221	3421.009	3416.939	3435.329	3418.974	3406.762
<b>15</b>	3362.058	3341.777	3339.742	3333.709	3345.848	3335.744	3339.742	3335.744	3325.568	3335.744
<b>20</b>	3244.954	3216.823	3216.823	3208.827	3206.865	3212.825	3220.894	3206.865	3200.831	3222.857
<b>25</b>	3075.296	3047.601	3041.640	3037.715	3025.794	3041.640	3047.601	3035.680	3045.566	3065.410
<b>30</b>	2855.263	2833.820	2824.152	2824.152	2806.634	2814.411	2818.264	2818.264	2828.004	2845.523
<b>35</b>	2566.611	2553.309	2545.749	2545.749	2526.777	2526.777	2526.777	2530.557	2545.749	2560.941
<b>40</b>	2188.769	2186.951	2185.134	2185.134	2175.902	2164.926	2168.561	2170.378	2194.293	2199.817
<b>45</b>	1725.443	1729.004	1734.311	1739.617	1744.923	1744.923	1753.792	1755.536	1778.579	1780.323
<b>50</b>	1204.837	1212.760	1220.683	1232.604	1248.523	1264.370	1280.289	1300.206	1318.160	1324.121
<b>55</b>	669.257	682.850	686.702	700.295	721.666	735.332	758.666	774.221	793.702	805.405
<b>60</b>	324.561	337.936	345.568	357.053	370.428	380.023	395.361	408.809	418.404	427.999

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : 1582-02-2580025.IES**

**CANDELA TABULATION - (Cont.)**

65	174.020	179.690	187.322	196.845	206.294	208.257	217.707	217.707	208.257	202.514
70	107.654	109.544	117.104	126.626	130.406	124.736	111.434	105.764	98.204	88.754
75	66.075	73.635	77.415	75.525	67.965	60.405	50.956	47.176	47.176	43.396
80	35.836	37.726	35.836	30.166	26.386	20.717	15.047	15.047	9.450	7.560
85	7.560	3.780	3.780	1.890	0.000	0.000	0.000	0.000	0.000	0.000
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	3.780	0.000	3.780	0.000	1.890	0.000	0.000	0.000	0.000
115	0.000	3.780	1.890	1.890	3.780	1.890	0.000	0.000	0.000	0.000
120	0.000	1.890	1.890	1.890	1.890	1.890	3.780	0.000	0.000	1.890
125	3.780	1.890	0.000	3.780	0.000	0.000	0.000	0.000	0.000	1.890
130	1.890	0.000	3.780	1.890	3.780	1.890	0.000	3.780	1.890	1.890
135	1.890	5.670	5.670	3.780	5.670	5.670	3.780	1.890	0.000	0.000
140	1.890	1.890	3.780	1.890	1.890	0.000	0.000	5.670	1.890	1.890
145	3.780	7.560	5.670	5.670	3.780	3.780	5.670	0.000	3.780	5.670
150	7.560	5.670	3.780	7.560	5.670	5.670	3.780	0.000	3.780	1.890
155	3.780	3.780	5.670	3.780	5.670	5.670	5.670	7.560	5.670	5.670
160	7.560	3.780	3.780	3.780	3.780	5.670	3.780	5.670	1.890	5.670
165	5.670	3.780	7.560	5.670	5.670	3.780	3.780	5.670	3.780	7.560
170	3.780	7.560	5.670	7.560	7.560	11.340	7.560	7.560	9.450	7.560
175	3.780	3.780	3.780	3.780	5.670	5.670	5.670	5.670	3.780	5.670
180	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

**Vert. Horizontal Angles**  
**Angles**

	<b>250</b>	<b>255</b>	<b>260</b>	<b>265</b>	<b>270</b>	<b>275</b>	<b>280</b>	<b>285</b>	<b>290</b>	<b>295</b>
0	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635
5	3500.750	3519.214	3515.143	3504.821	3500.750	3504.821	3515.143	3519.214	3500.750	3482.287
10	3427.115	3439.400	3445.506	3435.329	3423.045	3435.329	3445.506	3439.400	3427.115	3406.762
15	3345.848	3349.919	3351.954	3357.987	3347.883	3357.987	3351.954	3349.919	3345.848	3335.744
20	3232.888	3234.923	3238.921	3244.954	3253.023	3244.954	3238.921	3234.923	3232.888	3222.857
25	3081.256	3085.182	3077.258	3081.256	3103.063	3081.256	3077.258	3085.182	3081.256	3065.410
30	2861.078	2865.004	2857.153	2865.004	2890.300	2865.004	2857.153	2865.004	2861.078	2845.523
35	2560.941	2566.611	2572.354	2589.436	2604.701	2589.436	2572.354	2566.611	2560.941	2560.941
40	2201.707	2210.939	2225.695	2244.158	2251.573	2244.158	2225.695	2210.939	2201.707	2199.817
45	1778.579	1789.192	1808.745	1826.554	1831.933	1826.554	1808.745	1789.192	1778.579	1780.323
50	1328.119	1336.914	1355.669	1365.918	1371.006	1365.918	1355.669	1336.914	1328.119	1324.121
55	815.218	828.884	838.625	850.328	860.141	850.328	838.625	828.884	815.218	805.405
60	433.741	439.484	437.594	435.704	435.704	435.704	437.594	439.484	433.741	427.999
65	191.102	183.542	175.910	168.350	170.240	168.350	175.910	183.542	191.102	202.514
70	88.754	83.085	79.305	77.415	75.525	77.415	79.305	83.085	88.754	88.754
75	39.616	35.836	32.056	28.276	28.276	28.276	32.056	35.836	39.616	43.396
80	5.670	5.670	3.780	5.670	5.670	5.670	3.780	5.670	5.670	7.560
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	1.890	0.000	1.890	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	1.890	1.890	0.000	1.890	0.000	1.890	1.890	0.000	0.000
120	0.000	3.780	0.000	1.890	1.890	1.890	0.000	3.780	0.000	1.890
125	1.890	1.890	0.000	0.000	0.000	0.000	0.000	1.890	1.890	1.890
130	0.000	0.000	3.780	0.000	3.780	0.000	3.780	0.000	0.000	1.890
135	1.890	0.000	1.890	0.000	0.000	0.000	1.890	0.000	1.890	0.000
140	1.890	1.890	1.890	1.890	1.890	1.890	1.890	1.890	1.890	1.890
145	3.780	0.000	0.000	3.780	5.670	3.780	0.000	0.000	3.780	5.670
150	3.780	1.890	3.780	1.890	0.000	1.890	3.780	1.890	3.780	1.890
155	7.560	5.670	7.560	5.670	5.670	5.670	7.560	5.670	7.560	5.670

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : 1582-02-2580025.IES**

**CANDELA TABULATION - (Cont.)**

<b>160</b>	5.670	3.780	5.670	5.670	9.450	5.670	5.670	3.780	5.670	5.670
<b>165</b>	7.560	5.670	7.560	7.560	5.670	7.560	7.560	5.670	7.560	7.560
<b>170</b>	7.560	5.670	3.780	3.780	5.670	3.780	3.780	5.670	7.560	7.560
<b>175</b>	5.670	5.670	7.560	5.670	7.560	5.670	7.560	5.670	5.670	5.670
<b>180</b>	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

**Vert. Angles**      **Horizontal Angles**

	<u><b>300</b></u>	<u><b>305</b></u>	<u><b>310</b></u>	<u><b>315</b></u>	<u><b>320</b></u>	<u><b>325</b></u>	<u><b>330</b></u>	<u><b>335</b></u>	<u><b>340</b></u>	<u><b>345</b></u>
<b>0</b>	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635	3584.635
<b>5</b>	3508.964	3513.035	3488.466	3480.252	3484.322	3478.217	3478.217	3492.536	3488.466	3492.536
<b>10</b>	3418.974	3435.329	3416.939	3421.009	3433.221	3412.868	3418.974	3427.115	3433.221	3445.506
<b>15</b>	3325.568	3335.744	3339.742	3335.744	3345.848	3333.709	3339.742	3341.777	3362.058	3374.270
<b>20</b>	3200.831	3206.865	3220.894	3212.825	3206.865	3208.827	3216.823	3216.823	3244.954	3250.988
<b>25</b>	3045.566	3035.680	3047.601	3041.640	3025.794	3037.715	3041.640	3047.601	3075.296	3093.178
<b>30</b>	2828.004	2818.264	2818.264	2814.411	2806.634	2824.152	2824.152	2833.820	2855.263	2872.781
<b>35</b>	2545.749	2530.557	2526.777	2526.777	2526.777	2545.749	2545.749	2553.309	2566.611	2591.399
<b>40</b>	2194.293	2170.378	2168.561	2164.926	2175.902	2185.134	2185.134	2186.951	2188.769	2207.232
<b>45</b>	1778.579	1755.536	1753.792	1744.923	1744.923	1739.617	1734.311	1729.004	1725.443	1736.055
<b>50</b>	1318.160	1300.206	1280.289	1264.370	1248.523	1232.604	1220.683	1212.760	1204.837	1210.797
<b>55</b>	793.702	774.221	758.666	735.332	721.666	700.295	686.702	682.850	669.257	667.294
<b>60</b>	418.404	408.809	395.361	380.023	370.428	357.053	345.568	337.936	324.561	320.708
<b>65</b>	208.257	217.707	217.707	208.257	206.294	196.845	187.322	179.690	174.020	172.130
<b>70</b>	98.204	105.764	111.434	124.736	130.406	126.626	117.104	109.544	107.654	101.984
<b>75</b>	47.176	47.176	50.956	60.405	67.965	75.525	77.415	73.635	66.075	62.295
<b>80</b>	9.450	15.047	15.047	20.717	26.386	30.166	35.836	37.726	35.836	35.836
<b>85</b>	0.000	0.000	0.000	0.000	0.000	1.890	3.780	3.780	7.560	9.450
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	1.890	0.000	3.780	0.000	3.780	0.000	0.000
<b>115</b>	0.000	0.000	0.000	1.890	3.780	1.890	1.890	3.780	0.000	1.890
<b>120</b>	0.000	0.000	3.780	1.890	1.890	1.890	1.890	1.890	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	3.780	0.000	1.890	3.780	1.890
<b>130</b>	1.890	3.780	0.000	1.890	3.780	1.890	3.780	0.000	1.890	3.780
<b>135</b>	0.000	1.890	3.780	5.670	5.670	3.780	5.670	5.670	1.890	3.780
<b>140</b>	1.890	5.670	0.000	0.000	1.890	1.890	3.780	1.890	1.890	1.890
<b>145</b>	3.780	0.000	5.670	3.780	3.780	5.670	5.670	7.560	3.780	9.450
<b>150</b>	3.780	0.000	3.780	5.670	5.670	7.560	3.780	5.670	7.560	3.780
<b>155</b>	5.670	7.560	5.670	5.670	5.670	3.780	5.670	3.780	3.780	5.670
<b>160</b>	1.890	5.670	3.780	5.670	3.780	3.780	3.780	3.780	7.560	3.780
<b>165</b>	3.780	5.670	3.780	3.780	5.670	5.670	7.560	3.780	5.670	5.670
<b>170</b>	9.450	7.560	7.560	11.340	7.560	7.560	5.670	7.560	3.780	7.560
<b>175</b>	3.780	5.670	5.670	5.670	5.670	3.780	3.780	3.780	3.780	3.780
<b>180</b>	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

**Vert. Angles**      **Horizontal Angles**

	<u><b>350</b></u>	<u><b>355</b></u>	<u><b>360</b></u>
<b>0</b>	3584.635	3584.635	3584.635
<b>5</b>	3500.750	3556.213	3531.571
<b>10</b>	3443.471	3463.897	3455.683
<b>15</b>	3360.023	3345.848	3362.058
<b>20</b>	3250.988	3212.825	3238.921
<b>25</b>	3099.138	3073.333	3095.140
<b>30</b>	2896.188	2896.188	2900.113
<b>35</b>	2621.856	2639.083	2633.341
<b>40</b>	2227.512	2264.512	2258.914
<b>45</b>	1748.413	1789.192	1782.141

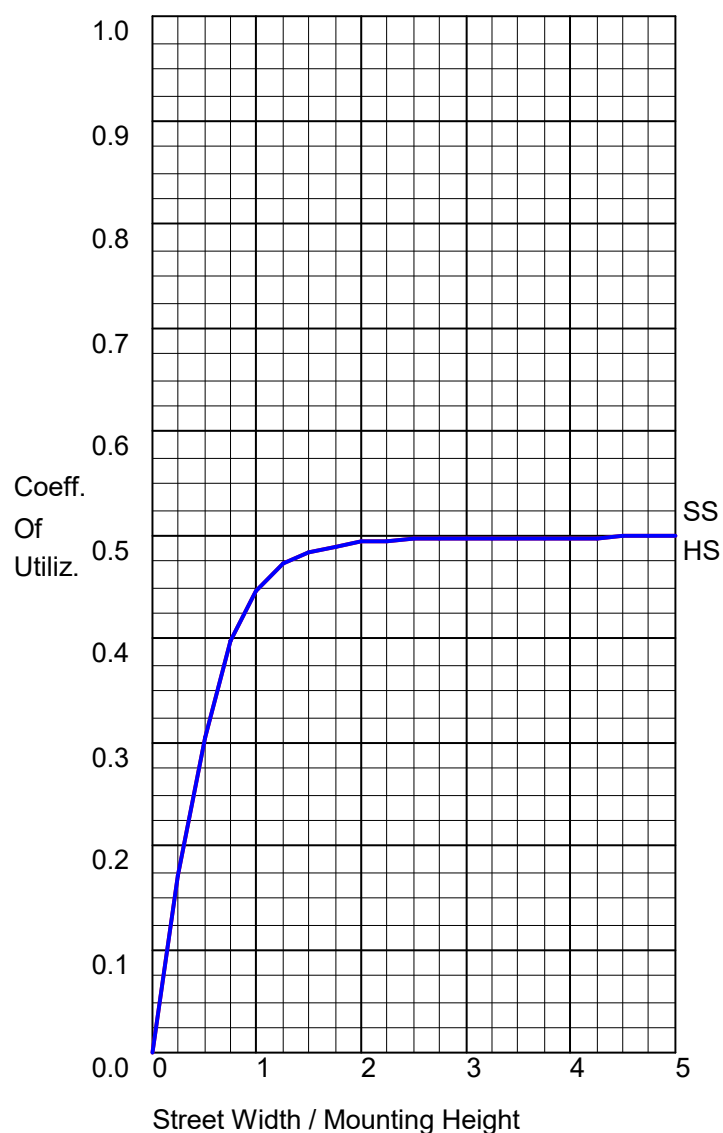
IES ROAD REPORT  
PHOTOMETRIC FILENAME : 1582-02-2580025.IES

CANDELA TABULATION - (Cont.)

50	1224.681	1252.449	1248.523
55	678.925	690.628	688.665
60	326.451	326.451	328.341
65	172.130	174.020	174.020
70	100.094	98.204	100.094
75	58.515	58.515	58.515
80	30.166	26.386	26.386
85	9.450	7.560	5.670
90	0.000	0.000	0.000
95	0.000	0.000	0.000
100	0.000	0.000	0.000
105	0.000	0.000	0.000
110	3.780	0.000	0.000
115	0.000	1.890	1.890
120	0.000	0.000	0.000
125	0.000	0.000	0.000
130	0.000	0.000	1.890
135	1.890	5.670	3.780
140	0.000	0.000	3.780
145	5.670	7.560	3.780
150	7.560	3.780	3.780
155	3.780	5.670	3.780
160	5.670	5.670	5.670
165	7.560	5.670	5.670
170	7.560	3.780	3.780
175	7.560	3.780	3.780
180	5.000	5.000	5.000



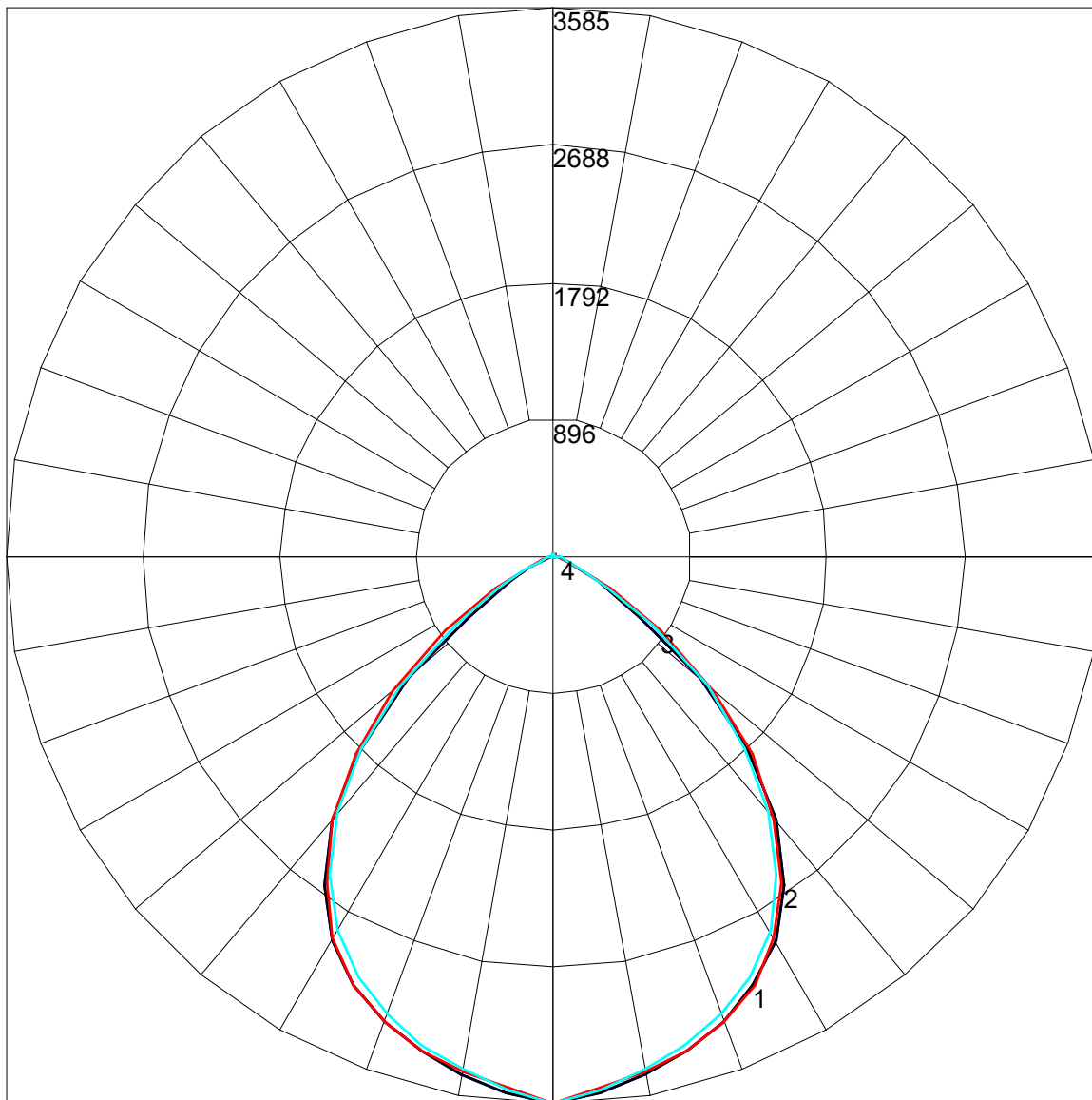
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	3304.3	49.9
Downward House Side	3304.3	49.9
Downward Total	6608.6	99.8
Upward Street Side	5.5	0.1
Upward House Side	5.5	0.1
Upward Total	11.0	0.2
Total Flux	6619.6	100.0

POLAR GRAPH



Maximum Candela = 3584.635 Located At Horizontal Angle = 360, Vertical Angle = 0

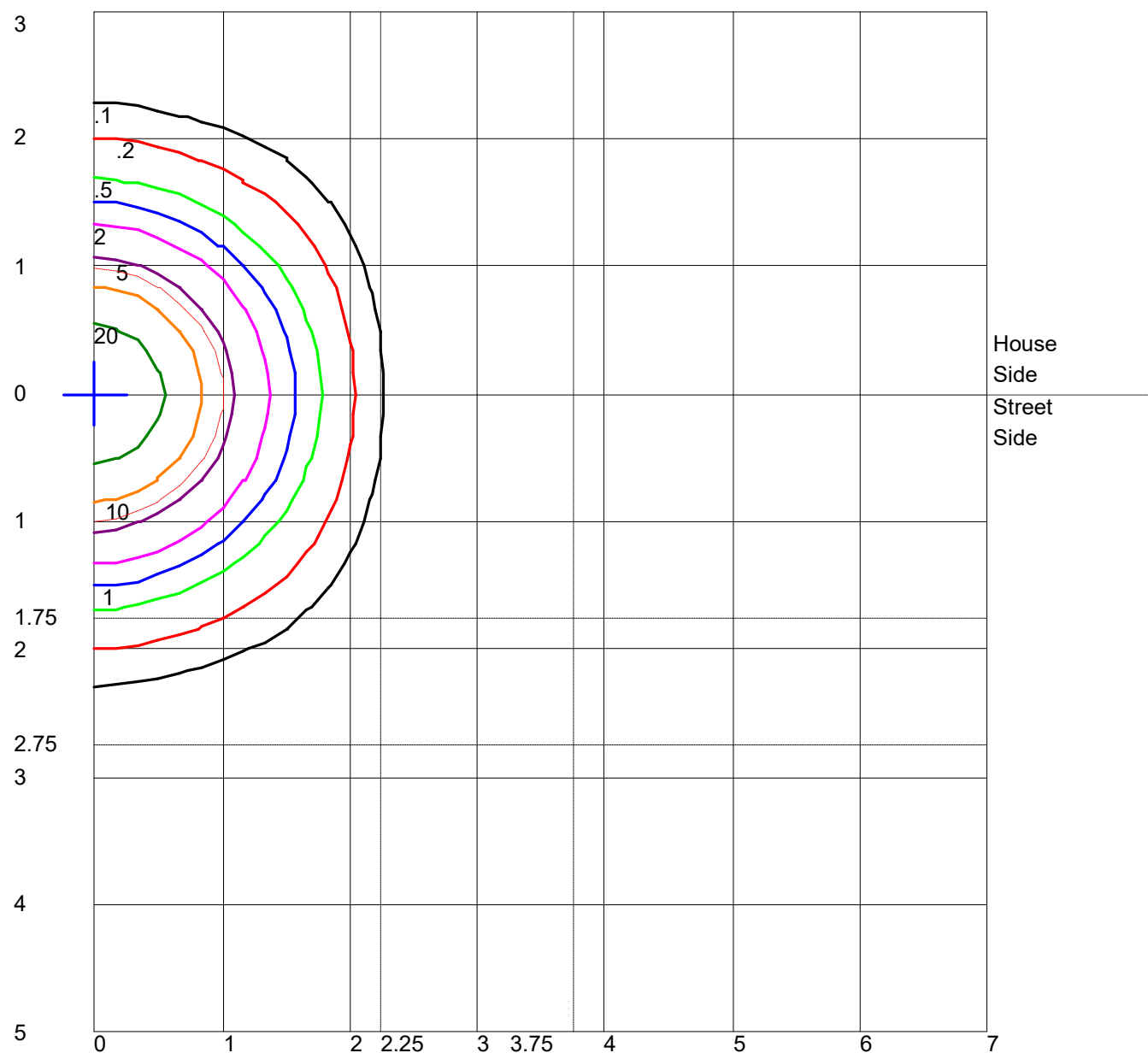
# 1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (0 - 180)

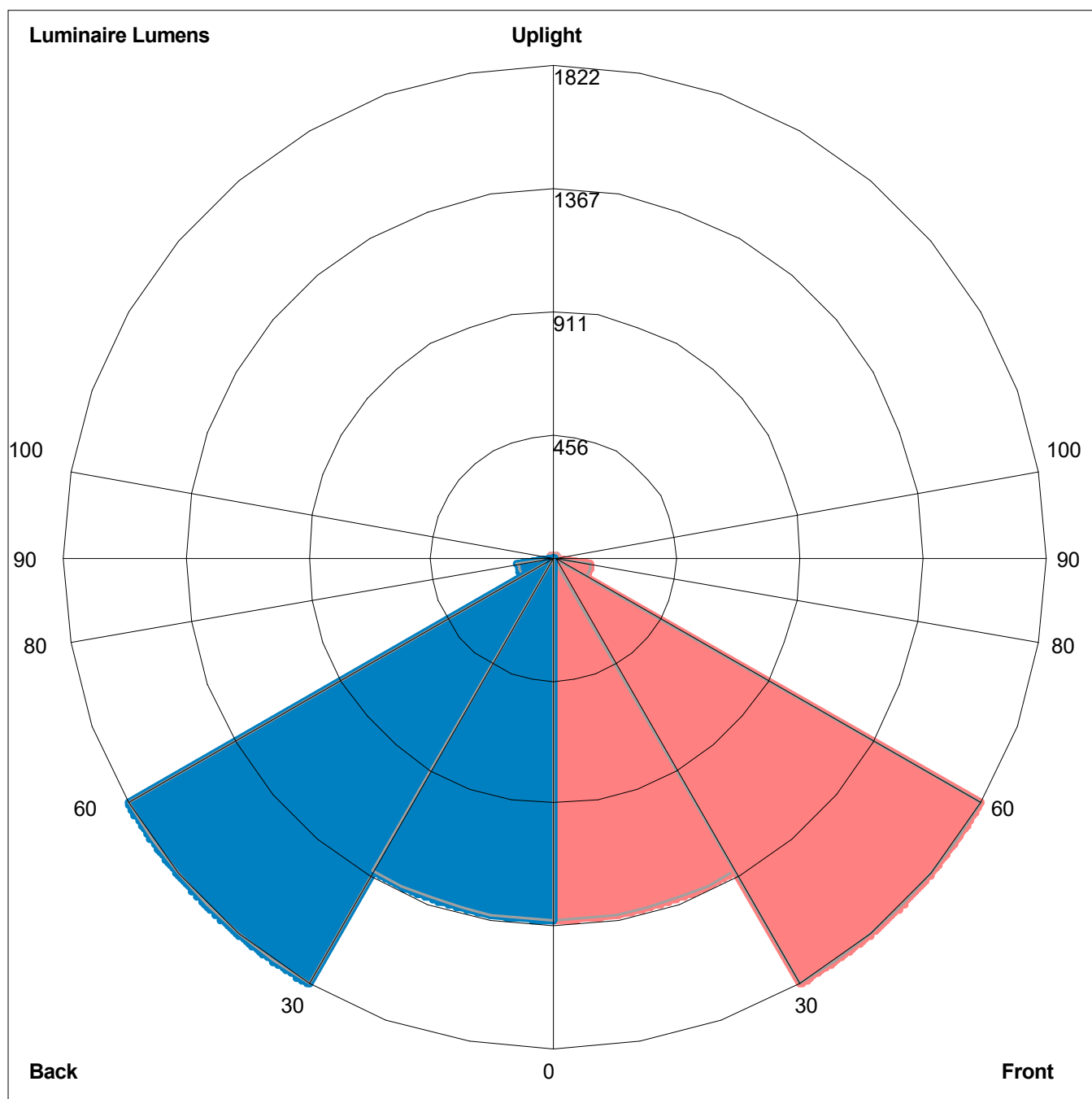
# 3 - Vertical Plane Through Horizontal Angles (90 - 270)

# 4 - Vertical Plane Through Horizontal Angles (60 - 240)

ISOLUX LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1342.2, Medium=1822.1, High=136.5, Very High=3.4  
Back: Low=1342.2, Medium=1822.1, High=136.5, Very High=3.4  
Uplight: Low=0.0, High=11.0

BUG Rating : B3-U2-G0