



ISO/IEC 17025:2017  
12-LAB-051



## IES ROAD REPORT

PHOTOMETRIC FILENAME : 1379-2330012.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[NAME] INFORME DE RESULTADOS SIMPLIFICADO - FSLA01b V02 2023-02-27

[TESTING METHOD] ANSI/IES LM-79-19 Numerales 5 y 7.3

[TEST] 1379-2330012

[ISSUEDATE] 06-mar-23

[MANUFAC] ELECTROCONTROL S.A.S.

[LUMCAT] LED

[LUMINAIRE] Luminaria Magnus LED 200 W - M16B90 5700K

[LAMPCAT] Magnus LED 4 Modulos

[LAMP] Modulos de LEDs - 5700 K

[BALLAST] LED Driver - INVENTRONICS

[TESTLAB] LAPEC LABORATORIO DE PRUEBAS Y ENSAYOS ELECTROCONTROL

[MORE] Voltaje (V): 219.98; Corriente (A): 0.9231; Potencia (W): 200.0523; Frecuencia (Hz): 60

[MORE] Calle 59 No. 59-194 Autopista Norte Km. 13; Copacabana, Antioquia

[MORE] (+57) 314 488 7855; <https://www.electrocontrol.com.co/>

[MORE] [Lapec@electrocontrol.com.co](mailto:Lapec@electrocontrol.com.co); [Tlaboratorio@electrocontrol.com.co](mailto:Tlaboratorio@electrocontrol.com.co)

[MORE] Este informe contiene 10 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.

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	36461
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	182
Total Luminaire Watts	200.0523
Ballast Factor	1.00
Maximum Candela	16281.636
Maximum Candela Angle	0H 0V
Maximum Candela (<90 Degrees Vertical)	16281.636
Maximum Candela Angle (<90 Degrees Vertical)	0H 0V
Maximum Candela At 90 Degrees Vertical	37.952 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	332.442 (0.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



**IES ROAD REPORT**  
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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	16281.63616281.63616281.63616281.63616281.63616281.63616281.63616281.63616281.63616281.63616281.636									
2.5	16156.83316183.65516156.83316183.65516174.71516183.65516165.77416147.89316147.89316138.952									
5.0	16032.03016085.67416032.03016085.67416067.79316085.67416049.91116014.14916014.14915996.268									
7.5	16014.14916067.79316032.03016032.03116049.91216049.91216049.91115987.32815996.26815987.328									
10.0	15996.26816049.91116032.03015978.38716032.03016014.14916049.91115960.50615978.38715978.387									
12.5	15969.44715987.32815969.44715951.56615987.32815969.44715969.44715924.74415915.98615933.685									
15.0	15942.62515924.74415906.86315924.74415942.62515924.74415888.98215888.98215853.58415888.982									
17.5	15826.58115791.00115773.12015817.64015835.52115808.70015773.12015755.23915746.48015764.179									
20.0	15710.53615657.25815639.37615710.53615728.41715692.65515657.25815621.49515639.37615639.376									
22.5	15514.39215461.11415460.93115505.45115523.33215523.33215487.75315469.87115487.75215469.871									
25.0	15318.24715264.96915282.48515300.36615318.24715354.00915318.24715318.24715336.12815300.366									
27.5	15051.30814980.14915006.60615033.42715033.42715086.88815042.36815069.00715077.94715051.126									
30.0	14784.36914695.32814730.72614766.48814748.60714819.76614766.48814819.76614819.76614801.885									
32.5	14367.08314313.62214322.56314331.50414331.50414384.78214366.90114429.11914411.42114384.599									
35.0	13949.79713931.91613914.40013896.51913914.40013949.79713967.31314038.47214003.07513967.313									
37.5	13330.89313348.40913330.89313313.19413313.19413322.13513357.34913375.23013375.23013330.893									
40.0	12711.98812764.90212747.38512729.86912711.98812694.47212747.38512711.98812747.38512694.472									
42.5	11886.35711939.08811921.57211904.05511895.11511877.59911904.05511895.11511904.05511860.083									
45.0	11060.72511113.27411095.75811078.24111078.24111060.72511060.72511078.24111060.72511025.693									
47.5	9938.049 9998.991 10007.5679990.050 9998.808 9990.050 10007.2019998.808 9998.626 9981.110									
50.0	8815.372 8884.707 8919.375 8901.858 8919.375 8919.375 8953.677 8919.375 8936.526 8936.526									
52.5	7471.919 7530.124 7571.178 7550.560 7583.038 7606.940 7647.994 7630.843 7627.376 7591.614									
55.0	6128.466 6175.541 6222.981 6199.261 6246.701 6294.505 6342.310 6342.310 6318.225 6246.701									
57.5	4655.647 4679.184 4739.579 4745.965 4788.296 4821.321 4863.834 4863.834 4842.486 4778.990									
60.0	3182.832 3182.832 3256.181 3292.673 3329.895 3348.141 3385.363 3385.363 3366.752 3311.284									
62.5	2350.085 2365.959 2394.605 2452.263 2486.565 2519.225 2553.528 2561.191 2536.377 2508.643									
65.0	1517.337 1549.085 1533.029 1611.852 1643.235 1690.309 1721.693 1737.019 1706.001 1706.001									
67.5	1031.264 1047.138 1056.626 1096.038 1129.063 1169.751 1219.746 1252.953 1254.413 1279.592									
70.0	545.190 545.190 580.223 580.223 614.890 649.193 717.798 768.886 802.824 853.183									
72.5	393.566 393.566 401.960 420.206 446.662 472.754 507.057 550.664 576.756 601.936									
75.0	241.942 241.942 223.696 260.188 278.434 296.315 296.315 332.442 350.688 350.688									
77.5	177.351 168.046 168.228 195.780 204.903 223.149 223.149 241.212 250.335 250.335									
80.0	112.760 94.149 112.760 131.371 131.371 149.982 149.982 149.982 149.982 149.982									
82.5	56.380 47.075 75.356 65.686 84.662 93.967 103.273 93.967 84.479 103.273									
85.0	0.000 0.000 37.952 0.000 37.952 37.952 56.563 37.952 18.976 56.563									
87.5	0.000 18.976 18.976 0.000 18.976 18.976 28.282 18.976 9.488 28.282									
90.0	0.000 37.952 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	16281.63616281.63616281.63616281.63616281.63616281.63616281.63616281.63616281.636									
2.5	16138.95216174.71516156.83316183.65516192.59616156.83316165.77416165.77416156.83316112.131									
5.0	15996.26816067.79316032.03016085.67416103.55516032.03016049.91116049.91116032.03015942.625									
7.5	16014.14916049.91216040.97116067.79316085.67416032.03016049.91116005.20915996.26815915.804									
10.0	16032.03016032.03016049.91116049.91116067.79316032.03016049.91115960.50615960.50615888.982									
12.5	15960.50615960.50615978.38715996.26815996.26915951.74815969.44715889.16415871.28315853.402									
15.0	15888.98215888.98215906.86315942.62515924.74415871.46615888.98215817.82215782.06015817.822									
17.5	15764.17915773.12015782.06115808.70015799.75915773.12015781.87815710.71815692.83715737.540									
20.0	15639.37615657.25815657.25815674.77415674.77415674.77415674.77415603.61415603.61415657.258									
22.5	15460.93115469.87215461.11415478.63015496.51115487.57015487.57015434.29215425.35115478.812									
25.0	15282.48515282.48515264.96915282.48515318.24715300.36615300.36615264.96915247.08715300.366									
27.5	15006.60615006.60614980.14914988.90715006.78814997.84714997.84714980.14914962.26714997.847									

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**CANDELA TABULATION - (Cont.)**

30.0	14730.72614730.72614695.32814695.32814695.32814695.32814695.32814695.32814677.44714695.328
32.5	14313.62314313.62314287.16514295.92414295.92414278.22514269.28414260.52614269.28414233.887
35.0	13896.51913896.51913879.00213896.51913896.51913861.12113843.24013825.72413861.12113772.446
37.5	13295.49613251.52313251.52213277.79713269.03913251.34013224.88313216.12513198.42713118.874
40.0	12694.47212606.52612624.04212659.07512641.55912641.55912606.52612606.52612535.73212465.302
42.5	11851.32511789.83511798.59311807.35211763.74411754.98611702.43711667.40511614.67411544.427
45.0	11008.17710973.14410973.14410955.62810885.92910868.41210798.34810728.28310693.61610623.551
47.5	9946.442 9876.925 9851.015 9807.590 9712.346 9677.678 9582.070 9529.886 9495.219 9417.126
50.0	8884.707 8780.705 8728.886 8659.552 8538.763 8486.944 8365.791 8331.489 8296.821 8210.700
52.5	7530.124 7395.834 7323.397 7207.900 7090.213 6996.246 6846.082 6795.723 6745.364 6669.278
55.0	6175.541 6010.962 5917.908 5756.248 5641.663 5505.548 5326.372 5259.957 5193.906 5127.856
57.5	4706.553 4560.768 4487.237 4361.704 4251.498 4140.015 4007.367 3940.039 3890.045 3840.051
60.0	3237.570 3110.578 3056.570 2967.165 2861.338 2774.487 2688.366 2620.126 2586.188 2552.250
62.5	2440.403 2353.369 2302.828 2234.406 2157.772 2090.627 2015.636 1965.460 1940.645 1923.676
65.0	1643.235 1596.160 1549.085 1501.646 1454.206 1406.767 1342.906 1310.793 1295.101 1295.101
67.5	1248.209 1224.672 1201.134 1177.415 1128.515 1087.827 1055.896 1014.296 1015.025 1015.025
70.0	853.183 853.183 853.183 853.183 802.824 768.886 768.886 717.798 734.949 734.949
72.5	619.817 672.913 672.913 681.853 647.733 639.705 613.248 578.764 569.640 578.581
75.0	386.450 492.642 492.642 510.523 492.642 510.523 457.610 439.729 404.331 422.212
77.5	268.216 349.046 358.169 385.356 385.538 412.542 376.963 322.590 323.137 322.954
80.0	149.982 205.450 223.696 260.188 278.434 314.561 296.315 205.450 241.942 223.696
82.5	93.967 140.494 140.130 158.376 167.499 213.661 195.232 149.800 168.046 168.228
85.0	37.952 75.538 56.563 56.563 56.563 112.760 94.149 94.149 94.149 112.760
87.5	18.976 37.769 28.282 28.282 28.282 56.380 47.075 47.075 47.075 65.868
90.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 18.976

**Vert.  
Angles**

**Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0.0	16281.6361628									

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**CANDELA TABULATION - (Cont.)**

67.5	1006.450	1014.296	1047.868	1088.192	1121.034	1193.653	1217.921	1273.753	1281.599	1305.136
70.0	717.798	717.798	768.886	785.673	819.610	869.969	886.756	919.963	919.963	919.963
72.5	578.764	587.704	630.764	648.098	673.825	716.338	715.973	724.001	679.846	653.207
75.0	439.729	457.610	492.642	510.523	528.039	562.707	545.190	528.039	439.729	386.450
77.5	349.959	358.899	394.479	421.483	412.177	438.634	393.566	394.114	322.590	286.645
80.0	260.188	260.188	296.315	332.442	296.315	314.561	241.942	260.188	205.450	186.839
82.5	186.474	195.780	213.843	222.601	204.538	213.661	158.740	158.376	140.494	112.396
85.0	112.760	131.371	131.371	112.760	112.760	112.760	75.538	56.563	75.538	37.952
87.5	56.380	65.686	65.686	56.380	56.380	65.868	37.769	28.282	37.769	28.464
90.0	0.000	0.000	0.000	0.000	0.000	18.976	0.000	0.000	0.000	18.976

**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	16281.636	16281.636	16281.636	16281.636	16281.636	16281.636	16281.636	16281.636	16281.636	16281.636
2.5	16156.833	16130.012	16130.012	16121.071	16121.071	16147.893	16138.952	16130.012	16121.071	16138.952
5.0	16032.030	15978.387	15978.387	15960.506	15960.506	16014.149	15996.268	15978.387	15960.506	15996.268
7.5	15987.328	15924.927	15933.685	15915.986	15898.105	15969.447	15942.625	15951.566	15942.625	15960.506
10.0	15942.625	15871.466	15888.982	15871.466	15835.703	15924.744	15888.982	15924.744	15924.744	15924.744
12.5	15853.402	15791.001	15799.759	15782.061	15764.179	15808.700	15773.120	15817.640	15817.640	15799.759
15.0	15764.179	15710.536	15710.536	15692.655	15692.655	15692.655	15657.258	15710.536	15710.536	15674.774
17.5	15621.496	15585.734	15585.734	15585.734	15549.971	15532.273	15532.273	15567.852	15558.912	15549.971
20.0	15478.812	15460.931	15460.931	15478.812	15407.287	15371.890	15407.287	15425.168	15407.287	15425.168
22.5	15238.330	15264.969	15238.147	15273.909	15193.627	15166.988	15184.686	15193.627	15193.627	15193.627
25.0	14997.847	15069.006	15015.363	15069.006	14979.966	14962.085	14962.085	14962.085	14979.966	14962.085
27.5	14713.392	14748.972	14722.150	14731.091	14695.511	14650.991	14668.872	14668.872	14659.931	14659.931
30.0	14428.937	14428.937	14428.937	14393.175	14411.056	14339.896	14375.658	14375.658	14339.896	14357.777
32.5	13968.043	13959.103	13950.345	13941.222	13950.162	13879.185	13914.765	13906.006	13896.884	13888.125
35.0	13507.149	13489.268	13471.752	13489.268	13489.268	13418.473	13453.871	13436.354	13453.871	13418.473
37.5	12880.582	12862.883	12836.609	12845.367	12845.367	12801.029	12809.970	12801.211	12792.454	12774.755
40.0	12254.014	12236.497	12201.465	12201.465	12201.465	12183.584	12166.068	12166.068	12131.036	12131.036
42.5	11456.299	11430.024	11386.416	11386.416	11386.416	11386.052	11368.718	11333.686	11307.412	11307.412
45.0	10658.583	10623.551	10571.367	10571.367	10571.367	10588.519	10571.367	10501.303	10483.787	10483.787
47.5	9624.583	9572.399	9563.641	9563.641	9555.065	9554.883	9511.822	9459.457	9450.699	9416.214
50.0	8590.582	8521.247	8555.914	8555.914	8538.763	8521.247	8452.277	8417.610	8417.610	8348.640
52.5	7324.310	7277.782	7271.761	7295.116	7263.185	7219.578	7150.243	7098.424	7052.444	7006.647
55.0	6058.037	6034.317	5987.607	6034.317	5987.607	5917.908	5848.208	5779.238	5687.278	5664.653
57.5	4693.964	4663.493	4640.138	4654.370	4612.586	4559.491	4497.454	4435.783	4371.922	4324.847
60.0	3329.895	3292.673	3292.673	3274.427	3237.570	3201.078	3146.705	3092.332	3056.570	2985.046
62.5	2502.257	2491.491	2483.646	2474.523	2432.557	2390.774	2339.867	2296.989	2263.234	2235.500
65.0	1674.618	1690.309	1674.618	1674.618	1627.543	1580.469	1533.029	1501.646	1469.898	1485.954
67.5	1263.901	1246.567	1213.177	1179.239	1129.792	1080.346	1047.868	1023.418	1007.544	1024.331
70.0	853.183	802.824	751.735	683.860	632.041	580.223	562.707	545.190	545.190	562.707
72.5	601.936	567.633	542.089	499.211	473.301	438.269	420.571	393.566	393.566	420.571
75.0	350.688	332.442	332.442	314.561	314.561	296.315	278.434	241.942	241.942	278.434
77.5	259.641	241.212	241.212	213.661	213.661	204.538	204.903	158.740	168.046	176.986
80.0	168.593	149.982	149.982	112.760	112.760	112.760	131.371	75.538	94.149	75.538
82.5	122.066	103.273	93.967	56.380	75.356	56.380	84.662	47.257	56.563	37.769
85.0	75.538	56.563	37.952	0.000	37.952	0.000	37.952	18.976	18.976	0.000
87.5	37.769	28.282	18.976	9.488	28.464	0.000	18.976	18.976	28.464	0.000
90.0	0.000	0.000	0.000	18.976	18.976	0.000	0.000	18.976	37.952	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	16281.636	16281.636	16281.636	16281.636	16281.636	16281.636	16281.636	16281.636	16281.636	16281.636

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : 1379-2330012.IES**

**CANDELA TABULATION - (Cont.)**

2.5	16156.83316130.01216147.89316147.89316156.83316174.71516156.83316165.77416201.53616183.655
5.0	16032.03015978.38716014.14916014.14916032.03016067.79316032.03016049.91116121.43616085.674
7.5	15969.44715942.62515960.50615987.32816005.20916014.15015987.32815996.26816040.97116032.031
10.0	15906.86315906.86315906.86315960.50615978.38715960.50615942.62515942.62515960.50615978.387
12.5	15790.81915817.64015826.58115853.40215853.40215844.46215844.46215853.40215853.40215880.224
15.0	15674.77415728.41715746.29815746.29815728.41715728.41715746.29815764.17915746.29815782.060
17.5	15532.09015558.91215594.67415603.61515594.67415603.61515603.61515603.61415603.61515657.075
20.0	15389.40615389.40615443.04915460.93115460.93115478.81215460.93115443.04915460.93115532.090
22.5	15175.74615193.62715220.44815247.08815247.08815264.96915273.91015264.96915264.96915336.128
25.0	14962.08514997.84714997.84715033.24415033.24415051.12515086.88815086.88815069.00615140.166
27.5	14668.87214686.75314686.75314695.51114704.45114713.39214757.91314748.97214748.97214819.949
30.0	14375.65814375.65814375.65814357.77714375.65814375.65814428.93714411.05614428.93714499.731
32.5	13879.36713897.06613879.36713870.42713879.36713906.00613950.34513941.40413950.34514003.440
35.0	13383.07613418.47313383.07613383.07613383.07613436.35413471.75213471.75213471.75213507.149
37.5	12748.29812722.02412695.56712695.56712695.56712748.48012774.93712783.69512774.93712810.334
40.0	12113.51912025.57412008.05812008.05812008.05812060.60612078.12212095.63812078.12212113.519
42.5	11255.04511211.07311141.37311150.13111115.09911150.13111158.88911158.88911124.03911115.646
45.0	10396.57110396.57110274.68810292.20410222.13910239.65510239.65510222.13910169.95510117.772
47.5	9355.272 9320.787 9225.361 9199.634 9138.692 9138.874 9087.238 9035.419 8931.964 8862.812
50.0	8313.972 8245.002 8176.033 8107.063 8055.244 8038.093 7934.820 7848.699 7693.973 7607.852
52.5	6943.698 6864.145 6784.776 6728.030 6646.653 6582.975 6433.540 6336.836 6143.063 6037.602
55.0	5573.423 5483.288 5393.518 5348.997 5238.062 5127.856 4932.259 4824.972 4592.153 4467.351
57.5	4261.533 4190.010 4110.092 4070.316 3971.788 3865.413 3717.256 3622.012 3437.727 3343.943
60.0	2949.648 2896.735 2826.670 2791.638 2705.517 2602.974 2502.256 2419.055 2283.304 2220.538
62.5	2217.801 2167.625 2140.438 2115.077 2048.114 1972.940 1914.553 1841.022 1748.879 1668.962
65.0	1485.954 1438.515 1454.206 1438.515 1390.710 1342.906 1326.849 1262.988 1214.454 1117.385
67.5	1006.997 1000.611 1017.215 1026.703 1019.952 1030.352 1022.324 998.969 957.550 883.289
70.0	528.039 562.707 580.223 614.890 649.193 717.798 717.798 734.949 700.646 649.193
72.5	384.991 402.325 429.329 437.539 490.818 507.057 534.243 551.759 543.548 535.703
75.0	241.942 241.942 278.434 260.188 332.442 296.315 350.688 368.569 386.450 422.212
77.5	186.657 186.657 195.597 195.780 222.601 204.538 241.030 259.276 277.522 295.403
80.0	131.371 131.371 112.760 131.371 112.760 112.760 131.371 149.982 168.593 168.593
82.5	75.174 65.686 84.662 65.686 84.662 75.356 65.686 74.991 93.785 93.785
85.0	18.976 0.000 56.563 0.000 56.563 37.952 0.000 0.000 18.976 18.976
87.5	9.488 0.000 28.282 0.000 28.282 18.976 0.000 0.000 9.488 9.488
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	16281.63616281.63616281.63616281.63616281.63616281.63616281.63616281.63616281.63616281.636									
2.5	16201.53616201.53616183.65516183.65516165.77416147.89316156.83316174.71516165.77416156.833									
5.0	16121.43616121.43616085.67416085.67416049.91116014.14916032.03016067.79316049.91116032.030									
7.5	16049.91216076.73316049.91216032.03115996.26815978.38716005.20916023.09016014.14916005.209									
10.0	15978.38716032.03016014.14915978.38715942.62515942.62515978.38715978.38715978.38715978.387									
12.5	15898.10515942.80715907.04515871.28315862.34315862.34315907.04515907.04515924.92715951.566									
15.0	15817.82215853.58415799.94115764.17915782.06015782.06015835.70315835.70315871.46615924.744									
17.5	15683.89715719.65915692.83715683.89715683.89715692.83715728.59915746.48115764.36215826.581									
20.0	15549.97115585.73315585.73315603.61415585.73315603.61415621.49515657.25815657.25815728.417									
22.5	15354.00915380.83115380.83115407.47015389.58915469.87115443.23215478.81215487.75315550.154									
25.0	15158.04715175.92815175.92815211.32515193.44415336.12815264.96915300.36615318.24715371.890									
27.5	14828.88914864.46914864.46914882.16814891.10815006.78814944.56914980.14914997.84715060.249									
30.0	14499.73114553.01014553.01014553.01014588.77214677.44714624.16914659.93114677.44714748.607									
32.5	14012.19814047.77814047.77814056.53614101.05714171.85114154.15214189.73214216.18914278.225									
35.0	13524.66513542.54613542.54613560.06213613.34113666.25413684.13513719.53213754.93013807.843									
37.5	12819.09212801.57612792.81812810.33412836.97412863.43012907.58612942.80013022.17113092.600									

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : 1379-2330012.IES**

**CANDELA TABULATION - (Cont.)**

40.0	12113.51912060.60612043.09012060.60612060.60612060.60612131.03612166.06812289.41112377.357
42.5	11098.13011010.73110984.64010976.06410967.30610958.54811037.37111080.97911194.83411273.656
45.0	10082.7409960.856 9926.189 9891.522 9874.005 9856.489 9943.705 9995.889 10100.25610169.955
47.5	8793.660 8698.416 8638.204 8577.810 8551.900 8543.142 8603.902 8664.478 8785.267 8863.177
50.0	7504.580 7435.975 7350.219 7264.098 7229.795 7229.795 7264.098 7333.067 7470.277 7556.398
52.5	5893.458 5798.397 5705.342 5622.505 5575.795 5585.648 5602.800 5667.025 5775.406 5878.861
55.0	4282.336 4160.818 4060.465 3980.912 3921.795 3941.501 3941.501 4000.983 4080.535 4201.324
57.5	3204.543 3097.074 3015.697 2960.412 2907.498 2925.197 2917.351 2962.601 3018.069 3109.482
60.0	2126.754 2033.334 1970.933 1939.915 1893.205 1908.897 1893.205 1924.223 1955.606 2017.643
62.5	1605.831 1518.067 1478.656 1438.150 1398.191 1406.037 1398.191 1422.093 1454.389 1502.011
65.0	1084.907 1002.800 986.379 936.385 903.177 903.177 903.177 919.963 953.171 986.379
67.5	867.050 808.845 774.543 732.212 697.910 680.394 697.910 706.303 749.181 783.301
70.0	649.193 614.890 562.707 528.039 492.642 457.610 492.642 492.642 545.190 580.223
72.5	535.703 518.551 474.579 439.364 403.602 376.963 394.479 394.479 429.876 465.456
75.0	422.212 422.212 386.450 350.688 314.561 296.315 296.315 296.315 314.561 350.688
77.5	313.831 322.954 295.950 259.641 232.272 223.149 223.149 223.149 241.577 296.315
80.0	205.450 223.696 205.450 168.593 149.982 149.982 149.982 149.982 168.593 241.942
82.5	112.213 111.848 121.701 112.578 93.967 74.991 74.991 93.967 93.785 149.253
85.0	18.976 0.000 37.952 56.563 37.952 0.000 0.000 37.952 18.976 56.563
87.5	9.488 0.000 18.976 28.282 18.976 0.000 0.000 18.976 9.488 28.282
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**

	300	305	310	315	320	325	330	335	340	345
0.0	16281.6361628									

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : 1379-2330012.IES**

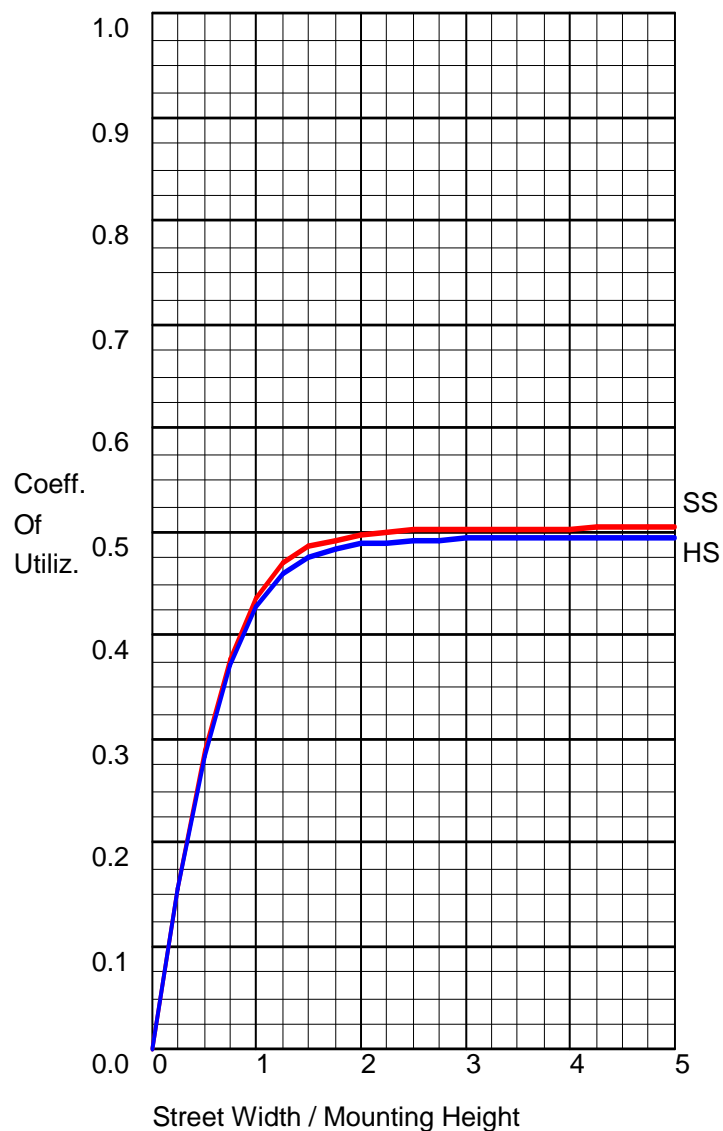
**CANDELA TABULATION - (Cont.)**

<b>77.5</b>	268.581	268.216	249.970	231.724	231.907	204.538	213.843	195.780	213.843	176.986
<b>80.0</b>	168.593	149.982	131.371	112.760	131.371	112.760	131.371	131.371	131.371	75.538
<b>82.5</b>	112.578	103.273	84.662	65.868	75.174	56.380	75.174	65.686	84.662	37.769
<b>85.0</b>	56.563	56.563	37.952	18.976	18.976	0.000	18.976	0.000	37.952	0.000
<b>87.5</b>	28.282	28.282	18.976	9.488	9.488	0.000	9.488	0.000	18.976	0.000
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

	<b>350</b>	<b>355</b>	<b>360</b>
<b>0.0</b>	16281.636	16281.636	16281.636
<b>2.5</b>	16156.833	16192.596	16156.833
<b>5.0</b>	16032.030	16103.555	16032.030
<b>7.5</b>	16049.912	16067.793	16014.149
<b>10.0</b>	16067.793	16032.030	15996.268
<b>12.5</b>	16023.090	15978.387	15969.447
<b>15.0</b>	15978.387	15924.744	15942.625
<b>17.5</b>	15844.462	15808.700	15826.581
<b>20.0</b>	15710.536	15692.655	15710.536
<b>22.5</b>	15505.451	15496.511	15514.392
<b>25.0</b>	15300.366	15300.366	15318.247
<b>27.5</b>	15033.427	15051.126	15051.308
<b>30.0</b>	14766.488	14801.885	14784.369
<b>32.5</b>	14340.444	14366.901	14367.083
<b>35.0</b>	13914.400	13931.916	13949.797
<b>37.5</b>	13295.678	13321.952	13330.893
<b>40.0</b>	12676.956	12711.988	12711.988
<b>42.5</b>	11833.809	11868.841	11886.357
<b>45.0</b>	10990.661	11025.693	11060.725
<b>47.5</b>	9859.774	9894.624	9938.049
<b>50.0</b>	8728.886	8763.554	8815.372
<b>52.5</b>	7334.892	7398.936	7471.919
<b>55.0</b>	5940.898	6034.317	6128.466
<b>57.5</b>	4516.613	4581.386	4655.647
<b>60.0</b>	3092.332	3128.459	3182.832
<b>62.5</b>	2289.143	2315.053	2350.085
<b>65.0</b>	1485.954	1501.646	1517.337
<b>67.5</b>	1033.089	1014.843	1031.264
<b>70.0</b>	580.223	528.039	545.190
<b>72.5</b>	420.206	403.237	393.566
<b>75.0</b>	260.188	278.434	241.942
<b>77.5</b>	186.474	195.597	177.351
<b>80.0</b>	112.760	112.760	112.760
<b>82.5</b>	56.380	56.380	56.380
<b>85.0</b>	0.000	0.000	0.000
<b>87.5</b>	0.000	0.000	0.000
<b>90.0</b>	0.000	0.000	0.000

### COEFFICIENTS OF UTILIZATION

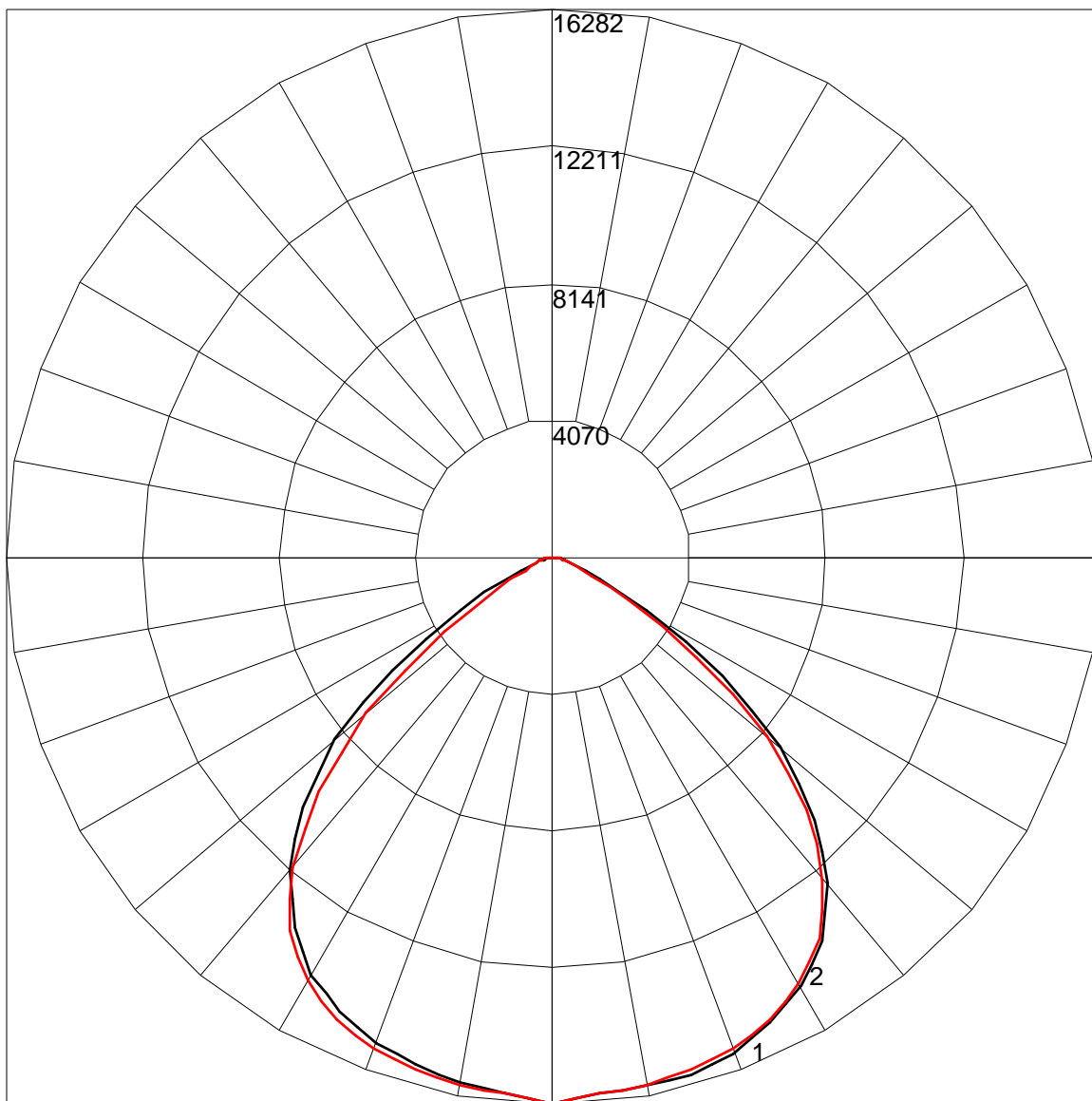


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	18393.3	50.4
Downward House Side	18067.3	49.6
Downward Total	36460.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	36460.6	100.0



POLAR GRAPH



Maximum Candela = 16281.636 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

