

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P298970

Luminaire Tested: **GLNA-AF-10-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-10-LED-E1-SLL-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Left OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

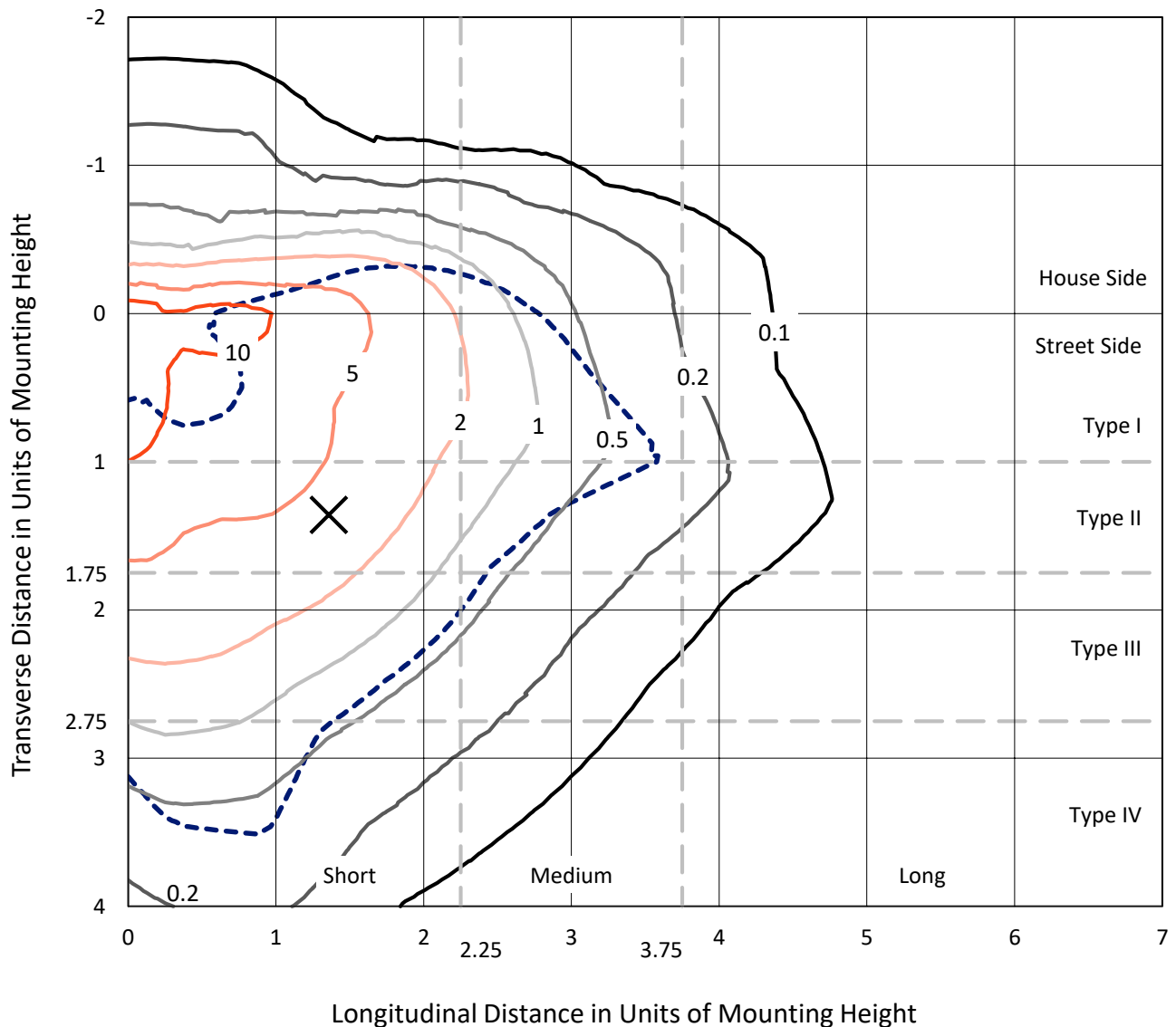
Lumens per Lamp: N/A  
Luminaire Lumens: 40328.2 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

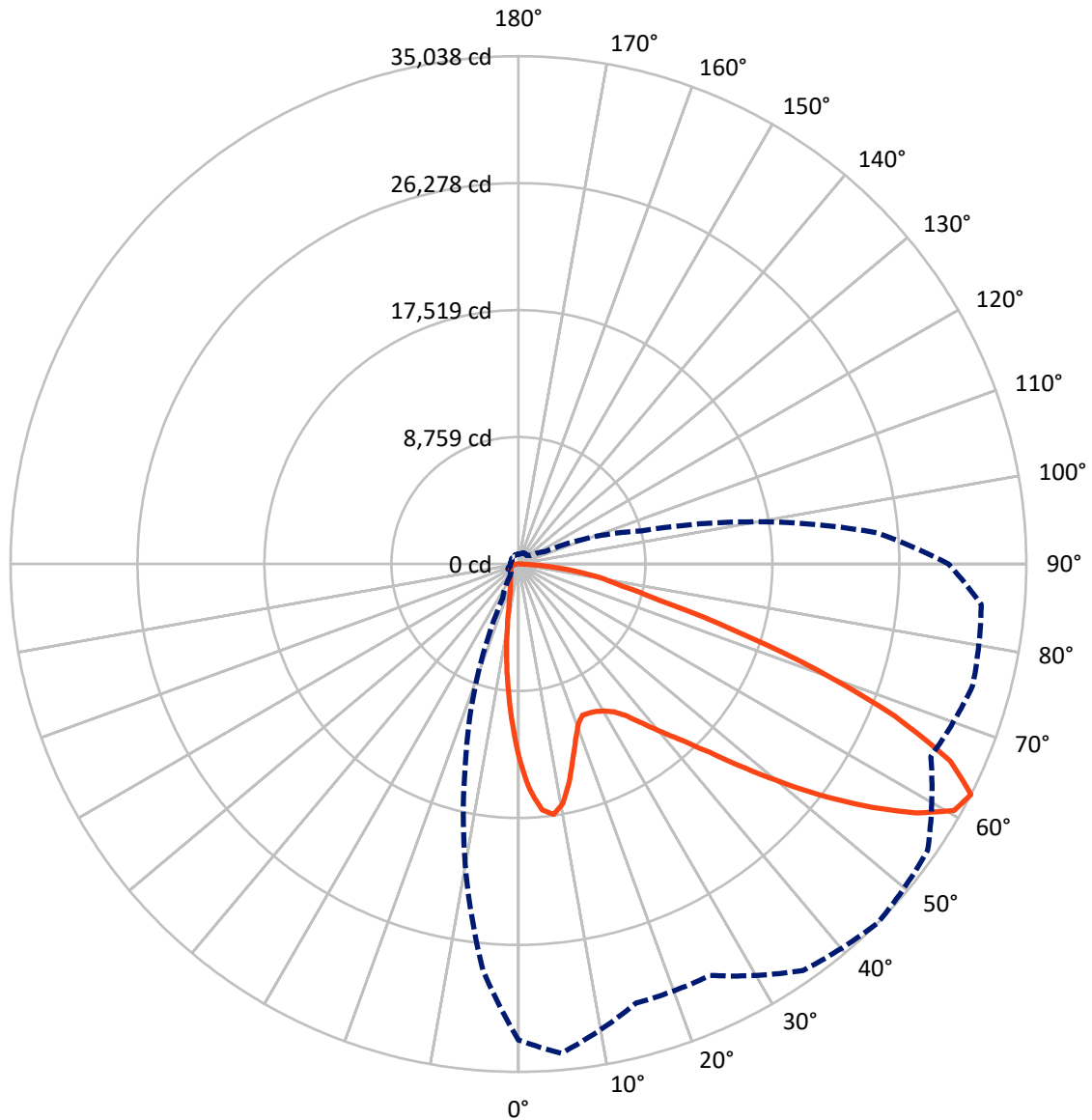
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.8 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P298970  
CATALOG NUMBER: GLNA-AF-10-LED-E1-SLL-7030-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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CATALOG NUMBER: GLNA-AF-10-LED-E1-SLL-7030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6673.7	0.0	6673.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	33654.4	0.0	33654.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	40328.2	0.0	40328.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	991.8	2.5
10°-20°	1818.8	4.5
20°-30°	2651.8	6.6
30°-40°	4084.1	10.1
40°-50°	6010.7	14.9
50°-60°	8816.4	21.9
60°-70°	9855.5	24.4
70°-80°	4825.1	12.0
80°-90°	1273.9	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	40328.2	100.0
0°-180°	40328.2	100.0



REPORT NUMBER: P298970

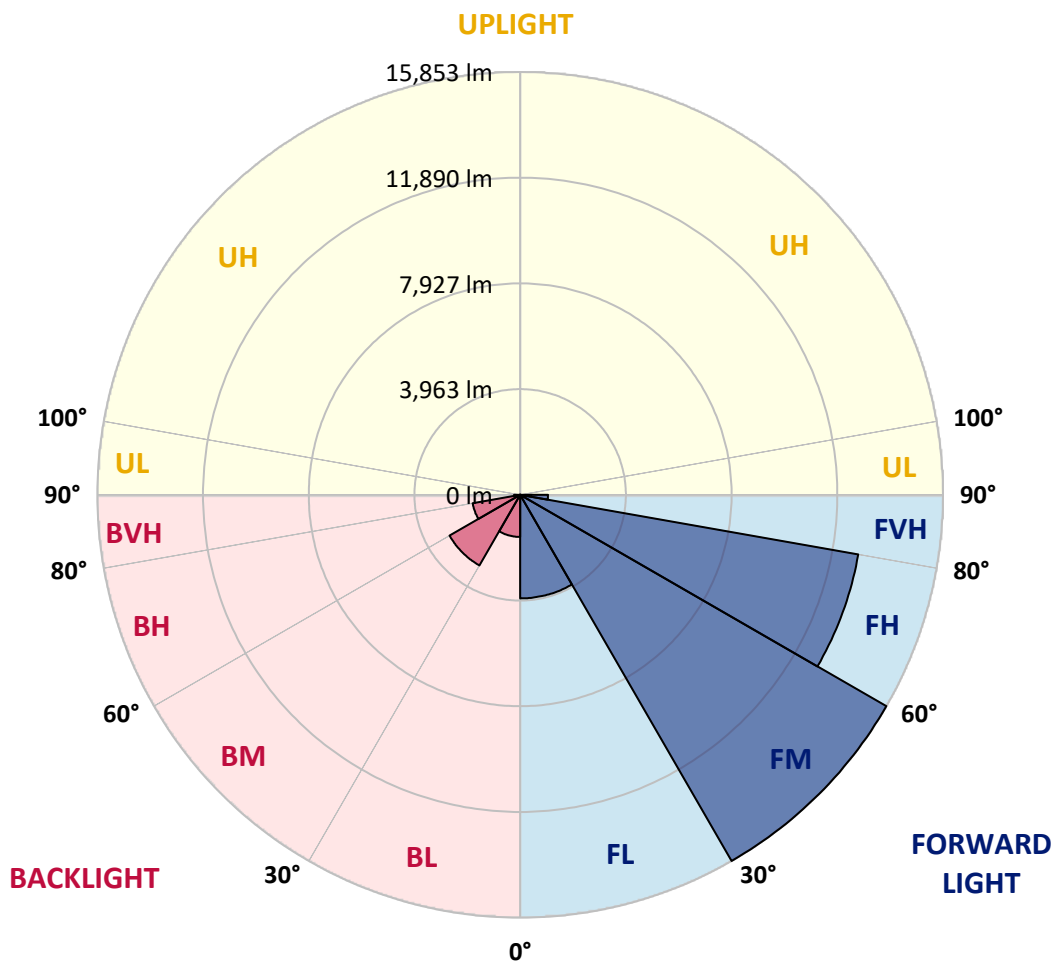
CATALOG NUMBER: GLNA-AF-10-LED-E1-SLL-7030-800

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3883.5	9.6			
FM	(30°-60°)	15853.4	39.3			
FH	(60°-80°)	12871.3	31.9			G5
FVH	(80°-90°)	1046.2	2.6			G5
BL	(0°-30°)	1578.9	3.9	B3/2500		
BM	(30°-60°)	3057.9	7.6	B3/5000		
BH	(60°-80°)	1809.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	227.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





REPORT NUMBER: P298970

CATALOG NUMBER: GLNA-AF-10-LED-E1-SLL-7030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5
2.5°	14156.6	14383.3	14824.4	15154.0	15556.3	15649.2	15778.0	15651.3	15427.5	15130.3	15033.1
5°	13312.4	13796.0	14866.2	15808.9	16646.6	17036.7	17146.1	16823.7	16174.5	15321.0	14800.0
7.5°	11958.0	12645.3	14094.7	15482.9	16717.2	17446.9	17428.9	16681.9	15487.3	14096.9	13261.3
10°	10789.3	11574.4	13237.6	14789.2	16099.0	16806.4	16532.9	15578.6	14152.3	12551.7	11645.7
12.5°	10135.8	10905.1	12592.0	14150.1	15245.4	15489.4	15280.7	14345.1	13001.5	11383.7	10589.9
15°	10022.1	10867.7	12335.1	13603.2	14217.0	14004.7	13755.7	13336.9	12387.6	11006.6	10179.7
17.5°	10512.9	11443.4	12630.2	13221.7	13117.4	12746.8	12676.2	12723.0	12494.9	11425.4	10472.6
20°	11452.8	12569.7	13332.6	13042.5	12281.9	11771.6	11789.6	12501.3	13177.1	12487.7	11398.8
22.5°	12771.2	14046.5	14345.1	13137.5	11929.2	11324.0	11470.8	12623.7	14266.0	14040.0	12649.6
25°	14478.3	15640.5	15425.4	13483.0	11964.5	11379.4	11496.7	13044.7	15551.3	15591.6	14197.6
27.5°	16132.1	17210.1	16331.4	13942.1	12111.3	11510.4	11665.8	13706.8	16779.8	17276.3	15966.6
30°	17422.4	18172.3	16690.5	14361.0	12399.2	11765.1	11958.0	14336.5	17339.0	18413.4	17327.4
32.5°	18491.1	19029.5	17262.7	14879.9	12928.8	12166.0	12505.7	15101.5	18143.5	19495.8	18659.5
35°	19856.4	20009.6	17974.4	15458.5	13747.1	12864.8	13285.8	15850.7	18910.7	20588.3	19972.2
37.5°	21457.6	21260.4	18645.9	16250.1	14805.0	13957.2	14305.6	16673.3	19541.9	21827.5	21313.0
40°	23040.2	22565.2	19489.3	17477.9	16348.0	15245.4	15657.8	17551.3	20132.0	23069.0	22623.5
42.5°	24385.9	23682.8	20319.8	18827.9	17783.7	16666.8	17159.0	18435.7	20694.8	24128.3	23760.6
45°	25381.2	24507.6	21111.5	20124.8	19763.5	18555.2	18788.4	19448.3	21304.3	25013.5	24696.1
47.5°	26270.0	25336.6	22006.7	21433.1	21495.0	21011.4	20636.5	20627.8	22023.3	25736.0	25580.6
50°	27460.4	26487.4	22968.9	22780.4	24093.0	23771.3	22944.4	22004.6	22931.5	26556.5	26538.5
52.5°	29101.2	28310.3	24144.1	24232.7	26519.0	26729.2	25704.4	23659.1	24354.3	28061.3	27955.5
55°	31041.4	30579.4	25745.4	25902.3	29493.4	29644.6	28626.2	25726.7	26447.8	30241.2	29946.1
57.5°	32554.9	32457.7	27500.7	27906.6	31715.0	32393.7	31458.1	28121.7	28806.1	32076.3	31335.8
60°	33158.0	33630.1	29369.6	29928.1	33770.4	34521.0	33701.3	30224.6	30896.8	32837.0	31240.8
62.5°	32832.7	33887.0	31360.2	31313.5	34228.8	35037.7	34461.3	31395.5	32446.9	32051.8	29660.4
65°	31327.1	32962.9	32515.3	30956.5	32659.2	32725.5	32539.1	30872.3	32812.5	29571.2	26604.7
67.5°	28047.6	30402.4	30993.9	27897.9	28424.7	27992.9	27679.9	28008.0	30905.4	25853.3	22359.4
70°	22845.1	26388.1	26670.9	22313.3	22073.7	21782.9	21160.4	22962.4	27143.7	21189.2	17742.0
72.5°	16797.8	20522.0	21392.8	16365.2	15257.0	15316.0	14824.4	17304.4	22069.3	15739.9	13246.2
75°	11492.4	14859.7	16738.0	11419.0	10089.7	10113.5	10050.9	12261.7	17577.9	10949.0	9912.0
77.5°	8395.6	10616.5	12623.7	7676.7	7452.9	7315.4	7282.3	8579.2	13476.5	7950.2	7696.8
80°	6736.8	7843.7	8479.1	5320.5	5721.4	5710.6	5526.3	5899.1	8800.8	5814.9	5756.6
82.5°	4673.5	6027.9	6869.9	4169.8	3861.7	3797.0	3842.3	4393.6	6220.8	3974.7	3779.7
85°	2465.6	4003.5	6803.7	3695.5	2292.1	1828.7	2274.9	3597.6	5389.6	2106.5	1843.8
87.5°	315.2	1157.2	4504.4	1474.6	904.6	487.2	1080.2	2025.9	3460.9	429.6	374.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P298970

CATALOG NUMBER: GLNA-AF-10-LED-E1-SLL-7030-800

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5
2.5°	14782.7	14487.6	14101.9	13744.2	13374.3	13005.8	12525.1	12223.6	12015.6	11975.3	11887.5
5°	14423.6	13443.4	12702.9	12062.4	11481.6	10660.4	10206.3	9829.2	9627.7	9608.3	9559.3
7.5°	12766.9	11414.7	10415.0	9508.3	8685.7	8022.9	7291.0	6950.6	6810.2	6843.3	6876.4
10°	11044.0	9532.7	8384.1	7457.2	6732.5	6174.0	5586.8	5190.2	4914.6	4859.2	4848.4
12.5°	9785.3	8127.2	7012.4	6357.5	5797.6	5271.6	4649.1	4180.6	3824.3	3702.0	3620.6
15°	9252.8	7439.9	6271.9	5566.6	4947.7	4280.6	3702.0	3211.9	2884.4	2777.9	2718.2
17.5°	9366.5	7249.2	5761.7	4859.2	4068.3	3371.6	2642.6	2223.1	2025.9	1975.5	1975.5
20°	9960.9	7214.0	5339.9	4207.9	3220.5	2413.8	1815.7	1576.1	1512.0	1505.5	1522.8
22.5°	10794.3	7338.5	5026.2	3643.0	2503.0	1762.5	1414.1	1325.6	1296.8	1304.0	1323.5
25°	12035.7	7757.3	4798.0	3139.2	1964.0	1442.9	1260.9	1208.3	1194.6	1212.6	1237.1
27.5°	13507.4	8176.1	4655.5	2759.9	1658.1	1319.2	1199.0	1144.3	1152.9	1175.2	1196.8
30°	14800.0	8520.1	4431.7	2490.1	1563.1	1325.6	1199.0	1124.1	1115.5	1119.8	1126.3
32.5°	15960.1	8752.6	4169.8	2232.4	1347.9	1177.4	1119.8	1109.0	1059.4	1041.4	1044.2
35°	16959.7	8752.6	4012.9	2082.0	1208.3	1044.2	951.4	896.0	870.8	873.0	898.1
37.5°	17924.0	8577.0	3935.1	1997.1	1132.8	993.1	911.1	862.2	829.1	822.6	826.9
40°	18774.7	8322.2	3846.6	1961.8	1075.2	962.2	885.2	844.2	808.9	798.1	800.3
42.5°	19457.7	8115.7	3748.7	1915.8	1039.2	939.9	866.5	831.2	791.6	780.1	778.0
45°	20196.0	8047.3	3620.6	1822.2	1057.2	942.0	862.2	824.7	784.4	771.5	767.2
47.5°	21169.0	8262.5	3487.5	1711.4	1095.3	953.6	868.6	824.7	782.3	771.5	767.2
50°	22394.6	8767.7	3318.4	1549.4	1057.2	984.5	866.5	817.5	782.3	771.5	762.8
52.5°	23969.3	9450.7	3097.5	1363.8	1034.9	1059.4	862.2	804.6	771.5	756.4	740.5
55°	25882.1	10009.1	2832.6	1210.5	984.5	1039.2	855.7	789.5	754.2	731.9	718.2
57.5°	27283.3	10210.6	2494.4	1111.2	913.3	1006.1	846.3	769.3	731.9	713.9	696.6
60°	27006.3	9820.6	2207.9	1048.6	870.8	908.9	839.9	751.3	711.8	698.8	682.2
62.5°	24787.5	8800.8	2023.7	1019.8	844.2	829.1	846.3	734.1	694.5	680.1	675.8
65°	21459.8	7295.3	1951.0	1013.3	822.6	782.3	787.3	713.9	673.6	662.8	658.5
67.5°	17701.7	5888.3	1887.0	1034.9	793.8	749.2	727.6	687.3	653.5	642.7	634.0
70°	13959.4	4897.3	1857.5	1021.9	758.5	716.1	692.3	658.5	629.7	618.2	611.7
72.5°	11241.2	4136.7	1841.6	1008.3	711.8	671.5	649.1	620.4	589.4	585.1	578.6
75°	9513.3	3252.2	1687.6	966.5	658.5	618.2	603.1	576.5	545.5	545.5	541.2
77.5°	7338.5	2351.9	1403.4	855.7	603.1	558.5	545.5	525.4	490.1	496.6	494.4
80°	5420.5	1534.3	1097.5	709.6	534.7	492.3	485.1	465.6	427.5	436.8	436.8
82.5°	3713.5	1006.1	789.5	580.8	456.3	416.7	416.7	396.5	354.8	359.1	372.8
85°	1864.7	692.3	589.4	449.8	354.8	334.6	334.6	319.5	277.1	279.2	297.2
87.5°	567.8	416.7	390.1	321.7	254.8	250.4	238.9	228.1	201.5	199.3	210.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P298970

CATALOG NUMBER: GLNA-AF-10-LED-E1-SLL-7030-800

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5
2.5°	11751.5	11624.8	11472.9	11135.4	11022.4	11015.2	11118.1	11010.9	11215.3	11128.9	11223.9
5°	9476.6	9353.5	9182.2	8752.6	8490.6	8312.9	8229.4	7981.1	8160.3	8029.3	8138.7
7.5°	6970.0	6998.8	6885.8	6633.2	6063.2	5777.5	5609.1	5458.0	5588.9	5575.3	5784.0
10°	4899.5	4976.5	4897.3	4642.6	4180.6	4023.7	4054.6	4114.3	4285.6	4373.4	4695.1
12.5°	3527.1	3522.8	3471.7	3243.5	2939.8	2957.1	3083.8	3187.4	3345.0	3438.6	3766.0
15°	2633.3	2593.7	2571.4	2385.0	2212.3	2250.4	2312.3	2323.1	2423.1	2478.5	2744.8
17.5°	1990.6	2010.8	2034.5	1902.1	1771.1	1746.6	1698.4	1638.0	1667.5	1678.3	1810.7
20°	1580.4	1660.3	1720.7	1627.2	1494.8	1422.8	1360.9	1321.3	1321.3	1319.2	1356.6
22.5°	1381.0	1438.6	1503.4	1438.6	1319.2	1256.5	1221.3	1190.3	1186.0	1186.0	1221.3
25°	1273.1	1314.8	1376.7	1332.8	1243.6	1196.8	1163.7	1124.1	1109.0	1104.0	1128.4
27.5°	1219.1	1237.1	1268.1	1227.8	1152.9	1130.6	1122.0	1086.7	1065.8	1055.0	1080.2
30°	1128.4	1124.1	1126.3	1086.7	1026.2	1024.1	1039.2	1046.4	1039.2	1037.0	1075.2
32.5°	1044.2	1034.9	1032.7	997.5	942.0	929.1	942.0	955.7	970.8	993.1	1037.0
35°	937.7	960.0	973.0	942.0	875.1	835.5	820.4	796.0	782.3	782.3	833.4
37.5°	853.5	904.6	924.8	896.0	822.6	767.2	740.5	736.2	738.4	747.0	796.0
40°	824.7	862.2	879.4	851.4	778.0	727.6	711.8	707.4	711.8	725.4	773.6
42.5°	806.7	833.4	831.2	796.0	736.2	701.0	692.3	687.3	692.3	705.3	758.5
45°	791.6	808.9	791.6	749.2	694.5	675.8	677.9	675.8	680.1	694.5	744.9
47.5°	778.0	784.4	762.8	720.4	662.8	658.5	667.1	673.6	677.9	690.2	742.7
50°	758.5	758.5	738.4	694.5	636.2	638.3	649.1	665.0	667.1	680.1	723.3
52.5°	734.1	731.9	718.2	675.8	613.9	620.4	620.4	638.3	642.7	658.5	703.1
55°	713.9	709.6	703.1	662.8	594.4	605.2	598.8	605.2	616.0	631.9	680.1
57.5°	696.6	687.3	687.3	651.3	578.6	582.9	567.8	576.5	589.4	603.1	653.5
60°	677.9	669.3	673.6	636.2	554.1	549.8	543.3	560.6	565.7	580.8	631.9
62.5°	658.5	651.3	653.5	618.2	536.9	525.4	525.4	541.2	543.3	565.7	613.9
65°	642.7	634.0	631.9	600.9	516.7	503.8	510.2	516.7	521.0	543.3	589.4
67.5°	627.6	609.6	609.6	585.1	494.4	480.7	494.4	492.3	499.4	518.9	556.3
70°	607.4	582.9	585.1	574.3	472.1	456.3	467.8	465.6	469.9	482.9	521.0
72.5°	576.5	556.3	560.6	556.3	449.8	427.5	431.8	431.8	431.8	443.3	482.9
75°	536.9	521.0	534.7	545.5	423.2	392.2	396.5	396.5	390.1	396.5	445.5
77.5°	487.2	478.6	523.2	508.1	392.2	354.8	354.8	350.5	337.5	346.2	398.7
80°	434.7	427.5	482.9	425.3	357.0	308.7	303.7	292.2	279.2	285.7	339.7
82.5°	379.3	372.8	405.9	326.0	308.7	254.8	244.0	223.8	210.9	217.3	265.6
85°	310.9	310.9	313.1	246.1	234.6	195.0	182.1	155.4	139.6	143.9	190.7
87.5°	221.7	228.1	210.9	168.4	139.6	108.7	100.0	84.2	70.5	82.0	100.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P298970

CATALOG NUMBER: GLNA-AF-10-LED-E1-SLL-7030-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5	13625.5
2.5°	11711.9	11955.8	12232.9	12587.0	12891.4	13389.4	13868.7	14156.6
5°	8756.9	9162.8	9667.3	10317.9	10923.1	11831.3	12733.8	13312.4
7.5°	6266.9	6701.5	7247.1	8058.1	8914.5	10073.2	11266.4	11958.0
10°	5185.9	5631.4	6089.8	6637.5	7338.5	8599.3	10009.1	10789.3
12.5°	4289.9	4766.4	5260.8	5837.2	6486.4	7612.6	9237.7	10135.8
15°	3283.1	3815.0	4397.9	5127.6	5940.9	7242.7	9046.9	10022.1
17.5°	2250.4	2844.8	3560.2	4460.5	5455.8	7122.6	9388.8	10512.9
20°	1549.4	1982.0	2747.0	3802.0	4999.5	7107.4	10044.4	11452.8
22.5°	1296.8	1489.7	2048.2	3196.8	4655.5	7298.2	11062.7	12771.2
25°	1199.0	1314.8	1635.8	2671.4	4405.1	7737.1	12463.9	14478.3
27.5°	1142.1	1245.7	1485.4	2328.1	4207.9	8246.7	13827.0	16132.1
30°	1163.7	1270.2	1442.9	2152.5	3939.5	8672.0	15037.5	17422.4
32.5°	1048.6	1095.3	1237.1	1997.1	3746.6	9029.0	16096.8	18491.1
35°	893.8	975.1	1104.0	1924.4	3750.9	9268.6	17251.9	19856.4
37.5°	851.4	933.4	1026.2	1897.8	3802.0	9524.1	18577.5	21457.6
40°	824.7	900.3	980.2	1882.7	3850.9	9756.5	19877.2	23040.2
42.5°	806.7	875.1	975.1	1828.7	3875.4	9965.2	20945.2	24385.9
45°	804.6	875.1	993.1	1775.4	3912.8	10189.1	21841.2	25381.2
47.5°	806.7	904.6	960.0	1711.4	3912.8	10563.3	22891.9	26270.0
50°	798.1	953.6	924.8	1620.7	3822.2	11272.9	24332.7	27460.4
52.5°	793.8	947.1	855.7	1481.1	3664.5	12399.2	26179.4	29101.2
55°	782.3	913.3	806.7	1273.1	3481.0	13627.6	28157.0	31041.4
57.5°	771.5	808.9	780.1	1091.0	3196.8	14492.0	29517.9	32554.9
60°	864.3	707.4	758.5	1001.8	2817.5	14728.7	29465.4	33158.0
62.5°	800.3	662.8	729.7	982.3	2551.9	14063.7	28103.7	32832.7
65°	627.6	634.0	701.0	1039.2	2480.7	12302.0	25691.4	31327.1
67.5°	574.3	605.2	671.5	1113.3	2487.9	9849.4	22087.3	28047.6
70°	541.2	574.3	638.3	1150.7	2505.2	7342.8	17462.0	22845.1
72.5°	503.8	532.6	600.9	1157.2	2389.3	5333.5	13459.2	16797.8
75°	458.4	485.1	547.7	1008.3	1979.8	3699.8	10295.6	11492.4
77.5°	408.1	427.5	480.7	778.0	1470.3	2367.7	7727.8	8395.6
80°	348.3	359.1	403.7	570.0	1006.1	1481.1	6114.3	6736.8
82.5°	279.2	283.5	313.1	427.5	653.5	951.4	4094.9	4673.5
85°	197.2	197.2	215.2	310.9	445.5	603.1	2223.1	2465.6
87.5°	92.8	95.0	95.0	170.6	232.5	306.6	512.4	315.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)