

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: P299429

Luminaire Tested: **GLNA-AF-06-LED-E1-SLR-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-06-LED-E1-SLR-7050-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25193.4 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 249  
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

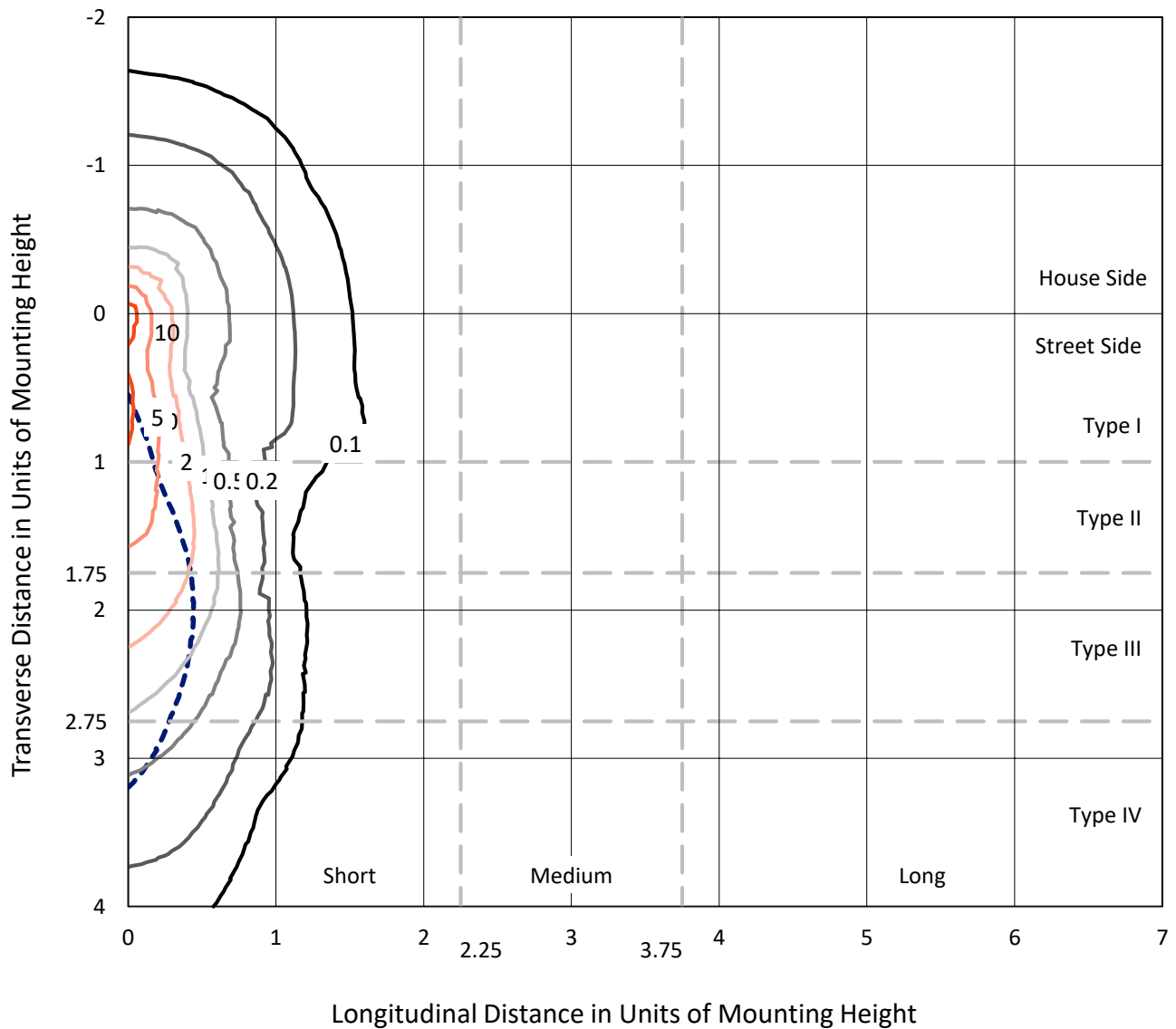


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

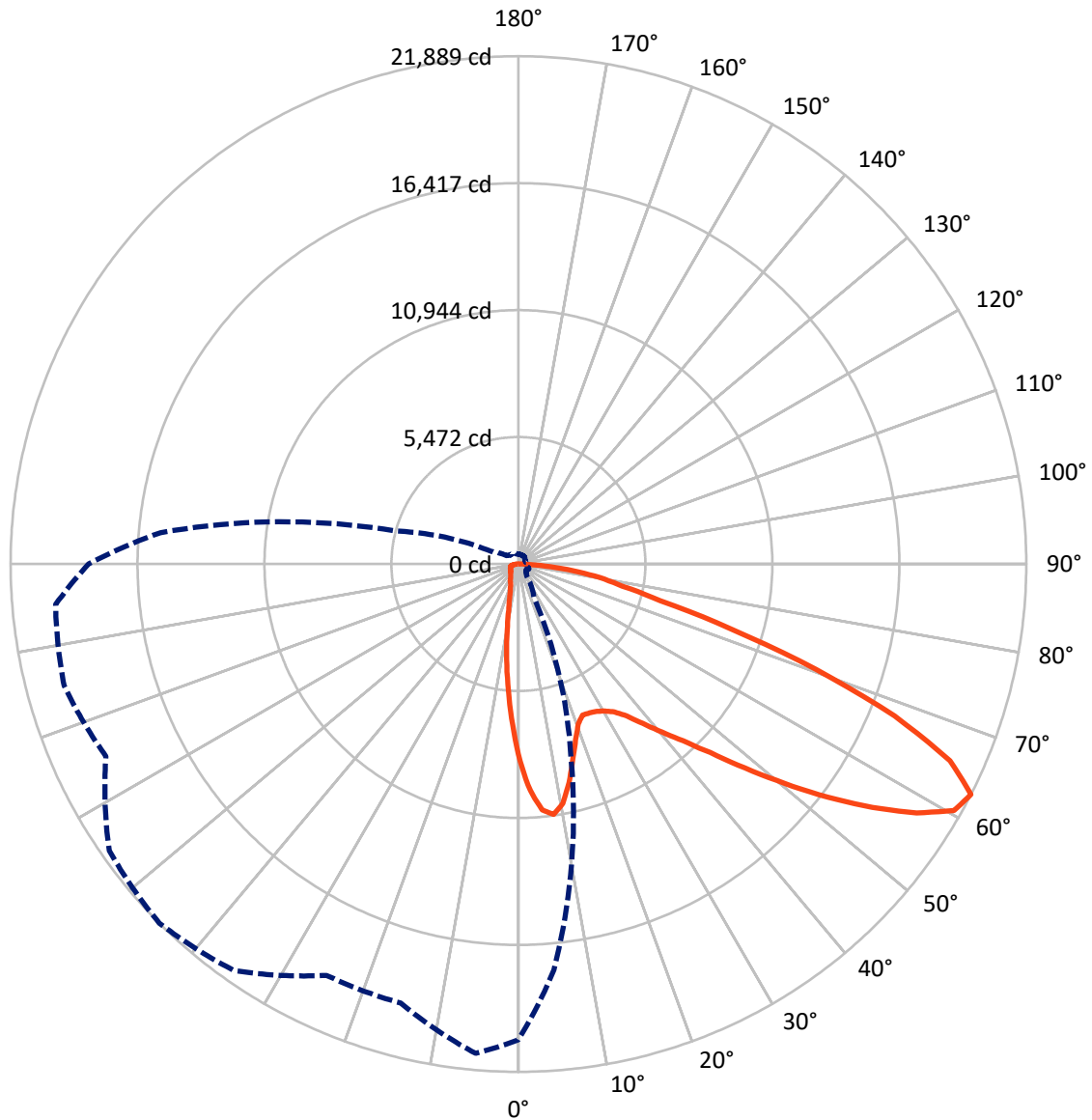


Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4169.2	0.0	4169.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	21024.2	0.0	21024.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	25193.4	0.0	25193.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	619.6	2.5
10°-20°	1136.2	4.5
20°-30°	1656.6	6.6
30°-40°	2551.4	10.1
40°-50°	3754.9	14.9
50°-60°	5507.7	21.9
60°-70°	6156.8	24.4
70°-80°	3014.3	12.0
80°-90°	795.9	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°	25193.4	100.0
0°-180°	25193.4	100.0



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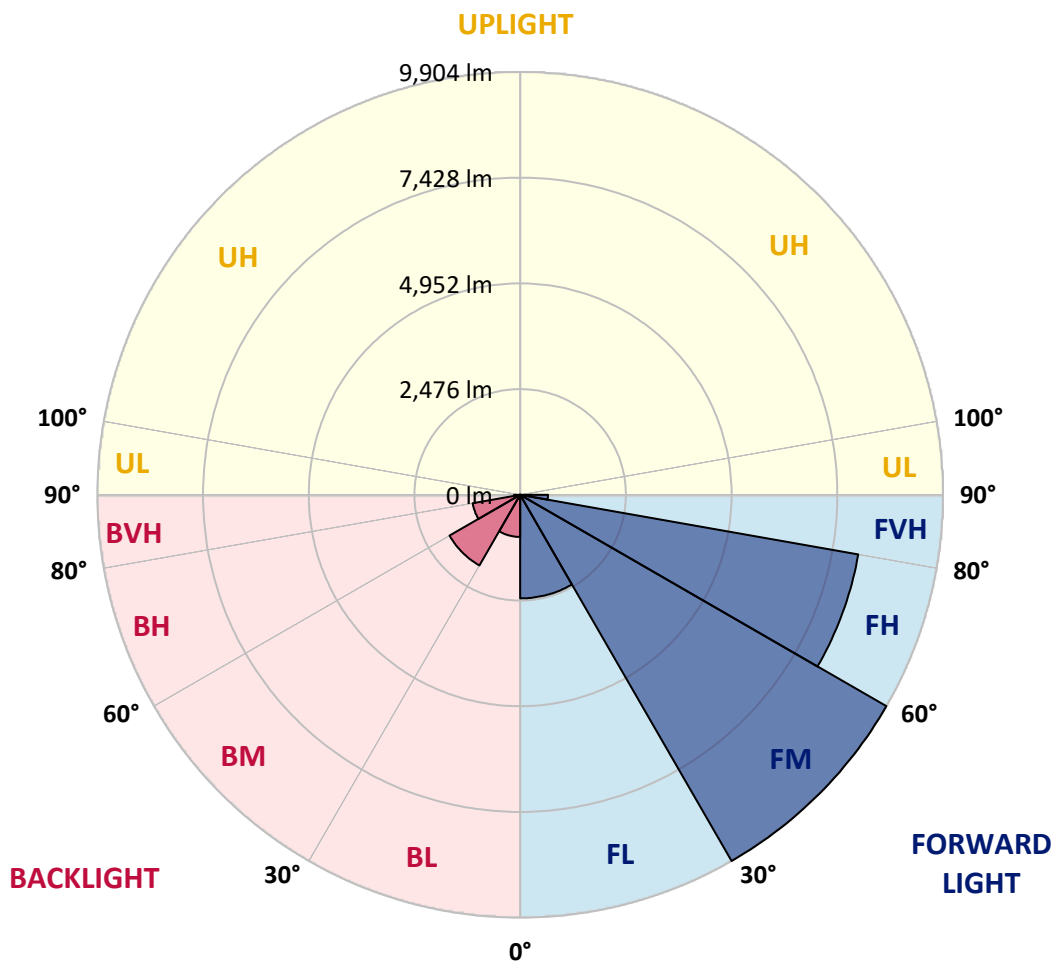
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2426.0	9.6			
FM	(30°-60°)	9903.7	39.3			
FH	(60°-80°)	8040.9	31.9			G4/12000
FVH	(80°-90°)	653.6	2.6			G4/750
BL	(0°-30°)	986.4	3.9	B2/1000		
BM	(30°-60°)	1910.3	7.6	B2/2500		
BH	(60°-80°)	1130.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	142.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8
2.5°	8843.9	8664.0	8364.7	8053.2	7863.7	7641.9	7468.7	7316.5	7011.7	6952.2	7006.3
5°	8316.5	7955.1	7391.1	6823.5	6445.3	6039.5	5723.7	5470.5	5084.0	5016.0	5097.8
7.5°	7470.4	7038.1	6293.1	5568.6	5034.1	4527.2	4186.7	3915.1	3613.2	3483.2	3491.2
10°	6740.5	6252.9	5372.0	4584.2	4146.5	3804.4	3517.6	3239.2	2933.1	2732.3	2677.0
12.5°	6331.7	5771.1	4755.7	4052.2	3646.3	3286.6	2977.6	2679.9	2352.9	2147.9	2090.0
15°	6261.2	5651.6	4524.7	3711.7	3203.2	2747.8	2383.5	2051.0	1714.4	1548.3	1513.5
17.5°	6567.3	5865.0	4449.6	3408.2	2786.4	2224.2	1776.8	1405.8	1131.6	1048.6	1041.4
20°	7154.3	6275.1	4440.0	3123.1	2375.1	1716.0	1238.1	968.1	847.7	823.8	825.5
22.5°	7978.5	6910.7	4559.0	2908.4	1996.9	1279.6	930.8	810.0	763.1	740.8	740.8
25°	9044.7	7786.1	4833.2	2752.0	1668.7	1022.2	821.3	749.2	704.8	689.7	692.6
27.5°	10078.2	8637.6	5151.9	2628.8	1454.0	927.8	778.1	713.2	674.6	659.1	666.2
30°	10884.0	9394.0	5417.7	2461.1	1344.6	901.4	793.7	727.0	671.7	648.2	649.4
32.5°	11551.5	10056.0	5640.7	2340.3	1247.7	772.7	684.2	654.9	648.2	620.5	606.7
35°	12404.7	10777.5	5790.4	2343.2	1202.0	689.7	609.2	558.0	520.7	488.9	488.9
37.5°	13404.6	11605.6	5949.7	2375.1	1185.7	641.0	583.2	531.6	497.2	466.6	461.2
40°	14393.2	12417.2	6095.2	2405.7	1175.6	612.1	562.2	515.3	483.4	452.8	444.4
42.5°	15234.3	13084.7	6225.2	2420.8	1142.5	609.2	547.1	504.0	473.8	440.2	432.3
45°	15856.0	13644.0	6365.2	2444.3	1109.4	620.5	547.1	502.7	465.4	433.5	425.1
47.5°	16411.1	14300.6	6599.2	2444.3	1069.1	599.5	565.2	504.0	464.1	430.6	423.9
50°	17154.9	15200.7	7042.3	2387.7	1012.5	577.3	595.4	498.5	451.5	425.1	416.7
52.5°	18179.6	16354.5	7745.8	2289.2	925.3	534.6	591.2	496.0	439.0	411.3	401.7
55°	19391.6	17589.7	8513.1	2174.3	794.9	504.0	570.6	488.9	425.1	394.5	384.9
57.5°	20337.5	18439.9	9053.1	1996.9	681.3	487.6	505.6	482.1	408.4	376.5	368.5
60°	20714.0	18406.8	9201.5	1760.1	626.0	473.8	441.9	540.0	394.5	362.7	353.0
62.5°	20510.7	17556.5	8786.0	1594.0	613.4	455.7	414.2	499.8	383.6	353.0	339.2
65°	19570.3	16049.7	7685.0	1549.6	649.4	437.7	396.2	392.0	368.5	339.2	325.3
67.5°	17521.7	13797.9	6153.1	1553.8	695.1	419.7	378.2	358.9	347.6	324.1	311.5
70°	14271.6	10909.2	4586.7	1565.1	718.6	398.7	358.9	337.9	325.3	301.9	293.5
72.5°	10493.7	8407.9	3332.3	1493.0	722.8	375.2	332.5	314.4	301.9	277.1	270.0
75°	7179.4	6431.5	2311.4	1236.8	630.1	342.1	303.1	286.8	278.4	247.8	243.6
77.5°	5244.5	4827.8	1479.2	918.2	485.9	300.6	267.5	254.9	249.5	215.9	210.5
80°	4209.0	3819.5	925.3	628.9	356.0	252.0	224.3	217.6	211.7	178.6	174.4
82.5°	2919.3	2557.9	594.1	408.4	267.5	195.4	177.3	174.4	166.0	135.8	131.6
85°	1539.9	1389.0	376.5	278.4	193.7	134.2	123.3	123.3	119.1	90.1	87.2
87.5°	196.6	319.9	191.2	145.5	106.5	59.5	59.5	58.3	62.5	51.1	44.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8
2.5°	6878.8	6945.5	6881.7	6885.9	6956.4	7166.8	7262.4	7341.3	7425.9	7481.3	7506.0
5°	4985.8	5141.0	5193.4	5304.1	5467.6	5736.3	5842.8	5920.4	5971.9	6002.1	6014.7
7.5°	3409.8	3503.8	3609.0	3787.6	4143.6	4301.6	4372.1	4354.0	4296.2	4275.2	4254.7
10°	2570.5	2533.2	2513.5	2612.0	2900.0	3059.3	3109.2	3060.6	3028.7	3035.9	3070.2
12.5°	1991.5	1926.5	1847.7	1836.4	2026.3	2168.8	2200.7	2203.2	2261.5	2312.6	2388.9
15°	1451.5	1444.4	1405.8	1382.3	1490.1	1606.6	1620.4	1645.2	1698.0	1735.3	1801.6
17.5°	1023.4	1060.7	1091.3	1106.4	1188.2	1271.2	1256.1	1243.5	1233.9	1233.9	1265.7
20°	825.5	850.3	889.3	933.3	1016.7	1074.6	1037.3	987.4	951.3	940.4	944.6
22.5°	743.8	763.1	785.3	823.8	898.9	939.1	898.9	862.8	826.8	814.2	810.0
25°	702.3	727.0	748.0	776.9	832.2	859.9	821.3	794.9	772.7	757.6	746.3
27.5°	678.8	700.6	706.5	720.3	767.2	792.0	772.7	761.8	748.0	734.1	720.3
30°	653.6	649.4	639.8	641.0	678.8	703.5	702.3	704.8	703.5	699.3	696.8
32.5°	597.0	588.6	580.3	588.6	623.0	645.2	646.9	652.4	652.4	651.1	662.0
35°	497.2	512.3	522.0	547.1	588.6	607.9	599.5	585.7	561.0	545.5	544.2
37.5°	459.9	462.4	479.2	513.6	559.7	577.3	565.2	533.3	516.5	513.6	517.8
40°	441.9	444.4	454.1	485.9	531.6	549.7	538.8	515.3	499.8	498.5	505.6
42.5°	429.3	432.3	437.7	459.9	497.2	519.5	520.7	504.0	485.9	487.6	494.3
45°	422.2	423.9	422.2	433.5	467.9	494.3	505.6	494.3	479.2	482.1	490.1
47.5°	420.9	416.7	411.3	414.2	450.3	476.3	490.1	485.9	479.2	482.1	488.9
50°	415.5	405.8	398.7	397.5	433.5	461.2	473.8	473.8	476.3	482.1	488.9
52.5°	398.7	387.8	387.8	383.6	422.2	448.6	457.0	458.3	462.4	472.1	482.1
55°	378.2	374.0	378.2	371.0	414.2	439.0	443.2	446.1	448.6	457.0	470.8
57.5°	360.1	354.7	364.3	361.4	407.1	429.3	429.3	434.8	434.8	446.1	457.0
60°	350.5	339.2	343.4	346.3	397.5	420.9	418.4	423.9	426.4	436.5	444.4
62.5°	337.9	328.3	328.3	335.0	386.6	408.4	407.1	411.3	422.2	425.1	433.5
65°	322.8	318.6	314.4	322.8	375.2	394.5	396.2	401.7	411.3	414.2	420.9
67.5°	307.3	309.0	300.6	309.0	365.6	380.7	380.7	392.0	396.2	401.7	408.4
70°	291.0	292.2	285.1	295.2	358.9	365.6	364.3	379.4	382.4	386.6	393.3
72.5°	270.0	270.0	267.5	281.3	347.6	350.5	347.6	360.1	361.4	365.6	368.5
75°	247.8	247.8	245.3	264.6	340.9	333.7	325.3	335.0	337.9	340.9	340.9
77.5°	218.9	221.8	221.8	245.3	317.0	327.0	298.9	304.8	309.0	310.3	306.1
80°	182.8	189.9	192.4	223.0	265.8	301.9	267.5	271.3	272.9	272.9	267.5
82.5°	140.0	152.2	159.3	192.4	203.8	253.2	232.7	236.9	232.7	224.3	221.8
85°	96.8	113.6	122.0	146.7	153.9	195.4	193.7	193.7	185.7	174.4	173.2
87.5°	52.8	62.5	67.9	87.2	105.2	131.6	142.5	138.4	131.6	124.5	126.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8
2.5°	7636.4	7824.7	8125.3	8355.0	8586.5	8809.5	9050.6	9234.6	9391.0	9452.2	9637.5
5°	6140.9	6376.1	6660.0	7172.3	7535.4	7935.3	8398.2	9010.3	9245.5	9571.3	10104.2
7.5°	4341.9	4554.8	5011.8	5426.1	5940.1	6506.5	7130.8	7975.6	8284.6	8806.6	9674.9
10°	3242.1	3489.9	3856.8	4206.0	4658.8	5237.8	5955.2	6899.8	7275.0	7841.4	8841.4
12.5°	2612.0	2904.2	3293.3	3621.6	3972.1	4380.4	5077.2	6112.8	6615.9	7111.5	8122.3
15°	2006.6	2312.6	2674.5	3091.2	3477.3	3918.0	4647.9	5780.8	6359.3	6876.3	7738.7
17.5°	1389.0	1650.6	2106.4	2541.1	3035.9	3599.4	4528.9	5851.2	6542.1	7137.9	7805.4
20°	984.8	1134.1	1508.1	2012.5	2628.8	3336.1	4506.6	6222.2	7121.1	7801.2	8231.8
22.5°	828.0	883.4	1101.0	1563.4	2275.3	3139.4	4584.2	6743.0	7902.2	8770.5	8911.8
25°	754.7	788.2	901.4	1227.2	1960.9	2996.9	4845.8	7518.6	8869.0	9740.3	9715.1
27.5°	714.4	749.2	823.8	1036.0	1724.4	2908.4	5107.4	8438.5	9974.2	10792.6	10482.4
30°	702.3	749.2	828.0	976.5	1555.5	2768.4	5322.1	9245.5	10824.5	11503.3	10831.6
32.5°	692.6	699.3	735.4	841.9	1394.5	2604.9	5467.6	9970.0	11656.7	12179.1	11334.3
35°	559.7	594.1	652.4	754.7	1300.5	2506.8	5467.6	10594.7	12476.8	12861.7	11813.5
37.5°	538.8	569.4	620.5	707.7	1247.7	2458.1	5358.2	11197.2	13314.5	13636.0	12208.0
40°	527.8	552.6	601.2	671.7	1225.5	2402.8	5198.8	11728.8	14132.9	14411.2	12576.6
42.5°	519.5	541.7	587.4	649.4	1196.6	2342.0	5070.1	12155.2	14843.5	15073.3	12928.3
45°	515.3	538.8	588.6	660.8	1138.3	2261.5	5027.4	12616.4	15428.0	15625.8	13309.0
47.5°	515.3	542.9	595.4	684.2	1069.1	2178.5	5161.5	13224.7	15980.5	16077.4	13757.6
50°	511.1	541.7	615.1	660.8	968.1	2073.2	5477.2	13990.3	16578.8	16589.7	14325.7
52.5°	502.7	538.8	662.0	646.9	851.5	1934.9	5904.0	14973.9	17463.9	17530.1	15214.6
55°	493.1	534.6	649.4	615.1	756.3	1770.1	6252.9	16168.8	18707.4	18891.5	16522.2
57.5°	480.5	529.1	628.9	570.6	693.9	1558.0	6379.1	17044.2	19575.7	20038.1	17995.5
60°	469.6	524.9	567.7	544.2	654.9	1379.4	6135.0	16871.1	19516.2	20513.2	19301.5
62.5°	458.3	529.1	517.8	527.8	636.9	1264.5	5498.2	15484.6	18528.8	20023.1	20269.6
65°	446.1	491.8	488.9	513.6	633.1	1218.8	4557.8	13405.9	16620.3	18473.5	20498.1
67.5°	429.3	454.1	467.9	496.0	646.9	1178.5	3678.2	11058.4	13968.1	16150.8	19307.0
70°	411.3	432.3	447.4	473.8	638.5	1160.5	3059.3	8720.6	11083.6	13236.9	16957.0
72.5°	387.8	405.8	419.7	444.4	630.1	1150.9	2584.3	7023.0	8274.9	9832.9	13787.0
75°	360.1	376.5	386.6	411.3	603.7	1054.0	2031.7	5942.6	6192.1	6840.2	10980.9
77.5°	328.3	340.9	348.8	376.5	534.6	876.7	1469.5	4584.2	4808.5	4966.1	8418.8
80°	291.0	303.1	307.3	333.7	443.2	685.5	958.4	3385.9	3596.4	3632.5	5498.2
82.5°	247.8	260.4	260.4	285.1	362.7	493.1	628.9	2319.8	2361.3	2483.3	3886.1
85°	199.6	209.2	209.2	221.8	281.3	368.5	432.3	1164.7	1152.1	1315.6	3366.7
87.5°	142.5	149.7	156.4	159.3	200.8	243.6	260.4	354.7	233.9	268.7	2161.7
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: P299429

CATALOG NUMBER: GLNA-AF-06-LED-E1-SLR-7050-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8	8511.8
2.5°	9777.6	9856.4	9775.9	9718.0	9467.3	9261.1	8985.2	8843.9
5°	10510.0	10710.9	10642.9	10399.3	9875.7	9287.0	8618.3	8316.5
7.5°	10421.6	10888.2	10899.1	10443.8	9672.3	8805.3	7899.7	7470.4
10°	9731.9	10328.5	10499.1	10057.2	9238.8	8269.5	7230.6	6740.5
12.5°	8961.7	9546.1	9676.5	9523.9	8840.1	7866.2	6812.6	6331.7
15°	8331.5	8593.6	8748.3	8881.6	8498.0	7705.6	6788.7	6261.2
17.5°	7947.9	7919.0	7963.4	8194.5	8259.4	7889.6	7148.8	6567.3
20°	7809.6	7365.2	7353.8	7672.5	8147.5	8329.0	7852.3	7154.3
22.5°	7885.9	7165.6	7074.2	7452.4	8207.0	8961.7	8774.7	7978.5
25°	8148.8	7182.4	7108.6	7474.6	8422.9	9636.3	9770.5	9044.7
27.5°	8563.0	7287.6	7190.3	7566.0	8709.7	10202.7	10751.1	10078.2
30°	8956.2	7470.4	7349.6	7745.8	8971.3	10427.0	11352.3	10884.0
32.5°	9434.2	7812.5	7600.4	8076.6	9295.4	10784.2	11888.1	11551.5
35°	9902.1	8299.7	8036.8	8587.7	9656.8	11229.1	12500.3	12404.7
37.5°	10416.1	8937.0	8719.4	9248.5	10151.6	11648.3	13281.3	13404.6
40°	10964.5	9781.8	9523.9	10212.4	10918.8	12174.9	14097.2	14393.2
42.5°	11517.1	10719.2	10411.9	11109.6	11761.9	12694.0	14794.9	15234.3
45°	12149.8	11737.2	11591.7	12346.4	12572.4	13188.7	15310.1	15856.0
47.5°	12886.8	12892.3	13126.2	13428.1	13389.5	13748.0	15828.4	16411.1
50°	13746.7	14333.7	14850.6	15051.0	14231.4	14349.2	16547.0	17154.9
52.5°	14779.8	16058.1	16697.9	16566.2	15138.7	15082.9	17685.3	18179.6
55°	16071.9	17883.6	18519.2	18424.8	16181.4	16082.8	19103.6	19391.6
57.5°	17567.4	19652.0	20236.5	19812.6	17433.3	17180.0	20276.7	20337.5
60°	18881.8	21053.6	21565.9	21096.4	18696.5	18347.3	21009.2	20714.0
62.5°	19613.0	21528.6	21888.8	21383.1	19561.9	19590.8	21169.7	20510.7
65°	19286.4	20327.9	20444.0	20402.5	19338.8	20312.3	20592.4	19570.3
67.5°	17497.0	17292.0	17487.4	17757.4	17427.8	19362.3	18992.5	17521.7
70°	14345.0	13218.9	13608.4	13789.5	13939.2	16661.8	16484.5	14271.6
72.5°	10810.6	9261.1	9568.4	9531.1	10223.3	13364.4	12820.2	10493.7
75°	7659.9	6279.3	6317.8	6302.7	7133.7	10455.9	9283.3	7179.4
77.5°	5359.4	4549.4	4570.4	4655.9	4795.9	7885.9	6632.3	5244.5
80°	3685.3	3452.6	3567.5	3574.6	3323.9	5297.4	4899.9	4209.0
82.5°	2744.9	2399.8	2372.2	2412.4	2604.9	4292.0	3765.4	2919.3
85°	2247.7	1420.9	1142.5	1432.2	2308.4	4250.5	2501.3	1539.9
87.5°	1265.7	674.6	304.8	565.2	921.1	2814.1	722.8	196.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)