

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: P299012

Luminaire Tested: **GLNA-AF-07-LED-E1-SLL-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299012  
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-07-LED-E1-SLL-7030-600  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Left OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23499.8 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 226  
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

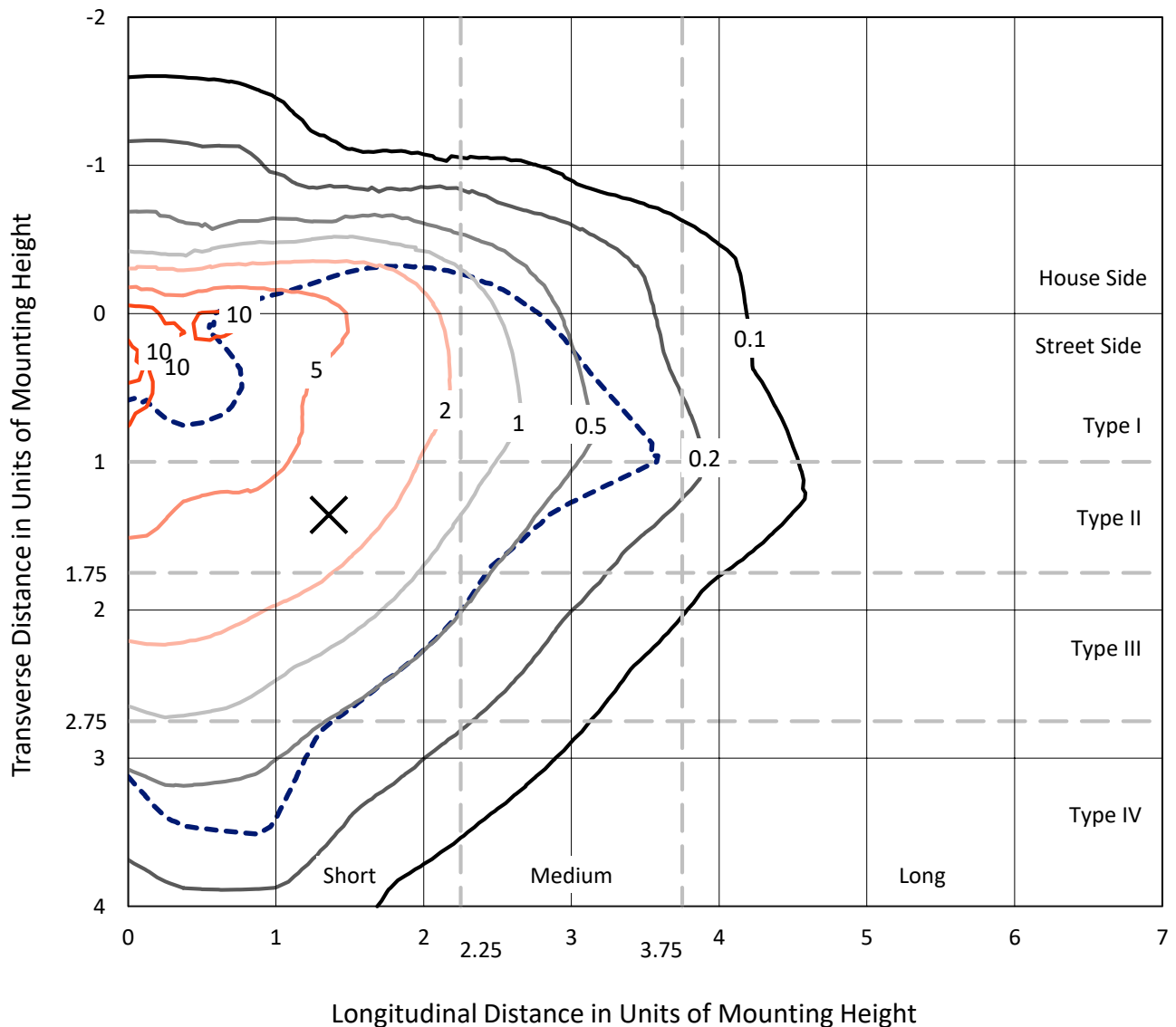


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### Iso-Footcandle Lines of Horizontal Illumination

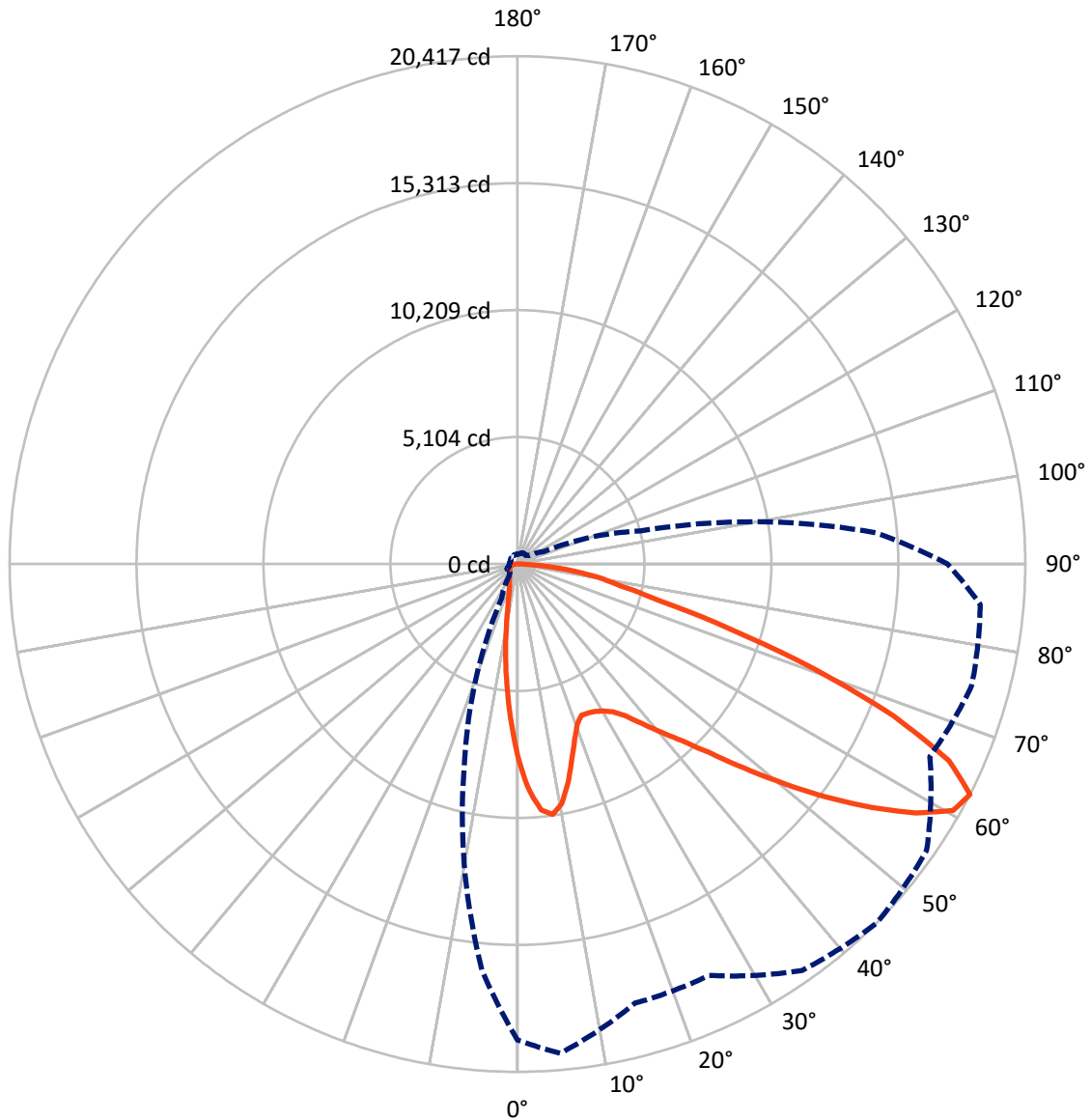
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3888.9	0.0	3888.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	19610.9	0.0	19610.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	23499.8	0.0	23499.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.0	2.5
10°-20°	1059.8	4.5
20°-30°	1545.2	6.6
30°-40°	2379.9	10.1
40°-50°	3502.5	14.9
50°-60°	5137.5	21.9
60°-70°	5742.9	24.4
70°-80°	2811.6	12.0
80°-90°	742.4	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°	23499.8	100.0
0°-180°	23499.8	100.0



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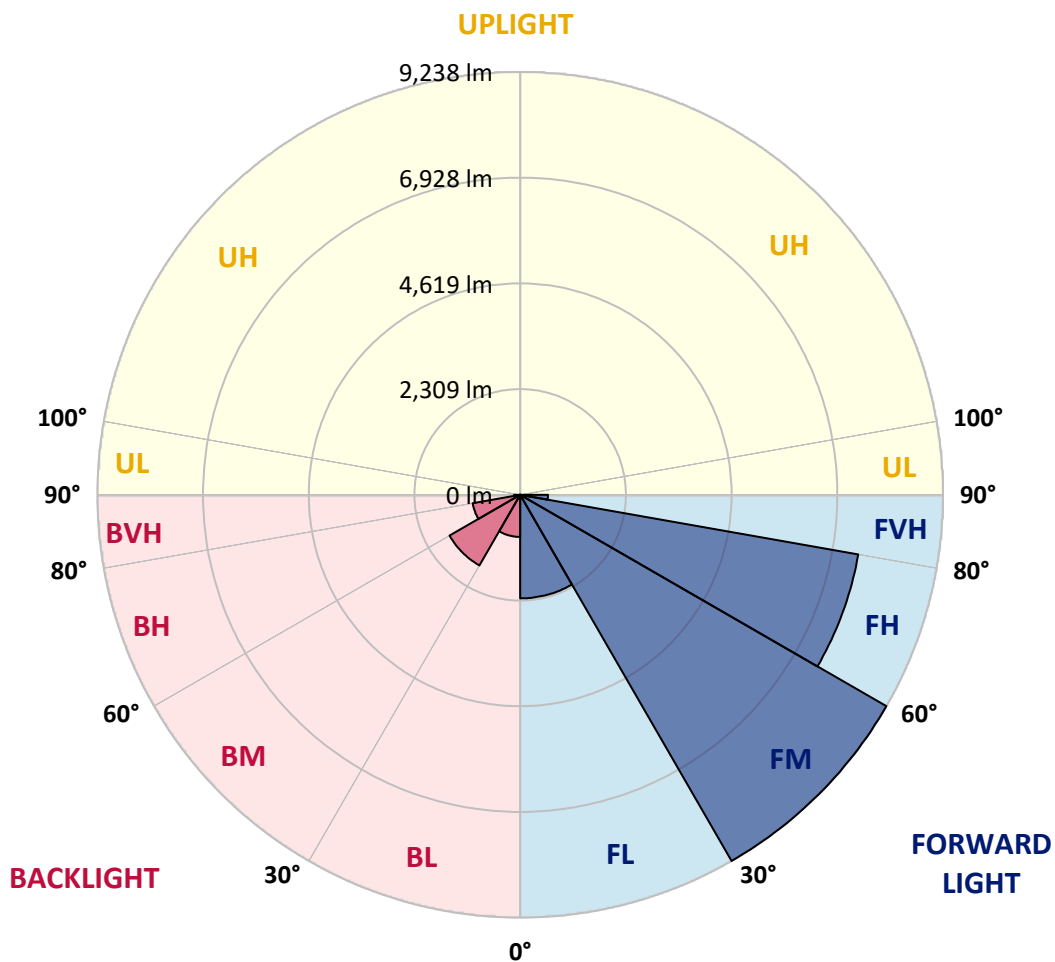
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2263.0	9.6			
FM	(30°-60°)	9238.0	39.3			
FH	(60°-80°)	7500.3	31.9			G4/12000
FVH	(80°-90°)	609.6	2.6			G4/750
BL	(0°-30°)	920.0	3.9	B2/1000		
BM	(30°-60°)	1781.9	7.6	B2/2500		
BH	(60°-80°)	1054.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	132.7	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°	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8
2.5°	8249.2	8381.3	8638.4	8830.5	9064.9	9119.0	9194.1	9120.3	8989.8	8816.6	8760.0
5°	7757.3	8039.1	8662.7	9212.1	9700.2	9927.5	9991.3	9803.4	9425.1	8927.8	8624.2
7.5°	6968.1	7368.6	8213.2	9022.1	9741.3	10166.6	10156.1	9720.8	9024.6	8214.4	7727.6
10°	6287.1	6744.6	7713.7	8617.9	9381.1	9793.3	9634.0	9077.9	8246.7	7314.1	6786.1
12.5°	5906.3	6354.6	7337.6	8245.5	8883.7	9025.9	8904.3	8359.1	7576.2	6633.4	6170.9
15°	5840.0	6332.8	7187.8	7926.8	8284.5	8160.8	8015.7	7771.6	7218.5	6413.7	5931.9
17.5°	6126.0	6668.3	7359.8	7704.5	7643.7	7427.7	7386.6	7413.9	7280.9	6657.8	6102.5
20°	6673.7	7324.6	7769.1	7600.1	7156.8	6859.5	6870.0	7284.7	7678.5	7276.7	6642.3
22.5°	7442.0	8185.1	8359.1	7655.4	6951.3	6598.6	6684.2	7356.0	8313.0	8181.3	7371.1
25°	8436.7	9114.0	8988.6	7856.7	6971.9	6630.9	6699.3	7601.3	9062.0	9085.4	8273.1
27.5°	9400.4	10028.6	9516.6	8124.3	7057.4	6707.3	6797.8	7987.1	9777.8	10067.2	9303.9
30°	10152.3	10589.3	9725.8	8368.3	7225.2	6855.7	6968.1	8354.1	10103.7	10729.8	10096.9
32.5°	10775.1	11088.7	10059.2	8670.7	7533.8	7089.3	7287.2	8799.9	10572.5	11360.5	10873.2
35°	11570.6	11659.9	10474.0	9007.9	8010.6	7496.5	7741.8	9236.4	11019.5	11997.1	11638.1
37.5°	12503.7	12388.8	10865.2	9469.2	8627.1	8133.1	8336.1	9715.7	11387.3	12719.2	12419.4
40°	13425.8	13149.1	11356.7	10184.6	9526.2	8883.7	9124.0	10227.4	11731.2	13442.6	13183.0
42.5°	14210.0	13800.3	11840.6	10971.3	10362.8	9712.0	9998.8	10742.8	12059.1	14059.9	13845.6
45°	14790.0	14280.9	12301.9	11727.0	11516.5	10812.4	10948.2	11332.8	12414.3	14575.7	14390.8
47.5°	15307.9	14764.0	12823.6	12489.4	12525.5	12243.7	12025.2	12020.1	12833.3	14996.8	14906.2
50°	16001.5	15434.6	13384.3	13274.4	14039.4	13851.9	13370.1	12822.4	13362.5	15474.8	15464.3
52.5°	16957.7	16496.8	14069.1	14120.7	15453.0	15575.5	14978.3	13786.5	14191.6	16351.7	16290.1
55°	18088.3	17819.1	15002.2	15093.6	17186.2	17274.3	16680.9	14991.3	15411.5	17622.0	17450.0
57.5°	18970.2	18913.6	16025.0	16261.5	18480.8	18876.3	18331.1	16386.9	16785.8	18691.3	18259.8
60°	19321.6	19596.7	17114.1	17439.5	19678.5	20115.9	19638.2	17612.3	18004.0	19134.6	18204.4
62.5°	19132.1	19746.4	18274.1	18246.8	19945.6	20417.0	20081.1	18294.6	18907.3	18677.1	17283.5
65°	18254.8	19208.0	18947.1	18038.8	19031.0	19069.6	18961.0	17989.7	19120.3	17231.5	15502.9
67.5°	16343.7	17715.9	18060.6	16256.5	16563.5	16311.9	16129.5	16320.7	18009.0	15065.1	13029.1
70°	13312.2	15376.7	15541.5	13002.3	12862.6	12693.2	12330.5	13380.5	15817.0	12347.2	10338.5
72.5°	9788.3	11958.5	12465.9	9536.3	8890.4	8924.8	8638.4	10083.5	12860.1	9171.8	7718.8
75°	6696.8	8659.0	9753.5	6654.0	5879.4	5893.3	5856.8	7145.1	10242.9	6380.2	5775.9
77.5°	4892.3	6186.4	7356.0	4473.3	4342.9	4262.8	4243.5	4999.2	7852.9	4632.7	4485.1
80°	3925.6	4570.6	4940.9	3100.3	3333.9	3327.6	3220.3	3437.5	5128.4	3388.4	3354.5
82.5°	2723.3	3512.6	4003.2	2429.8	2250.3	2212.5	2239.0	2560.2	3625.0	2316.1	2202.5
85°	1436.7	2332.9	3964.6	2153.4	1335.7	1065.6	1325.6	2096.4	3140.6	1227.5	1074.4
87.5°	183.7	674.3	2624.8	859.3	527.1	283.9	629.5	1180.5	2016.7	250.4	218.5
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°	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8
2.5°	8614.1	8442.2	8217.4	8009.0	7793.4	7578.7	7298.6	7122.8	7001.6	6978.2	6927.0
5°	8404.8	7833.7	7402.1	7028.9	6690.5	6212.0	5947.4	5727.6	5610.2	5598.9	5570.4
7.5°	7439.5	6651.5	6069.0	5540.6	5061.3	4675.0	4248.5	4050.2	3968.4	3987.7	4007.0
10°	6435.5	5554.9	4885.6	4345.4	3923.1	3597.7	3255.5	3024.4	2863.8	2831.5	2825.2
12.5°	5702.0	4735.8	4086.3	3704.6	3378.4	3071.8	2709.1	2436.1	2228.5	2157.2	2109.8
15°	5391.7	4335.4	3654.7	3243.8	2883.1	2494.4	2157.2	1871.6	1680.8	1618.7	1583.9
17.5°	5458.0	4224.2	3357.4	2831.5	2370.6	1964.7	1539.9	1295.4	1180.5	1151.1	1151.1
20°	5804.4	4203.7	3111.7	2452.0	1876.6	1406.5	1058.0	918.4	881.1	877.3	887.4
22.5°	6290.0	4276.2	2928.8	2122.8	1458.5	1027.0	824.0	772.5	755.7	759.9	771.2
25°	7013.4	4520.3	2795.9	1829.3	1144.4	840.8	734.7	704.1	696.1	706.6	720.9
27.5°	7871.0	4764.4	2712.8	1608.2	966.2	768.7	698.7	666.8	671.8	684.8	697.4
30°	8624.2	4964.8	2582.4	1451.0	910.9	772.5	698.7	655.0	650.0	652.5	656.3
32.5°	9300.2	5100.3	2429.8	1300.9	785.5	686.1	652.5	646.2	617.3	606.8	608.5
35°	9882.7	5100.3	2338.4	1213.2	704.1	608.5	554.4	522.1	507.4	508.7	523.4
37.5°	10444.6	4997.9	2293.1	1163.7	660.1	578.7	530.9	502.4	483.1	479.3	481.8
40°	10940.3	4849.5	2241.5	1143.2	626.5	560.7	515.8	491.9	471.4	465.1	466.3
42.5°	11338.3	4729.1	2184.4	1116.3	605.6	547.7	504.9	484.4	461.3	454.6	453.3
45°	11768.5	4689.3	2109.8	1061.8	616.0	548.9	502.4	480.6	457.1	449.6	447.0
47.5°	12335.5	4814.7	2032.2	997.2	638.3	555.7	506.2	480.6	455.8	449.6	447.0
50°	13049.7	5109.1	1933.7	902.9	616.0	573.7	504.9	476.4	455.8	449.6	444.5
52.5°	13967.2	5507.0	1804.9	794.7	603.0	617.3	502.4	468.8	449.6	440.7	431.5
55°	15081.9	5832.5	1650.6	705.4	573.7	605.6	498.6	460.0	439.5	426.5	418.5
57.5°	15898.4	5949.9	1453.5	647.5	532.2	586.3	493.2	448.3	426.5	416.0	405.9
60°	15736.9	5722.6	1286.6	611.0	507.4	529.7	489.4	437.8	414.7	407.2	397.6
62.5°	14444.0	5128.4	1179.2	594.2	491.9	483.1	493.2	427.7	404.7	396.3	393.8
65°	12504.9	4251.1	1136.9	590.5	479.3	455.8	458.8	416.0	392.5	386.2	383.7
67.5°	10315.0	3431.2	1099.6	603.0	462.6	436.6	424.0	400.5	380.8	374.5	369.5
70°	8134.3	2853.7	1082.4	595.5	442.0	417.3	403.4	383.7	366.9	360.2	356.5
72.5°	6550.4	2410.5	1073.1	587.5	414.7	391.3	378.3	361.5	343.5	340.9	337.2
75°	5543.5	1895.1	983.4	563.2	383.7	360.2	351.4	335.9	317.9	317.9	315.4
77.5°	4276.2	1370.5	817.8	498.6	351.4	325.4	317.9	306.1	285.6	289.4	288.1
80°	3158.6	894.1	639.5	413.5	311.6	286.8	282.6	271.3	249.1	254.6	254.6
82.5°	2163.9	586.3	460.0	338.4	265.9	242.8	242.8	231.1	206.7	209.3	217.2
85°	1086.6	403.4	343.5	262.1	206.7	195.0	195.0	186.2	161.5	162.7	173.2
87.5°	330.9	242.8	227.3	187.5	148.5	145.9	139.2	132.9	117.4	116.2	122.9
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°	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8
2.5°	6847.7	6773.9	6685.4	6488.8	6422.9	6418.7	6478.7	6416.2	6535.3	6485.0	6540.3
5°	5522.1	5450.4	5350.6	5100.3	4947.6	4844.0	4795.4	4650.7	4755.1	4678.8	4742.6
7.5°	4061.5	4078.3	4012.4	3865.2	3533.1	3366.6	3268.5	3180.4	3256.8	3248.8	3370.4
10°	2855.0	2899.9	2853.7	2705.3	2436.1	2344.6	2362.7	2397.5	2497.3	2548.5	2735.9
12.5°	2055.3	2052.8	2023.0	1890.1	1713.1	1723.2	1797.0	1857.3	1949.2	2003.7	2194.5
15°	1534.4	1511.4	1498.4	1389.8	1289.1	1311.3	1347.4	1353.7	1412.0	1444.3	1599.4
17.5°	1160.0	1171.7	1185.5	1108.4	1032.0	1017.8	989.7	954.5	971.7	977.9	1055.1
20°	920.9	967.5	1002.7	948.2	871.0	829.1	793.0	769.9	769.9	768.7	790.5
22.5°	804.8	838.3	876.0	838.3	768.7	732.2	711.7	693.6	691.1	691.1	711.7
25°	741.8	766.2	802.2	776.7	724.7	697.4	678.1	655.0	646.2	643.3	657.6
27.5°	710.4	720.9	738.9	715.4	671.8	658.8	653.8	633.2	621.1	614.8	629.5
30°	657.6	655.0	656.3	633.2	598.0	596.8	605.6	609.8	605.6	604.3	626.5
32.5°	608.5	603.0	601.8	581.2	548.9	541.4	548.9	556.9	565.7	578.7	604.3
35°	546.4	559.4	567.0	548.9	509.9	486.9	478.1	463.8	455.8	455.8	485.6
37.5°	497.4	527.1	538.9	522.1	479.3	447.0	431.5	429.0	430.3	435.3	463.8
40°	480.6	502.4	512.5	496.1	453.3	424.0	414.7	412.2	414.7	422.7	450.8
42.5°	470.1	485.6	484.4	463.8	429.0	408.5	403.4	400.5	403.4	411.0	442.0
45°	461.3	471.4	461.3	436.6	404.7	393.8	395.0	393.8	396.3	404.7	434.0
47.5°	453.3	457.1	444.5	419.8	386.2	383.7	388.7	392.5	395.0	402.2	432.8
50°	442.0	442.0	430.3	404.7	370.7	372.0	378.3	387.5	388.7	396.3	421.5
52.5°	427.7	426.5	418.5	393.8	357.7	361.5	361.5	372.0	374.5	383.7	409.7
55°	416.0	413.5	409.7	386.2	346.4	352.7	348.9	352.7	359.0	368.2	396.3
57.5°	405.9	400.5	400.5	379.5	337.2	339.7	330.9	335.9	343.5	351.4	380.8
60°	395.0	390.0	392.5	370.7	322.9	320.4	316.6	326.7	329.6	338.4	368.2
62.5°	383.7	379.5	380.8	360.2	312.8	306.1	306.1	315.4	316.6	329.6	357.7
65°	374.5	369.5	368.2	350.2	301.1	293.6	297.3	301.1	303.6	316.6	343.5
67.5°	365.7	355.2	355.2	340.9	288.1	280.1	288.1	286.8	291.0	302.4	324.2
70°	353.9	339.7	340.9	334.6	275.1	265.9	272.6	271.3	273.8	281.4	303.6
72.5°	335.9	324.2	326.7	324.2	262.1	249.1	251.6	251.6	251.6	258.3	281.4
75°	312.8	303.6	311.6	317.9	246.6	228.6	231.1	231.1	227.3	231.1	259.6
77.5°	283.9	278.9	304.9	296.1	228.6	206.7	206.7	204.2	196.7	201.7	232.3
80°	253.3	249.1	281.4	247.8	208.0	179.9	177.0	170.3	162.7	166.5	197.9
82.5°	221.0	217.2	236.5	190.0	179.9	148.5	142.2	130.4	122.9	126.6	154.7
85°	181.2	181.2	182.4	143.4	136.7	113.6	106.1	90.6	81.4	83.9	111.1
87.5°	129.2	132.9	122.9	98.1	81.4	63.3	58.3	49.1	41.1	47.8	58.3
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: P299012

CATALOG NUMBER: GLNA-AF-07-LED-E1-SLL-7030-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8	7939.8
2.5°	6824.7	6966.8	7128.3	7334.6	7512.0	7802.2	8081.5	8249.2
5°	5102.8	5339.3	5633.3	6012.4	6365.1	6894.3	7420.2	7757.3
7.5°	3651.8	3905.1	4223.0	4695.6	5194.6	5869.8	6565.1	6968.1
10°	3021.9	3281.5	3548.6	3867.8	4276.2	5010.9	5832.5	6287.1
12.5°	2499.8	2777.4	3065.5	3401.4	3779.7	4436.0	5382.9	5906.3
15°	1913.1	2223.0	2562.7	2987.9	3461.8	4220.4	5271.8	5840.0
17.5°	1311.3	1657.7	2074.6	2599.2	3179.2	4150.4	5471.0	6126.0
20°	902.9	1154.9	1600.7	2215.5	2913.3	4141.6	5853.0	6673.7
22.5°	755.7	868.1	1193.5	1862.8	2712.8	4252.7	6446.4	7442.0
25°	698.7	766.2	953.2	1556.7	2566.9	4508.5	7262.9	8436.7
27.5°	665.5	725.9	865.6	1356.6	2452.0	4805.5	8057.2	9400.4
30°	678.1	740.2	840.8	1254.3	2295.6	5053.3	8762.5	10152.3
32.5°	611.0	638.3	720.9	1163.7	2183.2	5261.3	9379.8	10775.1
35°	520.8	568.2	643.3	1121.4	2185.7	5400.9	10052.9	11570.6
37.5°	496.1	543.9	598.0	1105.9	2215.5	5549.8	10825.4	12503.7
40°	480.6	524.6	571.2	1097.0	2244.0	5685.3	11582.7	13425.8
42.5°	470.1	509.9	568.2	1065.6	2258.3	5806.9	12205.1	14210.0
45°	468.8	509.9	578.7	1034.6	2280.1	5937.3	12727.2	14790.0
47.5°	470.1	527.1	559.4	997.2	2280.1	6155.4	13339.4	15307.9
50°	465.1	555.7	538.9	944.4	2227.2	6568.9	14179.0	16001.5
52.5°	462.6	551.9	498.6	863.0	2135.4	7225.2	15255.1	16957.7
55°	455.8	532.2	470.1	741.8	2028.4	7941.0	16407.5	18088.3
57.5°	449.6	471.4	454.6	635.8	1862.8	8444.7	17200.5	18970.2
60°	503.7	412.2	442.0	583.8	1641.8	8582.6	17169.9	19321.6
62.5°	466.3	386.2	425.2	572.4	1487.1	8195.1	16376.5	19132.1
65°	365.7	369.5	408.5	605.6	1445.5	7168.6	14970.8	18254.8
67.5°	334.6	352.7	391.3	648.8	1449.7	5739.4	12870.6	16343.7
70°	315.4	334.6	372.0	670.6	1459.8	4278.7	10175.4	13312.2
72.5°	293.6	310.3	350.2	674.3	1392.3	3107.9	7842.9	9788.3
75°	267.1	282.6	319.1	587.5	1153.7	2155.9	5999.4	6696.8
77.5°	237.8	249.1	280.1	453.3	856.8	1379.7	4503.1	4892.3
80°	203.0	209.3	235.3	332.1	586.3	863.0	3562.9	3925.6
82.5°	162.7	165.2	182.4	249.1	380.8	554.4	2386.2	2723.3
85°	114.9	114.9	125.4	181.2	259.6	351.4	1295.4	1436.7
87.5°	54.1	55.4	55.4	99.4	135.5	178.6	298.6	183.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)