

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: P299492

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299492
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-07-LED-E1-SLR-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right 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

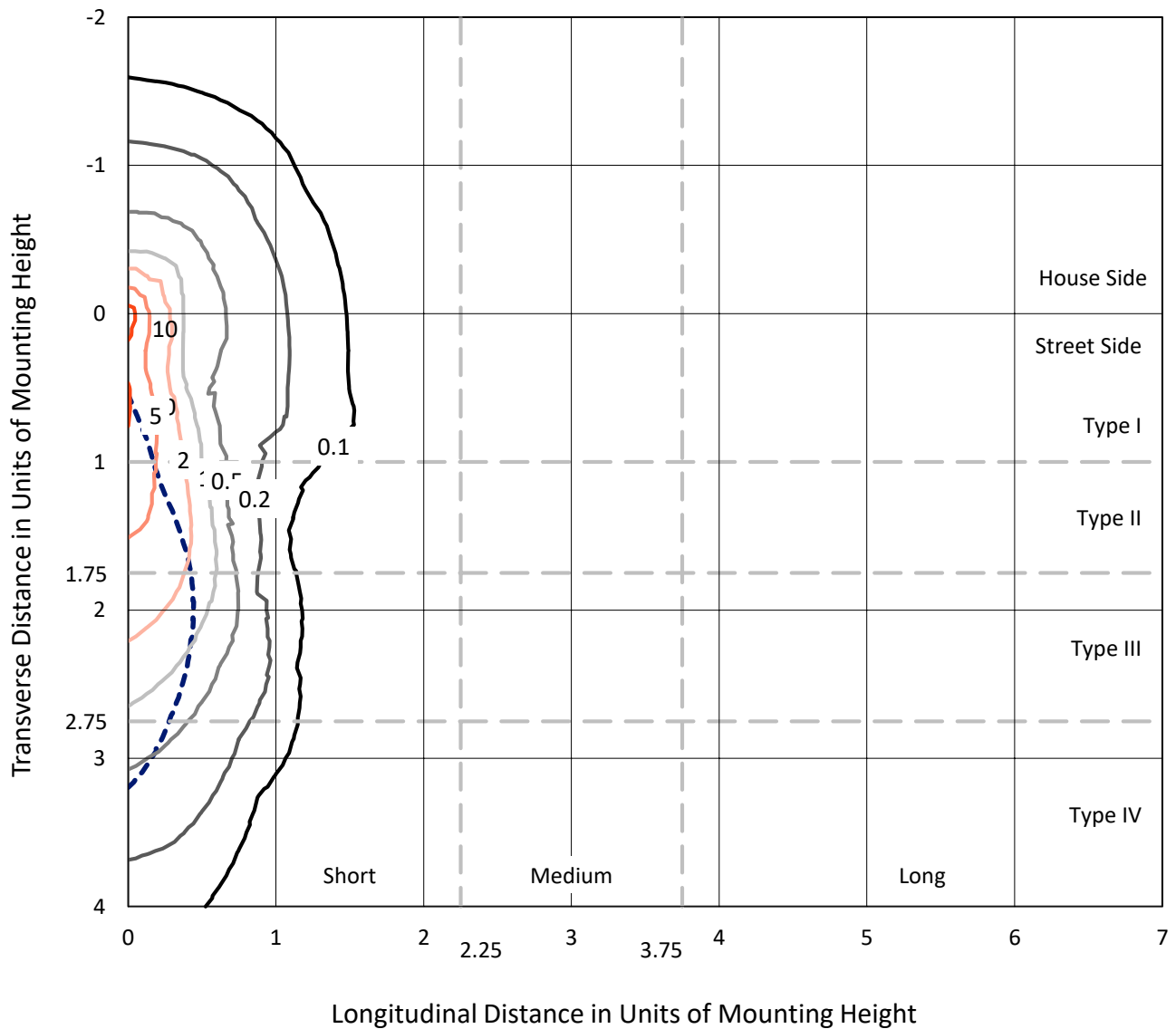


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Iso-Footcandle Lines of Horizontal Illumination

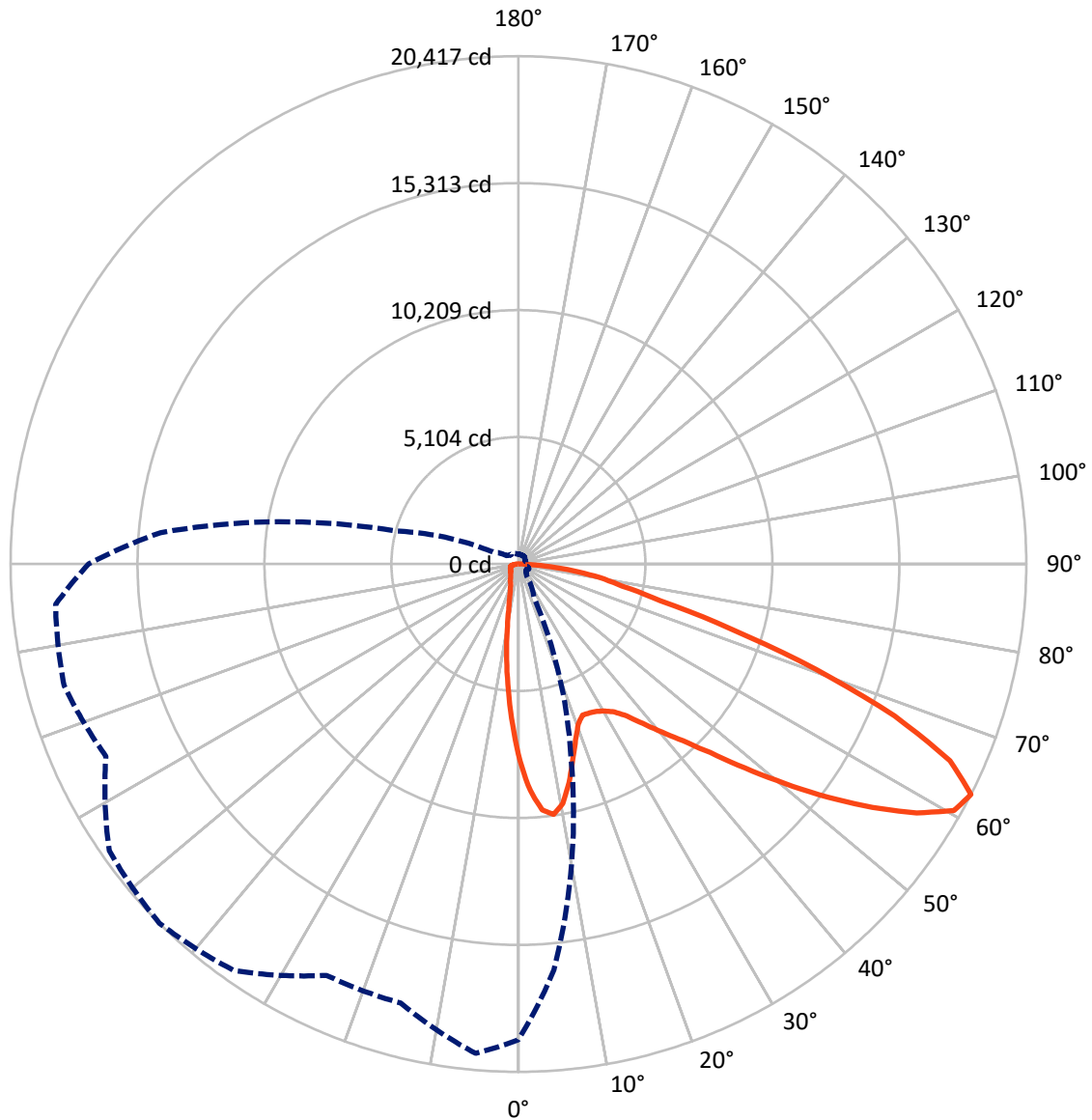
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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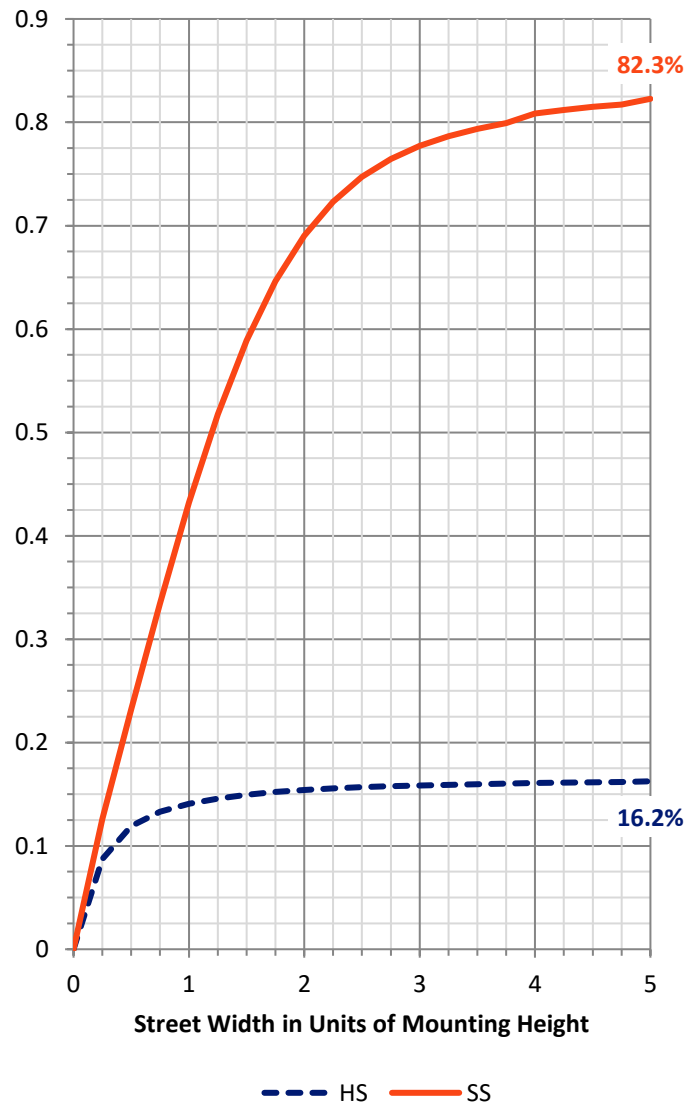
FLUX DISTRIBUTION:

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

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°	2811.7	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

Coefficient of Utilization



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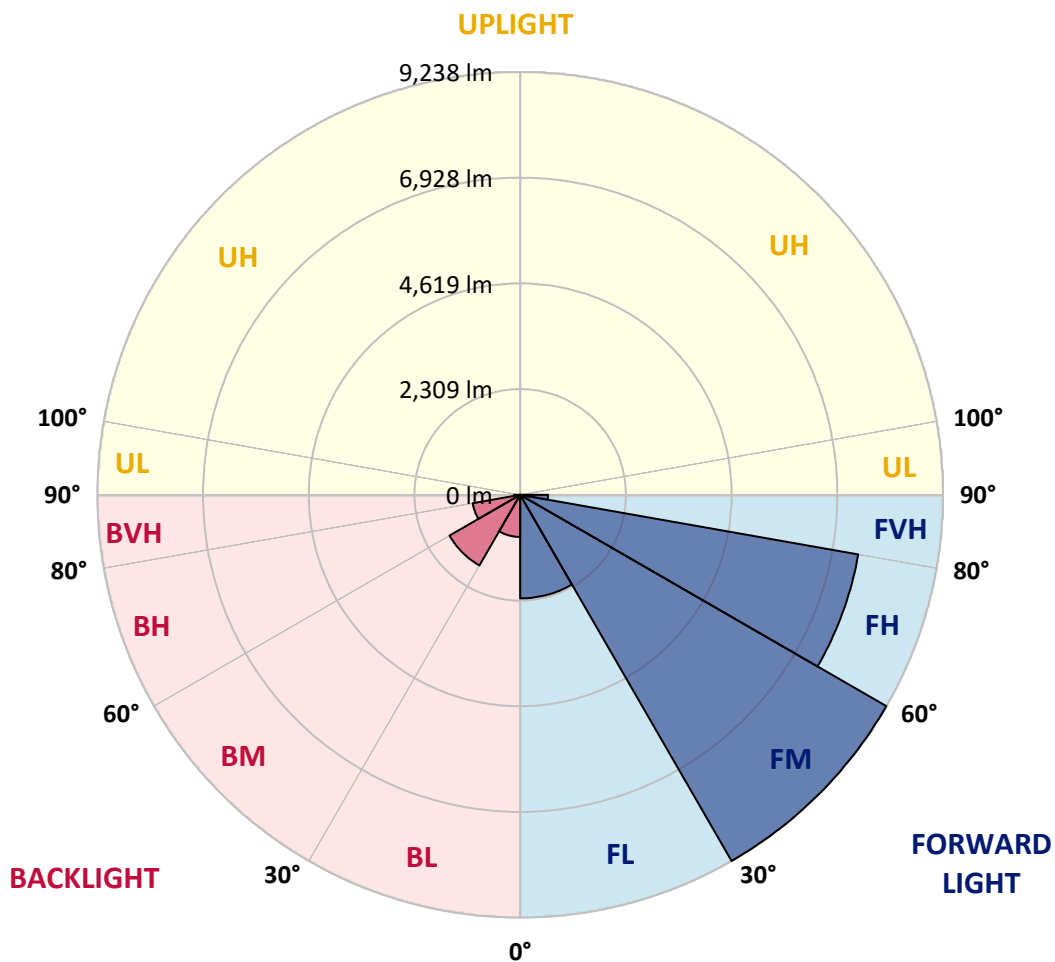
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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°	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6
2.5°	8249.4	8081.6	7802.4	7511.8	7335.0	7128.2	6966.6	6824.7	6540.4	6484.8	6535.3
5°	7757.4	7420.3	6894.3	6364.8	6012.0	5633.5	5339.0	5102.8	4742.2	4678.8	4755.1
7.5°	6968.2	6565.0	5870.1	5194.3	4695.7	4222.8	3905.3	3651.9	3370.3	3249.1	3256.5
10°	6287.3	5832.5	5010.9	4276.0	3867.7	3548.6	3281.1	3021.5	2736.0	2548.6	2497.0
12.5°	5906.0	5383.2	4436.0	3779.8	3401.2	3065.6	2777.4	2499.8	2194.7	2003.5	1949.5
15°	5840.3	5271.7	4220.5	3462.2	2987.8	2563.1	2223.3	1913.1	1599.1	1444.2	1411.8
17.5°	6125.8	5470.8	4150.5	3179.1	2599.1	2074.7	1657.4	1311.3	1055.5	978.1	971.4
20°	6673.3	5853.2	4141.5	2913.1	2215.4	1600.7	1154.8	903.0	790.8	768.5	770.0
22.5°	7442.2	6446.1	4252.6	2712.9	1862.7	1193.6	868.2	755.6	711.8	691.0	691.0
25°	8436.7	7262.7	4508.3	2567.0	1556.5	953.4	766.1	698.9	657.4	643.3	646.1
27.5°	9400.7	8057.0	4805.5	2452.0	1356.3	865.5	725.8	665.2	629.2	614.8	621.4
30°	10152.3	8762.5	5053.5	2295.6	1254.2	840.8	740.3	678.1	626.5	604.6	605.8
32.5°	10774.9	9380.0	5261.5	2183.0	1163.8	720.8	638.2	610.9	604.6	578.8	565.9
35°	11570.8	10053.0	5401.2	2185.7	1121.2	643.3	568.2	520.5	485.7	456.0	456.0
37.5°	12503.5	10825.4	5549.8	2215.4	1106.0	598.0	544.0	495.9	463.8	435.3	430.2
40°	13425.7	11582.5	5685.5	2244.0	1096.6	571.0	524.4	480.6	450.9	422.4	414.5
42.5°	14210.2	12205.1	5806.7	2258.1	1065.7	568.2	510.4	470.1	441.9	410.6	403.2
45°	14790.1	12726.8	5937.3	2280.0	1034.8	578.8	510.4	468.9	434.1	404.4	396.6
47.5°	15307.9	13339.2	6155.5	2280.0	997.2	559.2	527.2	470.1	432.9	401.6	395.4
50°	16001.7	14178.9	6568.9	2227.2	944.4	538.5	555.3	465.0	421.2	396.6	388.7
52.5°	16957.5	15255.1	7225.1	2135.3	863.1	498.6	551.4	462.6	409.5	383.6	374.7
55°	18088.1	16407.2	7940.8	2028.1	741.5	470.1	532.3	456.0	396.6	368.0	359.0
57.5°	18970.3	17200.3	8444.5	1862.7	635.5	454.8	471.6	449.7	380.9	351.2	343.8
60°	19321.5	17169.4	8583.0	1641.7	583.9	441.9	412.2	503.7	368.0	338.3	329.3
62.5°	19131.9	16376.3	8195.4	1486.9	572.1	425.1	386.4	466.2	357.8	329.3	316.4
65°	18254.7	14970.8	7168.4	1445.4	605.8	408.3	369.6	365.7	343.8	316.4	303.5
67.5°	16343.9	12870.3	5739.4	1449.3	648.4	391.5	352.8	334.8	324.2	302.3	290.6
70°	13312.2	10175.8	4278.4	1459.9	670.3	371.9	334.8	315.2	303.5	281.6	273.8
72.5°	9788.3	7842.6	3108.3	1392.6	674.2	350.0	310.1	293.3	281.6	258.5	251.9
75°	6696.8	5999.1	2156.0	1153.7	587.8	319.1	282.7	267.5	259.7	231.1	227.2
77.5°	4892.0	4503.2	1379.7	856.5	453.3	280.4	249.5	237.8	232.7	201.4	196.3
80°	3926.0	3562.7	863.1	586.6	332.0	235.0	209.2	203.0	197.5	166.6	162.7
82.5°	2723.1	2386.0	554.2	380.9	249.5	182.2	165.4	162.7	154.9	126.7	122.8
85°	1436.4	1295.6	351.2	259.7	180.7	125.1	115.0	115.0	111.1	84.1	81.3
87.5°	183.4	298.4	178.3	135.7	99.3	55.5	55.5	54.4	58.3	47.7	41.5
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°	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6
2.5°	6416.4	6478.6	6419.1	6423.0	6488.7	6685.1	6774.2	6847.7	6926.7	6978.4	7001.4
5°	4650.7	4795.4	4844.3	4947.5	5100.0	5350.7	5450.0	5522.4	5570.5	5598.7	5610.4
7.5°	3180.6	3268.2	3366.4	3533.0	3865.0	4012.4	4078.1	4061.3	4007.4	3987.8	3968.6
10°	2397.7	2362.9	2344.5	2436.4	2705.1	2853.7	2900.2	2854.9	2825.1	2831.8	2863.9
12.5°	1857.6	1797.0	1723.5	1712.9	1890.1	2023.0	2052.8	2055.1	2109.5	2157.2	2228.4
15°	1353.9	1347.3	1311.3	1289.4	1389.9	1498.6	1511.5	1534.6	1583.9	1618.7	1680.5
17.5°	954.6	989.4	1018.0	1032.1	1108.3	1185.7	1171.7	1159.9	1150.9	1150.9	1180.7
20°	770.0	793.1	829.5	870.5	948.4	1002.3	967.5	921.0	887.4	877.2	881.1
22.5°	693.8	711.8	732.5	768.5	838.5	876.0	838.5	804.8	771.2	759.5	755.6
25°	655.1	678.1	697.7	724.7	776.3	802.1	766.1	741.5	720.8	706.7	696.1
27.5°	633.2	653.5	659.0	671.9	715.7	738.7	720.8	710.6	697.7	684.8	671.9
30°	609.7	605.8	596.8	598.0	633.2	656.2	655.1	657.4	656.2	652.3	650.0
32.5°	556.9	549.1	541.2	549.1	581.1	601.9	603.4	608.5	608.5	607.3	617.5
35°	463.8	477.9	486.9	510.4	549.1	567.1	559.2	546.3	523.3	508.8	507.6
37.5°	429.0	431.4	447.0	479.1	522.1	538.5	527.2	497.4	481.8	479.1	483.0
40°	412.2	414.5	423.5	453.3	495.9	512.7	502.5	480.6	466.2	465.0	471.6
42.5°	400.5	403.2	408.3	429.0	463.8	484.5	485.7	470.1	453.3	454.8	461.1
45°	393.8	395.4	393.8	404.4	436.4	461.1	471.6	461.1	447.0	449.7	457.2
47.5°	392.6	388.7	383.6	386.4	420.0	444.3	457.2	453.3	447.0	449.7	456.0
50°	387.6	378.6	371.9	370.7	404.4	430.2	441.9	441.9	444.3	449.7	456.0
52.5°	371.9	361.7	361.7	357.8	393.8	418.5	426.3	427.4	431.4	440.4	449.7
55°	352.8	348.8	352.8	346.1	386.4	409.5	413.4	416.1	418.5	426.3	439.2
57.5°	335.9	330.9	339.8	337.1	379.7	400.5	400.5	405.5	405.5	416.1	426.3
60°	326.9	316.4	320.3	323.0	370.7	392.6	390.3	395.4	397.7	407.1	414.5
62.5°	315.2	306.2	306.2	312.5	360.6	380.9	379.7	383.6	393.8	396.6	404.4
65°	301.1	297.2	293.3	301.1	350.0	368.0	369.6	374.7	383.6	386.4	392.6
67.5°	286.7	288.2	280.4	288.2	341.0	355.1	355.1	365.7	369.6	374.7	380.9
70°	271.4	272.6	265.9	275.3	334.8	341.0	339.8	353.9	356.7	360.6	366.8
72.5°	251.9	251.9	249.5	262.4	324.2	326.9	324.2	335.9	337.1	341.0	343.8
75°	231.1	231.1	228.8	246.8	317.9	311.3	303.5	312.5	315.2	317.9	317.9
77.5°	204.1	206.9	206.9	228.8	295.7	305.0	278.8	284.3	288.2	289.4	285.5
80°	170.5	177.2	179.5	208.1	247.9	281.6	249.5	253.0	254.6	254.6	249.5
82.5°	130.6	142.0	148.6	179.5	190.1	236.2	217.0	221.0	217.0	209.2	206.9
85°	90.3	106.0	113.8	136.9	143.5	182.2	180.7	180.7	173.2	162.7	161.5
87.5°	49.3	58.3	63.4	81.3	98.2	122.8	133.0	129.1	122.8	116.1	117.7
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°	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6
2.5°	7123.1	7298.7	7579.1	7793.4	8009.2	8217.3	8442.2	8613.8	8759.7	8816.8	8989.7
5°	5728.1	5947.5	6212.2	6690.1	7028.8	7401.9	7833.7	8404.6	8624.0	8927.9	9424.9
7.5°	4050.0	4248.7	4674.9	5061.3	5540.8	6069.1	6651.4	7439.4	7727.7	8214.6	9024.5
10°	3024.2	3255.3	3597.5	3923.3	4345.6	4885.7	5554.8	6435.9	6786.0	7314.3	8247.0
12.5°	2436.4	2709.0	3071.9	3378.1	3705.1	4086.0	4735.9	5701.9	6171.2	6633.4	7576.3
15°	1871.7	2157.2	2494.7	2883.4	3243.6	3654.6	4335.5	5392.2	5931.8	6414.0	7218.5
17.5°	1295.6	1539.7	1964.8	2370.3	2831.8	3357.4	4224.4	5457.9	6102.4	6658.1	7280.7
20°	918.6	1057.9	1406.7	1877.2	2452.0	3111.8	4203.7	5804.0	6642.4	7276.8	7678.4
22.5°	772.4	824.0	1027.0	1458.3	2122.4	2928.4	4276.0	6289.7	7371.0	8180.9	8312.7
25°	703.9	735.2	840.8	1144.7	1829.1	2795.4	4520.1	7013.2	8272.8	9085.5	9062.0
27.5°	666.4	698.9	768.5	966.3	1608.5	2712.9	4764.1	7871.2	9303.7	10067.1	9777.7
30°	655.1	698.9	772.4	910.8	1450.9	2582.3	4964.3	8624.0	10096.8	10730.0	10103.5
32.5°	646.1	652.3	685.9	785.3	1300.7	2429.8	5100.0	9299.8	10873.1	11360.4	10572.4
35°	522.1	554.2	608.5	703.9	1213.1	2338.2	5100.0	9882.5	11638.0	11997.1	11019.4
37.5°	502.5	531.1	578.8	660.1	1163.8	2292.9	4998.0	10444.5	12419.4	12719.4	11387.4
40°	492.4	515.4	560.8	626.5	1143.1	2241.3	4849.3	10940.4	13182.8	13442.5	11731.1
42.5°	484.5	505.3	547.9	605.8	1116.1	2184.6	4729.3	11338.1	13845.7	14060.0	12059.2
45°	480.6	502.5	549.1	616.3	1061.8	2109.5	4689.4	11768.3	14390.8	14575.4	12414.3
47.5°	480.6	506.4	555.3	638.2	997.2	2032.0	4814.5	12335.7	14906.3	14996.6	12832.8
50°	476.7	505.3	573.7	616.3	903.0	1933.9	5109.0	13049.8	15464.3	15474.5	13362.7
52.5°	468.9	502.5	617.5	603.4	794.3	1804.8	5507.1	13967.3	16289.9	16351.7	14191.8
55°	459.9	498.6	605.8	573.7	705.5	1651.1	5832.5	15081.9	17449.8	17621.5	15411.5
57.5°	448.2	493.5	586.6	532.3	647.2	1453.2	5950.2	15898.4	18259.8	18691.1	16785.8
60°	438.0	489.6	529.5	507.6	610.9	1286.6	5722.6	15736.9	18204.2	19134.2	18004.0
62.5°	427.4	493.5	483.0	492.4	594.0	1179.5	5128.6	14443.6	17283.2	18677.0	18907.0
65°	416.1	458.7	456.0	479.1	590.5	1136.9	4251.4	12504.7	15503.1	17231.6	19120.1
67.5°	400.5	423.5	436.4	462.6	603.4	1099.3	3430.9	10315.0	13029.1	15065.0	18009.1
70°	383.6	403.2	417.3	441.9	595.6	1082.5	2853.7	8134.4	10338.5	12347.1	15817.1
72.5°	361.7	378.6	391.5	414.5	587.8	1073.5	2410.6	6550.9	7718.7	9171.9	12860.2
75°	335.9	351.2	360.6	383.6	563.2	983.2	1895.2	5543.1	5775.8	6380.4	10242.7
77.5°	306.2	317.9	325.4	351.2	498.6	817.7	1370.7	4276.0	4485.3	4632.3	7852.8
80°	271.4	282.7	286.7	311.3	413.4	639.4	894.0	3158.3	3354.7	3388.3	5128.6
82.5°	231.1	242.9	242.9	265.9	338.3	459.9	586.6	2163.8	2202.5	2316.3	3624.9
85°	186.2	195.1	195.1	206.9	262.4	343.8	403.2	1086.4	1074.7	1227.2	3140.3
87.5°	133.0	139.6	145.9	148.6	187.3	227.2	242.9	330.9	218.2	250.7	2016.4
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: P299492

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6	7939.6
2.5°	9120.3	9193.8	9118.7	9064.8	8830.9	8638.5	8381.2	8249.4
5°	9803.5	9990.8	9927.5	9700.3	9211.8	8662.7	8039.0	7757.4
7.5°	9721.0	10156.3	10166.4	9741.7	9022.1	8213.4	7368.7	6968.2
10°	9077.7	9634.2	9793.3	9381.1	8617.8	7713.6	6744.5	6287.3
12.5°	8359.3	8904.4	9026.0	8883.7	8245.8	7337.4	6354.6	5906.0
15°	7771.5	8015.9	8160.2	8284.6	7926.7	7187.6	6332.3	5840.3
17.5°	7413.6	7386.7	7428.1	7643.6	7704.2	7359.3	6668.2	6125.8
20°	7284.6	6870.0	6859.5	7156.7	7599.8	7769.1	7324.5	6673.3
22.5°	7355.8	6683.9	6598.6	6951.4	7655.3	8359.3	8184.8	7442.2
25°	7601.0	6699.5	6630.7	6972.1	7856.7	8988.5	9113.6	8436.7
27.5°	7987.3	6797.7	6707.0	7057.4	8124.2	9516.8	10028.4	9400.7
30°	8354.2	6968.2	6855.6	7225.1	8368.3	9726.1	10589.2	10152.3
32.5°	8800.0	7287.3	7089.4	7533.7	8670.6	10059.3	11089.0	10774.9
35°	9236.4	7741.7	7496.5	8010.4	9007.7	10474.2	11659.9	11570.8
37.5°	9715.9	8336.2	8133.2	8626.8	9469.1	10865.3	12388.5	12503.5
40°	10227.4	9124.2	8883.7	9525.8	10184.8	11356.5	13149.6	13425.7
42.5°	10742.9	9998.7	9712.0	10362.7	10971.3	11840.6	13800.3	14210.2
45°	11333.0	10948.2	10812.5	11516.4	11727.2	12302.1	14280.9	14790.1
47.5°	12020.5	12025.6	12243.8	12525.4	12489.4	12823.8	14764.3	15307.9
50°	12822.6	13370.1	13852.3	14039.3	13274.7	13384.6	15434.6	16001.7
52.5°	13786.2	14978.6	15575.4	15452.6	14121.0	14069.0	16496.4	16957.5
55°	14991.5	16681.4	17274.2	17186.2	15093.6	15001.7	17819.4	18088.1
57.5°	16386.5	18330.9	18876.1	18480.7	16261.3	16025.1	18913.6	18970.3
60°	17612.5	19638.3	20116.2	19678.2	17439.7	17113.9	19596.8	19321.5
62.5°	18294.6	20081.4	20417.3	19945.7	18246.8	18273.8	19746.6	19131.9
65°	17989.9	18961.3	19069.7	19031.0	18038.8	18946.9	19208.1	18254.7
67.5°	16320.8	16129.6	16311.8	16563.7	16256.3	18060.7	17715.8	16343.9
70°	13380.7	12330.2	12693.6	12862.5	13002.1	15541.8	15376.3	13312.2
72.5°	10083.9	8638.5	8925.1	8890.3	9536.0	12466.0	11958.3	9788.3
75°	7145.0	5857.2	5893.1	5879.1	6654.2	9753.1	8659.2	6696.8
77.5°	4999.1	4243.6	4263.1	4342.9	4473.5	7355.8	6186.4	4892.0
80°	3437.6	3220.5	3327.7	3334.3	3100.5	4941.3	4570.5	3926.0
82.5°	2560.4	2238.5	2212.7	2250.3	2429.8	4003.4	3512.3	2723.1
85°	2096.6	1325.4	1065.7	1335.9	2153.3	3964.7	2333.2	1436.4
87.5°	1180.7	629.2	284.3	527.2	859.2	2624.9	674.2	183.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)