

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: P299006

Luminaire Tested: **GLNA-AF-06-LED-E1-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299006
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-06-LED-E1-SLL-7030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 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: 19871.1 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 193
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

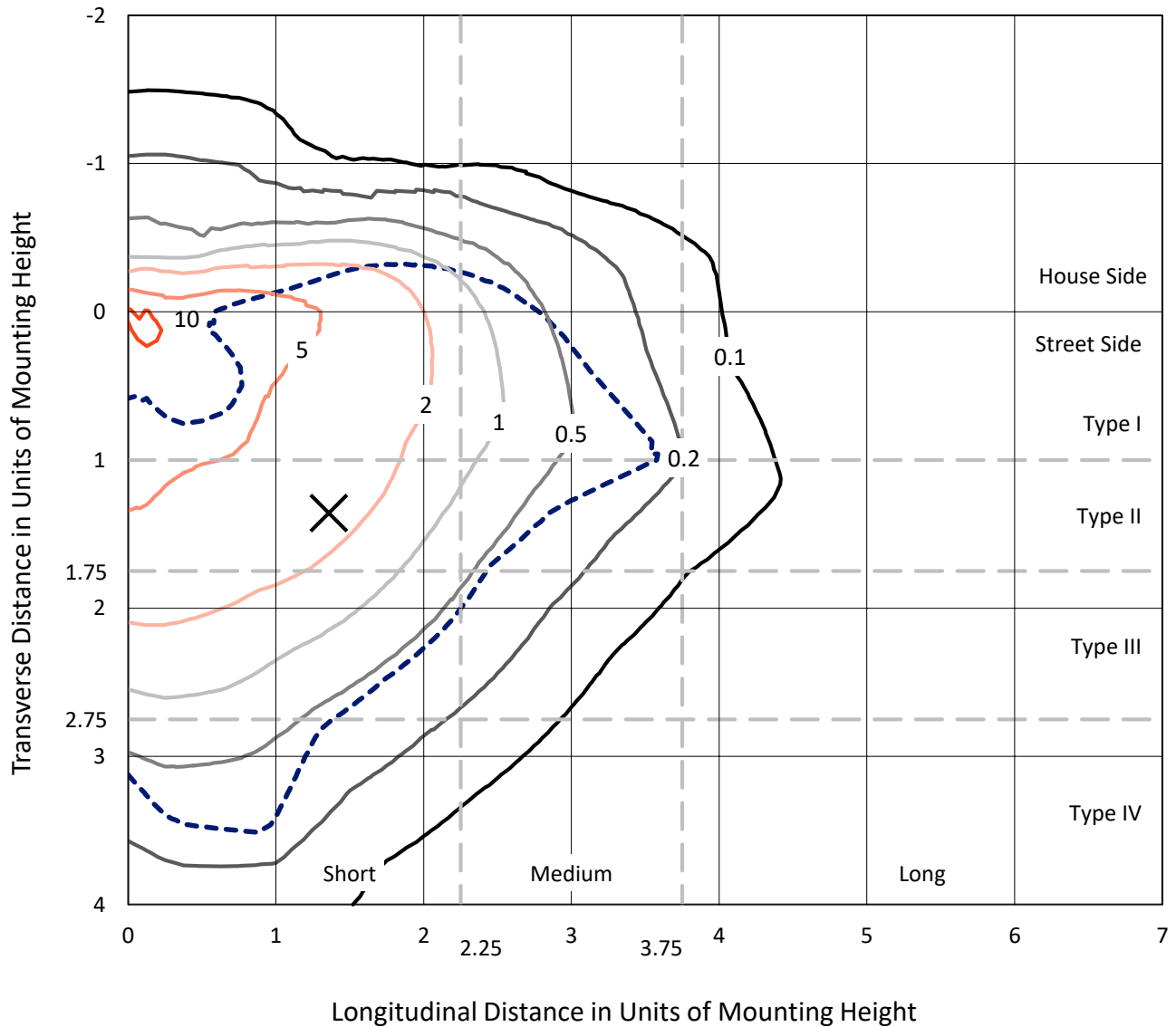


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Iso-Footcandle Lines of Horizontal Illumination

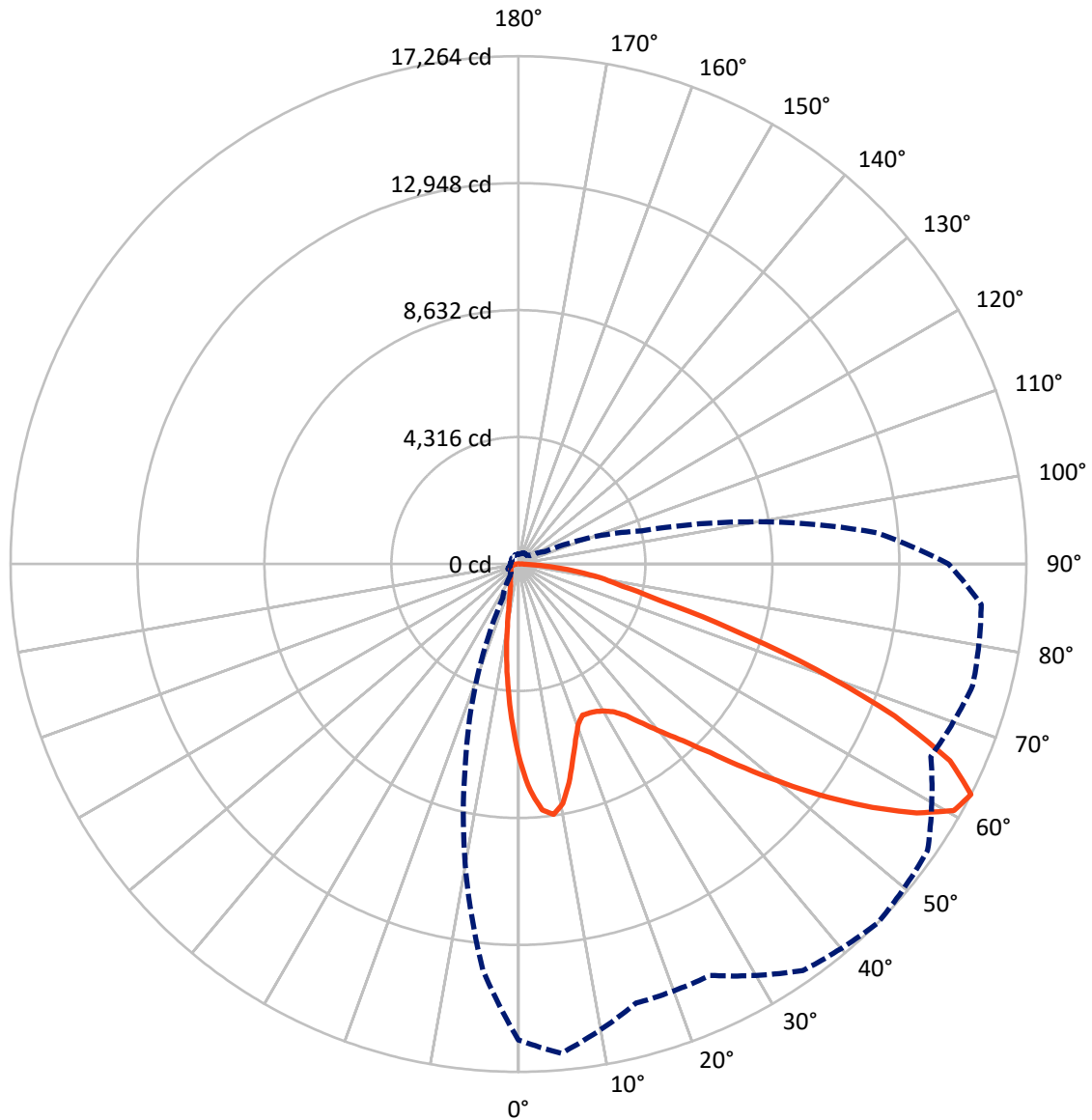
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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
House Side	Lumens	3288.4	0.0	3288.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16582.7	0.0	16582.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	19871.1	0.0	19871.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.7	2.5
10°-20°	896.2	4.5
20°-30°	1306.6	6.6
30°-40°	2012.4	10.1
40°-50°	2961.7	14.9
50°-60°	4344.2	21.9
60°-70°	4856.1	24.4
70°-80°	2377.5	12.0
80°-90°	627.7	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°	19871.1	100.0
0°-180°	19871.1	100.0

Coefficient of Utilization



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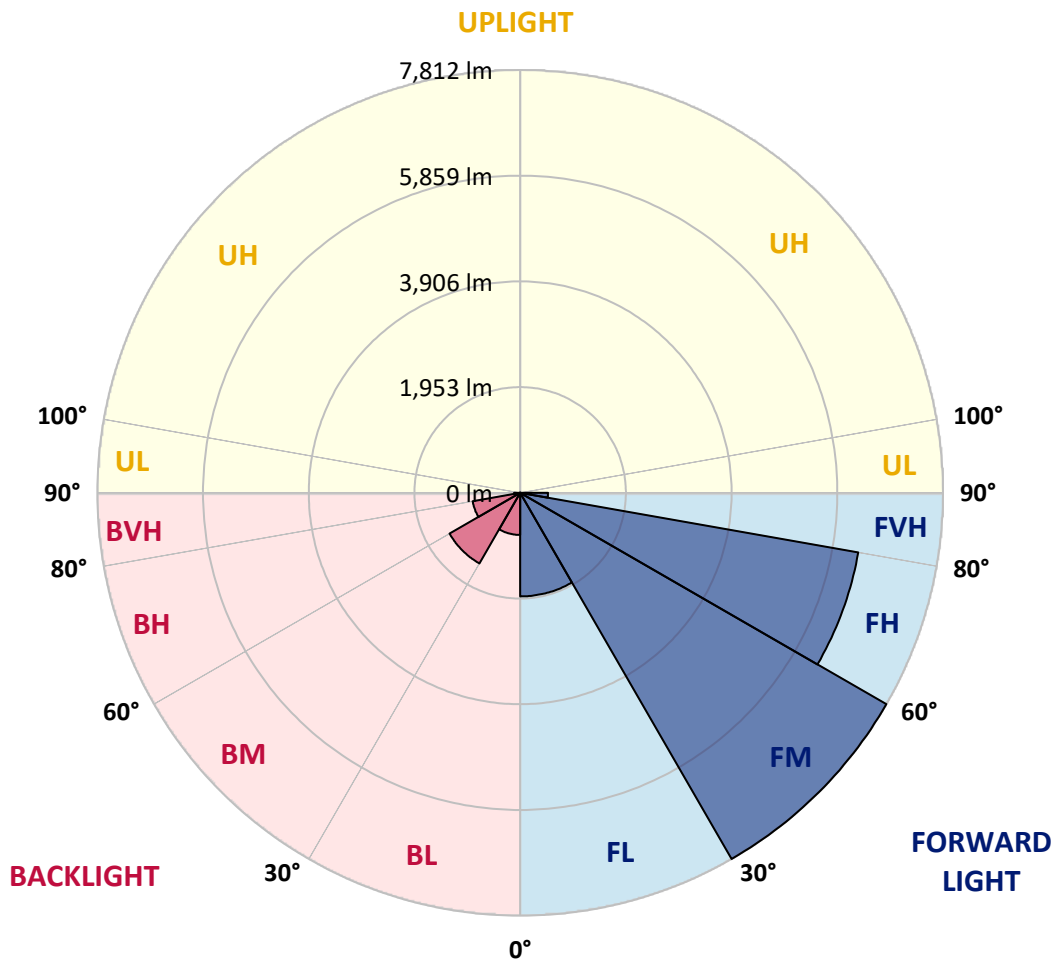
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1913.5	9.6			
FM	(30°-60°)	7811.5	39.3			
FH	(60°-80°)	6342.1	31.9			G3/7500
FVH	(80°-90°)	515.5	2.6			G4/750
BL	(0°-30°)	778.0	3.9	B2/1000		
BM	(30°-60°)	1506.7	7.6	B2/2500		
BH	(60°-80°)	891.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	112.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7
2.5°	6975.4	7087.1	7304.5	7466.9	7665.1	7710.9	7774.4	7711.9	7601.7	7455.2	7407.3
5°	6559.5	6797.8	7325.1	7789.6	8202.4	8394.6	8448.5	8289.6	7969.7	7549.2	7292.4
7.5°	5892.1	6230.8	6944.9	7629.0	8237.1	8596.7	8587.8	8219.7	7631.1	6946.0	6534.3
10°	5316.2	5703.1	6522.6	7287.1	7932.5	8281.1	8146.3	7676.1	6973.3	6184.7	5738.2
12.5°	4994.3	5373.3	6204.5	6972.2	7511.9	7632.2	7529.3	7068.3	6406.3	5609.1	5218.0
15°	4938.2	5354.9	6077.9	6702.7	7005.2	6900.6	6777.9	6571.5	6103.8	5423.3	5015.9
17.5°	5180.1	5638.6	6223.3	6514.8	6463.4	6280.8	6246.0	6269.1	6156.6	5629.7	5160.2
20°	5643.2	6193.5	6569.4	6426.5	6051.7	5800.3	5809.1	6159.8	6492.8	6153.1	5616.6
22.5°	6292.8	6921.2	7068.3	6473.3	5877.9	5579.7	5652.0	6220.1	7029.3	6918.0	6232.9
25°	7133.9	7706.6	7600.6	6643.5	5895.3	5607.0	5664.8	6427.6	7662.7	7682.5	6995.6
27.5°	7948.8	8480.0	8047.0	6869.8	5967.6	5671.5	5748.1	6753.8	8268.0	8512.6	7867.3
30°	8584.6	8954.1	8224.0	7076.1	6109.5	5797.1	5892.1	7064.1	8543.5	9072.9	8537.8
32.5°	9111.2	9376.5	8505.9	7331.8	6370.5	5994.6	6162.0	7441.0	8939.9	9606.2	9194.2
35°	9783.9	9859.4	8856.6	7616.9	6773.7	6338.9	6546.4	7810.2	9317.9	10144.5	9841.0
37.5°	10572.9	10475.7	9187.5	8007.0	7294.9	6877.2	7048.8	8215.5	9628.9	10755.2	10501.6
40°	11352.7	11118.6	9603.1	8611.9	8055.2	7511.9	7715.1	8648.1	9919.7	11366.9	11147.4
42.5°	12015.8	11669.3	10012.3	9277.2	8762.6	8212.3	8454.8	9083.9	10197.0	11888.8	11707.6
45°	12506.2	12075.7	10402.3	9916.2	9738.2	9142.8	9257.7	9582.8	10497.4	12325.0	12168.6
47.5°	12944.1	12484.2	10843.5	10560.8	10591.3	10353.0	10168.3	10164.0	10851.6	12681.0	12604.4
50°	13530.7	13051.2	11317.6	11224.7	11871.5	11712.9	11305.5	10842.4	11299.1	13085.3	13076.4
52.5°	14339.2	13949.4	11896.6	11940.3	13066.8	13170.4	12665.4	11657.6	12000.2	13826.7	13774.6
55°	15295.2	15067.5	12685.6	12762.9	14532.4	14606.9	14105.1	12676.4	13031.7	14900.8	14755.5
57.5°	16040.9	15993.0	13550.5	13750.5	15627.1	15961.5	15500.5	13856.5	14193.8	15805.1	15440.2
60°	16338.1	16570.7	14471.4	14746.6	16639.8	17009.7	16605.8	14892.7	15223.9	16179.9	15393.4
62.5°	16177.8	16697.3	15452.3	15429.2	16865.7	17264.3	16980.2	15469.6	15987.7	15793.0	14614.7
65°	15435.9	16242.0	16021.4	15253.3	16092.3	16124.9	16033.1	15211.8	16167.8	14570.7	13109.0
67.5°	13820.0	14980.3	15271.8	13746.3	14005.8	13793.1	13638.8	13800.5	15228.1	12738.8	11017.2
70°	11256.6	13002.3	13141.7	10994.5	10876.4	10733.2	10426.4	11314.4	13374.6	10440.6	8742.1
72.5°	8276.8	10111.9	10541.0	8063.7	7517.6	7546.7	7304.5	8526.5	10874.3	7755.6	6526.9
75°	5662.7	7321.9	8247.4	5626.5	4971.6	4983.3	4952.4	6041.8	8661.2	5395.0	4884.0
77.5°	4136.8	5231.1	6220.1	3782.6	3672.3	3604.6	3588.2	4227.2	6640.3	3917.3	3792.5
80°	3319.5	3864.8	4178.0	2621.6	2819.1	2813.8	2723.0	2906.7	4336.5	2865.2	2836.5
82.5°	2302.8	2970.2	3385.1	2054.6	1902.8	1870.9	1893.2	2164.9	3065.2	1958.5	1862.4
85°	1214.9	1972.7	3352.4	1820.9	1129.4	901.1	1120.9	1772.7	2655.6	1037.9	908.5
87.5°	155.3	570.2	2219.5	726.6	445.7	240.1	532.3	998.2	1705.3	211.7	184.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7
2.5°	7283.9	7138.5	6948.5	6772.2	6590.0	6408.4	6171.5	6023.0	5920.5	5900.6	5857.4
5°	7107.0	6624.0	6259.1	5943.5	5657.4	5252.8	5029.0	4843.2	4743.9	4734.3	4710.2
7.5°	6290.7	5624.4	5131.8	4685.0	4279.7	3953.1	3592.5	3424.8	3355.6	3371.9	3388.2
10°	5441.8	4697.1	4131.1	3674.4	3317.3	3042.2	2752.8	2557.4	2421.6	2394.3	2389.0
12.5°	4821.6	4004.6	3455.3	3132.6	2856.7	2597.5	2290.7	2059.9	1884.4	1824.1	1784.0
15°	4559.2	3665.9	3090.4	2742.9	2437.9	2109.2	1824.1	1582.6	1421.3	1368.8	1339.3
17.5°	4615.2	3571.9	2839.0	2394.3	2004.6	1661.3	1302.1	1095.4	998.2	973.4	973.4
20°	4908.1	3554.6	2631.2	2073.4	1586.9	1189.3	894.7	776.6	745.0	741.8	750.3
22.5°	5318.7	3615.9	2476.6	1795.0	1233.3	868.4	696.8	653.2	639.0	642.5	652.1
25°	5930.4	3822.3	2364.1	1546.8	967.7	711.0	621.3	595.4	588.6	597.5	609.6
27.5°	6655.6	4028.7	2293.9	1359.9	817.0	650.0	590.8	563.8	568.1	579.1	589.7
30°	7292.4	4198.2	2183.7	1226.9	770.2	653.2	590.8	553.9	549.6	551.8	555.0
32.5°	7864.1	4312.7	2054.6	1100.0	664.2	580.1	551.8	546.4	522.0	513.1	514.5
35°	8356.6	4312.7	1977.3	1025.9	595.4	514.5	468.8	441.5	429.1	430.1	442.5
37.5°	8831.8	4226.2	1939.0	984.0	558.1	489.4	448.9	424.8	408.5	405.3	407.4
40°	9250.9	4100.6	1895.4	966.7	529.8	474.1	436.2	416.0	398.6	393.3	394.3
42.5°	9587.4	3998.9	1847.1	944.0	512.0	463.1	426.9	409.6	390.1	384.4	383.3
45°	9951.3	3965.2	1784.0	897.9	520.9	464.2	424.8	406.4	386.5	380.1	378.0
47.5°	10430.7	4071.2	1718.4	843.3	539.7	469.9	428.0	406.4	385.5	380.1	378.0
50°	11034.6	4320.1	1635.1	763.5	520.9	485.1	426.9	402.8	385.5	380.1	375.9
52.5°	11810.5	4656.7	1526.2	672.0	509.9	522.0	424.8	396.4	380.1	372.7	364.9
55°	12753.0	4931.8	1395.7	596.4	485.1	512.0	421.6	389.0	371.6	360.6	353.9
57.5°	13443.4	5031.1	1229.1	547.5	450.0	495.7	417.0	379.1	360.6	351.8	343.3
60°	13306.9	4838.9	1087.9	516.7	429.1	447.9	413.8	370.2	350.7	344.3	336.2
62.5°	12213.7	4336.5	997.1	502.5	416.0	408.5	417.0	361.7	342.2	335.1	333.0
65°	10574.0	3594.6	961.3	499.3	405.3	385.5	387.9	351.8	331.9	326.6	324.5
67.5°	8722.2	2901.4	929.8	509.9	391.1	369.1	358.5	338.6	322.0	316.7	312.4
70°	6878.3	2413.1	915.2	503.5	373.8	352.8	341.1	324.5	310.3	304.6	301.4
72.5°	5538.9	2038.3	907.4	496.8	350.7	330.8	319.9	305.7	290.4	288.3	285.1
75°	4687.5	1602.5	831.5	476.2	324.5	304.6	297.2	284.0	268.8	268.8	266.7
77.5°	3615.9	1158.8	691.5	421.6	297.2	275.2	268.8	258.9	241.5	244.7	243.6
80°	2670.9	756.0	540.8	349.6	263.5	242.5	239.0	229.4	210.6	215.2	215.2
82.5°	1829.8	495.7	389.0	286.2	224.8	205.3	205.3	195.4	174.8	176.9	183.7
85°	918.8	341.1	290.4	221.6	174.8	164.9	164.9	157.4	136.5	137.6	146.5
87.5°	279.8	205.3	192.2	158.5	125.5	123.4	117.7	112.4	99.3	98.2	103.9
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°	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7
2.5°	5790.3	5727.9	5653.1	5486.8	5431.1	5427.6	5478.3	5425.5	5526.2	5483.6	5530.4
5°	4669.4	4608.8	4524.4	4312.7	4183.6	4096.0	4054.9	3932.6	4020.9	3956.3	4010.2
7.5°	3434.3	3448.5	3392.9	3268.4	2987.5	2846.8	2763.8	2689.3	2753.9	2747.1	2850.0
10°	2414.1	2452.1	2413.1	2287.6	2059.9	1982.6	1997.8	2027.3	2111.7	2154.9	2313.4
12.5°	1737.9	1735.8	1710.6	1598.2	1448.6	1457.1	1519.5	1570.5	1648.2	1694.3	1855.6
15°	1297.5	1278.0	1267.0	1175.2	1090.1	1108.8	1139.3	1144.7	1194.0	1221.3	1352.5
17.5°	980.8	990.8	1002.5	937.2	872.7	860.6	836.9	807.1	821.6	826.9	892.2
20°	778.7	818.1	847.9	801.8	736.5	701.1	670.6	651.1	651.1	650.0	668.4
22.5°	680.5	708.9	740.8	708.9	650.0	619.1	601.8	586.5	584.4	584.4	601.8
25°	627.3	647.9	678.4	656.7	612.8	589.7	573.4	553.9	546.4	544.0	556.0
27.5°	600.7	609.6	624.8	605.0	568.1	557.1	552.8	535.5	525.2	519.9	532.3
30°	556.0	553.9	555.0	535.5	505.7	504.6	512.0	515.6	512.0	511.0	529.8
32.5°	514.5	509.9	508.9	491.5	464.2	457.8	464.2	470.9	478.4	489.4	511.0
35°	462.0	473.0	479.4	464.2	431.2	411.7	404.2	392.2	385.5	385.5	410.6
37.5°	420.6	445.7	455.7	441.5	405.3	378.0	364.9	362.8	363.8	368.1	392.2
40°	406.4	424.8	433.3	419.5	383.3	358.5	350.7	348.6	350.7	357.4	381.2
42.5°	397.5	410.6	409.6	392.2	362.8	345.4	341.1	338.6	341.1	347.5	373.8
45°	390.1	398.6	390.1	369.1	342.2	333.0	334.0	333.0	335.1	342.2	367.0
47.5°	383.3	386.5	375.9	355.0	326.6	324.5	328.7	331.9	334.0	340.1	366.0
50°	373.8	373.8	363.8	342.2	313.5	314.5	319.9	327.7	328.7	335.1	356.4
52.5°	361.7	360.6	353.9	333.0	302.5	305.7	305.7	314.5	316.7	324.5	346.4
55°	351.8	349.6	346.4	326.6	292.9	298.2	295.0	298.2	303.5	311.3	335.1
57.5°	343.3	338.6	338.6	320.9	285.1	287.2	279.8	284.0	290.4	297.2	322.0
60°	334.0	329.8	331.9	313.5	273.0	270.9	267.7	276.2	278.7	286.2	311.3
62.5°	324.5	320.9	322.0	304.6	264.5	258.9	258.9	266.7	267.7	278.7	302.5
65°	316.7	312.4	311.3	296.1	254.6	248.2	251.4	254.6	256.7	267.7	290.4
67.5°	309.2	300.4	300.4	288.3	243.6	236.9	243.6	242.5	246.1	255.7	274.1
70°	299.3	287.2	288.3	283.0	232.6	224.8	230.5	229.4	231.6	237.9	256.7
72.5°	284.0	274.1	276.2	274.1	221.6	210.6	212.8	212.8	212.8	218.4	237.9
75°	264.5	256.7	263.5	268.8	208.5	193.3	195.4	195.4	192.2	195.4	219.5
77.5°	240.1	235.8	257.8	250.4	193.3	174.8	174.8	172.7	166.3	170.6	196.5
80°	214.2	210.6	237.9	209.6	175.9	152.1	149.6	144.0	137.6	140.8	167.4
82.5°	186.9	183.7	200.0	160.6	152.1	125.5	120.2	110.3	103.9	107.1	130.8
85°	153.2	153.2	154.3	121.3	115.6	96.1	89.7	76.6	68.8	70.9	94.0
87.5°	109.2	112.4	103.9	83.0	68.8	53.5	49.3	41.5	34.8	40.4	49.3
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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CATALOG NUMBER: GLNA-AF-06-LED-E1-SLL-7030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7	6713.7
2.5°	5770.8	5891.0	6027.6	6202.0	6352.0	6597.4	6833.6	6975.4
5°	4314.8	4514.8	4763.4	5084.0	5382.2	5829.7	6274.4	6559.5
7.5°	3087.9	3302.1	3570.9	3970.5	4392.5	4963.4	5551.3	5892.1
10°	2555.3	2774.8	3000.7	3270.5	3615.9	4237.2	4931.8	5316.2
12.5°	2113.8	2348.5	2592.2	2876.2	3196.1	3751.0	4551.7	4994.3
15°	1617.7	1879.8	2167.0	2526.6	2927.3	3568.7	4457.7	4938.2
17.5°	1108.8	1401.8	1754.2	2197.8	2688.3	3509.5	4626.2	5180.1
20°	763.5	976.6	1353.5	1873.4	2463.4	3502.1	4949.2	5643.2
22.5°	639.0	734.0	1009.2	1575.2	2293.9	3596.0	5451.0	6292.8
25°	590.8	647.9	806.0	1316.3	2170.5	3812.4	6141.4	7133.9
27.5°	562.8	613.8	731.9	1147.1	2073.4	4063.4	6813.0	7948.8
30°	573.4	625.9	711.0	1060.6	1941.1	4273.0	7409.5	8584.6
32.5°	516.7	539.7	609.6	984.0	1846.1	4448.9	7931.4	9111.2
35°	440.4	480.5	544.0	948.2	1848.2	4567.0	8500.6	9783.9
37.5°	419.5	459.9	505.7	935.1	1873.4	4692.8	9153.8	10572.9
40°	406.4	443.6	483.0	927.6	1897.5	4807.4	9794.2	11352.7
42.5°	397.5	431.2	480.5	901.1	1909.5	4910.2	10320.4	12015.8
45°	396.4	431.2	489.4	874.8	1928.0	5020.5	10761.9	12506.2
47.5°	397.5	445.7	473.0	843.3	1928.0	5204.9	11279.6	12944.1
50°	393.3	469.9	455.7	798.6	1883.3	5554.5	11989.5	13530.7
52.5°	391.1	466.7	421.6	729.8	1805.6	6109.5	12899.5	14339.2
55°	385.5	450.0	397.5	627.3	1715.2	6714.8	13873.9	15295.2
57.5°	380.1	398.6	384.4	537.6	1575.2	7140.7	14544.5	16040.9
60°	425.9	348.6	373.8	493.6	1388.3	7257.3	14518.6	16338.1
62.5°	394.3	326.6	359.6	484.0	1257.4	6929.7	13847.7	16177.8
65°	309.2	312.4	345.4	512.0	1222.3	6061.6	12659.0	15435.9
67.5°	283.0	298.2	330.8	548.6	1225.9	4853.1	10883.2	13820.0
70°	266.7	283.0	314.5	567.0	1234.4	3618.0	8604.1	11256.6
72.5°	248.2	262.4	296.1	570.2	1177.3	2628.0	6631.8	8276.8
75°	225.9	239.0	269.9	496.8	975.5	1823.0	5073.0	5662.7
77.5°	201.1	210.6	236.9	383.3	724.5	1166.6	3807.7	4136.8
80°	171.6	176.9	198.9	280.8	495.7	729.8	3012.7	3319.5
82.5°	137.6	139.7	154.3	210.6	322.0	468.8	2017.7	2302.8
85°	97.2	97.2	106.0	153.2	219.5	297.2	1095.4	1214.9
87.5°	45.7	46.8	46.8	84.0	114.5	151.1	252.5	155.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)