

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: P299426

Luminaire Tested: **GLNA-AF-06-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299426
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-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K 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: 24369 lumens
Efficiency: N/A
Efficacy: 97.9 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

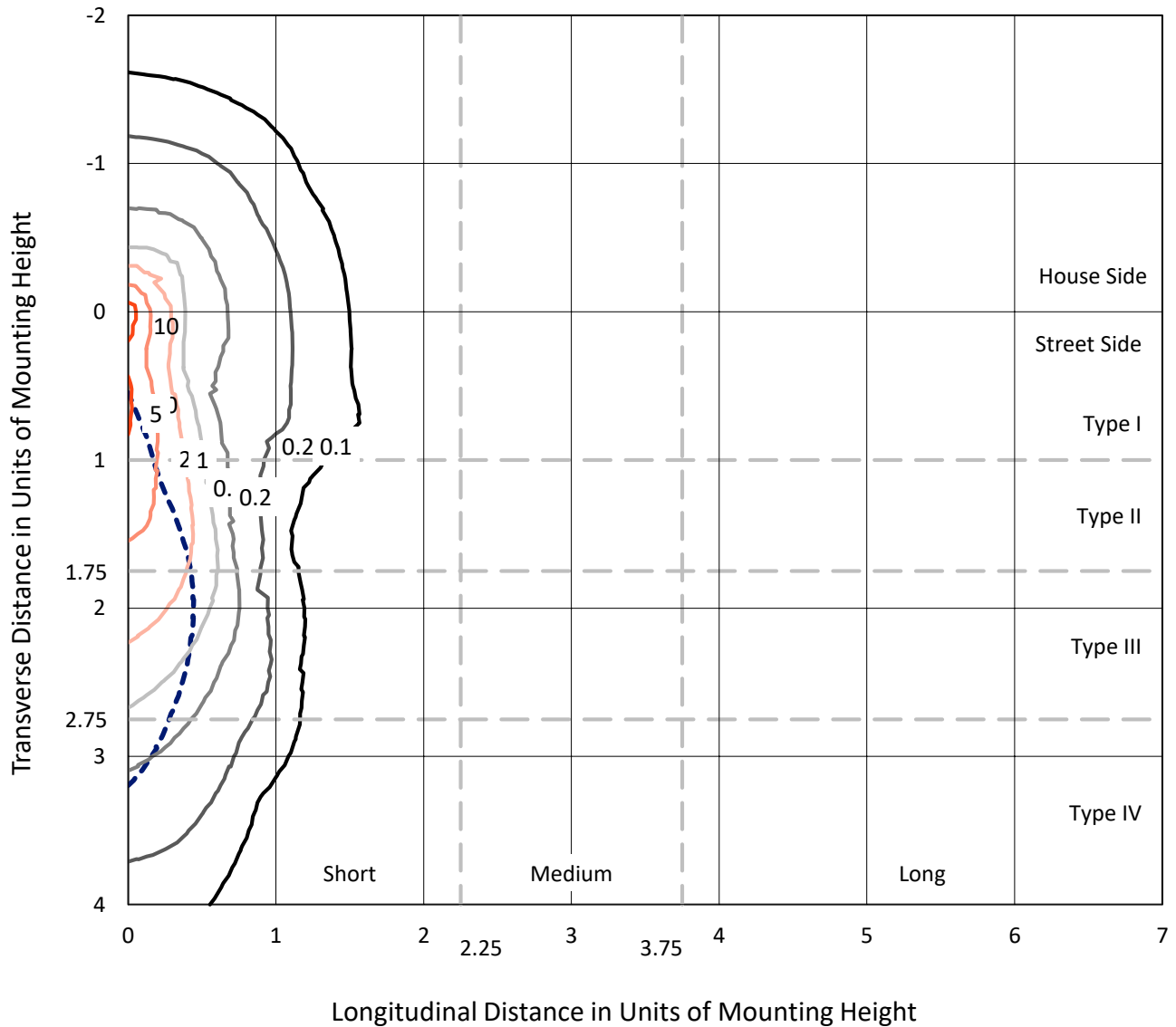


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Iso-Footcandle Lines of Horizontal Illumination

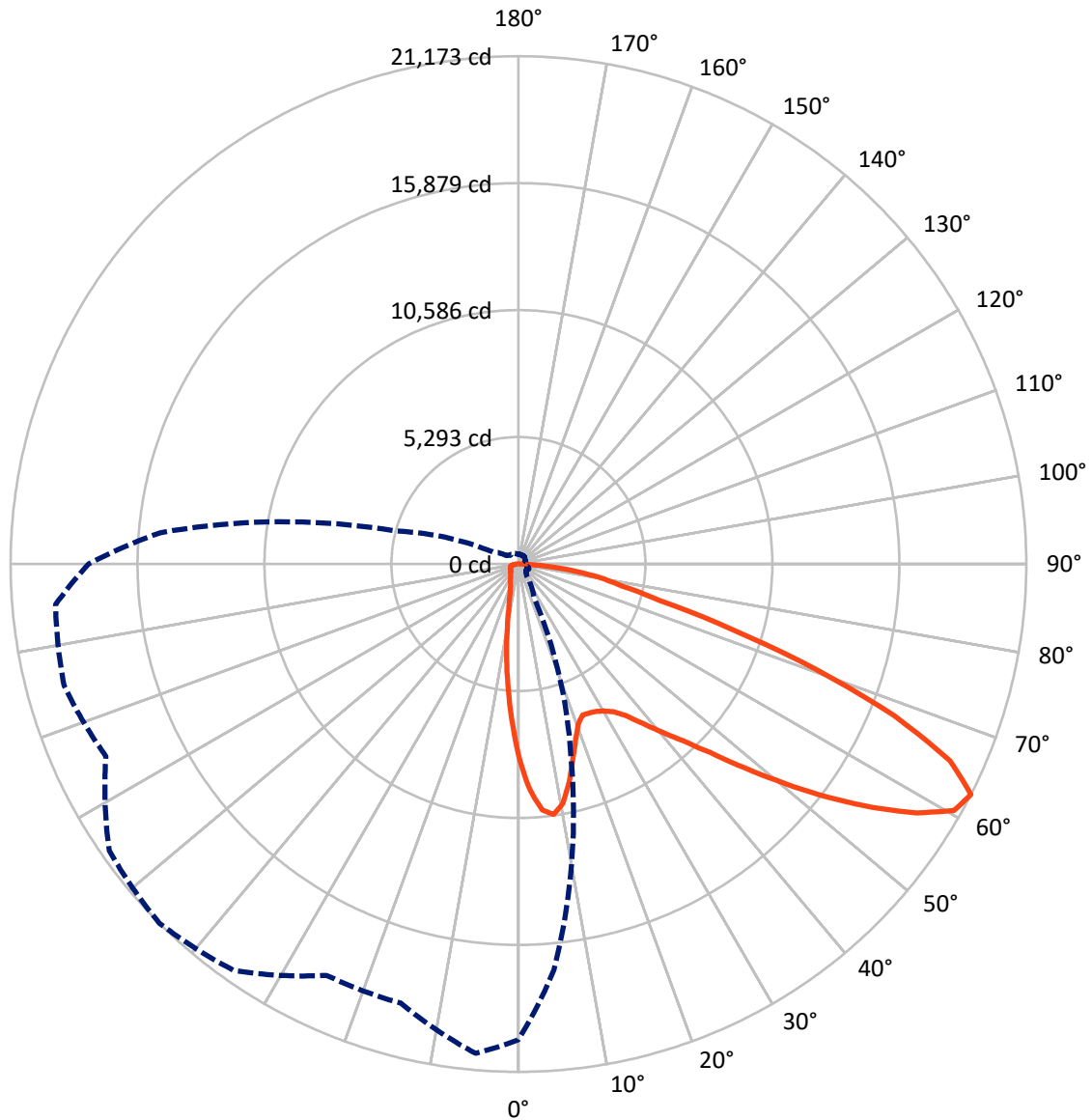
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	4032.8	0.0	4032.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20336.3	0.0	20336.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	24369.0	0.0	24369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.3	2.5
10°-20°	1099.0	4.5
20°-30°	1602.4	6.6
30°-40°	2467.9	10.1
40°-50°	3632.1	14.9
50°-60°	5327.5	21.9
60°-70°	5955.4	24.4
70°-80°	2915.7	12.0
80°-90°	769.8	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°	24369.0	100.0
0°-180°	24369.0	100.0

Coefficient of Utilization



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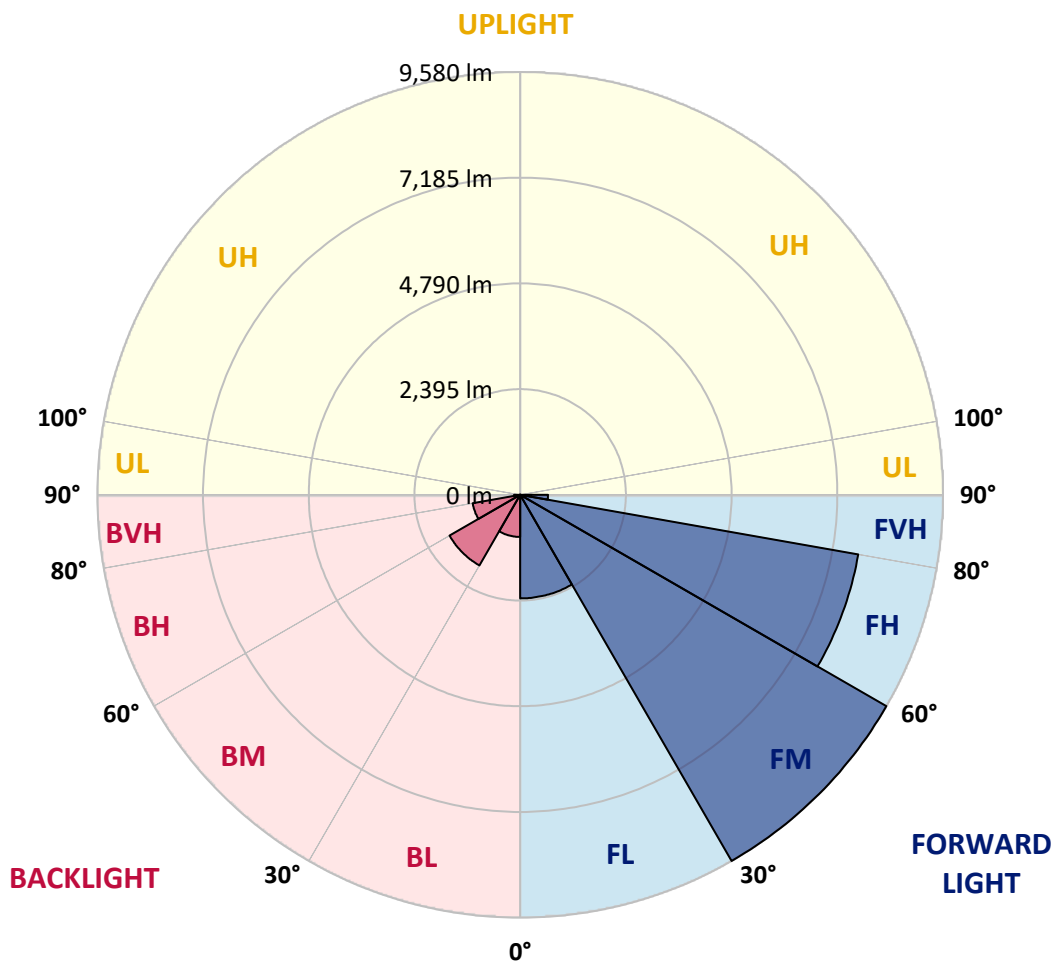
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2346.7	9.6			
FM	(30°-60°)	9579.7	39.3			
FH	(60°-80°)	7777.8	31.9			G4/12000
FVH	(80°-90°)	632.2	2.6			G4/750
BL	(0°-30°)	954.1	3.9	B2/1000		
BM	(30°-60°)	1847.8	7.6	B2/2500		
BH	(60°-80°)	1093.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	137.6	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°	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3
2.5°	8554.5	8380.5	8091.0	7789.7	7606.4	7391.8	7224.3	7077.1	6782.3	6724.7	6777.0
5°	8044.3	7694.8	7149.3	6600.2	6234.4	5841.8	5536.5	5291.5	4917.6	4851.9	4931.0
7.5°	7226.0	6807.8	6087.2	5386.4	4869.3	4379.0	4049.7	3787.0	3495.0	3369.2	3377.0
10°	6519.9	6048.3	5196.2	4434.2	4010.8	3679.9	3402.5	3133.2	2837.2	2642.9	2589.4
12.5°	6124.5	5582.3	4600.1	3919.6	3527.0	3179.0	2880.2	2592.2	2275.9	2077.6	2021.6
15°	6056.4	5466.7	4376.6	3590.3	3098.3	2657.9	2305.5	1983.9	1658.3	1497.7	1464.0
17.5°	6352.4	5673.1	4304.0	3296.7	2695.2	2151.4	1718.7	1359.8	1094.6	1014.3	1007.4
20°	6920.2	6069.8	4294.7	3020.9	2297.4	1659.9	1197.6	936.4	820.0	796.9	798.5
22.5°	7717.5	6684.6	4409.9	2813.2	1931.6	1237.7	900.3	783.5	738.1	716.6	716.6
25°	8748.8	7531.3	4675.1	2662.0	1614.1	988.7	794.5	724.7	681.7	667.1	670.0
27.5°	9748.4	8355.0	4983.3	2542.7	1406.4	897.5	752.7	689.8	652.5	637.5	644.4
30°	10527.9	9086.6	5240.4	2380.5	1300.6	871.9	767.7	703.2	649.7	627.0	628.2
32.5°	11173.5	9726.9	5456.2	2263.7	1206.9	747.4	661.8	633.5	627.0	600.2	586.8
35°	11998.8	10424.9	5600.9	2266.6	1162.7	667.1	589.3	539.8	503.7	472.9	472.9
37.5°	12966.0	11225.8	5755.0	2297.4	1146.9	620.1	564.1	514.2	481.0	451.4	446.1
40°	13922.3	12010.9	5895.8	2327.0	1137.1	592.1	543.8	498.4	467.6	438.0	429.9
42.5°	14735.8	12656.6	6021.5	2341.6	1105.1	589.3	529.2	487.5	458.3	425.8	418.1
45°	15337.2	13197.6	6156.9	2364.3	1073.1	600.2	529.2	486.2	450.2	419.3	411.2
47.5°	15874.1	13832.6	6383.2	2364.3	1034.1	579.9	546.7	487.5	448.9	416.5	410.0
50°	16593.6	14703.3	6811.9	2309.6	979.4	558.4	575.9	482.2	436.8	411.2	403.1
52.5°	17584.7	15819.4	7492.4	2214.3	895.0	517.1	571.8	479.8	424.6	397.8	388.5
55°	18757.1	17014.1	8234.5	2103.1	768.9	487.5	551.9	472.9	411.2	381.6	372.3
57.5°	19672.0	17836.6	8756.9	1931.6	659.0	471.6	489.1	466.4	395.0	364.2	356.5
60°	20036.2	17804.5	8900.4	1702.5	605.5	458.3	427.4	522.3	381.6	350.8	341.5
62.5°	19839.5	16982.1	8498.5	1541.9	593.3	440.8	400.7	483.4	371.1	341.5	328.1
65°	18929.9	15524.6	7433.6	1498.9	628.2	423.4	383.2	379.2	356.5	328.1	314.7
67.5°	16948.4	13346.4	5951.7	1502.9	672.4	405.9	365.8	347.1	336.2	313.5	301.3
70°	13804.7	10552.2	4436.6	1513.9	695.1	385.7	347.1	326.9	314.7	292.0	283.9
72.5°	10150.3	8132.7	3223.2	1444.1	699.2	363.0	321.6	304.2	292.0	268.1	261.2
75°	6944.5	6221.0	2235.8	1196.3	609.5	330.9	293.2	277.4	269.3	239.7	235.6
77.5°	5072.9	4669.8	1430.8	888.1	470.0	290.8	258.7	246.6	241.3	208.9	203.6
80°	4071.2	3694.5	895.0	608.3	344.3	243.7	217.0	210.5	204.8	172.8	168.7
82.5°	2823.8	2474.2	574.7	395.0	258.7	189.0	171.5	168.7	160.6	131.4	127.3
85°	1489.6	1343.6	364.2	269.3	187.4	129.8	119.2	119.2	115.2	87.2	84.4
87.5°	190.2	309.4	184.9	140.7	103.0	57.6	57.6	56.4	60.4	49.5	43.0
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°	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3
2.5°	6653.7	6718.2	6656.6	6660.6	6728.8	6932.3	7024.8	7101.0	7183.0	7236.5	7260.4
5°	4822.7	4972.8	5023.5	5130.5	5288.7	5548.6	5651.6	5726.7	5776.5	5805.7	5817.9
7.5°	3298.3	3389.1	3490.9	3663.7	4008.0	4160.9	4229.0	4211.6	4155.6	4135.3	4115.4
10°	2486.4	2450.3	2431.2	2526.5	2805.1	2959.2	3007.5	2960.5	2929.6	2936.5	2969.8
12.5°	1926.3	1863.5	1787.2	1776.3	1960.0	2097.9	2128.7	2131.1	2187.5	2237.0	2310.8
15°	1404.0	1397.1	1359.8	1337.1	1441.3	1554.0	1567.4	1591.3	1642.4	1678.5	1742.6
17.5°	989.9	1026.0	1055.6	1070.2	1149.3	1229.6	1215.0	1202.8	1193.5	1193.5	1224.3
20°	798.5	822.4	860.2	902.7	983.4	1039.4	1003.3	955.1	920.2	909.6	913.7
22.5°	719.4	738.1	759.6	796.9	869.5	908.4	869.5	834.6	799.7	787.6	783.5
25°	679.3	703.2	723.5	751.5	805.0	831.8	794.5	768.9	747.4	732.8	721.9
27.5°	656.6	677.7	683.3	696.7	742.1	766.1	747.4	736.9	723.5	710.1	696.7
30°	632.2	628.2	618.9	620.1	656.6	680.5	679.3	681.7	680.5	676.4	674.0
32.5°	577.5	569.4	561.3	569.4	602.6	624.1	625.8	631.0	631.0	629.8	640.4
35°	481.0	495.6	504.9	529.2	569.4	588.0	579.9	566.5	542.6	527.6	526.4
37.5°	444.9	447.3	463.5	496.8	541.4	558.4	546.7	515.8	499.6	496.8	500.8
40°	427.4	429.9	439.2	470.0	514.2	531.7	521.1	498.4	483.4	482.2	489.1
42.5°	415.3	418.1	423.4	444.9	481.0	502.5	503.7	487.5	470.0	471.6	478.1
45°	408.4	410.0	408.4	419.3	452.6	478.1	489.1	478.1	463.5	466.4	474.1
47.5°	407.2	403.1	397.8	400.7	435.6	460.7	474.1	470.0	463.5	466.4	472.9
50°	401.9	392.6	385.7	384.5	419.3	446.1	458.3	458.3	460.7	466.4	472.9
52.5°	385.7	375.1	375.1	371.1	408.4	433.9	442.0	443.3	447.3	456.6	466.4
55°	365.8	361.7	365.8	358.9	400.7	424.6	428.7	431.5	433.9	442.0	455.4
57.5°	348.4	343.1	352.4	349.6	393.8	415.3	415.3	420.5	420.5	431.5	442.0
60°	339.0	328.1	332.1	335.0	384.5	407.2	404.7	410.0	412.4	422.2	429.9
62.5°	326.9	317.5	317.5	324.0	373.9	395.0	393.8	397.8	408.4	411.2	419.3
65°	312.3	308.2	304.2	312.3	363.0	381.6	383.2	388.5	397.8	400.7	407.2
67.5°	297.3	298.9	290.8	298.9	353.6	368.2	368.2	379.2	383.2	388.5	395.0
70°	281.4	282.7	275.8	285.5	347.1	353.6	352.4	367.0	369.9	373.9	380.4
72.5°	261.2	261.2	258.7	272.1	336.2	339.0	336.2	348.4	349.6	353.6	356.5
75°	239.7	239.7	237.2	255.9	329.7	322.8	314.7	324.0	326.9	329.7	329.7
77.5°	211.7	214.5	214.5	237.2	306.6	316.3	289.2	294.8	298.9	300.1	296.0
80°	176.8	183.7	186.1	215.7	257.1	292.0	258.7	262.4	264.0	264.0	258.7
82.5°	135.5	147.2	154.1	186.1	197.1	244.9	225.1	229.1	225.1	217.0	214.5
85°	93.7	109.9	118.0	141.9	148.8	189.0	187.4	187.4	179.7	168.7	167.5
87.5°	51.1	60.4	65.7	84.4	101.8	127.3	137.9	133.8	127.3	120.4	122.1
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°	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3
2.5°	7386.5	7568.6	7859.4	8081.6	8305.5	8521.3	8754.4	8932.5	9083.7	9142.9	9322.2
5°	5940.0	6167.5	6442.0	6937.6	7288.8	7675.7	8123.4	8715.5	8943.0	9258.1	9773.6
7.5°	4199.8	4405.8	4847.9	5248.5	5745.7	6293.6	6897.5	7714.6	8013.5	8518.4	9358.3
10°	3136.1	3375.7	3730.6	4068.4	4506.4	5066.4	5760.3	6674.0	7037.0	7584.9	8552.1
12.5°	2526.5	2809.2	3185.5	3503.1	3842.1	4237.1	4911.1	5912.8	6399.5	6878.8	7856.6
15°	1940.9	2237.0	2587.0	2990.1	3363.6	3789.8	4495.8	5591.6	6151.3	6651.3	7485.5
17.5°	1343.6	1596.6	2037.4	2458.0	2936.5	3481.6	4380.7	5659.7	6328.1	6904.4	7550.0
20°	952.6	1097.0	1458.7	1946.6	2542.7	3226.9	4359.2	6018.7	6888.1	7545.9	7962.4
22.5°	800.9	854.5	1065.0	1512.3	2200.9	3036.7	4434.2	6522.3	7643.7	8483.5	8620.2
25°	730.0	762.4	871.9	1187.0	1896.7	2898.8	4687.3	7272.6	8578.8	9421.6	9397.2
27.5°	691.0	724.7	796.9	1002.1	1668.0	2813.2	4940.3	8162.3	9647.8	10439.5	10139.4
30°	679.3	724.7	800.9	944.5	1504.6	2677.8	5148.0	8943.0	10470.3	11126.9	10477.2
32.5°	670.0	676.4	711.3	814.3	1348.8	2519.6	5288.7	9643.8	11275.3	11780.6	10963.4
35°	541.4	574.7	631.0	730.0	1258.0	2424.7	5288.7	10248.1	12068.5	12440.8	11427.0
37.5°	521.1	550.7	600.2	684.6	1206.9	2377.7	5182.8	10830.8	12878.8	13189.9	11808.6
40°	510.6	534.5	581.5	649.7	1185.4	2324.2	5028.7	11345.0	13670.4	13939.7	12165.1
42.5°	502.5	524.0	568.2	628.2	1157.4	2265.4	4904.2	11757.5	14357.8	14580.1	12505.3
45°	498.4	521.1	569.4	639.1	1101.0	2187.5	4862.9	12203.6	14923.1	15114.6	12873.5
47.5°	498.4	525.2	575.9	661.8	1034.1	2107.2	4992.6	12792.0	15457.6	15551.3	13307.5
50°	494.4	524.0	594.9	639.1	936.4	2005.4	5298.0	13532.5	16036.4	16046.9	13857.0
52.5°	486.2	521.1	640.4	625.8	823.7	1871.6	5710.8	14483.9	16892.5	16956.5	14716.7
55°	476.9	517.1	628.2	594.9	731.6	1712.2	6048.3	15639.7	18095.3	18273.3	15981.6
57.5°	464.8	511.8	608.3	551.9	671.2	1507.0	6170.3	16486.5	18935.2	19382.5	17406.7
60°	454.2	507.7	549.1	526.4	633.5	1334.2	5934.3	16319.0	18877.6	19842.0	18669.9
62.5°	443.3	511.8	500.8	510.6	616.0	1223.1	5318.3	14977.9	17922.5	19367.9	19606.3
65°	431.5	475.7	472.9	496.8	612.4	1178.9	4408.6	12967.2	16076.5	17869.0	19827.4
67.5°	415.3	439.2	452.6	479.8	625.8	1140.0	3557.8	10696.6	13511.0	15622.3	18675.2
70°	397.8	418.1	432.7	458.3	617.6	1122.5	2959.2	8435.3	10720.9	12803.8	16402.2
72.5°	375.1	392.6	405.9	429.9	609.5	1113.2	2499.8	6793.2	8004.2	9511.2	13335.9
75°	348.4	364.2	373.9	397.8	584.0	1019.5	1965.3	5748.2	5989.5	6616.4	10621.6
77.5°	317.5	329.7	337.4	364.2	517.1	848.0	1421.4	4434.2	4651.2	4803.6	8143.3
80°	281.4	293.2	297.3	322.8	428.7	663.1	927.1	3275.2	3478.7	3513.6	5318.3
82.5°	239.7	251.8	251.8	275.8	350.8	476.9	608.3	2243.9	2284.0	2402.0	3759.0
85°	193.0	202.4	202.4	214.5	272.1	356.5	418.1	1126.6	1114.4	1272.6	3256.5
87.5°	137.9	144.8	151.3	154.1	194.3	235.6	251.8	343.1	226.3	260.0	2091.0
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-SLR-7030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3
2.5°	9457.7	9533.9	9456.0	9400.1	9157.5	8958.0	8691.2	8554.5
5°	10166.1	10360.4	10294.7	10059.1	9552.5	8983.2	8336.3	8044.3
7.5°	10080.6	10531.9	10542.5	10102.1	9355.9	8517.2	7641.2	7226.0
10°	9413.4	9990.5	10155.6	9728.1	8936.5	7998.9	6994.0	6519.9
12.5°	8668.5	9233.8	9359.9	9212.3	8550.9	7608.8	6589.7	6124.5
15°	8058.9	8312.4	8462.0	8591.0	8219.9	7453.5	6566.5	6056.4
17.5°	7687.9	7659.9	7702.9	7926.3	7989.2	7631.5	6914.9	6352.4
20°	7554.0	7124.2	7113.2	7421.4	7880.9	8056.5	7595.4	6920.2
22.5°	7627.8	6931.1	6842.7	7208.5	7938.5	8668.5	8487.6	7717.5
25°	7882.1	6947.3	6876.0	7230.0	8147.3	9321.0	9450.8	8748.8
27.5°	8282.8	7049.1	6955.0	7318.4	8424.7	9868.9	10399.3	9748.4
30°	8663.2	7226.0	7109.2	7492.4	8677.8	10085.8	10980.9	10527.9
32.5°	9125.5	7556.9	7351.7	7812.4	8991.3	10431.4	11499.1	11173.5
35°	9578.1	8028.1	7773.8	8306.7	9340.9	10861.6	12091.2	11998.8
37.5°	10075.3	8644.5	8434.1	8945.9	9819.4	11267.2	12846.8	12966.0
40°	10605.7	9461.7	9212.3	9878.2	10561.5	11776.5	13636.0	13922.3
42.5°	11140.2	10368.5	10071.2	10746.1	11377.1	12278.6	14310.8	14735.8
45°	11752.2	11353.2	11212.4	11942.4	12161.0	12757.1	14809.2	15337.2
47.5°	12465.2	12470.4	12696.7	12988.7	12951.4	13298.1	15310.4	15874.1
50°	13296.9	13864.7	14364.7	14558.6	13765.7	13879.7	16005.5	16593.6
52.5°	14296.2	15532.7	16151.5	16024.2	14643.3	14589.4	17106.6	17584.7
55°	15546.1	17298.4	17913.2	17822.0	15651.9	15556.6	18478.5	18757.1
57.5°	16992.6	19009.0	19574.3	19164.3	16862.9	16617.9	19613.2	19672.0
60°	18264.0	20364.7	20860.3	20406.1	18084.8	17746.9	20321.7	20036.2
62.5°	18971.3	20824.2	21172.5	20683.5	18921.8	18949.8	20477.0	19839.5
65°	18655.3	19662.7	19775.1	19734.9	18706.0	19647.7	19918.6	18929.9
67.5°	16924.5	16726.2	16915.2	17176.3	16857.6	18728.8	18371.1	16948.4
70°	13875.6	12786.3	13163.1	13338.3	13483.1	16116.7	15945.1	13804.7
72.5°	10456.9	8958.0	9255.3	9219.2	9888.7	12927.1	12400.7	10150.3
75°	7409.3	6073.8	6111.1	6096.5	6900.3	10113.8	8979.5	6944.5
77.5°	5184.0	4400.5	4420.8	4503.5	4639.0	7627.8	6415.3	5072.9
80°	3564.7	3339.6	3450.8	3457.7	3215.1	5124.0	4739.6	4071.2
82.5°	2655.1	2321.3	2294.6	2333.5	2519.6	4151.5	3642.2	2823.8
85°	2174.1	1374.4	1105.1	1385.3	2232.9	4111.4	2419.5	1489.6
87.5°	1224.3	652.5	294.8	546.7	891.0	2722.0	699.2	190.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)