

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: P299498

Luminaire Tested: **GLNA-AF-08-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299498
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-08-LED-E1-SLR-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 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: 26626.3 lumens
Efficiency: N/A
Efficacy: 103.6 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

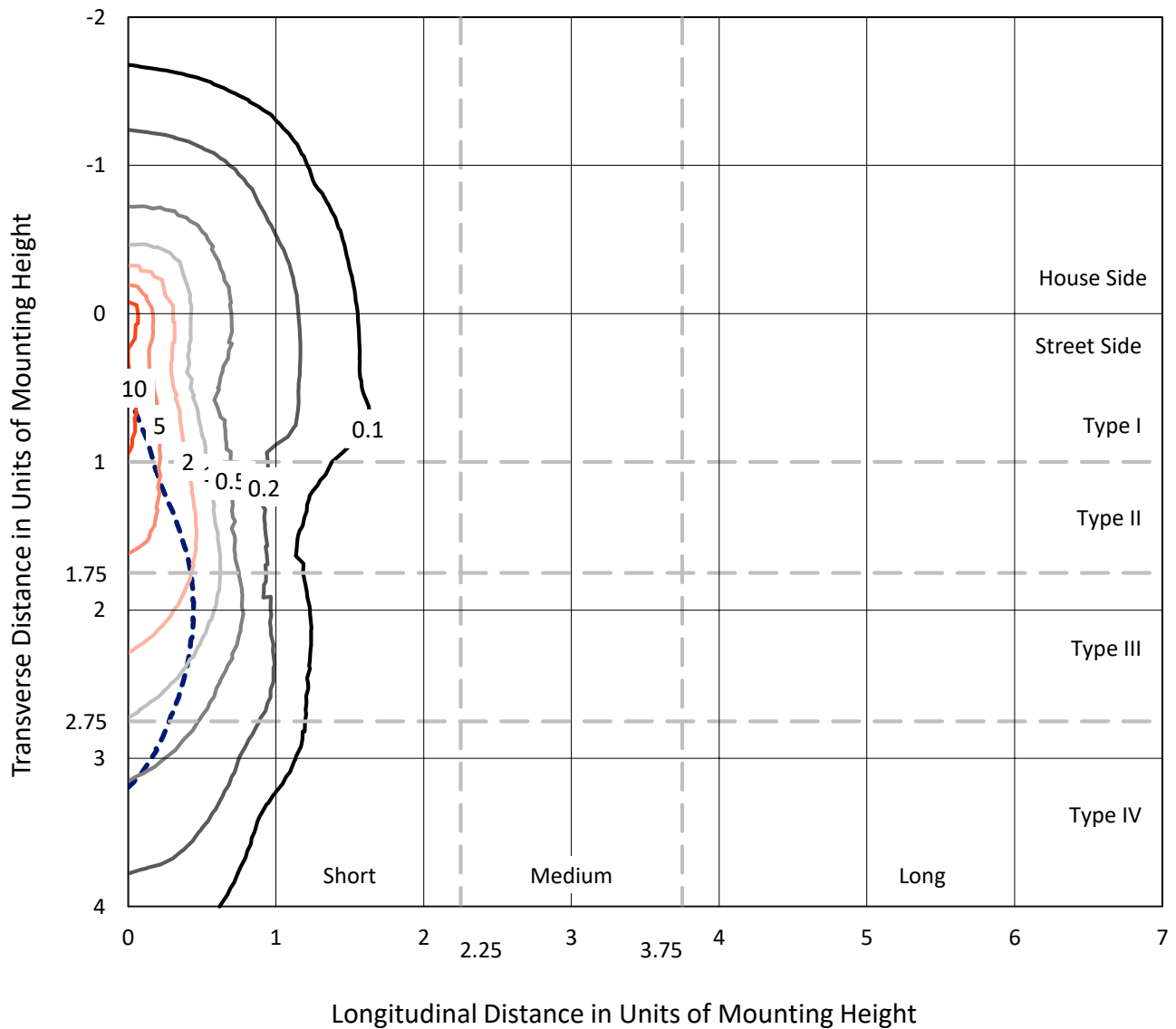
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

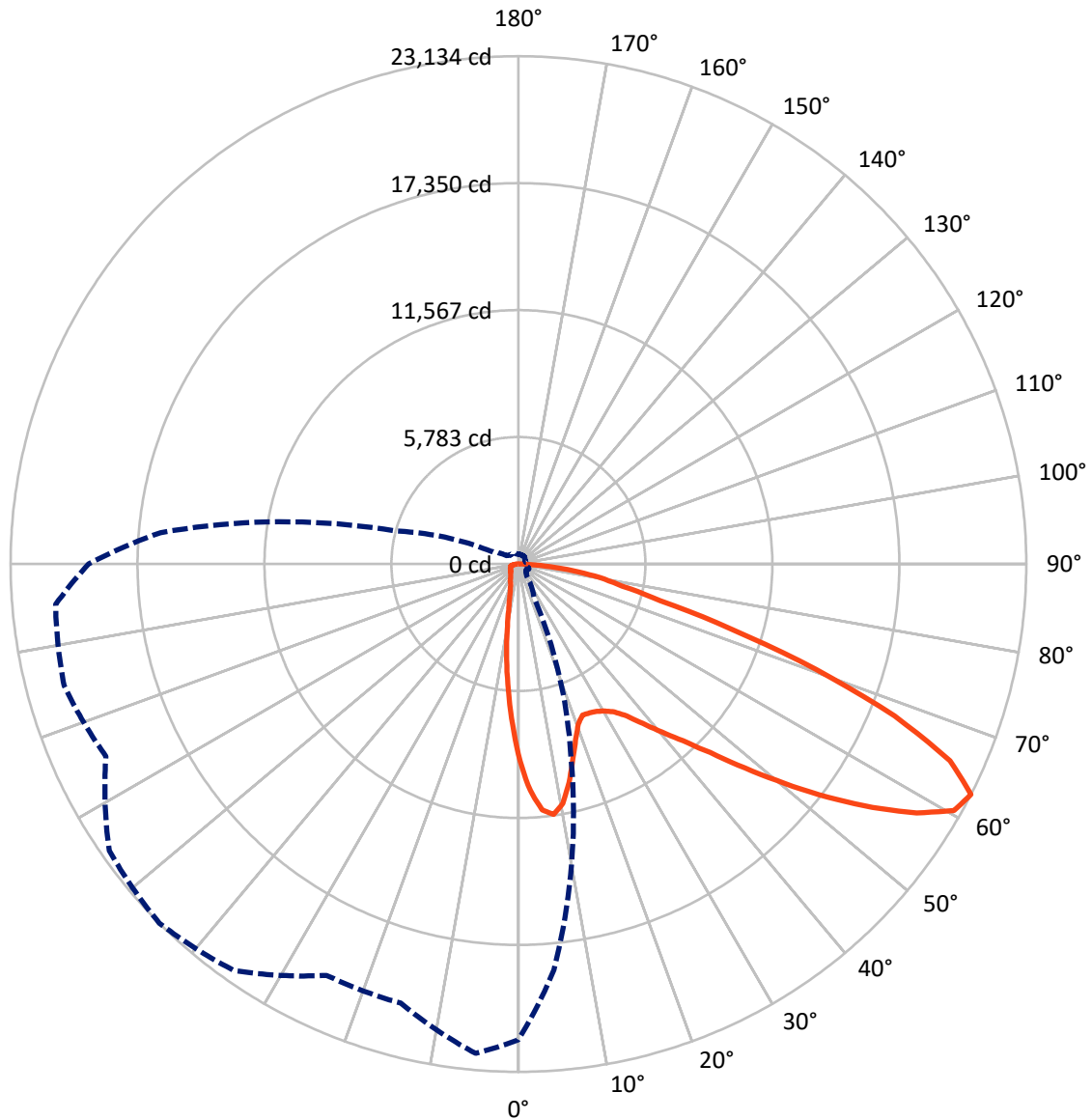
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	4406.3	0.0	4406.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	22220.0	0.0	22220.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	26626.3	0.0	26626.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.9	2.5
10°-20°	1200.8	4.5
20°-30°	1750.8	6.6
30°-40°	2696.5	10.1
40°-50°	3968.5	14.9
50°-60°	5821.0	21.9
60°-70°	6507.0	24.4
70°-80°	3185.8	12.0
80°-90°	841.1	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°	26626.3	100.0
0°-180°	26626.3	100.0



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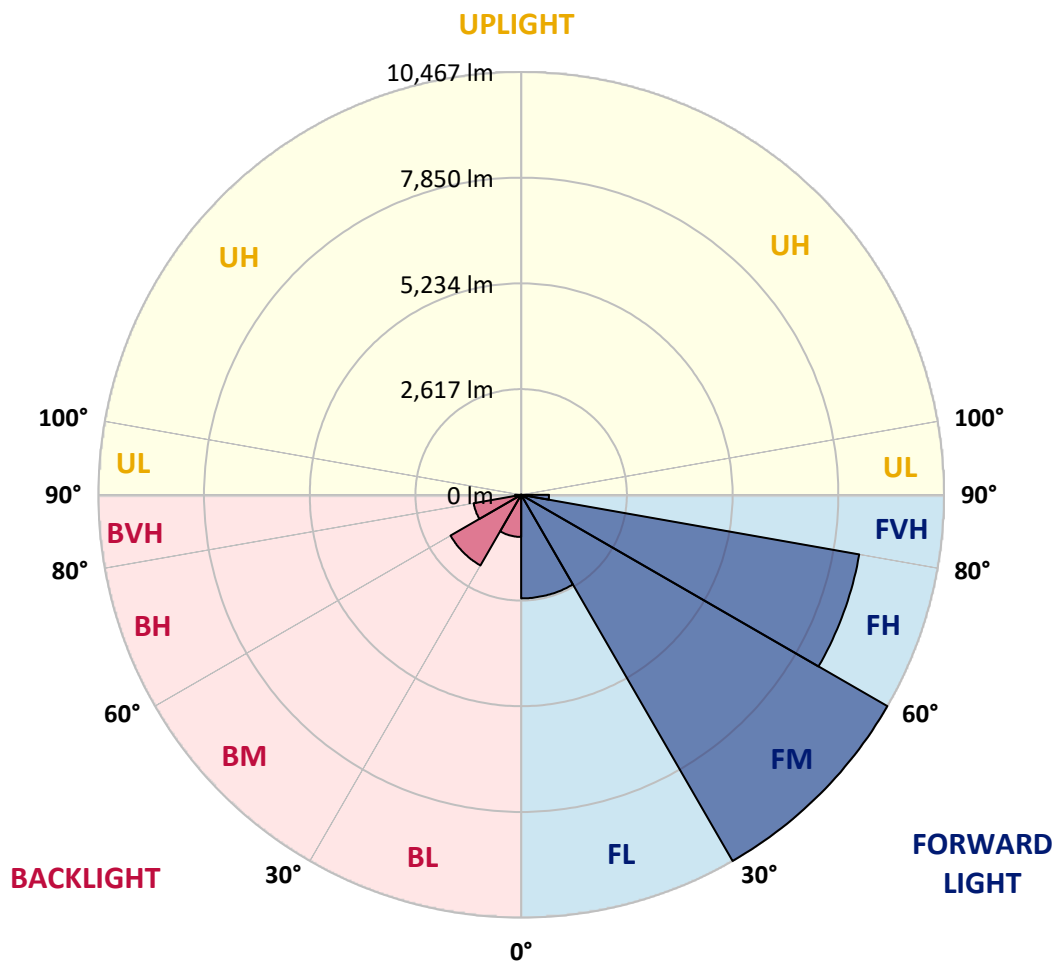
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2564.0	9.6			
FM	(30°-60°)	10467.0	39.3			
FH	(60°-80°)	8498.2	31.9			G4/12000
FVH	(80°-90°)	690.8	2.6			G4/750
BL	(0°-30°)	1042.4	3.9	B3/2500		
BM	(30°-60°)	2018.9	7.6	B2/2500		
BH	(60°-80°)	1194.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	150.4	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°	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0
2.5°	9346.9	9156.8	8840.4	8511.2	8310.9	8076.5	7893.5	7732.7	7410.5	7347.6	7404.8
5°	8789.5	8407.5	7811.5	7211.6	6811.9	6383.0	6049.3	5781.7	5373.1	5301.3	5387.7
7.5°	7895.3	7438.4	6651.0	5885.3	5320.4	4784.7	4424.9	4137.7	3818.7	3681.3	3689.8
10°	7123.8	6608.5	5677.5	4844.9	4382.3	4020.8	3717.7	3423.4	3100.0	2887.7	2829.2
12.5°	6691.8	6099.4	5026.2	4282.6	3853.7	3473.5	3146.9	2832.3	2486.7	2270.0	2208.9
15°	6617.4	5973.1	4782.0	3922.8	3385.3	2904.1	2519.1	2167.7	1811.9	1636.4	1599.6
17.5°	6940.8	6198.6	4702.7	3602.0	2944.9	2350.7	1877.9	1485.7	1195.9	1108.2	1100.7
20°	7561.2	6632.0	4692.5	3300.7	2510.2	1813.6	1308.5	1023.1	896.0	870.7	872.5
22.5°	8432.3	7303.7	4818.3	3073.8	2110.5	1352.4	983.7	856.1	806.5	783.0	783.0
25°	9559.1	8228.9	5108.1	2908.6	1763.6	1080.3	868.0	791.8	744.9	728.9	732.0
27.5°	10651.4	9128.9	5444.9	2778.3	1536.7	980.6	822.4	753.7	713.0	696.6	704.1
30°	11503.1	9928.3	5725.8	2601.0	1421.0	952.7	838.8	768.3	709.9	685.0	686.4
32.5°	12208.5	10627.9	5961.6	2473.4	1318.7	816.6	723.2	692.1	685.0	655.8	641.2
35°	13110.2	11390.5	6119.8	2476.5	1270.4	728.9	643.8	589.8	550.3	516.7	516.7
37.5°	14167.0	12265.6	6288.1	2510.2	1253.1	677.5	616.4	561.9	525.5	493.2	487.4
40°	15211.9	13123.5	6441.9	2542.5	1242.5	646.9	594.2	544.6	510.9	478.6	469.7
42.5°	16100.7	13828.9	6579.3	2558.5	1207.5	643.8	578.3	532.6	500.7	465.3	456.8
45°	16757.9	14420.0	6727.3	2583.3	1172.5	655.8	578.3	531.3	491.8	458.2	449.3
47.5°	17344.5	15113.9	6974.5	2583.3	1129.9	633.6	597.3	532.6	490.5	455.1	448.0
50°	18130.6	16065.3	7442.9	2523.5	1070.1	610.2	629.2	526.9	477.2	449.3	440.4
52.5°	19213.6	17284.7	8186.4	2419.4	977.9	565.0	624.8	524.2	463.9	434.7	424.5
55°	20494.6	18590.1	8997.3	2298.0	840.1	532.6	603.1	516.7	449.3	417.0	406.8
57.5°	21494.2	19488.7	9568.0	2110.5	720.0	515.3	534.4	509.6	431.6	397.9	389.5
60°	21892.1	19453.7	9724.9	1860.2	661.6	500.7	467.0	570.7	417.0	383.3	373.1
62.5°	21677.2	18555.1	9285.8	1684.7	648.3	481.7	437.8	528.2	405.4	373.1	358.5
65°	20683.3	16962.6	8122.2	1637.7	686.4	462.6	418.7	414.3	389.5	358.5	343.9
67.5°	18518.3	14582.7	6503.0	1642.2	734.7	443.6	399.7	379.3	367.3	342.5	329.2
70°	15083.4	11529.6	4847.6	1654.1	759.5	421.4	379.3	357.1	343.9	319.0	310.2
72.5°	11090.5	8886.1	3521.8	1577.9	763.9	396.6	351.4	332.3	319.0	292.9	285.4
75°	7587.8	6797.3	2442.8	1307.2	666.0	361.6	320.4	303.1	294.2	261.9	257.4
77.5°	5542.8	5102.4	1563.3	970.4	513.6	317.7	282.7	269.4	263.6	228.2	222.4
80°	4448.4	4036.7	977.9	664.7	376.2	266.3	237.1	230.0	223.8	188.8	184.3
82.5°	3085.4	2703.4	627.9	431.6	282.7	206.5	187.4	184.3	175.5	143.6	139.1
85°	1627.5	1468.0	397.9	294.2	204.7	141.8	130.3	130.3	125.8	95.3	92.2
87.5°	207.8	338.1	202.1	153.8	112.5	62.9	62.9	61.6	66.0	54.1	47.0
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°	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0
2.5°	7270.1	7340.5	7273.2	7277.6	7352.0	7574.5	7675.5	7758.8	7848.3	7906.8	7932.9
5°	5269.4	5433.4	5488.8	5605.7	5778.6	6062.6	6175.1	6257.1	6311.6	6343.5	6356.8
7.5°	3603.8	3703.0	3814.3	4003.0	4379.2	4546.3	4620.7	4601.7	4540.5	4518.4	4496.7
10°	2716.7	2677.3	2656.4	2760.6	3065.0	3233.4	3286.1	3234.7	3201.0	3208.5	3244.9
12.5°	2104.8	2036.1	1952.8	1940.8	2141.5	2292.2	2325.9	2328.5	2390.1	2444.2	2524.8
15°	1534.0	1526.5	1485.7	1460.9	1574.8	1698.0	1712.6	1738.8	1794.6	1834.0	1904.0
17.5°	1081.6	1121.1	1153.4	1169.4	1255.8	1343.5	1327.5	1314.3	1304.1	1304.1	1337.7
20°	872.5	898.6	939.8	986.4	1074.5	1135.7	1096.2	1043.5	1005.4	993.9	998.3
22.5°	786.1	806.5	829.9	870.7	950.0	992.6	950.0	911.9	873.8	860.5	856.1
25°	742.2	768.3	790.5	821.1	879.6	908.8	868.0	840.1	816.6	800.7	788.7
27.5°	717.4	740.4	746.6	761.3	810.9	837.0	816.6	805.1	790.5	775.9	761.3
30°	690.8	686.4	676.2	677.5	717.4	743.5	742.2	744.9	743.5	739.1	736.4
32.5°	631.0	622.1	613.3	622.1	658.5	681.9	683.7	689.5	689.5	688.1	699.7
35°	525.5	541.5	551.7	578.3	622.1	642.5	633.6	619.0	592.9	576.5	575.2
37.5°	486.1	488.7	506.5	542.8	591.5	610.2	597.3	563.6	545.9	542.8	547.2
40°	467.0	469.7	479.9	513.6	561.9	580.9	569.4	544.6	528.2	526.9	534.4
42.5°	453.7	456.8	462.6	486.1	525.5	549.0	550.3	532.6	513.6	515.3	522.4
45°	446.2	448.0	446.2	458.2	494.5	522.4	534.4	522.4	506.5	509.6	518.0
47.5°	444.9	440.4	434.7	437.8	475.9	503.4	518.0	513.6	506.5	509.6	516.7
50°	439.1	428.9	421.4	420.1	458.2	487.4	500.7	500.7	503.4	509.6	516.7
52.5°	421.4	409.9	409.9	405.4	446.2	474.1	483.0	484.3	488.7	498.9	509.6
55°	399.7	395.3	399.7	392.1	437.8	463.9	468.4	471.5	474.1	483.0	497.6
57.5°	380.6	374.9	385.1	382.0	430.3	453.7	453.7	459.5	459.5	471.5	483.0
60°	370.4	358.5	362.9	366.0	420.1	444.9	442.2	448.0	450.6	461.3	469.7
62.5°	357.1	347.0	347.0	354.0	408.5	431.6	430.3	434.7	446.2	449.3	458.2
65°	341.2	336.8	332.3	341.2	396.6	417.0	418.7	424.5	434.7	437.8	444.9
67.5°	324.8	326.6	317.7	326.6	386.4	402.3	402.3	414.3	418.7	424.5	431.6
70°	307.5	308.8	301.3	311.9	379.3	386.4	385.1	401.0	404.1	408.5	415.6
72.5°	285.4	285.4	282.7	297.3	367.3	370.4	367.3	380.6	382.0	386.4	389.5
75°	261.9	261.9	259.2	279.6	360.2	352.7	343.9	354.0	357.1	360.2	360.2
77.5°	231.3	234.4	234.4	259.2	335.0	345.6	315.9	322.1	326.6	327.9	323.5
80°	193.2	200.7	203.4	235.7	280.9	319.0	282.7	286.7	288.5	288.5	282.7
82.5°	148.0	160.8	168.4	203.4	215.4	267.6	245.9	250.4	245.9	237.1	234.4
85°	102.4	120.1	128.9	155.1	162.6	206.5	204.7	204.7	196.3	184.3	183.0
87.5°	55.8	66.0	71.8	92.2	111.2	139.1	150.7	146.2	139.1	131.6	133.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0
2.5°	8070.8	8269.7	8587.4	8830.2	9074.8	9310.6	9565.4	9759.9	9925.2	9989.8	10185.7
5°	6490.2	6738.8	7038.8	7580.2	7964.0	8386.7	8875.9	9522.8	9771.4	10115.7	10678.9
7.5°	4588.8	4813.9	5296.9	5734.7	6277.9	6876.6	7536.4	8429.2	8755.8	9307.5	10225.1
10°	3426.5	3688.4	4076.1	4445.2	4923.8	5535.7	6293.9	7292.2	7688.8	8287.4	9344.2
12.5°	2760.6	3069.4	3480.6	3827.6	4198.0	4629.6	5366.0	6460.5	6992.2	7516.0	8584.3
15°	2120.7	2444.2	2826.6	3267.0	3675.1	4140.8	4912.3	6109.6	6721.0	7267.4	8178.9
17.5°	1468.0	1744.5	2226.2	2685.7	3208.5	3804.1	4786.4	6184.0	6914.2	7543.9	8249.3
20°	1040.9	1198.6	1593.9	2126.9	2778.3	3525.8	4763.0	6576.2	7526.2	8244.9	8700.0
22.5°	875.1	933.6	1163.6	1652.3	2404.7	3318.0	4844.9	7126.5	8351.7	9269.4	9418.7
25°	797.6	833.0	952.7	1297.0	2072.4	3167.3	5121.4	7946.2	9373.5	10294.3	10267.7
27.5°	755.1	791.8	870.7	1094.9	1822.5	3073.8	5397.9	8918.4	10541.5	11406.5	11078.6
30°	742.2	791.8	875.1	1032.0	1643.9	2925.8	5624.8	9771.4	11440.1	12157.5	11447.7
32.5°	732.0	739.1	777.2	889.8	1473.8	2753.0	5778.6	10537.1	12319.7	12871.8	11979.0
35°	591.5	627.9	689.5	797.6	1374.5	2649.3	5778.6	11197.3	13186.4	13593.2	12485.4
37.5°	569.4	601.7	655.8	748.0	1318.7	2597.9	5662.9	11834.1	14071.7	14411.6	12902.4
40°	557.9	584.0	635.4	709.9	1295.2	2539.4	5494.5	12395.9	14936.7	15230.9	13291.9
42.5°	549.0	572.5	620.8	686.4	1264.6	2475.2	5358.5	12846.6	15687.8	15930.6	13663.6
45°	544.6	569.4	622.1	698.3	1203.0	2390.1	5313.3	13334.0	16305.5	16514.6	14066.0
47.5°	544.6	573.8	629.2	723.2	1129.9	2302.4	5455.1	13976.9	16889.5	16991.8	14540.1
50°	540.1	572.5	650.0	698.3	1023.1	2191.2	5788.8	14786.0	17521.8	17533.3	15140.5
52.5°	531.3	569.4	699.7	683.7	900.0	2044.9	6239.8	15825.6	18457.2	18527.2	16079.9
55°	521.1	565.0	686.4	650.0	799.4	1870.8	6608.5	17088.4	19771.4	19966.0	17462.0
57.5°	507.8	559.2	664.7	603.1	733.3	1646.6	6741.9	18013.6	20689.1	21177.9	19019.0
60°	496.3	554.8	600.0	575.2	692.1	1457.8	6484.0	17830.6	20626.2	21679.9	20399.3
62.5°	484.3	559.2	547.2	557.9	673.1	1336.4	5810.9	16365.3	19582.7	21161.9	21422.5
65°	471.5	519.8	516.7	542.8	669.1	1288.1	4817.0	14168.3	17565.6	19524.2	21663.9
67.5°	453.7	479.9	494.5	524.2	683.7	1245.6	3887.4	11687.4	14762.6	17069.4	20405.1
70°	434.7	456.8	472.8	500.7	674.9	1226.5	3233.4	9216.6	11714.0	13989.8	17921.5
72.5°	409.9	428.9	443.6	469.7	666.0	1216.3	2731.3	7422.5	8745.6	10392.2	14571.1
75°	380.6	397.9	408.5	434.7	638.1	1114.0	2147.3	6280.6	6544.2	7229.3	11605.4
77.5°	347.0	360.2	368.7	397.9	565.0	926.5	1553.1	4844.9	5082.0	5248.6	8897.6
80°	307.5	320.4	324.8	352.7	468.4	724.5	1012.9	3578.5	3801.0	3839.1	5810.9
82.5°	261.9	275.2	275.2	301.3	383.3	521.1	664.7	2451.7	2495.6	2624.5	4107.2
85°	210.9	221.1	221.1	234.4	297.3	389.5	456.8	1231.0	1217.7	1390.5	3558.1
87.5°	150.7	158.2	165.3	168.4	212.2	257.4	275.2	374.9	247.3	284.0	2284.7
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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CATALOG NUMBER: GLNA-AF-08-LED-E1-SLR-7030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0	8996.0
2.5°	10333.7	10417.0	10331.9	10270.8	10005.8	9787.8	9496.2	9346.9
5°	11107.8	11320.1	11248.3	10990.8	10437.4	9815.3	9108.5	8789.5
7.5°	11014.3	11507.5	11519.0	11037.8	10222.5	9306.1	8349.0	7895.3
10°	10285.4	10915.9	11096.3	10629.3	9764.3	8739.8	7641.8	7123.8
12.5°	9471.4	10089.1	10226.9	10065.6	9342.9	8313.6	7200.0	6691.8
15°	8805.4	9082.4	9245.9	9386.8	8981.3	8143.9	7174.8	6617.4
17.5°	8400.0	8369.4	8416.4	8660.5	8729.2	8338.4	7555.4	6940.8
20°	8253.8	7784.1	7772.1	8108.9	8610.9	8802.8	8299.0	7561.2
22.5°	8334.4	7573.1	7476.5	7876.2	8673.8	9471.4	9273.8	8432.3
25°	8612.2	7590.9	7512.9	7899.7	8902.0	10184.4	10326.2	9559.1
27.5°	9050.0	7702.1	7599.3	7996.3	9205.1	10783.0	11362.6	10651.4
30°	9465.7	7895.3	7767.7	8186.4	9481.6	11020.1	11998.0	11503.1
32.5°	9970.8	8256.9	8032.6	8536.0	9824.1	11397.6	12564.3	12208.5
35°	10465.3	8771.7	8493.9	9076.2	10206.1	11867.7	13211.2	13110.2
37.5°	11008.6	9445.3	9215.3	9774.5	10729.0	12310.8	14036.7	14167.0
40°	11588.1	10338.1	10065.6	10793.2	11539.8	12867.4	14899.0	15211.9
42.5°	12172.2	11328.9	11004.1	11741.5	12430.9	13416.0	15636.4	16100.7
45°	12840.8	12404.8	12251.0	13048.6	13287.5	13938.8	16180.9	16757.9
47.5°	13619.8	13625.5	13872.8	14191.8	14151.1	14529.9	16728.6	17344.5
50°	14528.6	15148.9	15695.3	15907.1	15040.8	15165.3	17488.1	18130.6
52.5°	15620.4	16971.4	17647.6	17508.5	15999.7	15940.8	18691.1	19213.6
55°	16986.1	18900.7	19572.5	19472.8	17101.7	16997.6	20190.2	20494.6
57.5°	18566.6	20769.8	21387.4	20939.5	18424.8	18157.2	21430.0	21494.2
60°	19955.8	22251.1	22792.5	22296.3	19759.9	19390.8	22204.1	21892.1
62.5°	20728.5	22753.1	23133.7	22599.3	20674.5	20705.1	22373.8	21677.2
65°	20383.4	21484.0	21606.8	21562.9	20438.8	21467.6	21763.6	20683.3
67.5°	18492.2	18275.5	18482.0	18767.4	18419.1	20463.6	20072.7	18518.3
70°	15160.9	13970.7	14382.4	14573.8	14732.0	17609.5	17422.1	15083.4
72.5°	11425.5	9787.8	10112.6	10073.2	10804.7	14124.5	13549.3	11090.5
75°	8095.6	6636.4	6677.2	6661.2	7539.5	11050.6	9811.3	7587.8
77.5°	5664.2	4808.2	4830.3	4920.7	5068.7	8334.4	7009.5	5542.8
80°	3894.9	3649.0	3770.4	3777.9	3513.0	5598.7	5178.6	4448.4
82.5°	2901.0	2536.3	2507.1	2549.6	2753.0	4536.1	3979.5	3085.4
85°	2375.5	1501.7	1207.5	1513.7	2439.7	4492.2	2643.6	1627.5
87.5°	1337.7	713.0	322.1	597.3	973.5	2974.1	763.9	207.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)