

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: P299366

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299366
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
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30164.1 lumens
Efficiency: N/A
Efficacy: 90.6 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 - G5

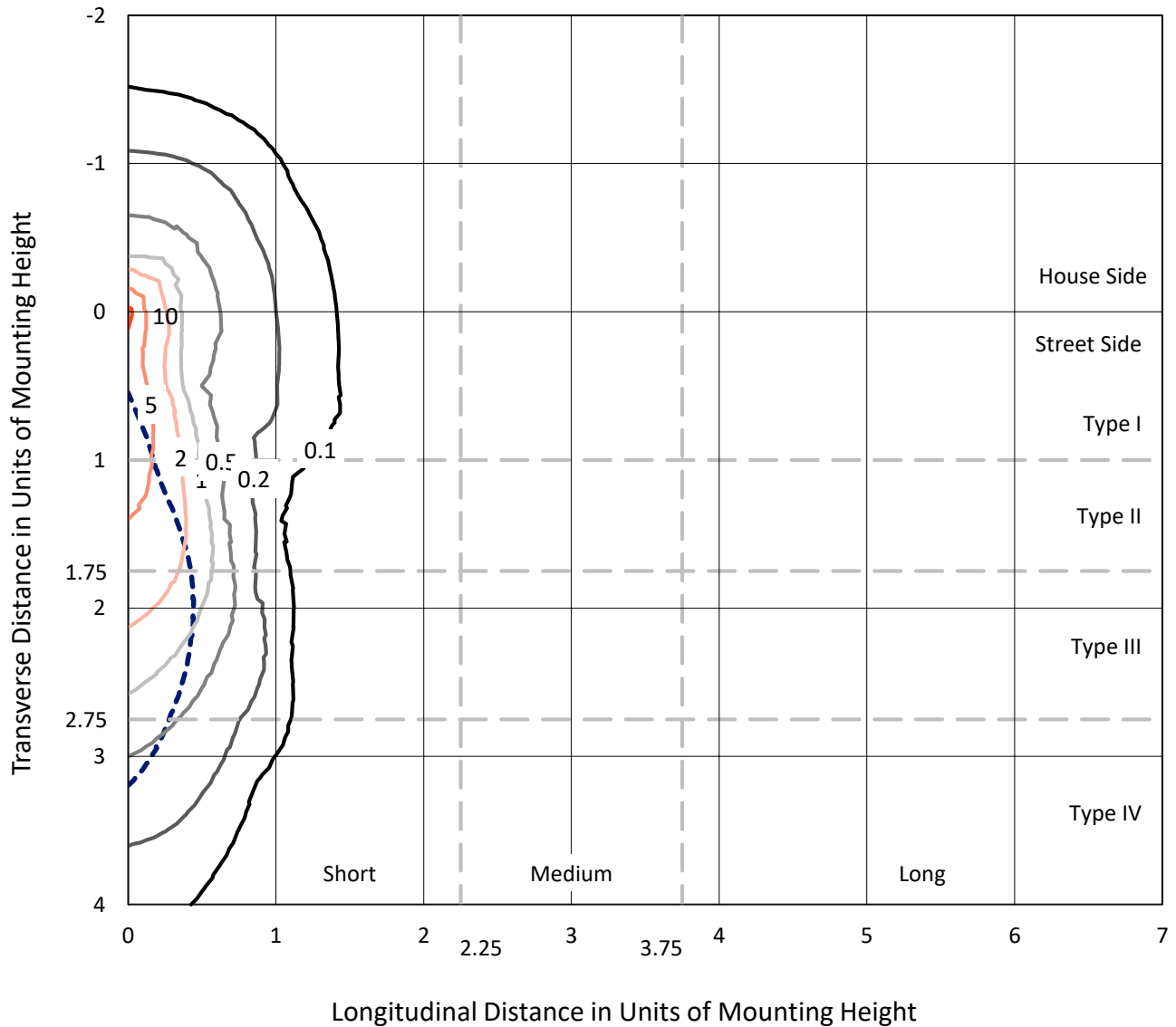
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299366
 CATALOG NUMBER: GLNA-AF-06-LED-E1-SLR-7030

Iso-Footcandle Lines of Horizontal Illumination

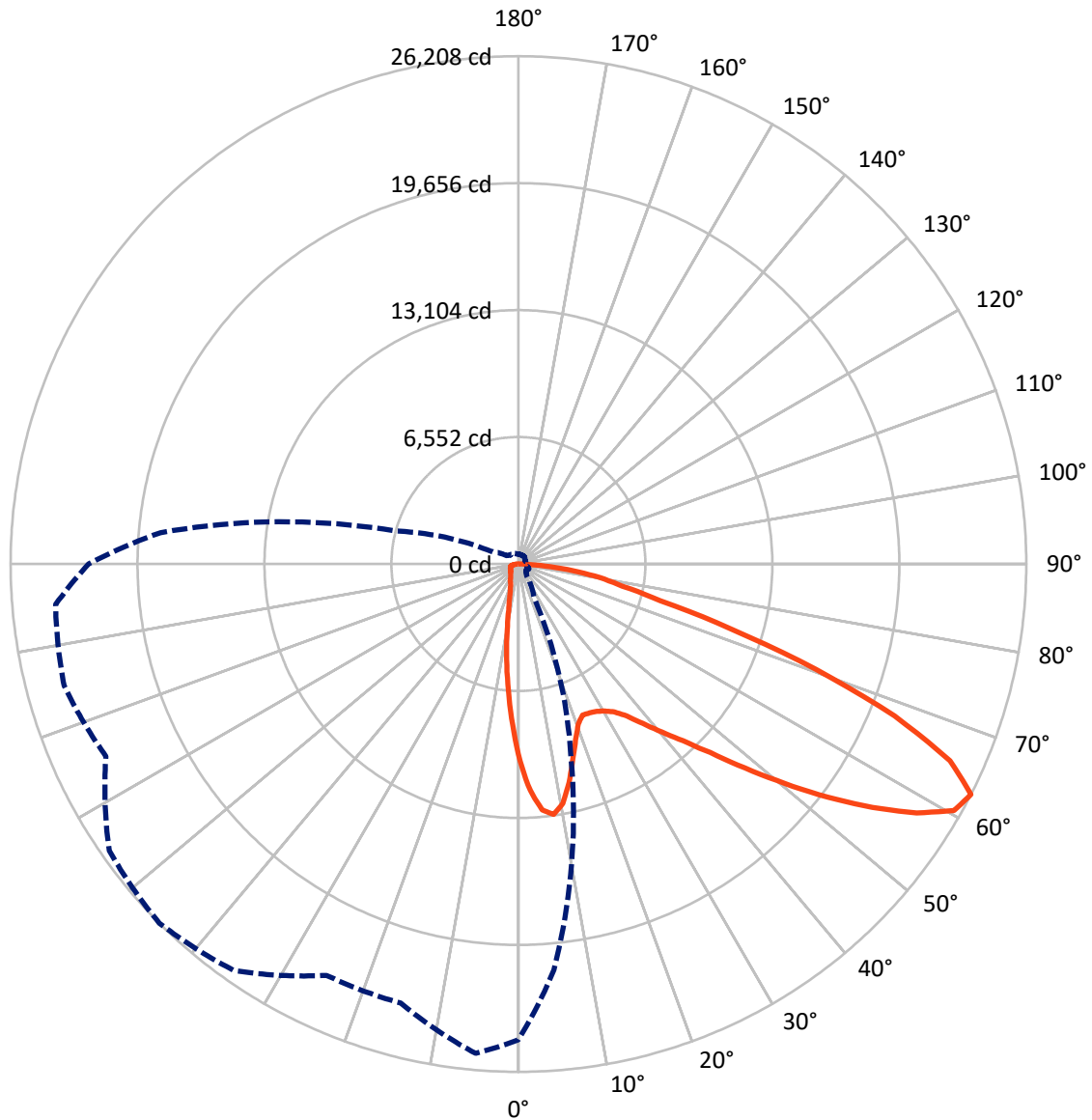
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P299366
CATALOG NUMBER: GLNA-AF-06-LED-E1-SLR-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P299366

CATALOG NUMBER: GLNA-AF-06-LED-E1-SLR-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4991.8	0.0	4991.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	25172.4	0.0	25172.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	30164.1	0.0	30164.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.9	2.5
10°-20°	1360.4	4.5
20°-30°	1983.4	6.6
30°-40°	3054.8	10.1
40°-50°	4495.8	14.9
50°-60°	6594.4	21.9
60°-70°	7371.6	24.4
70°-80°	3609.0	12.0
80°-90°	952.9	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°	30164.1	100.0
0°-180°	30164.1	100.0



REPORT NUMBER: P299366

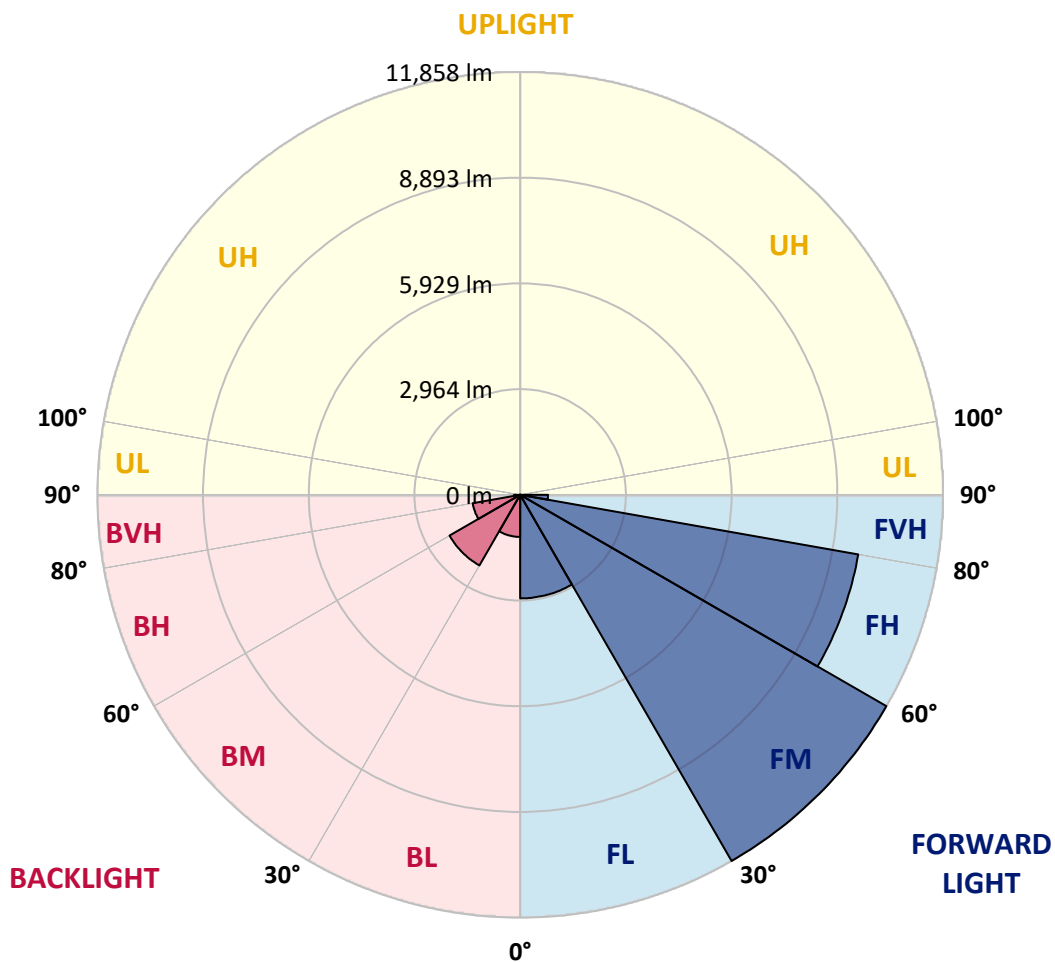
CATALOG NUMBER: GLNA-AF-06-LED-E1-SLR-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2904.7	9.6			
FM	(30°-60°)	11857.8	39.3			
FH	(60°-80°)	9627.3	31.9			G4/12000
FVH	(80°-90°)	782.5	2.6			G5
BL	(0°-30°)	1181.0	3.9	B3/2500		
BM	(30°-60°)	2287.2	7.6	B2/2500		
BH	(60°-80°)	1353.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	170.3	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-G5

Type IV Short





REPORT NUMBER: P299366

CATALOG NUMBER: GLNA-AF-06-LED-E1-SLR-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3
2.5°	10588.8	10373.5	10015.1	9642.1	9415.2	9149.6	8942.3	8760.1	8395.2	8323.9	8388.6
5°	9957.3	9524.6	8849.5	8169.8	7717.0	7231.1	6853.1	6549.9	6087.0	6005.7	6103.6
7.5°	8944.3	8426.8	7534.8	6667.3	6027.3	5420.4	5012.8	4687.5	4326.1	4170.5	4180.0
10°	8070.4	7486.6	6431.9	5488.7	4964.6	4555.0	4211.6	3878.3	3511.9	3271.4	3205.2
12.5°	7580.9	6909.8	5694.0	4851.7	4365.7	3935.0	3565.1	3208.7	2817.1	2571.7	2502.4
15°	7496.6	6766.7	5417.4	4444.1	3835.1	3290.0	2853.8	2455.7	2052.6	1853.8	1812.2
17.5°	7863.1	7022.2	5327.5	4080.6	3336.2	2663.0	2127.4	1683.1	1354.9	1255.5	1246.9
20°	8565.8	7513.2	5316.0	3739.3	2843.7	2054.6	1482.4	1159.1	1015.0	986.4	988.4
22.5°	9552.7	8274.2	5458.6	3482.3	2390.9	1532.1	1114.4	969.8	913.6	887.0	887.0
25°	10829.3	9322.3	5786.9	3295.0	1997.9	1223.8	983.4	897.0	843.8	825.8	829.3
27.5°	12066.7	10341.8	6168.4	3147.4	1740.9	1110.9	931.7	853.9	807.7	789.1	797.7
30°	13031.5	11247.4	6486.6	2946.6	1609.9	1079.3	950.3	870.4	804.2	776.1	777.6
32.5°	13830.6	12040.1	6753.7	2802.1	1493.9	925.2	819.2	784.1	776.1	742.9	726.4
35°	14852.2	12904.0	6932.9	2805.6	1439.2	825.8	729.4	668.1	623.5	585.3	585.3
37.5°	16049.4	13895.4	7123.6	2843.7	1419.6	767.5	698.3	636.5	595.4	558.7	552.2
40°	17233.1	14867.2	7297.8	2880.4	1407.6	732.9	673.2	616.9	578.8	542.1	532.1
42.5°	18240.0	15666.4	7453.4	2898.4	1367.9	729.4	655.1	603.4	567.2	527.1	517.5
45°	18984.5	16336.0	7621.1	2926.6	1328.2	742.9	655.1	601.9	557.2	519.1	509.0
47.5°	19649.1	17122.1	7901.2	2926.6	1280.1	717.8	676.7	603.4	555.7	515.5	507.5
50°	20539.6	18199.9	8431.8	2858.8	1212.3	691.2	712.8	596.9	540.6	509.0	499.0
52.5°	21766.5	19581.3	9274.1	2740.8	1107.9	640.0	707.8	593.8	525.6	492.4	480.9
55°	23217.7	21060.2	10192.8	2603.3	951.8	603.4	683.2	585.3	509.0	472.4	460.8
57.5°	24350.2	22078.2	10839.3	2390.9	815.7	583.8	605.4	577.3	488.9	450.8	441.2
60°	24801.0	22038.5	11017.0	2107.3	749.5	567.2	529.1	646.6	472.4	434.2	422.7
62.5°	24557.5	21020.5	10519.5	1908.5	734.4	545.7	496.0	598.4	459.3	422.7	406.1
65°	23431.5	19216.4	9201.3	1855.3	777.6	524.1	474.4	469.4	441.2	406.1	389.5
67.5°	20978.9	16520.2	7367.1	1860.3	832.3	502.5	452.8	429.7	416.1	388.0	373.0
70°	17087.5	13061.6	5491.7	1873.9	860.4	477.4	429.7	404.6	389.5	361.4	351.4
72.5°	12564.1	10066.8	3989.8	1787.6	865.4	449.3	398.1	376.5	361.4	331.8	323.3
75°	8596.0	7700.4	2767.4	1480.8	754.5	409.6	362.9	343.4	333.3	296.7	291.7
77.5°	6279.3	5780.3	1771.0	1099.3	581.8	359.9	320.3	305.2	298.7	258.5	252.0
80°	5039.4	4573.1	1107.9	753.0	426.2	301.7	268.6	260.5	253.5	213.8	208.8
82.5°	3495.3	3062.6	711.3	488.9	320.3	233.9	212.3	208.8	198.8	162.6	157.6
85°	1843.8	1663.1	450.8	333.3	231.9	160.6	147.6	147.6	142.6	107.9	104.4
87.5°	235.4	383.0	228.9	174.2	127.5	71.3	71.3	69.8	74.8	61.2	53.2
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: P299366

CATALOG NUMBER: GLNA-AF-06-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3
2.5°	8236.0	8315.8	8239.5	8244.6	8328.9	8580.9	8695.3	8789.7	8891.1	8957.4	8987.0
5°	5969.6	6155.3	6218.1	6350.6	6546.4	6868.1	6995.6	7088.5	7150.2	7186.4	7201.4
7.5°	4082.6	4195.1	4321.1	4534.9	4961.1	5150.3	5234.7	5213.1	5143.8	5118.7	5094.1
10°	3077.7	3033.0	3009.4	3127.4	3472.2	3663.0	3722.7	3664.5	3626.3	3634.9	3676.0
12.5°	2384.4	2306.6	2212.2	2198.7	2426.1	2596.8	2634.9	2637.9	2707.7	2768.9	2860.3
15°	1737.9	1729.3	1683.1	1655.0	1784.0	1923.6	1940.2	1969.8	2033.0	2077.7	2157.0
17.5°	1225.3	1270.0	1306.7	1324.7	1422.6	1522.0	1503.9	1488.9	1477.3	1477.3	1515.5
20°	988.4	1018.0	1064.7	1117.4	1217.3	1286.6	1241.9	1182.2	1139.0	1125.9	1131.0
22.5°	890.5	913.6	940.2	986.4	1076.3	1124.4	1076.3	1033.1	989.9	974.9	969.8
25°	840.8	870.4	895.5	930.2	996.4	1029.6	983.4	951.8	925.2	907.1	893.5
27.5°	812.7	838.8	845.8	862.4	918.6	948.2	925.2	912.1	895.5	879.0	862.4
30°	782.6	777.6	766.0	767.5	812.7	842.3	840.8	843.8	842.3	837.3	834.3
32.5°	714.8	704.8	694.7	704.8	745.9	772.6	774.6	781.1	781.1	779.6	792.6
35°	595.4	613.4	625.0	655.1	704.8	727.9	717.8	701.3	671.7	653.1	651.6
37.5°	550.7	553.7	573.8	614.9	670.1	691.2	676.7	638.5	618.4	614.9	619.9
40°	529.1	532.1	543.6	581.8	636.5	658.1	645.0	616.9	598.4	596.9	605.4
42.5°	514.0	517.5	524.1	550.7	595.4	622.0	623.5	603.4	581.8	583.8	591.8
45°	505.5	507.5	505.5	519.1	560.2	591.8	605.4	591.8	573.8	577.3	586.8
47.5°	504.0	499.0	492.4	496.0	539.1	570.3	586.8	581.8	573.8	577.3	585.3
50°	497.5	485.9	477.4	475.9	519.1	552.2	567.2	567.2	570.3	577.3	585.3
52.5°	477.4	464.3	464.3	459.3	505.5	537.1	547.2	548.7	553.7	565.2	577.3
55°	452.8	447.8	452.8	444.3	496.0	525.6	530.6	534.1	537.1	547.2	563.7
57.5°	431.2	424.7	436.2	432.7	487.4	514.0	514.0	520.6	520.6	534.1	547.2
60°	419.7	406.1	411.1	414.6	475.9	504.0	501.0	507.5	510.5	522.6	532.1
62.5°	404.6	393.1	393.1	401.1	462.8	488.9	487.4	492.4	505.5	509.0	519.1
65°	386.5	381.5	376.5	386.5	449.3	472.4	474.4	480.9	492.4	496.0	504.0
67.5°	368.0	370.0	359.9	370.0	437.7	455.8	455.8	469.4	474.4	480.9	488.9
70°	348.4	349.9	341.3	353.4	429.7	437.7	436.2	454.3	457.8	462.8	470.9
72.5°	323.3	323.3	320.3	336.8	416.1	419.7	416.1	431.2	432.7	437.7	441.2
75°	296.7	296.7	293.7	316.8	408.1	399.6	389.5	401.1	404.6	408.1	408.1
77.5°	262.0	265.5	265.5	293.7	379.5	391.5	357.9	364.9	370.0	371.5	366.4
80°	218.9	227.4	230.4	267.1	318.3	361.4	320.3	324.8	326.8	326.8	320.3
82.5°	167.7	182.2	190.8	230.4	244.0	303.2	278.6	283.6	278.6	268.6	265.5
85°	116.0	136.0	146.1	175.7	184.2	233.9	231.9	231.9	222.4	208.8	207.3
87.5°	63.2	74.8	81.3	104.4	126.0	157.6	170.7	165.7	157.6	149.1	151.1
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: P299366

CATALOG NUMBER: GLNA-AF-06-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3
2.5°	9143.1	9368.5	9728.4	10003.5	10280.6	10547.7	10836.3	11056.7	11243.9	11317.2	11539.1
5°	7352.5	7634.2	7974.0	8587.4	9022.1	9501.0	10055.2	10788.1	11069.7	11459.8	12097.8
7.5°	5198.5	5453.5	6000.7	6496.7	7112.1	7790.3	8537.7	9549.2	9919.2	10544.1	11583.8
10°	3881.8	4178.5	4617.7	5035.9	5578.0	6271.3	7130.2	8261.1	8710.4	9388.6	10585.8
12.5°	3127.4	3477.2	3943.1	4336.1	4755.8	5244.7	6079.0	7318.9	7921.3	8514.6	9724.9
15°	2402.5	2768.9	3202.1	3701.1	4163.4	4691.0	5565.0	6921.3	7614.1	8233.0	9265.6
17.5°	1663.1	1976.3	2522.0	3042.5	3634.9	4309.5	5422.4	7005.7	7832.9	8546.3	9345.4
20°	1179.2	1357.9	1805.6	2409.5	3147.4	3994.3	5395.8	7449.9	8526.2	9340.4	9855.9
22.5°	991.4	1057.7	1318.2	1871.9	2724.3	3758.8	5488.7	8073.4	9461.4	10501.0	10670.1
25°	903.6	943.7	1079.3	1469.3	2347.8	3588.2	5801.9	9002.1	10618.9	11662.1	11631.9
27.5°	855.4	897.0	986.4	1240.4	2064.7	3482.3	6115.2	10103.4	11942.2	12922.0	12550.6
30°	840.8	897.0	991.4	1169.1	1862.4	3314.6	6372.2	11069.7	12960.2	13772.9	12968.7
32.5°	829.3	837.3	880.5	1008.0	1669.6	3118.8	6546.4	11937.1	13956.6	14582.1	13570.6
35°	670.1	711.3	781.1	903.6	1557.2	3001.4	6546.4	12685.1	14938.5	15399.3	14144.4
37.5°	645.0	681.7	742.9	847.3	1493.9	2943.1	6415.3	13406.5	15941.5	16326.5	14616.7
40°	632.0	661.6	719.8	804.2	1467.3	2876.9	6224.6	14043.0	16921.3	17254.6	15058.0
42.5°	622.0	648.6	703.3	777.6	1432.7	2804.1	6070.5	14553.5	17772.2	18047.3	15479.1
45°	616.9	645.0	704.8	791.1	1362.9	2707.7	6019.3	15105.7	18472.0	18708.9	15934.9
47.5°	616.9	650.1	712.8	819.2	1280.1	2608.3	6179.9	15834.0	19133.6	19249.5	16472.1
50°	611.9	648.6	736.4	791.1	1159.1	2482.3	6557.9	16750.7	19849.9	19863.0	17152.2
52.5°	601.9	645.0	792.6	774.6	1019.5	2316.6	7068.9	17928.3	20909.6	20988.9	18216.4
55°	590.3	640.0	777.6	736.4	905.6	2119.4	7486.6	19359.0	22398.5	22618.8	19782.1
57.5°	575.3	633.5	753.0	683.2	830.8	1865.4	7637.7	20407.1	23438.1	23991.8	21546.1
60°	562.2	628.5	679.7	651.6	784.1	1651.5	7345.5	20199.8	23366.8	24560.5	23109.8
62.5°	548.7	633.5	619.9	632.0	762.5	1514.0	6583.0	18539.7	22184.6	23973.7	24268.9
65°	534.1	588.8	585.3	614.9	758.0	1459.3	5457.1	16050.9	19899.6	22118.4	24542.4
67.5°	514.0	543.6	560.2	593.8	774.6	1411.1	4403.9	13240.3	16724.1	19337.4	23116.3
70°	492.4	517.5	535.6	567.2	764.5	1389.5	3663.0	10441.2	13270.4	15848.6	20302.7
72.5°	464.3	485.9	502.5	532.1	754.5	1377.9	3094.2	8408.7	9907.6	11773.0	16507.2
75°	431.2	450.8	462.8	492.4	722.9	1262.0	2432.6	7115.1	7413.8	8189.8	13147.4
77.5°	393.1	408.1	417.6	450.8	640.0	1049.6	1759.4	5488.7	5757.2	5946.0	10079.8
80°	348.4	362.9	368.0	399.6	530.6	820.7	1147.5	4054.0	4306.0	4349.2	6583.0
82.5°	296.7	311.7	311.7	341.3	434.2	590.3	753.0	2777.5	2827.2	2973.2	4652.9
85°	238.9	250.5	250.5	265.5	336.8	441.2	517.5	1394.5	1379.4	1575.2	4030.9
87.5°	170.7	179.2	187.2	190.8	240.4	291.7	311.7	424.7	280.1	321.8	2588.2
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: P299366

CATALOG NUMBER: GLNA-AF-06-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3	10191.3
2.5°	11706.7	11801.1	11704.7	11635.5	11335.3	11088.3	10758.0	10588.8
5°	12583.7	12824.2	12742.8	12451.2	11824.2	11119.4	10318.8	9957.3
7.5°	12477.8	13036.5	13049.5	12504.4	11580.7	10542.6	9458.4	8944.3
10°	11652.0	12366.3	12570.6	12041.6	11061.7	9901.1	8657.2	8070.4
12.5°	10729.9	11429.6	11585.8	11403.0	10584.3	9418.2	8156.7	7580.9
15°	9975.4	10289.1	10474.4	10634.0	10174.7	9225.9	8128.1	7496.6
17.5°	9516.1	9481.4	9534.7	9811.3	9889.1	9446.3	8559.3	7863.1
20°	9350.4	8818.3	8804.8	9186.3	9755.0	9972.4	9401.6	8565.8
22.5°	9441.8	8579.4	8470.0	8922.7	9826.3	10729.9	10506.0	9552.7
25°	9756.5	8599.5	8511.1	8949.3	10084.8	11537.6	11698.2	10829.3
27.5°	10252.5	8725.5	8609.0	9058.8	10428.2	12215.7	12872.3	12066.7
30°	10723.4	8944.3	8799.8	9274.1	10741.4	12484.3	13592.2	13031.5
32.5°	11295.6	9353.9	9099.9	9670.2	11129.5	12912.0	14233.7	13830.6
35°	11855.8	9937.2	9622.5	10282.1	11562.2	13444.6	14966.6	14852.2
37.5°	12471.3	10700.3	10439.7	11073.2	12154.5	13946.6	15901.8	16049.4
40°	13127.9	11711.8	11403.0	12227.3	13073.1	14577.1	16878.7	17233.1
42.5°	13789.5	12834.2	12466.2	13301.5	14082.6	15198.5	17714.0	18240.0
45°	14547.0	14053.0	13878.8	14782.4	15053.0	15790.9	18330.9	18984.5
47.5°	15429.4	15436.0	15716.1	16077.5	16031.3	16460.5	18951.4	19649.1
50°	16459.0	17161.8	17780.7	18020.7	17039.3	17180.4	19811.7	20539.6
52.5°	17695.9	19226.4	19992.5	19834.8	18125.6	18058.8	21174.6	21766.5
55°	19243.0	21412.1	22173.1	22060.1	19374.0	19256.1	22872.8	23217.7
57.5°	21033.6	23529.4	24229.2	23721.7	20872.9	20569.7	24277.4	24350.2
60°	22607.3	25207.6	25821.0	25258.8	22385.4	21967.3	25154.4	24801.0
62.5°	23482.7	25776.3	26207.5	25602.1	23421.5	23456.1	25346.6	24557.5
65°	23091.7	24338.6	24477.7	24428.0	23154.5	24320.1	24655.4	23431.5
67.5°	20949.2	20703.8	20937.7	21261.0	20866.4	23182.6	22739.8	20978.9
70°	17175.3	15827.0	16293.4	16510.2	16689.4	19949.3	19737.0	17087.5
72.5°	12943.6	11088.3	11456.2	11411.6	12240.3	16001.2	15349.6	12564.1
75°	9171.2	7518.2	7564.4	7546.3	8541.2	12518.9	11114.9	8596.0
77.5°	6416.8	5447.0	5472.1	5574.5	5742.2	9441.8	7940.9	6279.3
80°	4412.4	4133.8	4271.4	4279.9	3979.7	6342.6	5866.7	5039.4
82.5°	3286.5	2873.3	2840.2	2888.4	3118.8	5138.8	4508.3	3495.3
85°	2691.1	1701.2	1367.9	1714.8	2763.9	5089.1	2994.8	1843.8
87.5°	1515.5	807.7	364.9	676.7	1102.9	3369.3	865.4	235.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)