

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: P299354

Luminaire Tested: **GLNA-AF-04-LED-E1-SLR-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299354  
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-04-LED-E1-SLR-7030  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(4) 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: 20344 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

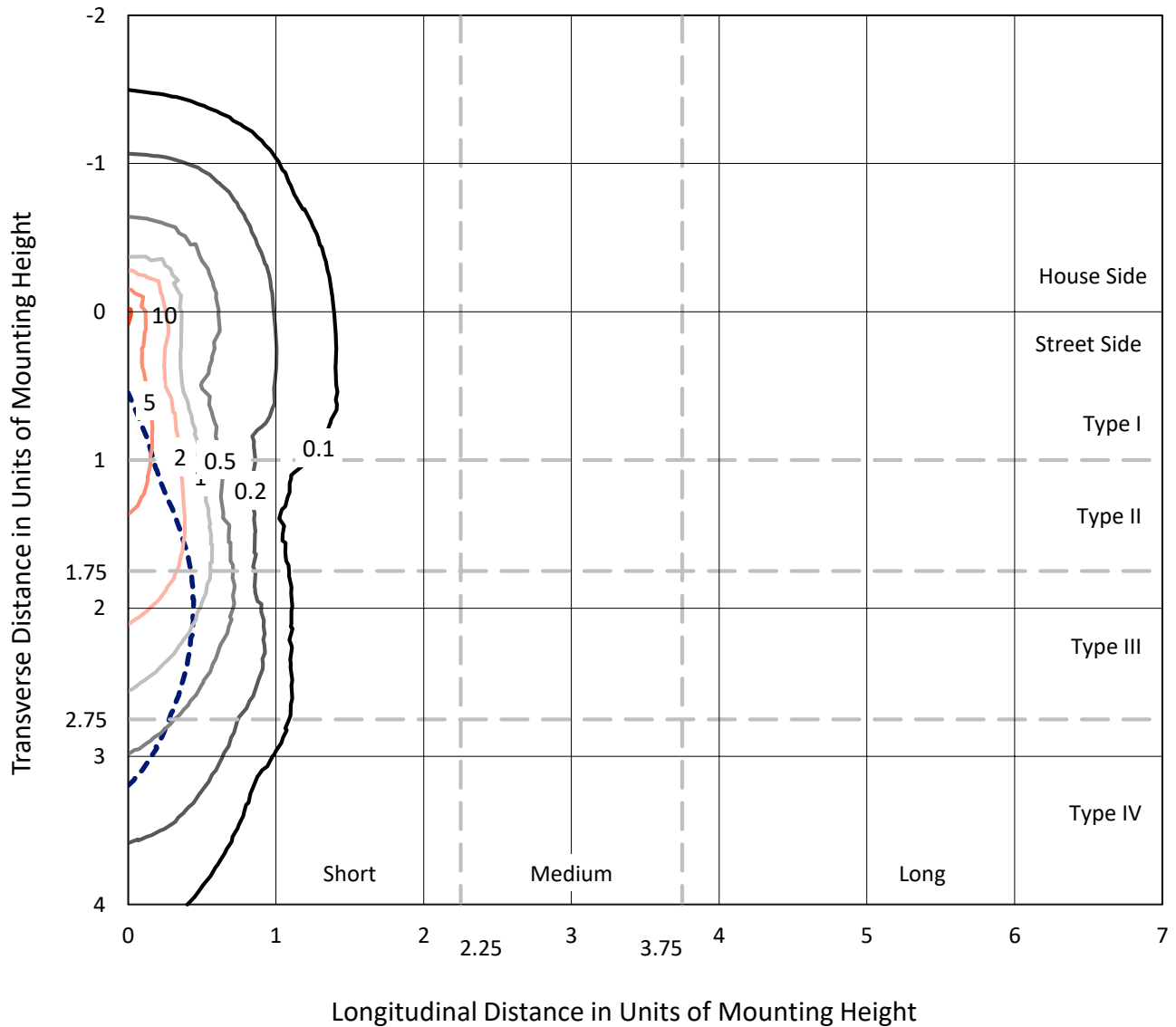
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P299354  
 CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-7030

### Iso-Footcandle Lines of Horizontal Illumination

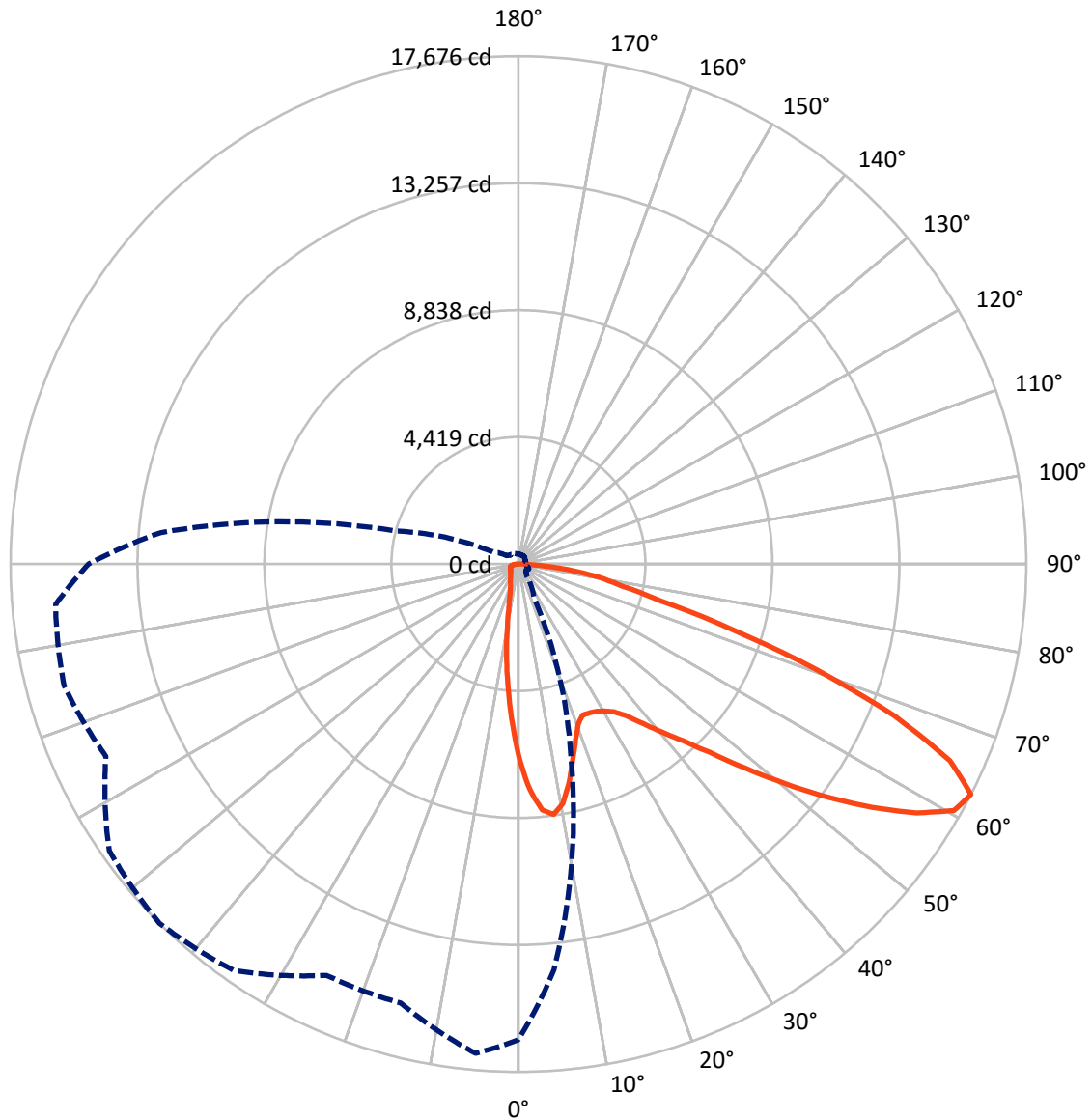
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P299354  
CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-7030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P299354

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-7030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3366.7	0.0	3366.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	16977.3	0.0	16977.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	20344.0	0.0	20344.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.3	2.5
10°-20°	917.5	4.5
20°-30°	1337.7	6.6
30°-40°	2060.3	10.1
40°-50°	3032.2	14.9
50°-60°	4447.5	21.9
60°-70°	4971.7	24.4
70°-80°	2434.1	12.0
80°-90°	642.7	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°	20344.0	100.0
0°-180°	20344.0	100.0



REPORT NUMBER: P299354

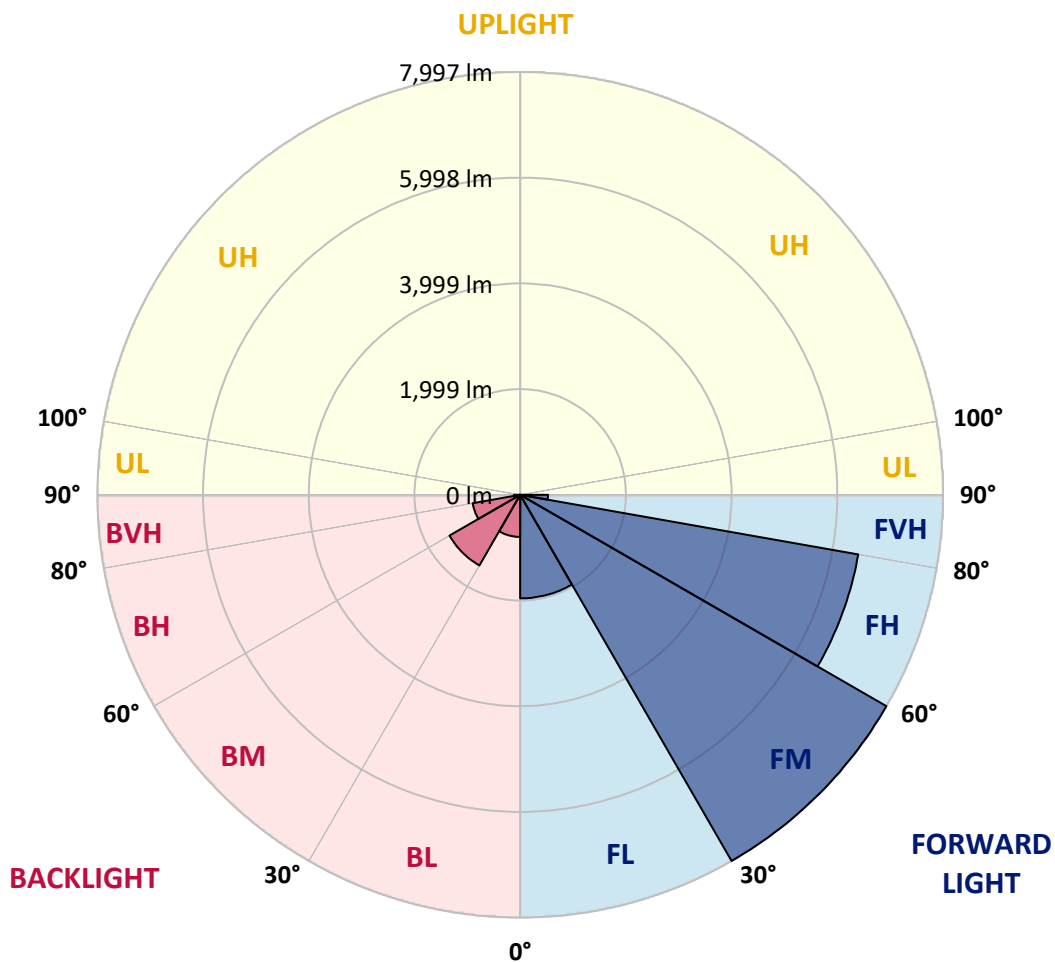
CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1959.1	9.6			
FM	(30°-60°)	7997.4	39.3			
FH	(60°-80°)	6493.1	31.9			G3/7500
FVH	(80°-90°)	527.8	2.6			G4/750
BL	(0°-30°)	796.5	3.9	B2/1000		
BM	(30°-60°)	1542.6	7.6	B2/2500		
BH	(60°-80°)	912.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	114.9	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





REPORT NUMBER: P299354

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4
2.5°	7141.6	6996.3	6754.6	6503.0	6350.0	6170.9	6031.1	5908.2	5662.1	5614.0	5657.7
5°	6715.6	6423.8	5968.4	5510.0	5204.7	4876.9	4622.0	4417.5	4105.4	4050.5	4116.5
7.5°	6032.4	5683.4	5081.8	4496.7	4065.1	3655.8	3380.8	3161.5	2917.7	2812.7	2819.2
10°	5443.0	5049.3	4337.9	3701.8	3348.3	3072.1	2840.5	2615.7	2368.6	2206.4	2161.7
12.5°	5112.9	4660.3	3840.3	3272.2	2944.4	2654.0	2404.4	2164.1	1900.0	1734.4	1687.7
15°	5056.0	4563.8	3653.7	2997.3	2586.6	2218.9	1924.7	1656.2	1384.4	1250.3	1222.2
17.5°	5303.2	4736.1	3593.1	2752.1	2250.1	1796.1	1434.8	1135.2	913.8	846.7	841.0
20°	5777.2	5067.2	3585.3	2521.9	1917.9	1385.7	999.8	781.7	684.6	665.3	666.6
22.5°	6442.8	5580.5	3681.5	2348.6	1612.6	1033.3	751.6	654.1	616.2	598.2	598.2
25°	7303.7	6287.4	3902.9	2222.3	1347.5	825.4	663.2	605.0	569.1	556.9	559.3
27.5°	8138.3	6975.0	4160.2	2122.8	1174.1	749.2	628.4	575.9	544.7	532.2	538.0
30°	8789.0	7585.7	4374.9	1987.3	1085.8	727.9	640.9	587.1	542.4	523.4	524.4
32.5°	9328.0	8120.3	4555.0	1889.8	1007.5	624.0	552.5	528.8	523.4	501.1	489.9
35°	10016.9	8703.0	4675.8	1892.2	970.6	556.9	491.9	450.6	420.5	394.8	394.8
37.5°	10824.4	9371.6	4804.5	1917.9	957.4	517.7	470.9	429.3	401.5	376.8	372.4
40°	11622.7	10027.1	4922.0	1942.6	949.3	494.3	454.0	416.1	390.4	365.6	358.9
42.5°	12301.9	10566.1	5026.9	1954.8	922.6	491.9	441.8	406.9	382.6	355.5	349.1
45°	12803.9	11017.7	5140.0	1973.8	895.8	501.1	441.8	405.9	375.8	350.1	343.3
47.5°	13252.2	11547.9	5328.9	1973.8	863.3	484.1	456.4	406.9	374.8	347.7	342.3
50°	13852.8	12274.8	5686.8	1928.1	817.6	466.2	480.8	402.5	364.6	343.3	336.5
52.5°	14680.2	13206.5	6254.9	1848.5	747.2	431.7	477.4	400.5	354.5	332.1	324.3
55°	15659.0	14203.9	6874.4	1755.8	641.9	406.9	460.8	394.8	343.3	318.6	310.8
57.5°	16422.8	14890.5	7310.5	1612.6	550.2	393.7	408.3	389.3	329.8	304.0	297.6
60°	16726.8	14863.7	7430.3	1421.3	505.5	382.6	356.8	436.1	318.6	292.9	285.1
62.5°	16562.6	14177.1	7094.8	1287.2	495.3	368.0	334.5	403.6	309.8	285.1	273.9
65°	15803.2	12960.4	6205.8	1251.3	524.4	353.5	319.9	316.6	297.6	273.9	262.7
67.5°	14149.0	11142.0	4968.7	1254.7	561.3	338.9	305.4	289.8	280.7	261.7	251.5
70°	11524.5	8809.3	3703.8	1263.8	580.3	322.0	289.8	272.9	262.7	243.8	237.0
72.5°	8473.8	6789.5	2690.9	1205.6	583.7	303.0	268.5	253.9	243.8	223.8	218.0
75°	5797.5	5193.5	1866.5	998.7	508.9	276.3	244.8	231.6	224.8	200.1	196.7
77.5°	4235.0	3898.5	1194.4	741.4	392.4	242.7	216.0	205.8	201.4	174.4	170.0
80°	3398.8	3084.3	747.2	507.8	287.4	203.5	181.1	175.7	171.0	144.2	140.8
82.5°	2357.4	2065.5	479.7	329.8	216.0	157.8	143.2	140.8	134.1	109.7	106.3
85°	1243.5	1121.6	304.0	224.8	156.4	108.3	99.5	99.5	96.2	72.8	70.4
87.5°	158.8	258.3	154.4	117.5	86.0	48.1	48.1	47.1	50.4	41.3	35.9
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: P299354

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4
2.5°	5554.7	5608.6	5557.1	5560.5	5617.4	5787.3	5864.5	5928.2	5996.5	6041.2	6061.2
5°	4026.1	4151.4	4193.7	4283.1	4415.1	4632.2	4718.2	4780.8	4822.4	4846.8	4857.0
7.5°	2753.5	2829.3	2914.3	3058.5	3346.0	3473.6	3530.5	3515.9	3469.2	3452.3	3435.7
10°	2075.7	2045.6	2029.7	2109.2	2341.8	2470.5	2510.7	2471.5	2445.7	2451.5	2479.3
12.5°	1608.2	1555.7	1492.0	1482.9	1636.3	1751.4	1777.1	1779.1	1826.2	1867.5	1929.1
15°	1172.1	1166.3	1135.2	1116.2	1203.2	1297.4	1308.5	1328.5	1371.2	1401.3	1454.8
17.5°	826.4	856.6	881.3	893.5	959.5	1026.5	1014.3	1004.2	996.4	996.4	1022.1
20°	666.6	686.6	718.1	753.6	821.0	867.7	837.6	797.3	768.2	759.4	762.8
22.5°	600.6	616.2	634.1	665.3	725.9	758.4	725.9	696.8	667.6	657.5	654.1
25°	567.1	587.1	604.0	627.3	672.0	694.4	663.2	641.9	624.0	611.8	602.6
27.5°	548.1	565.7	570.5	581.6	619.6	639.5	624.0	615.2	604.0	592.8	581.6
30°	527.8	524.4	516.6	517.7	548.1	568.1	567.1	569.1	568.1	564.7	562.7
32.5°	482.1	475.3	468.6	475.3	503.1	521.0	522.4	526.8	526.8	525.8	534.6
35°	401.5	413.7	421.5	441.8	475.3	490.9	484.1	473.0	453.0	440.5	439.4
37.5°	371.4	373.4	387.0	414.7	452.0	466.2	456.4	430.6	417.1	414.7	418.1
40°	356.8	358.9	366.7	392.4	429.3	443.9	435.0	416.1	403.6	402.5	408.3
42.5°	346.7	349.1	353.5	371.4	401.5	419.5	420.5	406.9	392.4	393.7	399.2
45°	340.9	342.3	340.9	350.1	377.8	399.2	408.3	399.2	387.0	389.3	395.8
47.5°	339.9	336.5	332.1	334.5	363.6	384.6	395.8	392.4	387.0	389.3	394.8
50°	335.5	327.7	322.0	321.0	350.1	372.4	382.6	382.6	384.6	389.3	394.8
52.5°	322.0	313.2	313.2	309.8	340.9	362.3	369.0	370.0	373.4	381.2	389.3
55°	305.4	302.0	305.4	299.6	334.5	354.5	357.9	360.2	362.3	369.0	380.2
57.5°	290.8	286.4	294.2	291.8	328.7	346.7	346.7	351.1	351.1	360.2	369.0
60°	283.0	273.9	277.3	279.6	321.0	339.9	337.9	342.3	344.3	352.4	358.9
62.5°	272.9	265.1	265.1	270.5	312.2	329.8	328.7	332.1	340.9	343.3	350.1
65°	260.7	257.3	253.9	260.7	303.0	318.6	319.9	324.3	332.1	334.5	339.9
67.5°	248.2	249.5	242.7	249.5	295.2	307.4	307.4	316.6	319.9	324.3	329.8
70°	235.0	236.0	230.2	238.3	289.8	295.2	294.2	306.4	308.8	312.2	317.6
72.5°	218.0	218.0	216.0	227.2	280.7	283.0	280.7	290.8	291.8	295.2	297.6
75°	200.1	200.1	198.1	213.6	275.2	269.5	262.7	270.5	272.9	275.2	275.2
77.5°	176.7	179.1	179.1	198.1	256.0	264.1	241.4	246.1	249.5	250.5	247.1
80°	147.6	153.4	155.4	180.1	214.6	243.8	216.0	219.0	220.4	220.4	216.0
82.5°	113.1	122.9	128.7	155.4	164.5	204.5	187.9	191.3	187.9	181.1	179.1
85°	78.2	91.7	98.5	118.5	124.3	157.8	156.4	156.4	150.0	140.8	139.8
87.5°	42.7	50.4	54.8	70.4	85.0	106.3	115.1	111.7	106.3	100.6	101.9
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: P299354

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4
2.5°	6166.5	6318.5	6561.3	6746.8	6933.7	7113.8	7308.5	7457.1	7583.4	7632.8	7782.4
5°	4958.9	5148.8	5378.0	5791.7	6084.9	6407.9	6781.7	7276.0	7465.9	7729.0	8159.3
7.5°	3506.1	3678.1	4047.1	4381.6	4796.7	5254.1	5758.2	6440.4	6689.9	7111.4	7812.6
10°	2618.1	2818.2	3114.4	3396.4	3762.1	4229.6	4808.9	5571.7	5874.7	6332.1	7139.5
12.5°	2109.2	2345.2	2659.4	2924.5	3207.5	3537.3	4099.9	4936.2	5342.5	5742.6	6558.9
15°	1620.3	1867.5	2159.7	2496.2	2808.0	3163.8	3753.3	4668.0	5135.3	5552.7	6249.1
17.5°	1121.6	1332.9	1700.9	2052.0	2451.5	2906.5	3657.1	4724.9	5282.9	5764.0	6302.9
20°	795.3	915.8	1217.8	1625.1	2122.8	2693.9	3639.2	5024.5	5750.4	6299.6	6647.3
22.5°	668.7	713.3	889.1	1262.5	1837.4	2535.1	3701.8	5445.0	6381.1	7082.3	7196.4
25°	609.4	636.5	727.9	991.0	1583.4	2420.0	3913.1	6071.4	7161.9	7865.4	7845.1
27.5°	576.9	605.0	665.3	836.6	1392.5	2348.6	4124.3	6814.2	8054.3	8715.2	8464.6
30°	567.1	605.0	668.7	788.5	1256.1	2235.5	4297.7	7465.9	8740.9	9289.0	8746.7
32.5°	559.3	564.7	593.8	679.8	1126.0	2103.5	4415.1	8050.9	9412.9	9834.8	9152.6
35°	452.0	479.7	526.8	609.4	1050.2	2024.2	4415.1	8555.4	10075.2	10386.0	9539.6
37.5°	435.0	459.8	501.1	571.5	1007.5	1985.0	4326.8	9041.9	10751.6	11011.3	9858.1
40°	426.2	446.2	485.5	542.4	989.6	1940.3	4198.1	9471.2	11412.5	11637.3	10155.7
42.5°	419.5	437.4	474.3	524.4	966.2	1891.2	4094.2	9815.5	11986.3	12171.9	10439.8
45°	416.1	435.0	475.3	533.6	919.2	1826.2	4059.7	10187.9	12458.3	12618.1	10747.2
47.5°	416.1	438.4	480.8	552.5	863.3	1759.1	4168.0	10679.1	12904.5	12982.7	11109.5
50°	412.7	437.4	496.7	533.6	781.7	1674.2	4422.9	11297.4	13387.6	13396.4	11568.2
52.5°	405.9	435.0	534.6	522.4	687.6	1562.4	4767.6	12091.6	14102.3	14155.8	12285.9
55°	398.1	431.7	524.4	496.7	610.8	1429.4	5049.3	13056.5	15106.5	15255.1	13341.9
57.5°	388.0	427.3	507.8	460.8	560.3	1258.1	5151.2	13763.4	15807.6	16181.1	14531.6
60°	379.2	423.9	458.4	439.4	528.8	1113.9	4954.1	13623.6	15759.6	16564.7	15586.2
62.5°	370.0	427.3	418.1	426.2	514.3	1021.1	4439.9	12504.0	14962.3	16168.9	16367.9
65°	360.2	397.1	394.8	414.7	511.2	984.2	3680.5	10825.4	13421.1	14917.6	16552.5
67.5°	346.7	366.7	377.8	400.5	522.4	951.7	2970.2	8929.8	11279.4	13041.9	15590.6
70°	332.1	349.1	361.2	382.6	515.6	937.1	2470.5	7042.0	8950.1	10689.0	13693.0
72.5°	313.2	327.7	338.9	358.9	508.9	929.3	2086.9	5671.2	6682.1	7940.2	11133.2
75°	290.8	304.0	312.2	332.1	487.5	851.1	1640.7	4798.7	5000.2	5523.6	8867.2
77.5°	265.1	275.2	281.7	304.0	431.7	707.9	1186.6	3701.8	3882.9	4010.2	6798.3
80°	235.0	244.8	248.2	269.5	357.9	553.5	773.9	2734.2	2904.2	2933.3	4439.9
82.5°	200.1	210.2	210.2	230.2	292.9	398.1	507.8	1873.2	1906.8	2005.3	3138.1
85°	161.2	168.9	168.9	179.1	227.2	297.6	349.1	940.5	930.4	1062.4	2718.6
87.5°	115.1	120.9	126.3	128.7	162.2	196.7	210.2	286.4	188.9	217.0	1745.6
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: P299354

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4	6873.4
2.5°	7895.5	7959.2	7894.2	7847.4	7645.0	7478.4	7255.6	7141.6
5°	8487.0	8649.2	8594.3	8397.6	7974.7	7499.4	6959.4	6715.6
7.5°	8415.5	8792.4	8801.2	8433.5	7810.5	7110.4	6379.1	6032.4
10°	7858.6	8340.4	8478.2	8121.3	7460.5	6677.7	5838.8	5443.0
12.5°	7236.7	7708.6	7813.9	7690.7	7138.5	6352.0	5501.2	5112.9
15°	6727.8	6939.4	7064.4	7172.0	6862.2	6222.4	5481.9	5056.0
17.5°	6418.1	6394.7	6430.6	6617.1	6669.6	6371.0	5772.8	5303.2
20°	6306.3	5947.5	5938.3	6195.6	6579.2	6725.8	6340.9	5777.2
22.5°	6367.9	5786.3	5712.5	6017.9	6627.3	7236.7	7085.7	6442.8
25°	6580.2	5799.8	5740.3	6035.8	6801.6	7781.4	7889.8	7303.7
27.5°	6914.7	5884.8	5806.3	6109.6	7033.2	8238.8	8681.7	8138.3
30°	7232.3	6032.4	5934.9	6254.9	7244.5	8419.9	9167.1	8789.0
32.5°	7618.2	6308.7	6137.4	6522.0	7506.2	8708.4	9599.8	9328.0
35°	7996.1	6702.1	6489.8	6934.7	7798.0	9067.6	10094.1	10016.9
37.5°	8411.1	7216.7	7041.0	7468.3	8197.5	9406.2	10724.9	10824.4
40°	8854.0	7898.9	7690.7	8246.6	8817.1	9831.4	11383.7	11622.7
42.5°	9300.2	8655.9	8407.8	8971.1	9497.9	10250.5	11947.1	12301.9
45°	9811.1	9477.9	9360.5	9969.9	10152.4	10650.0	12363.1	12803.9
47.5°	10406.3	10410.7	10599.6	10843.4	10812.2	11101.7	12781.6	13252.2
50°	11100.7	11574.6	11992.1	12153.9	11492.0	11587.2	13361.9	13852.8
52.5°	11934.9	12967.1	13483.8	13377.5	12224.7	12179.6	14281.1	14680.2
55°	12978.3	14441.2	14954.5	14878.3	13066.7	12987.1	15426.4	15659.0
57.5°	14185.9	15869.3	16341.2	15998.9	14077.6	13873.1	16373.7	16422.8
60°	15247.3	17001.1	17414.8	17035.6	15097.7	14815.7	16965.2	16726.8
62.5°	15837.8	17384.6	17675.5	17267.2	15796.5	15819.8	17094.8	16562.6
65°	15574.0	16415.0	16508.8	16475.3	15616.3	16402.5	16628.6	15803.2
67.5°	14129.1	13963.5	14121.3	14339.3	14073.2	15635.3	15336.7	14149.0
70°	11583.8	10674.4	10988.9	11135.2	11256.1	13454.7	13311.4	11524.5
72.5°	8729.7	7478.4	7726.6	7696.4	8255.4	10791.9	10352.4	8473.8
75°	6185.5	5070.6	5101.7	5089.5	5760.6	8443.3	7496.4	5797.5
77.5°	4327.8	3673.7	3690.6	3759.7	3872.8	6367.9	5355.7	4235.0
80°	2975.9	2788.0	2880.8	2886.5	2684.1	4277.7	3956.7	3398.8
82.5°	2216.5	1937.9	1915.6	1948.1	2103.5	3465.8	3040.6	2357.4
85°	1815.0	1147.4	922.6	1156.5	1864.1	3432.3	2019.8	1243.5
87.5°	1022.1	544.7	246.1	456.4	743.8	2272.4	583.7	158.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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