

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: P299510

Luminaire Tested: **GLNA-AF-10-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299510  
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-10-LED-E1-SLR-7030-600  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(10) 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: 32884.5 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 323  
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

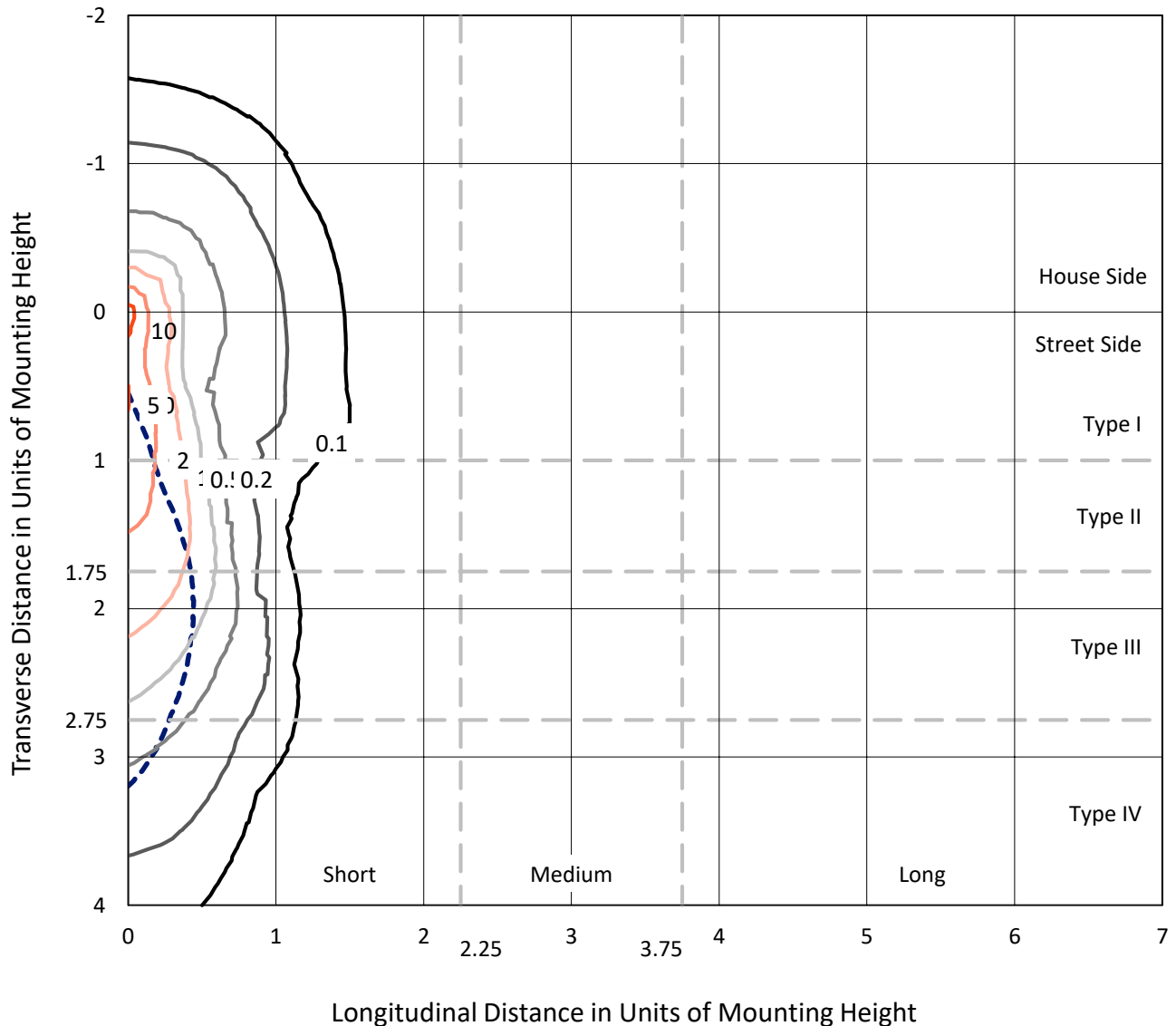


REPORT NUMBER: P299510

CATALOG NUMBER: GLNA-AF-10-LED-E1-SLR-7030-600

### Iso-Footcandle Lines of Horizontal Illumination

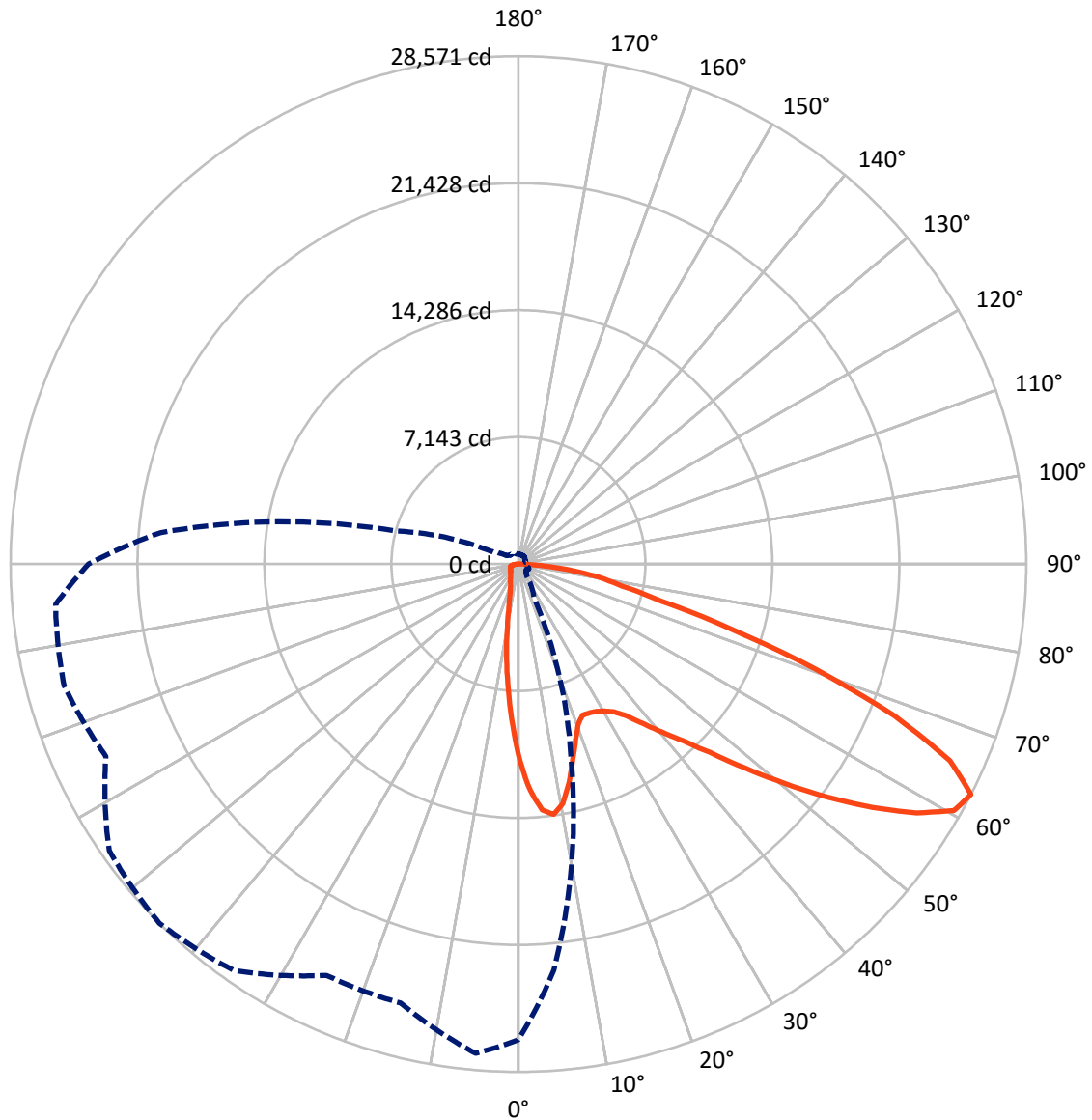
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P299510  
CATALOG NUMBER: GLNA-AF-10-LED-E1-SLR-7030-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P299510

CATALOG NUMBER: GLNA-AF-10-LED-E1-SLR-7030-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5441.9	0.0	5441.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	27442.5	0.0	27442.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	32884.5	0.0	32884.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	808.8	2.5
10°-20°	1483.1	4.5
20°-30°	2162.3	6.6
30°-40°	3330.3	10.1
40°-50°	4901.3	14.9
50°-60°	7189.1	21.9
60°-70°	8036.4	24.4
70°-80°	3934.5	12.0
80°-90°	1038.8	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°	32884.5	100.0
0°-180°	32884.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P299510

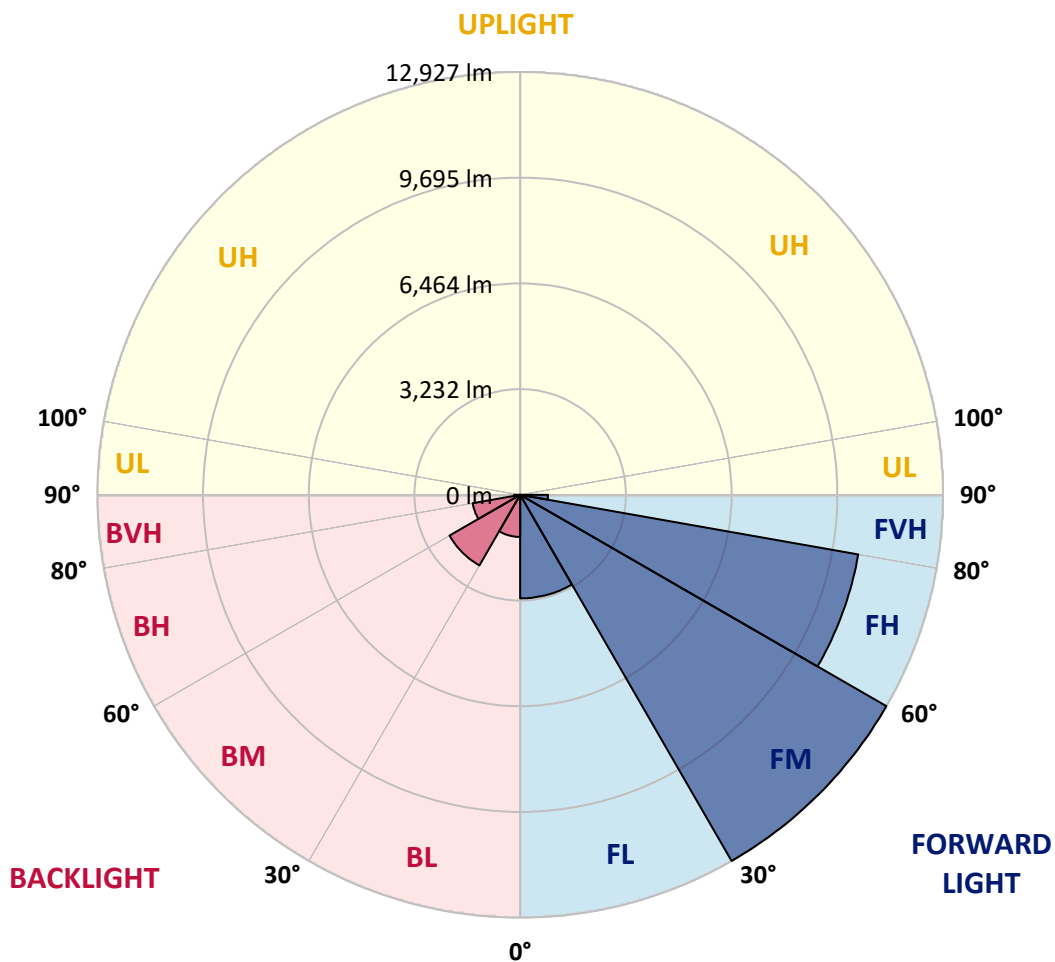
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3166.7	9.6			
FM	(30°-60°)	12927.2	39.3			
FH	(60°-80°)	10495.6	31.9			G4/12000
FVH	(80°-90°)	853.1	2.6			G5
BL	(0°-30°)	1287.5	3.9	B3/2500		
BM	(30°-60°)	2493.5	7.6	B2/2500		
BH	(60°-80°)	1475.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	185.7	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: P299510  
 CATALOG NUMBER: GLNA-AF-10-LED-E1-SLR-7030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3
2.5°	11543.8	11309.0	10918.3	10511.6	10264.3	9974.8	9748.8	9550.1	9152.3	9074.6	9145.2
5°	10855.3	10383.6	9647.5	8906.5	8412.9	7883.2	7471.1	7140.6	6636.0	6547.3	6654.1
7.5°	9751.0	9186.7	8214.3	7268.6	6570.9	5909.2	5464.9	5110.3	4716.2	4546.6	4557.0
10°	8798.2	8161.7	7012.0	5983.7	5412.3	4965.8	4591.5	4228.1	3828.6	3566.5	3494.2
12.5°	8264.6	7532.9	6207.5	5289.2	4759.5	4289.9	3886.6	3498.0	3071.2	2803.6	2728.1
15°	8172.7	7377.0	5906.0	4844.8	4181.0	3586.7	3111.1	2677.2	2237.7	2021.0	1975.6
17.5°	8572.2	7655.5	5808.0	4448.6	3637.0	2903.2	2319.3	1834.9	1477.0	1368.7	1359.4
20°	9338.3	8190.7	5795.4	4076.5	3100.2	2239.9	1616.0	1263.6	1106.5	1075.4	1077.5
22.5°	10414.2	9020.4	5950.8	3796.3	2606.6	1670.2	1214.9	1057.3	996.0	967.0	967.0
25°	11805.9	10163.0	6308.7	3592.2	2178.1	1334.2	1072.1	977.9	919.9	900.2	904.1
27.5°	13154.9	11274.5	6724.6	3431.3	1897.9	1211.1	1015.7	930.9	880.5	860.3	869.6
30°	14206.7	12261.8	7071.6	3212.4	1755.0	1176.6	1036.0	948.9	876.7	846.1	847.7
32.5°	15077.9	13125.9	7362.7	3054.8	1628.6	1008.6	893.1	854.8	846.1	809.9	791.9
35°	16191.6	14067.7	7558.1	3058.6	1569.0	900.2	795.2	728.4	679.7	638.1	638.1
37.5°	17496.8	15148.5	7766.1	3100.2	1547.6	836.8	761.2	693.9	649.0	609.1	602.0
40°	18787.2	16208.0	7956.0	3140.1	1534.5	799.0	733.9	672.6	631.0	591.0	580.1
42.5°	19885.0	17079.2	8125.6	3159.8	1491.3	795.2	714.2	657.8	618.4	574.6	564.2
45°	20696.6	17809.3	8308.4	3190.5	1448.0	809.9	714.2	656.2	607.5	565.9	554.9
47.5°	21421.1	18666.3	8613.8	3190.5	1395.5	782.6	737.7	657.8	605.8	562.0	553.3
50°	22392.0	19841.2	9192.2	3116.6	1321.6	753.6	777.1	650.7	589.4	554.9	544.0
52.5°	23729.5	21347.3	10110.5	2988.0	1207.8	697.7	771.6	647.4	573.0	536.9	524.3
55°	25311.6	22959.5	11112.0	2838.1	1037.6	657.8	744.8	638.1	554.9	515.0	502.4
57.5°	26546.2	24069.3	11816.8	2606.6	889.3	636.5	660.0	629.3	533.0	491.4	481.0
60°	27037.6	24026.1	12010.6	2297.4	817.0	618.4	576.8	704.9	515.0	473.4	460.8
62.5°	26772.2	22916.2	11468.2	2080.7	800.6	594.9	540.7	652.3	500.7	460.8	442.7
65°	25544.7	20949.4	10031.2	2022.6	847.7	571.3	517.2	511.7	481.0	442.7	424.7
67.5°	22870.8	18010.1	8031.5	2028.1	907.3	547.8	493.6	468.4	453.7	423.0	406.6
70°	18628.5	14239.5	5987.0	2042.9	938.0	520.4	468.4	441.1	424.7	394.0	383.1
72.5°	13697.2	10974.6	4349.6	1948.8	943.5	489.8	434.0	410.4	394.0	361.7	352.4
75°	9371.2	8394.9	3017.0	1614.4	822.5	446.6	395.7	374.3	363.4	323.4	318.0
77.5°	6845.6	6301.6	1930.7	1198.5	634.3	392.4	349.1	332.7	325.6	281.8	274.7
80°	5493.9	4985.5	1207.8	820.9	464.6	328.9	292.8	284.0	276.4	233.1	227.7
82.5°	3810.5	3338.8	775.5	533.0	349.1	255.0	231.5	227.7	216.7	177.3	171.8
85°	2010.1	1813.1	491.4	363.4	252.8	175.1	160.9	160.9	155.4	117.7	113.8
87.5°	256.7	417.6	249.5	189.9	139.0	77.7	77.7	76.1	81.5	66.8	58.0
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: P299510

CATALOG NUMBER: GLNA-AF-10-LED-E1-SLR-7030-600

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3
2.5°	8978.8	9065.8	8982.6	8988.1	9080.0	9354.7	9479.5	9582.4	9693.0	9765.2	9797.5
5°	6507.9	6710.4	6778.8	6923.3	7136.7	7487.5	7626.5	7727.8	7795.1	7834.5	7850.9
7.5°	4450.8	4573.4	4710.8	4943.9	5408.5	5614.8	5706.8	5683.2	5607.7	5580.3	5553.5
10°	3355.2	3306.5	3280.8	3409.4	3785.4	3993.3	4058.4	3994.9	3953.4	3962.7	4007.5
12.5°	2599.5	2514.6	2411.7	2397.0	2644.9	2830.9	2872.5	2875.8	2951.9	3018.6	3118.2
15°	1894.6	1885.3	1834.9	1804.3	1944.9	2097.1	2115.1	2147.4	2216.4	2265.1	2351.5
17.5°	1335.8	1384.6	1424.5	1444.2	1550.9	1659.3	1639.6	1623.2	1610.6	1610.6	1652.2
20°	1077.5	1109.8	1160.7	1218.2	1327.1	1402.6	1353.9	1288.8	1241.7	1227.5	1233.0
22.5°	970.8	996.0	1025.0	1075.4	1173.3	1225.8	1173.3	1126.2	1079.2	1062.8	1057.3
25°	916.6	948.9	976.3	1014.1	1086.3	1122.4	1072.1	1037.6	1008.6	988.9	974.1
27.5°	886.0	914.5	922.1	940.2	1001.5	1033.8	1008.6	994.4	976.3	958.2	940.2
30°	853.2	847.7	835.1	836.8	886.0	918.3	916.6	919.9	918.3	912.8	909.5
32.5°	779.3	768.3	757.4	768.3	813.2	842.2	844.4	851.5	851.5	849.9	864.1
35°	649.0	668.7	681.3	714.2	768.3	793.5	782.6	764.5	732.2	712.0	710.3
37.5°	600.3	603.6	625.5	670.4	730.6	753.6	737.7	696.1	674.2	670.4	675.9
40°	576.8	580.1	592.7	634.3	693.9	717.4	703.2	672.6	652.3	650.7	660.0
42.5°	560.4	564.2	571.3	600.3	649.0	678.0	679.7	657.8	634.3	636.5	645.2
45°	551.1	553.3	551.1	565.9	610.7	645.2	660.0	645.2	625.5	629.3	639.7
47.5°	549.4	544.0	536.9	540.7	587.8	621.7	639.7	634.3	625.5	629.3	638.1
50°	542.3	529.7	520.4	518.8	565.9	602.0	618.4	618.4	621.7	629.3	638.1
52.5°	520.4	506.2	506.2	500.7	551.1	585.6	596.5	598.1	603.6	616.2	629.3
55°	493.6	488.2	493.6	484.3	540.7	573.0	578.4	582.3	585.6	596.5	614.6
57.5°	470.1	463.0	475.6	471.7	531.4	560.4	560.4	567.5	567.5	582.3	596.5
60°	457.5	442.7	448.2	452.0	518.8	549.4	546.2	553.3	556.6	569.7	580.1
62.5°	441.1	428.5	428.5	437.3	504.6	533.0	531.4	536.9	551.1	554.9	565.9
65°	421.4	415.9	410.4	421.4	489.8	515.0	517.2	524.3	536.9	540.7	549.4
67.5°	401.1	403.3	392.4	403.3	477.2	496.9	496.9	511.7	517.2	524.3	533.0
70°	379.8	381.4	372.1	385.3	468.4	477.2	475.6	495.3	499.1	504.6	513.3
72.5°	352.4	352.4	349.1	367.2	453.7	457.5	453.7	470.1	471.7	477.2	481.0
75°	323.4	323.4	320.1	345.3	444.9	435.6	424.7	437.3	441.1	444.9	444.9
77.5°	285.7	289.5	289.5	320.1	413.7	426.9	390.2	397.9	403.3	405.0	399.5
80°	238.6	247.9	251.2	291.1	347.0	394.0	349.1	354.1	356.3	356.3	349.1
82.5°	182.8	198.7	208.0	251.2	266.0	330.5	303.7	309.2	303.7	292.8	289.5
85°	126.4	148.3	159.3	191.5	200.8	255.0	252.8	252.8	242.4	227.7	226.0
87.5°	69.0	81.5	88.7	113.8	137.4	171.8	186.1	180.6	171.8	162.5	164.7
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: P299510

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**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3
2.5°	9967.7	10213.4	10605.8	10905.7	11207.7	11498.9	11813.6	12053.8	12257.9	12337.8	12579.7
5°	8015.6	8322.6	8693.1	9361.9	9835.8	10357.9	10962.0	11761.0	12068.0	12493.2	13188.8
7.5°	5667.4	5945.4	6541.9	7082.6	7753.5	8492.8	9307.7	10410.4	10813.7	11495.1	12628.4
10°	4231.9	4555.3	5034.2	5490.0	6081.1	6836.8	7773.2	9006.1	9495.9	10235.3	11540.5
12.5°	3409.4	3790.8	4298.7	4727.2	5184.7	5717.7	6627.2	7979.0	8635.7	9282.5	10601.9
15°	2619.2	3018.6	3490.9	4034.9	4538.9	5114.1	6066.9	7545.5	8300.7	8975.5	10101.2
17.5°	1813.1	2154.5	2749.4	3316.9	3962.7	4698.2	5911.4	7637.5	8539.3	9317.0	10188.2
20°	1285.5	1480.3	1968.5	2626.8	3431.3	4354.5	5882.4	8121.8	9295.1	10182.7	10744.8
22.5°	1080.8	1153.1	1437.1	2040.7	2969.9	4097.8	5983.7	8801.5	10314.6	11448.0	11632.4
25°	985.1	1028.8	1176.6	1601.8	2559.5	3911.8	6325.2	9813.9	11576.6	12713.8	12681.0
27.5°	932.5	977.9	1075.4	1352.3	2250.9	3796.3	6666.6	11014.6	13019.2	14087.4	13682.4
30°	916.6	977.9	1080.8	1274.6	2030.3	3613.5	6946.8	12068.0	14129.0	15015.0	14138.3
32.5°	904.1	912.8	959.9	1098.9	1820.2	3400.1	7136.7	13013.7	15215.3	15897.2	14794.4
35°	730.6	775.5	851.5	985.1	1697.6	3272.0	7136.7	13829.1	16285.7	16788.1	15420.0
37.5°	703.2	743.2	809.9	923.8	1628.6	3208.5	6993.9	14615.5	17379.1	17798.9	15934.9
40°	689.0	721.3	784.8	876.7	1599.6	3136.3	6785.9	15309.4	18447.4	18810.7	16416.0
42.5°	678.0	707.1	766.7	847.7	1561.9	3057.0	6617.9	15866.0	19375.0	19674.9	16875.1
45°	672.6	703.2	768.3	862.5	1485.8	2951.9	6562.1	16467.9	20137.8	20396.1	17372.0
47.5°	672.6	708.7	777.1	893.1	1395.5	2843.5	6737.2	17262.0	20859.1	20985.5	17957.6
50°	667.1	707.1	802.8	862.5	1263.6	2706.2	7149.3	18261.3	21640.0	21654.3	18699.1
52.5°	656.2	703.2	864.1	844.4	1111.5	2525.6	7706.4	19545.2	22795.3	22881.8	19859.3
55°	643.6	697.7	847.7	802.8	987.2	2310.5	8161.7	21104.8	24418.4	24658.7	21566.2
57.5°	627.2	690.6	820.9	744.8	905.7	2033.6	8326.5	22247.5	25551.8	26155.4	23489.2
60°	612.9	685.2	741.0	710.3	854.8	1800.5	8008.0	22021.5	25474.1	26775.5	25193.9
62.5°	598.1	690.6	675.9	689.0	831.3	1650.5	7176.7	20211.7	24185.3	26135.7	26457.5
65°	582.3	641.9	638.1	670.4	826.4	1590.9	5949.2	17498.4	21694.2	24113.1	26755.8
67.5°	560.4	592.7	610.7	647.4	844.4	1538.3	4801.1	14434.4	18232.3	21081.3	25201.0
70°	536.9	564.2	583.9	618.4	833.5	1514.8	3993.3	11382.9	14467.2	17277.9	22133.7
72.5°	506.2	529.7	547.8	580.1	822.5	1502.2	3373.3	9167.0	10801.1	12834.7	17995.9
75°	470.1	491.4	504.6	536.9	788.0	1375.8	2652.0	7756.8	8082.4	8928.4	14333.1
77.5°	428.5	444.9	455.3	491.4	697.7	1144.3	1918.1	5983.7	6276.4	6482.2	10988.8
80°	379.8	395.7	401.1	435.6	578.4	894.8	1251.0	4419.6	4694.3	4741.4	7176.7
82.5°	323.4	339.8	339.8	372.1	473.4	643.6	820.9	3028.0	3082.1	3241.4	5072.5
85°	260.5	273.1	273.1	289.5	367.2	481.0	564.2	1520.3	1503.9	1717.3	4394.4
87.5°	186.1	195.4	204.1	208.0	262.1	318.0	339.8	463.0	305.4	350.8	2821.6
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: P299510

CATALOG NUMBER: GLNA-AF-10-LED-E1-SLR-7030-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3	11110.3
2.5°	12762.5	12865.4	12760.3	12684.8	12357.5	12088.3	11728.2	11543.8
5°	13718.5	13980.7	13892.0	13574.1	12890.6	12122.2	11249.3	10855.3
7.5°	13603.1	14212.2	14226.4	13632.1	12625.1	11493.4	10311.3	9751.0
10°	12702.8	13481.6	13704.3	13127.5	12059.3	10794.0	9437.9	8798.2
12.5°	11697.5	12460.4	12630.6	12431.4	11538.8	10267.6	8892.3	8264.6
15°	10875.0	11217.1	11419.0	11593.0	11092.3	10058.0	8861.1	8172.7
17.5°	10374.3	10336.5	10394.5	10696.1	10780.9	10298.2	9331.2	8572.2
20°	10193.7	9613.6	9598.8	10014.7	10634.8	10871.7	10249.5	9338.3
22.5°	10293.3	9353.1	9233.8	9727.4	10712.5	11697.5	11453.5	10414.2
25°	10636.4	9375.0	9278.7	9756.4	10994.3	12578.1	12753.2	11805.9
27.5°	11177.1	9512.4	9385.4	9875.7	11368.6	13317.4	14033.2	13154.9
30°	11690.4	9751.0	9593.4	10110.5	11710.1	13610.2	14818.0	14206.7
32.5°	12314.3	10197.5	9920.6	10542.3	12133.2	14076.5	15517.4	15077.9
35°	12925.0	10833.4	10490.3	11209.4	12604.9	14657.1	16316.4	16191.6
37.5°	13596.0	11665.3	11381.2	12071.9	13250.6	15204.3	17335.9	17496.8
40°	14311.8	12768.0	12431.4	13330.0	14252.1	15891.7	18400.8	18787.2
42.5°	15033.0	13991.6	13590.5	14501.1	15352.6	16569.2	19311.5	19885.0
45°	15858.9	15320.4	15130.5	16115.5	16410.5	17214.9	19984.1	20696.6
47.5°	16820.9	16828.0	17133.4	17527.4	17477.1	17945.0	20660.5	21421.1
50°	17943.3	18709.5	19384.3	19645.8	18576.0	18729.7	21598.4	22392.0
52.5°	19291.8	20960.4	21795.5	21623.6	19760.2	19687.4	23084.2	23729.5
55°	20978.4	23343.1	24172.7	24049.6	21121.2	20992.6	24935.6	25311.6
57.5°	22930.5	25651.4	26414.3	25861.0	22755.3	22424.8	26466.8	26546.2
60°	24646.1	27480.9	28149.6	27536.7	24404.2	23948.4	27422.9	27037.6
62.5°	25600.5	28100.9	28571.0	27911.0	25533.7	25571.5	27632.5	26772.2
65°	25174.2	26533.6	26685.2	26631.0	25242.6	26513.3	26878.9	25544.7
67.5°	22838.5	22570.9	22825.9	23178.4	22748.2	25273.3	24790.6	22870.8
70°	18724.3	17254.4	17762.7	17999.2	18194.5	21748.4	21516.9	18628.5
72.5°	14110.9	12088.3	12489.4	12440.7	13344.2	17444.2	16733.9	13697.2
75°	9998.3	8196.2	8246.6	8226.9	9311.5	13648.0	12117.3	9371.2
77.5°	6995.5	5938.2	5965.6	6077.2	6260.0	10293.3	8657.0	6845.6
80°	4810.4	4506.6	4656.6	4665.9	4338.6	6914.5	6395.8	5493.9
82.5°	3582.9	3132.5	3096.4	3148.9	3400.1	5602.2	4914.9	3810.5
85°	2933.8	1854.6	1491.3	1869.4	3013.2	5548.1	3264.9	2010.1
87.5°	1652.2	880.5	397.9	737.7	1202.3	3673.2	943.5	256.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)