

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: P299479

Luminaire Tested: **GLNA-AF-05-LED-E1-SLR-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299479  
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-05-LED-E1-SLR-7027-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K 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: 14915.3 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

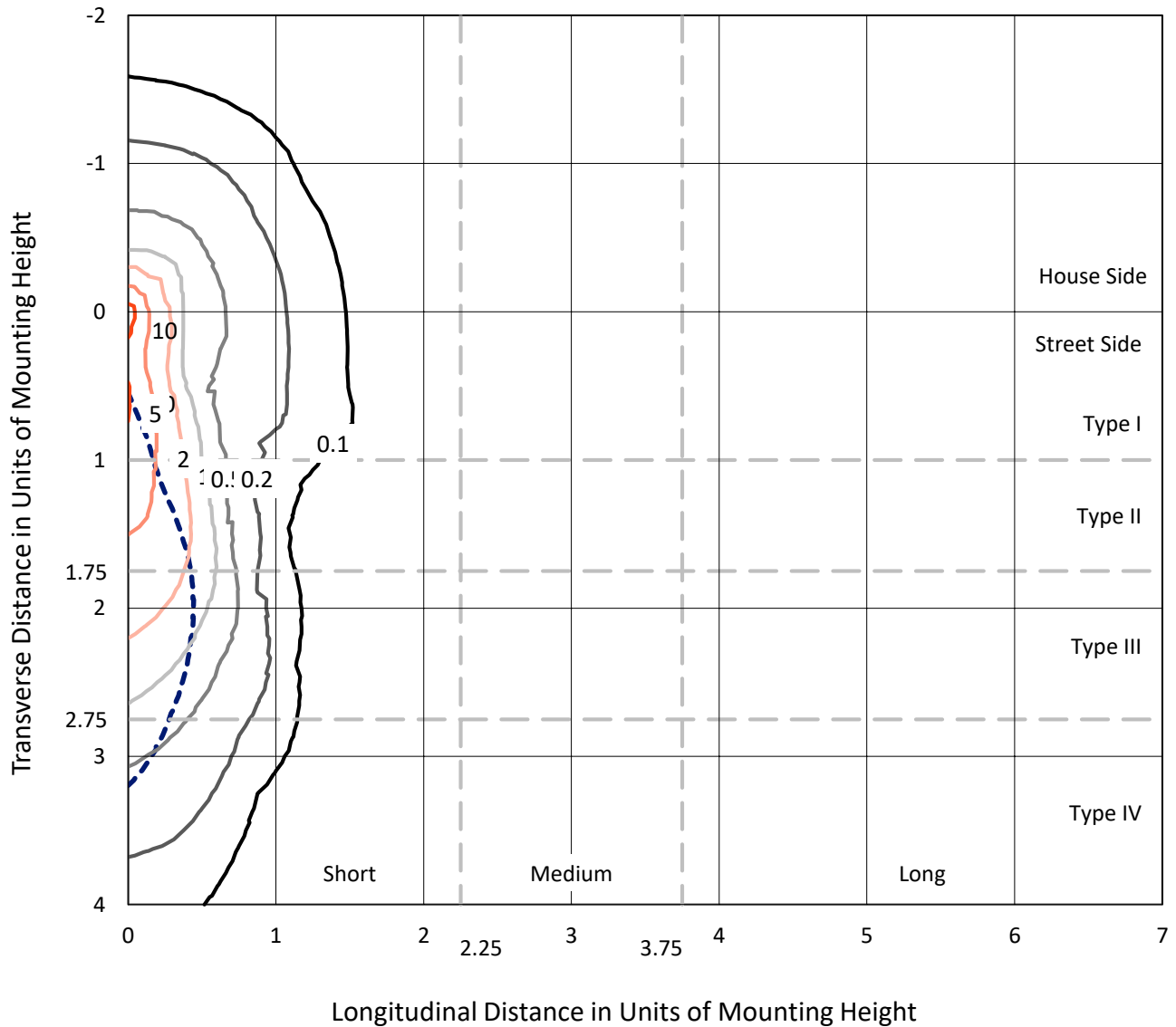
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P299479  
 CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7027-600

### Iso-Footcandle Lines of Horizontal Illumination

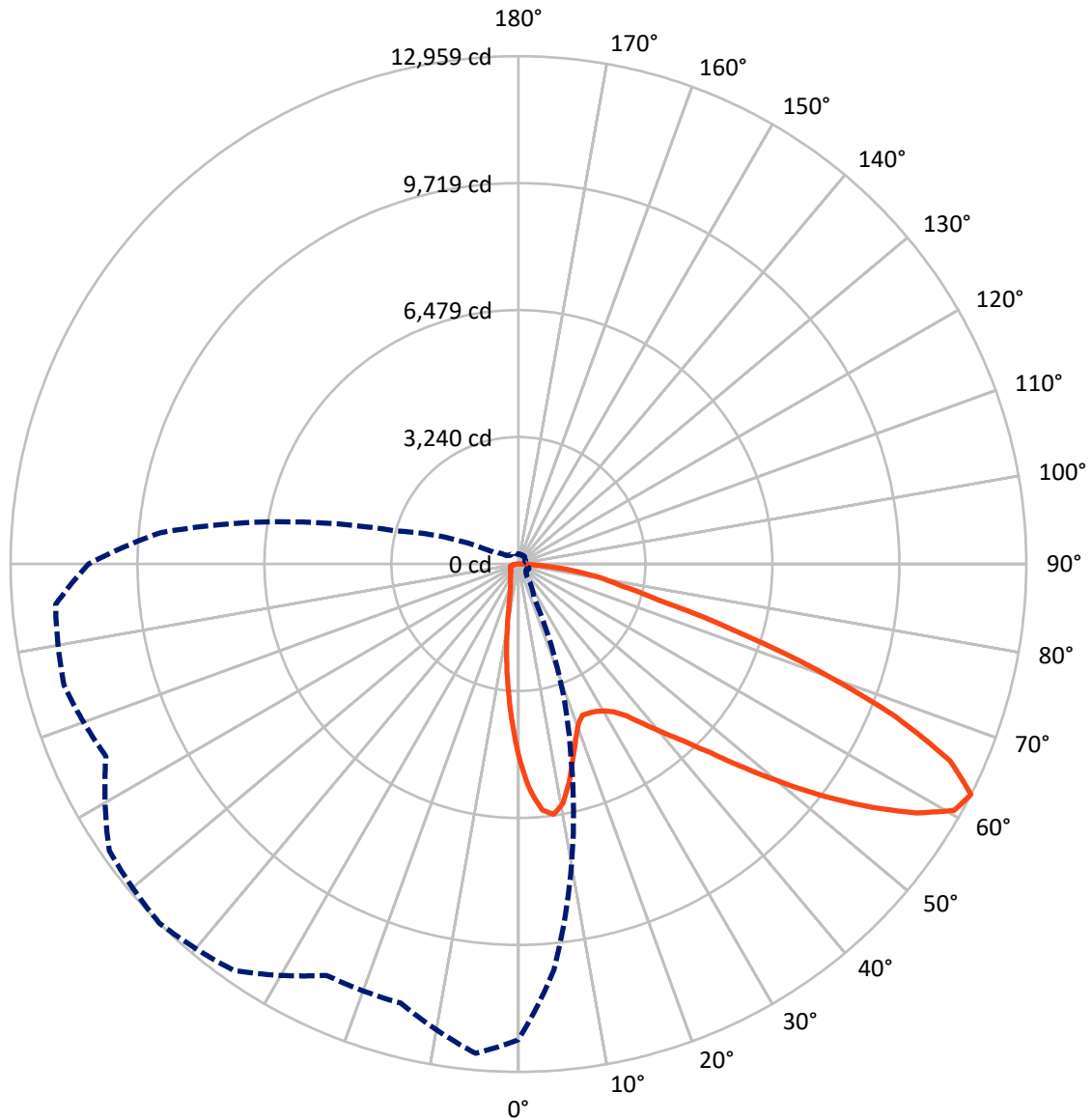
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.6 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P299479  
CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7027-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P299479

CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7027-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2468.3	0.0	2468.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	12447.0	0.0	12447.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	14915.3	0.0	14915.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.8	2.5
10°-20°	672.7	4.5
20°-30°	980.7	6.6
30°-40°	1510.5	10.1
40°-50°	2223.0	14.9
50°-60°	3260.7	21.9
60°-70°	3645.0	24.4
70°-80°	1784.6	12.0
80°-90°	471.2	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°	14915.3	100.0
0°-180°	14915.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P299479

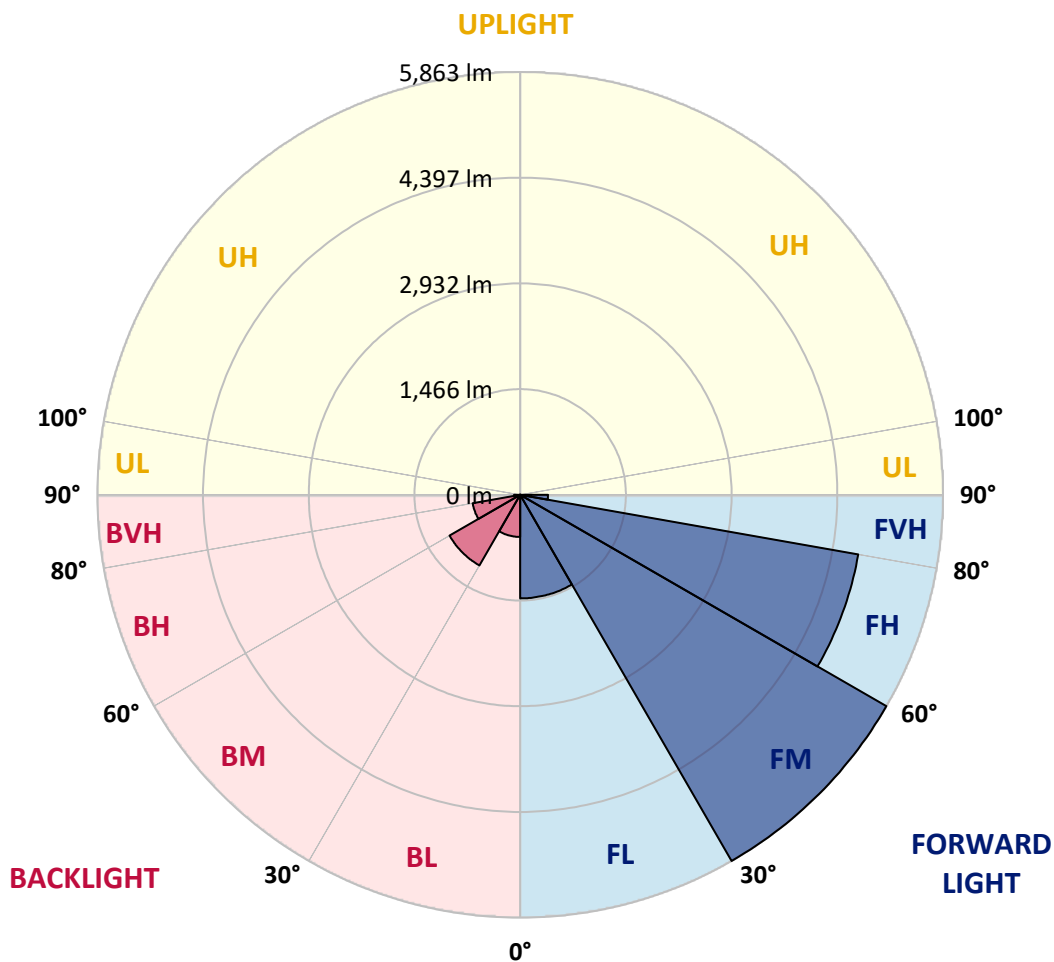
CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7027-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1436.3	9.6			
FM	(30°-60°)	5863.3	39.3			
FH	(60°-80°)	4760.4	31.9			G2/5000
FVH	(80°-90°)	386.9	2.6			G3/500
BL	(0°-30°)	584.0	3.9	B2/1000		
BM	(30°-60°)	1130.9	7.6	B2/2500		
BH	(60°-80°)	669.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	84.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





REPORT NUMBER: P299479

CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7027-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3
2.5°	5235.9	5129.4	4952.1	4767.7	4655.5	4524.2	4421.7	4331.6	4151.2	4115.9	4147.9
5°	4923.6	4709.6	4375.8	4039.7	3815.8	3575.5	3388.6	3238.7	3009.9	2969.6	3018.1
7.5°	4422.7	4166.8	3725.7	3296.8	2980.3	2680.2	2478.7	2317.8	2139.1	2062.2	2066.9
10°	3990.6	3701.9	3180.4	2714.0	2454.8	2252.3	2082.5	1917.7	1736.5	1617.6	1584.9
12.5°	3748.5	3416.7	2815.5	2399.0	2158.7	1945.8	1762.8	1586.6	1393.0	1271.6	1237.4
15°	3706.8	3345.9	2678.7	2197.5	1896.4	1626.8	1411.1	1214.3	1015.0	916.7	896.1
17.5°	3888.0	3472.3	2634.3	2017.7	1649.6	1316.8	1051.9	832.3	669.9	620.8	616.6
20°	4235.5	3715.0	2628.6	1849.0	1406.1	1015.9	733.0	573.1	501.9	487.7	488.7
22.5°	4723.5	4091.3	2699.1	1721.9	1182.2	757.6	551.0	479.6	451.8	438.6	438.6
25°	5354.8	4609.6	2861.4	1629.3	987.9	605.1	486.3	443.6	417.3	408.3	410.1
27.5°	5966.6	5113.7	3050.1	1556.3	860.8	549.3	460.7	422.2	399.4	390.2	394.4
30°	6443.7	5561.5	3207.4	1457.0	796.0	533.7	469.9	430.4	397.6	383.7	384.5
32.5°	6838.8	5953.4	3339.5	1385.5	738.7	457.5	405.1	387.7	383.7	367.4	359.2
35°	7343.9	6380.6	3428.1	1387.3	711.6	408.3	360.7	330.4	308.3	289.4	289.4
37.5°	7935.9	6870.8	3522.4	1406.1	702.0	379.5	345.3	314.7	294.4	276.3	273.0
40°	8521.2	7351.4	3608.6	1424.3	696.0	362.4	332.9	305.1	286.2	268.1	263.1
42.5°	9019.2	7746.6	3685.5	1433.2	676.4	360.7	323.9	298.4	280.5	260.6	255.9
45°	9387.3	8077.7	3768.4	1447.1	656.8	367.4	323.9	297.6	275.5	256.7	251.7
47.5°	9715.9	8466.4	3906.9	1447.1	632.9	354.9	334.6	298.4	274.8	254.9	250.9
50°	10156.2	8999.3	4169.3	1413.6	599.4	341.8	352.5	295.1	267.3	251.7	246.7
52.5°	10762.9	9682.4	4585.8	1355.3	547.8	316.5	350.0	293.6	259.9	243.5	237.8
55°	11480.5	10413.6	5040.0	1287.2	470.6	298.4	337.8	289.4	251.7	233.6	227.9
57.5°	12040.4	10917.0	5359.7	1182.2	403.3	288.7	299.3	285.4	241.8	222.9	218.2
60°	12263.3	10897.4	5447.6	1042.0	370.6	280.5	261.6	319.7	233.6	214.7	209.0
62.5°	12142.9	10394.0	5201.6	943.7	363.1	269.8	245.2	295.9	227.1	209.0	200.8
65°	11586.2	9501.9	4549.8	917.4	384.5	259.1	234.6	232.1	218.2	200.8	192.6
67.5°	10373.4	8168.8	3642.8	919.9	411.5	248.5	223.9	212.5	205.8	191.9	184.4
70°	8449.3	6458.6	2715.5	926.6	425.4	236.1	212.5	200.1	192.6	178.7	173.8
72.5°	6212.6	4977.7	1972.8	883.9	427.9	222.2	196.8	186.2	178.7	164.1	159.9
75°	4250.4	3807.6	1368.4	732.2	373.1	202.5	179.5	169.8	164.8	146.7	144.2
77.5°	3104.9	2858.2	875.7	543.6	287.7	178.0	158.4	150.9	147.7	127.8	124.6
80°	2491.8	2261.2	547.8	372.3	210.7	149.2	132.8	128.8	125.3	105.7	103.3
82.5°	1728.3	1514.4	351.7	241.8	158.4	115.7	105.0	103.3	98.3	80.4	77.9
85°	911.7	822.3	222.9	164.8	114.7	79.4	73.0	73.0	70.5	53.4	51.6
87.5°	116.4	189.4	113.2	86.1	63.0	35.2	35.2	34.5	37.0	30.3	26.3
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: P299479

CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7027-600

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3
2.5°	4072.5	4111.9	4074.2	4076.7	4118.4	4243.0	4299.6	4346.3	4396.4	4429.2	4443.8
5°	2951.8	3043.6	3074.6	3140.2	3237.0	3396.1	3459.1	3505.0	3535.6	3553.5	3560.9
7.5°	2018.7	2074.3	2136.6	2242.4	2453.1	2546.7	2588.4	2577.7	2543.5	2531.1	2518.9
10°	1521.8	1499.7	1488.1	1546.4	1716.9	1811.2	1840.8	1812.0	1793.1	1797.3	1817.7
12.5°	1179.0	1140.5	1093.9	1087.2	1199.6	1284.0	1302.9	1304.4	1338.9	1369.2	1414.3
15°	859.3	855.1	832.3	818.4	882.2	951.2	959.4	974.0	1005.3	1027.4	1066.6
17.5°	605.9	628.0	646.1	655.0	703.4	752.6	743.7	736.2	730.5	730.5	749.4
20°	488.7	503.4	526.5	552.5	601.9	636.2	614.1	584.5	563.2	556.7	559.2
22.5°	440.3	451.8	464.9	487.7	532.2	556.0	532.2	510.8	489.5	482.0	479.6
25°	415.8	430.4	442.8	459.9	492.7	509.1	486.3	470.6	457.5	448.5	441.8
27.5°	401.9	414.8	418.2	426.4	454.2	468.9	457.5	451.0	442.8	434.6	426.4
30°	387.0	384.5	378.8	379.5	401.9	416.5	415.8	417.3	416.5	414.0	412.5
32.5°	353.5	348.5	343.5	348.5	368.8	382.0	383.0	386.2	386.2	385.5	391.9
35°	294.4	303.3	309.0	323.9	348.5	359.9	354.9	346.8	332.1	322.9	322.2
37.5°	272.3	273.8	283.7	304.1	331.4	341.8	334.6	315.7	305.8	304.1	306.5
40°	261.6	263.1	268.8	287.7	314.7	325.4	319.0	305.1	295.9	295.1	299.3
42.5°	254.2	255.9	259.1	272.3	294.4	307.5	308.3	298.4	287.7	288.7	292.6
45°	250.0	250.9	250.0	256.7	277.0	292.6	299.3	292.6	283.7	285.4	290.2
47.5°	249.2	246.7	243.5	245.2	266.6	282.0	290.2	287.7	283.7	285.4	289.4
50°	246.0	240.3	236.1	235.3	256.7	273.0	280.5	280.5	282.0	285.4	289.4
52.5°	236.1	229.6	229.6	227.1	250.0	265.6	270.6	271.3	273.8	279.5	285.4
55°	223.9	221.4	223.9	219.7	245.2	259.9	262.4	264.1	265.6	270.6	278.7
57.5°	213.2	210.0	215.7	214.0	241.0	254.2	254.2	257.4	257.4	264.1	270.6
60°	207.5	200.8	203.3	205.0	235.3	249.2	247.7	250.9	252.4	258.4	263.1
62.5°	200.1	194.4	194.4	198.3	228.9	241.8	241.0	243.5	250.0	251.7	256.7
65°	191.1	188.6	186.2	191.1	222.2	233.6	234.6	237.8	243.5	245.2	249.2
67.5°	181.9	182.9	178.0	182.9	216.4	225.4	225.4	232.1	234.6	237.8	241.8
70°	172.3	173.0	168.8	174.7	212.5	216.4	215.7	224.6	226.4	228.9	232.8
72.5°	159.9	159.9	158.4	166.6	205.8	207.5	205.8	213.2	214.0	216.4	218.2
75°	146.7	146.7	145.2	156.6	201.8	197.6	192.6	198.3	200.1	201.8	201.8
77.5°	129.6	131.3	131.3	145.2	187.7	193.6	177.0	180.5	182.9	183.7	181.2
80°	108.2	112.4	113.9	132.1	157.4	178.7	158.4	160.6	161.6	161.6	158.4
82.5°	82.9	90.1	94.3	113.9	120.6	149.9	137.8	140.2	137.8	132.8	131.3
85°	57.3	67.3	72.2	86.9	91.1	115.7	114.7	114.7	110.0	103.3	102.5
87.5°	31.3	37.0	40.2	51.6	62.3	77.9	84.4	81.9	77.9	73.7	74.7
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: P299479

CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7027-600

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3
2.5°	4521.0	4632.4	4810.4	4946.4	5083.5	5215.5	5358.2	5467.2	5559.8	5596.0	5705.7
5°	3635.6	3774.9	3942.9	4246.2	4461.2	4698.0	4972.0	5334.4	5473.6	5666.5	5982.0
7.5°	2570.5	2696.6	2967.2	3212.4	3516.7	3852.1	4221.6	4721.8	4904.7	5213.8	5727.8
10°	1919.4	2066.1	2283.3	2490.1	2758.2	3101.0	3525.7	4084.9	4307.0	4642.4	5234.4
12.5°	1546.4	1719.4	1949.7	2144.1	2351.6	2593.4	3005.9	3619.0	3916.8	4210.2	4808.7
15°	1188.0	1369.2	1583.4	1830.1	2058.7	2319.6	2751.7	3422.4	3764.9	4071.0	4581.6
17.5°	822.3	977.2	1247.0	1504.4	1797.3	2130.9	2681.2	3464.1	3873.2	4225.9	4621.0
20°	583.1	671.4	892.8	1191.4	1556.3	1975.0	2668.1	3683.8	4215.9	4618.5	4873.5
22.5°	490.2	523.0	651.8	925.6	1347.1	1858.6	2714.0	3992.0	4678.4	5192.4	5276.1
25°	446.8	466.6	533.7	726.5	1160.9	1774.2	2868.9	4451.2	5250.7	5766.5	5751.6
27.5°	423.0	443.6	487.7	613.3	1020.9	1721.9	3023.8	4995.8	5905.0	6389.6	6205.9
30°	415.8	443.6	490.2	578.1	920.9	1639.0	3150.8	5473.6	6408.4	6810.3	6412.6
32.5°	410.1	414.0	435.4	498.4	825.6	1542.2	3237.0	5902.6	6901.1	7210.4	6710.3
35°	331.4	351.7	386.2	446.8	770.0	1484.1	3237.0	6272.4	7386.6	7614.5	6994.0
37.5°	319.0	337.1	367.4	419.0	738.7	1455.3	3172.2	6629.1	7882.6	8073.0	7227.5
40°	312.5	327.1	355.9	397.6	725.5	1422.5	3077.9	6943.8	8367.1	8531.9	7445.7
42.5°	307.5	320.7	347.7	384.5	708.4	1386.5	3001.7	7196.3	8787.8	8923.8	7654.0
45°	305.1	319.0	348.5	391.2	673.9	1338.9	2976.4	7469.3	9133.8	9251.0	7879.3
47.5°	305.1	321.4	352.5	405.1	632.9	1289.7	3055.8	7829.5	9461.0	9518.3	8144.9
50°	302.6	320.7	364.1	391.2	573.1	1227.4	3242.7	8282.7	9815.2	9821.6	8481.3
52.5°	297.6	319.0	391.9	383.0	504.1	1145.5	3495.4	8865.0	10339.2	10378.4	9007.5
55°	291.9	316.5	384.5	364.1	447.8	1048.0	3701.9	9572.4	11075.4	11184.3	9781.7
57.5°	284.5	313.2	372.3	337.8	410.8	922.4	3776.6	10090.7	11589.4	11863.2	10653.9
60°	278.0	310.8	336.1	322.2	387.7	816.6	3632.1	9988.2	11554.2	12144.4	11427.1
62.5°	271.3	313.2	306.5	312.5	377.0	748.6	3255.1	9167.3	10969.6	11854.3	12000.2
65°	264.1	291.2	289.4	304.1	374.8	721.6	2698.3	7936.7	9839.8	10936.9	12135.5
67.5°	254.2	268.8	277.0	293.6	383.0	697.7	2177.6	6546.9	8269.5	9561.8	11430.3
70°	243.5	255.9	264.8	280.5	378.0	687.1	1811.2	5162.9	6561.8	7836.7	10039.1
72.5°	229.6	240.3	248.5	263.1	373.1	681.4	1530.0	4157.9	4899.0	5821.4	8162.3
75°	213.2	222.9	228.9	243.5	357.4	624.0	1202.9	3518.2	3665.9	4049.6	6501.0
77.5°	194.4	201.8	206.5	222.9	316.5	519.0	870.0	2714.0	2846.8	2940.1	4984.2
80°	172.3	179.5	181.9	197.6	262.4	405.8	567.4	2004.6	2129.2	2150.5	3255.1
82.5°	146.7	154.1	154.1	168.8	214.7	291.9	372.3	1373.4	1397.9	1470.2	2300.7
85°	118.2	123.9	123.9	131.3	166.6	218.2	255.9	689.5	682.1	778.9	1993.2
87.5°	84.4	88.6	92.6	94.3	118.9	144.2	154.1	210.0	138.5	159.1	1279.8
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: P299479

CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7027-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3	5039.3
2.5°	5788.6	5835.3	5787.6	5753.4	5605.0	5482.8	5319.5	5235.9
5°	6222.3	6341.2	6300.9	6156.7	5846.7	5498.2	5102.3	4923.6
7.5°	6169.9	6446.2	6452.6	6183.0	5726.3	5213.0	4676.9	4422.7
10°	5761.6	6114.8	6215.8	5954.2	5469.7	4895.8	4280.7	3990.6
12.5°	5305.6	5651.6	5728.8	5638.5	5233.6	4657.0	4033.3	3748.5
15°	4932.5	5087.7	5179.3	5258.2	5031.1	4562.0	4019.1	3706.8
17.5°	4705.4	4688.3	4714.6	4851.4	4889.8	4670.9	4232.3	3888.0
20°	4623.5	4360.4	4353.7	4542.3	4823.6	4931.0	4648.8	4235.5
22.5°	4668.7	4242.2	4188.1	4412.0	4858.8	5305.6	5194.9	4723.5
25°	4824.3	4252.2	4208.5	4425.2	4986.6	5705.0	5784.4	5354.8
27.5°	5069.6	4314.5	4256.9	4479.3	5156.4	6040.3	6365.0	5966.6
30°	5302.4	4422.7	4351.2	4585.8	5311.3	6173.1	6720.9	6443.7
32.5°	5585.3	4625.2	4499.6	4781.6	5503.2	6384.6	7038.1	6838.8
35°	5862.4	4913.7	4758.0	5084.2	5717.1	6648.0	7400.5	7343.9
37.5°	6166.7	5291.0	5162.1	5475.4	6010.0	6896.2	7863.0	7935.9
40°	6491.3	5791.1	5638.5	6046.0	6464.3	7207.9	8346.0	8521.2
42.5°	6818.5	6346.1	6164.2	6577.2	6963.4	7515.2	8759.0	9019.2
45°	7193.0	6948.8	6862.7	7309.4	7443.2	7808.1	9064.1	9387.3
47.5°	7629.4	7632.6	7771.1	7949.8	7927.0	8139.2	9370.9	9715.9
50°	8138.5	8486.0	8792.0	8910.7	8425.4	8495.2	9796.3	10156.2
52.5°	8750.1	9506.9	9885.7	9807.7	8962.6	8929.5	10470.2	10762.9
55°	9515.1	10587.6	10963.9	10908.1	9579.9	9521.5	11309.9	11480.5
57.5°	10400.5	11634.6	11980.6	11729.7	10321.0	10171.1	12004.4	12040.4
60°	11178.6	12464.4	12767.7	12489.7	11068.9	10862.2	12438.1	12263.3
62.5°	11611.5	12745.6	12958.8	12659.5	11581.2	11598.4	12533.1	12142.9
65°	11418.2	12034.7	12103.5	12078.9	11449.2	12025.5	12191.3	11586.2
67.5°	10358.8	10237.4	10353.1	10512.9	10317.8	11463.1	11244.2	10373.4
70°	8492.7	7826.0	8056.6	8163.8	8252.4	9864.3	9759.3	8449.3
72.5°	6400.2	5482.8	5664.8	5642.7	6052.5	7912.1	7589.9	6212.6
75°	4534.9	3717.5	3740.4	3731.4	4223.4	6190.2	5496.0	4250.4
77.5°	3172.9	2693.4	2705.8	2756.4	2839.3	4668.7	3926.5	3104.9
80°	2181.8	2044.1	2112.1	2116.3	1967.9	3136.2	2900.9	2491.8
82.5°	1625.1	1420.8	1404.4	1428.2	1542.2	2541.0	2229.2	1728.3
85°	1330.7	841.2	676.4	847.9	1366.7	2516.4	1480.9	911.7
87.5°	749.4	399.4	180.5	334.6	545.3	1666.0	427.9	116.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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