

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: P299005

Luminaire Tested: **GLNA-AF-06-LED-E1-SLL-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)  
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-SLL-7027-600  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Left OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17848.8 lumens  
Efficiency: N/A  
Efficacy: 92.5 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): 193  
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

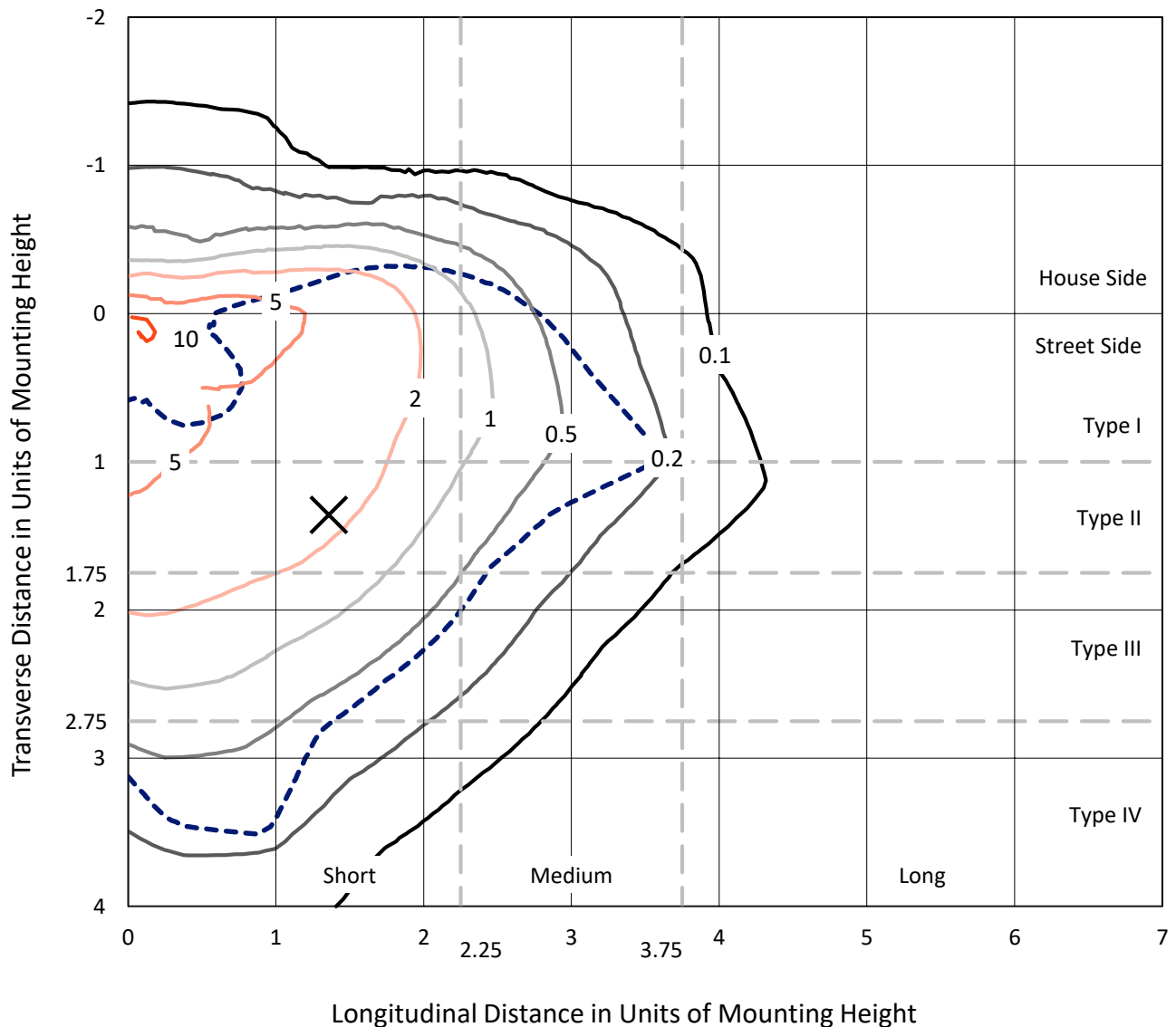


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### Iso-Footcandle Lines of Horizontal Illumination

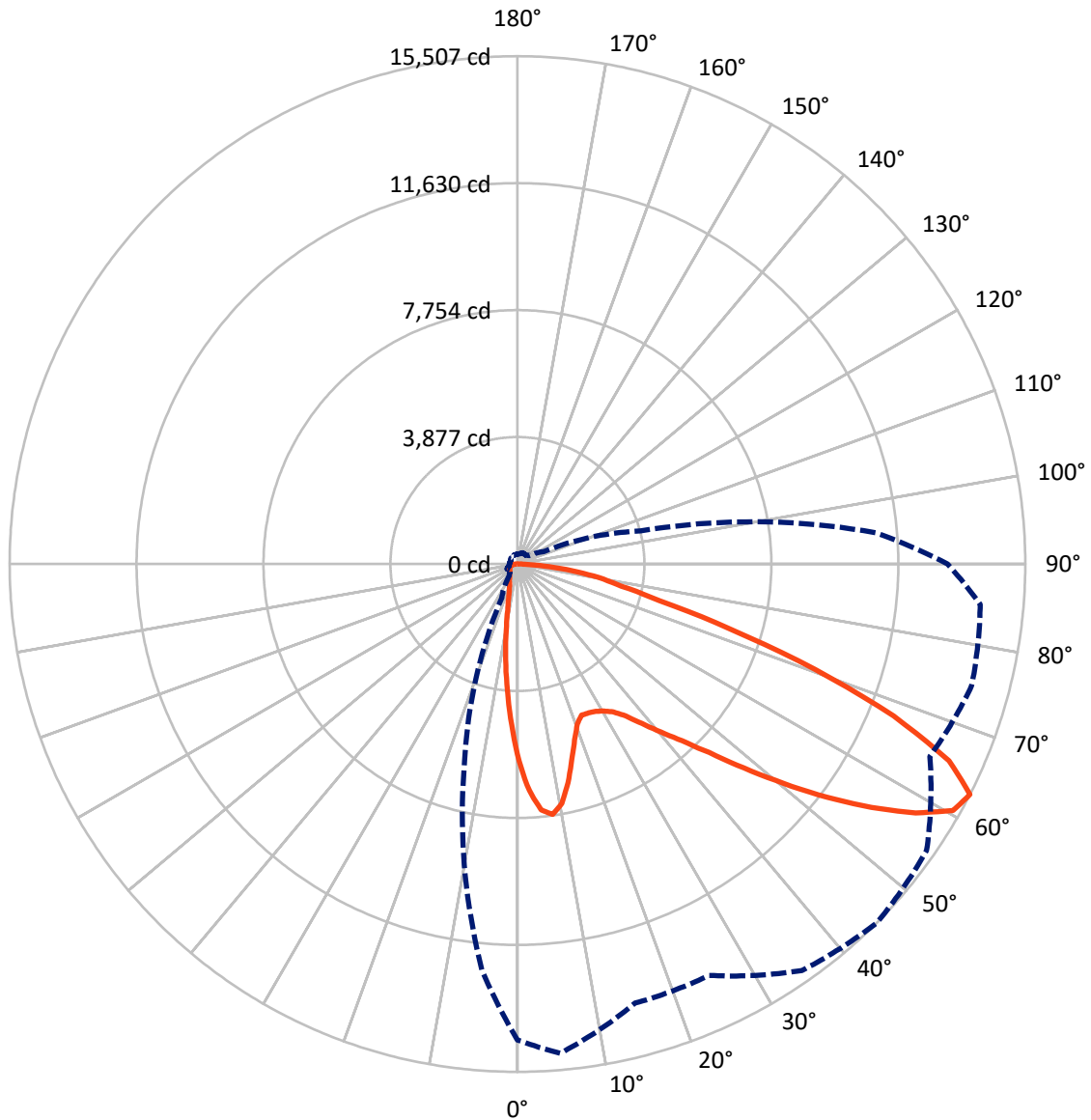
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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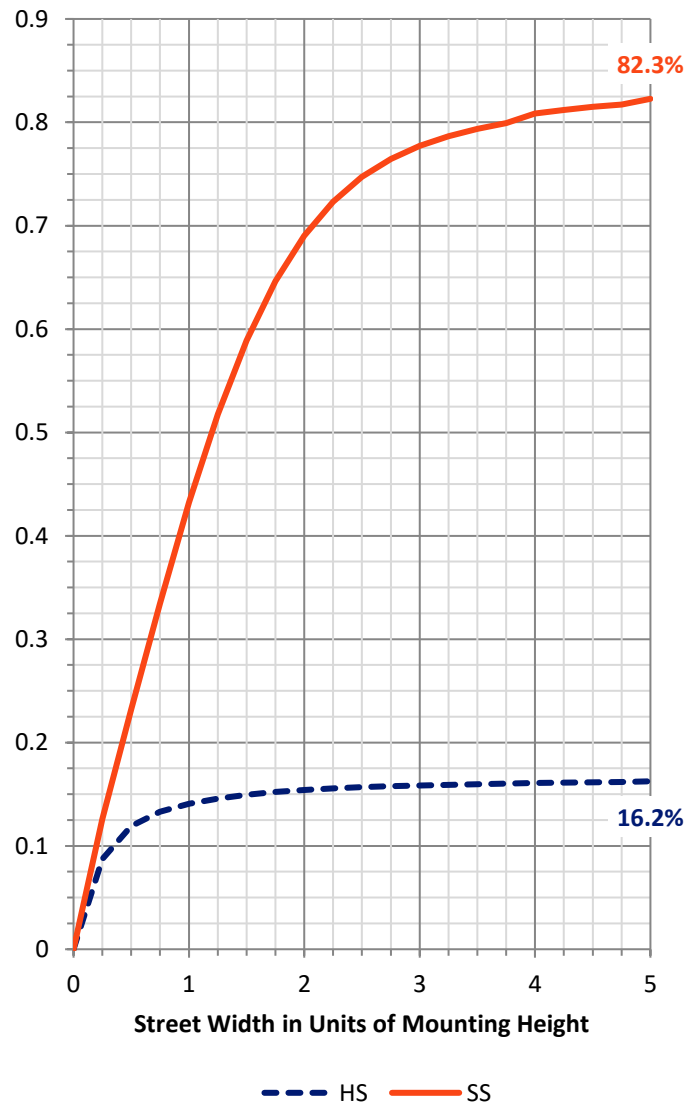
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2953.7	0.0	2953.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14895.1	0.0	14895.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	17848.8	0.0	17848.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.0	2.5
10°-20°	805.0	4.5
20°-30°	1173.6	6.6
30°-40°	1807.6	10.1
40°-50°	2660.3	14.9
50°-60°	3902.1	21.9
60°-70°	4361.9	24.4
70°-80°	2135.5	12.0
80°-90°	563.8	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°	17848.8	100.0
0°-180°	17848.8	100.0

**Coefficient of Utilization**



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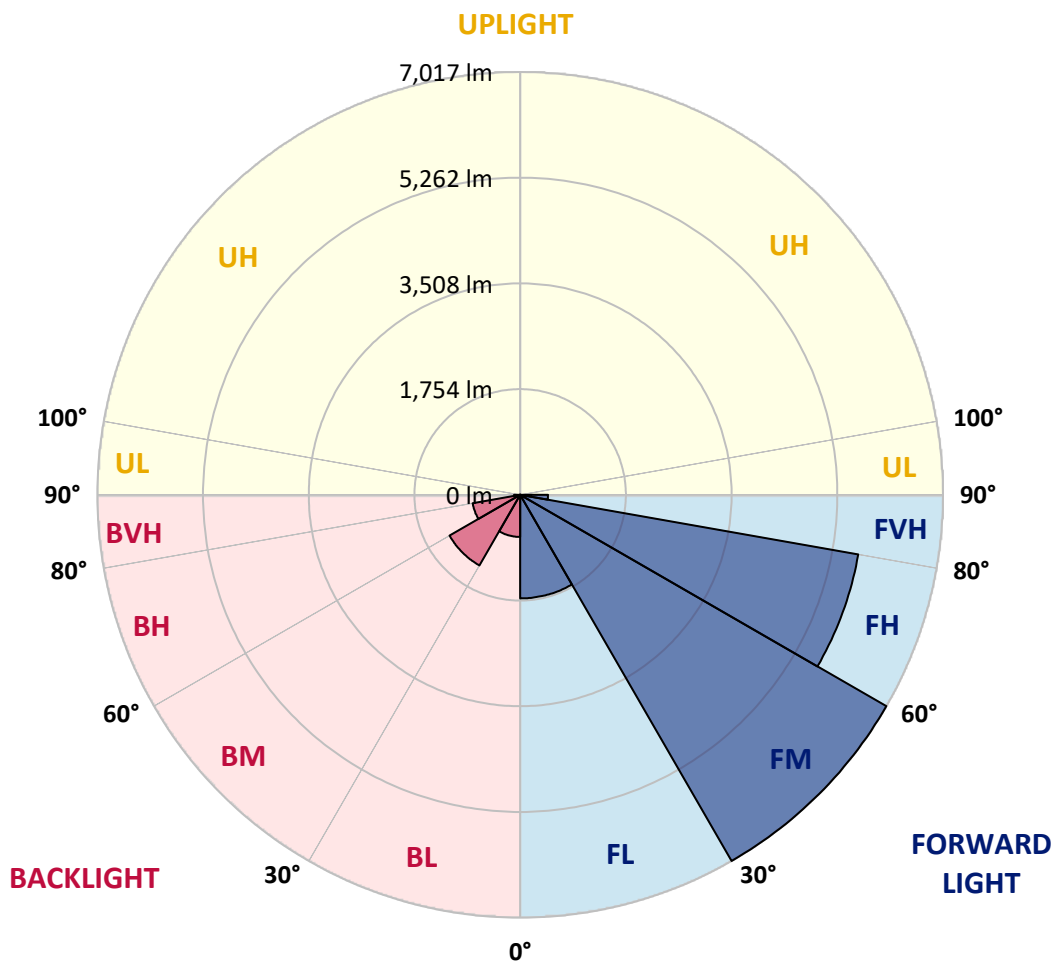
CATALOG NUMBER: GLNA-AF-06-LED-E1-SLL-7027-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1718.8	9.6			
FM	(30°-60°)	7016.5	39.3			
FH	(60°-80°)	5696.7	31.9			G3/7500
FVH	(80°-90°)	463.0	2.6			G3/500
BL	(0°-30°)	698.8	3.9	B2/1000		
BM	(30°-60°)	1353.4	7.6	B2/2500		
BH	(60°-80°)	800.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	100.8	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5
2.5°	6265.5	6365.9	6561.1	6707.0	6885.1	6926.1	6983.2	6927.1	6828.0	6696.5	6653.5
5°	5891.9	6106.0	6579.6	6996.9	7367.6	7540.2	7588.7	7446.0	7158.7	6780.9	6550.3
7.5°	5292.5	5596.7	6238.1	6852.6	7398.8	7721.8	7713.8	7383.2	6854.5	6239.1	5869.3
10°	4775.2	5122.7	5858.8	6545.5	7125.2	7438.3	7317.3	6894.9	6263.6	5555.2	5154.2
12.5°	4486.0	4826.5	5573.1	6262.7	6747.5	6855.4	6763.1	6349.0	5754.3	5038.3	4687.0
15°	4435.7	4809.9	5459.4	6020.6	6292.3	6198.3	6088.1	5902.7	5482.6	4871.4	4505.4
17.5°	4652.9	5064.7	5590.0	5851.8	5805.6	5641.6	5610.3	5631.1	5530.1	5056.8	4635.1
20°	5068.9	5563.2	5900.8	5772.5	5435.8	5210.0	5217.9	5532.9	5832.0	5526.9	5045.0
22.5°	5652.4	6216.8	6349.0	5814.5	5279.7	5011.9	5076.8	5587.1	6314.0	6213.9	5598.6
25°	6407.9	6922.3	6827.1	5967.4	5295.3	5036.4	5088.3	5773.4	6882.8	6900.7	6283.7
27.5°	7139.9	7617.0	7228.1	6170.6	5360.3	5094.4	5163.2	6066.5	7426.5	7646.3	7066.6
30°	7711.0	8042.9	7387.0	6356.0	5487.7	5207.1	5292.5	6345.2	7674.0	8149.6	7668.9
32.5°	8184.0	8422.2	7640.3	6585.6	5722.1	5384.5	5534.9	6683.7	8030.1	8628.6	8258.5
35°	8788.2	8856.0	7955.3	6841.7	6084.3	5693.8	5880.1	7015.3	8369.7	9112.1	8839.5
37.5°	9496.9	9409.6	8252.4	7192.1	6552.5	6177.3	6331.5	7379.4	8649.0	9660.6	9432.9
40°	10197.3	9987.1	8625.7	7735.5	7235.4	6747.5	6930.0	7768.0	8910.2	10210.0	10012.9
42.5°	10792.9	10481.7	8993.3	8333.0	7870.9	7376.5	7594.4	8159.4	9159.3	10678.9	10516.1
45°	11233.4	10846.8	9343.7	8907.0	8747.1	8212.3	8315.5	8607.6	9429.0	11070.7	10930.2
47.5°	11626.8	11213.7	9739.9	9486.1	9513.4	9299.4	9133.5	9129.6	9747.2	11390.5	11321.7
50°	12153.6	11723.0	10165.8	10082.3	10663.3	10520.9	10154.9	9739.0	10149.2	11753.6	11745.6
52.5°	12879.8	12529.8	10685.9	10725.1	11737.0	11830.0	11376.5	10471.2	10778.9	12419.6	12372.8
55°	13738.6	13534.1	11394.6	11464.0	13053.4	13120.3	12669.6	11386.3	11705.5	13384.4	13253.8
57.5°	14408.4	14365.4	12171.5	12351.1	14036.7	14337.1	13923.0	12446.3	12749.3	14196.6	13868.8
60°	14675.3	14884.3	12998.7	13245.8	14946.4	15278.6	14915.8	13377.1	13674.5	14533.3	13826.8
62.5°	14531.4	14998.0	13879.7	13859.0	15149.3	15507.3	15252.2	13895.3	14360.6	14185.8	13127.3
65°	13865.0	14589.0	14390.9	13701.0	14454.6	14483.9	14401.4	13663.7	14522.4	13087.8	11774.9
67.5°	12413.5	13455.7	13717.5	12347.3	12580.4	12389.3	12250.8	12396.0	13678.4	11442.4	9896.0
70°	10111.0	11679.0	11804.2	9875.6	9769.5	9640.9	9365.3	10162.9	12013.5	9378.1	7852.4
72.5°	7434.5	9082.8	9468.2	7243.1	6752.5	6778.7	6561.1	7658.7	9767.6	6966.3	5862.6
75°	5086.4	6576.7	7408.1	5053.9	4465.6	4476.1	4448.4	5426.9	7779.8	4845.9	4386.9
77.5°	3715.8	4698.8	5587.1	3397.6	3298.6	3237.7	3223.1	3797.0	5964.5	3518.7	3406.5
80°	2981.6	3471.5	3752.8	2354.8	2532.2	2527.4	2445.9	2610.9	3895.1	2573.6	2547.8
82.5°	2068.4	2667.9	3040.6	1845.5	1709.2	1680.5	1700.6	1944.5	2753.3	1759.2	1672.8
85°	1091.2	1771.9	3011.3	1635.6	1014.5	809.4	1006.8	1592.3	2385.4	932.3	816.0
87.5°	139.5	512.2	1993.6	652.6	400.4	215.6	478.1	896.6	1531.7	190.2	165.9
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°	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5
2.5°	6542.6	6412.1	6241.3	6083.0	5919.3	5756.2	5543.5	5410.0	5318.0	5300.1	5261.3
5°	6383.7	5949.9	5622.1	5338.7	5081.6	4718.2	4517.2	4350.3	4261.1	4252.5	4230.9
7.5°	5650.5	5052.0	4609.6	4208.2	3844.2	3550.8	3226.9	3076.2	3014.1	3028.8	3043.4
10°	4888.0	4219.1	3710.7	3300.5	2979.7	2732.6	2472.6	2297.1	2175.1	2150.6	2145.8
12.5°	4330.9	3597.0	3103.6	2813.8	2566.0	2333.1	2057.6	1850.3	1692.6	1638.4	1602.5
15°	4095.2	3292.8	2775.9	2463.7	2189.8	1894.5	1638.4	1421.5	1276.6	1229.5	1203.0
17.5°	4145.5	3208.4	2550.0	2150.6	1800.6	1492.2	1169.6	983.9	896.6	874.3	874.3
20°	4408.6	3192.8	2363.4	1862.4	1425.4	1068.3	803.6	697.6	669.2	666.3	674.0
22.5°	4777.4	3247.9	2224.5	1612.3	1107.8	780.0	625.9	586.7	574.0	577.2	585.8
25°	5326.9	3433.3	2123.5	1389.4	869.2	638.6	558.0	534.8	528.7	536.7	547.5
27.5°	5978.2	3618.7	2060.5	1221.5	733.9	583.8	530.6	506.4	510.3	520.1	529.7
30°	6550.3	3770.9	1961.4	1102.1	691.8	586.7	530.6	497.5	493.7	495.6	498.5
32.5°	7063.7	3873.8	1845.5	988.0	596.6	521.1	495.6	490.8	468.9	460.9	462.2
35°	7506.2	3873.8	1776.0	921.5	534.8	462.2	421.1	396.6	385.4	386.4	397.5
37.5°	7933.0	3796.1	1741.6	883.9	501.3	439.6	403.2	381.6	366.9	364.1	366.0
40°	8309.5	3683.3	1702.5	868.3	475.9	425.9	391.8	373.6	358.0	353.2	354.2
42.5°	8611.7	3591.9	1659.2	847.9	459.9	416.0	383.5	367.9	350.4	345.3	344.3
45°	8938.5	3561.7	1602.5	806.5	467.9	416.9	381.6	365.0	347.2	341.4	339.5
47.5°	9369.2	3656.9	1543.5	757.4	484.8	422.0	384.4	365.0	346.2	341.4	339.5
50°	9911.6	3880.5	1468.7	685.8	467.9	435.7	383.5	361.8	346.2	341.4	337.6
52.5°	10608.5	4182.8	1370.9	603.6	458.0	468.9	381.6	356.1	341.4	334.8	327.8
55°	11455.1	4429.9	1253.7	535.7	435.7	459.9	378.7	349.4	333.8	323.9	317.9
57.5°	12075.3	4519.1	1104.0	491.8	404.2	445.3	374.6	340.5	323.9	316.0	308.3
60°	11952.6	4346.5	977.2	464.1	385.4	402.3	371.7	332.5	315.0	309.3	302.0
62.5°	10970.7	3895.1	895.7	451.3	373.6	366.9	374.6	324.9	307.4	301.0	299.1
65°	9497.8	3228.8	863.5	448.5	364.1	346.2	348.5	316.0	298.1	293.4	291.4
67.5°	7834.5	2606.1	835.2	458.0	351.3	331.6	322.0	304.2	289.2	284.4	280.6
70°	6178.3	2167.5	822.1	452.3	335.7	316.9	306.4	291.4	278.7	273.6	270.7
72.5°	4975.2	1830.8	815.1	446.2	315.0	297.2	287.3	274.6	260.9	259.0	256.1
75°	4210.5	1439.4	746.9	427.8	291.4	273.6	266.9	255.1	241.4	241.4	239.5
77.5°	3247.9	1040.9	621.1	378.7	266.9	247.2	241.4	232.5	216.9	219.8	218.8
80°	2399.1	679.1	485.7	314.1	236.7	217.9	214.7	206.1	189.2	193.3	193.3
82.5°	1643.5	445.3	349.4	257.0	201.9	184.4	184.4	175.5	157.0	158.9	165.0
85°	825.3	306.4	260.9	199.1	157.0	148.1	148.1	141.4	122.6	123.6	131.5
87.5°	251.3	184.4	172.6	142.4	112.8	110.8	105.7	101.0	89.2	88.2	93.3
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°	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5
2.5°	5201.1	5145.0	5077.8	4928.4	4878.4	4875.2	4920.8	4873.3	4963.8	4925.5	4967.6
5°	4194.2	4139.8	4064.0	3873.8	3757.9	3679.2	3642.2	3532.3	3611.7	3553.7	3602.1
7.5°	3084.8	3097.6	3047.6	2935.8	2683.5	2557.0	2482.5	2415.6	2473.6	2467.5	2559.9
10°	2168.5	2202.5	2167.5	2054.7	1850.3	1780.8	1794.5	1821.0	1896.8	1935.6	2078.0
12.5°	1561.0	1559.1	1536.5	1435.6	1301.1	1308.8	1364.8	1410.7	1480.5	1521.9	1666.8
15°	1165.5	1147.9	1138.1	1055.6	979.1	996.0	1023.4	1028.2	1072.4	1097.0	1214.8
17.5°	881.0	889.9	900.4	841.8	783.9	773.0	751.7	724.9	738.0	742.8	801.4
20°	699.5	734.8	761.6	720.2	661.6	629.7	602.3	584.8	584.8	583.8	600.4
22.5°	611.2	636.7	665.4	636.7	583.8	556.1	540.5	526.8	524.9	524.9	540.5
25°	563.5	581.9	609.3	589.9	550.4	529.7	515.0	497.5	490.8	488.6	499.4
27.5°	539.6	547.5	561.2	543.4	510.3	500.4	496.6	481.0	471.7	466.9	478.1
30°	499.4	497.5	498.5	481.0	454.2	453.2	459.9	463.1	459.9	459.0	475.9
32.5°	462.2	458.0	457.1	441.5	416.9	411.2	416.9	423.0	429.7	439.6	459.0
35°	415.0	424.9	430.6	416.9	387.3	369.8	363.1	352.3	346.2	346.2	368.8
37.5°	377.8	400.4	409.3	396.6	364.1	339.5	327.8	325.8	326.8	330.6	352.3
40°	365.0	381.6	389.2	376.8	344.3	322.0	315.0	313.1	315.0	321.1	342.4
42.5°	357.1	368.8	367.9	352.3	325.8	310.2	306.4	304.2	306.4	312.1	335.7
45°	350.4	358.0	350.4	331.6	307.4	299.1	300.0	299.1	301.0	307.4	329.7
47.5°	344.3	347.2	337.6	318.8	293.4	291.4	295.3	298.1	300.0	305.5	328.7
50°	335.7	335.7	326.8	307.4	281.6	282.5	287.3	294.3	295.3	301.0	320.1
52.5°	324.9	323.9	317.9	299.1	271.7	274.6	274.6	282.5	284.4	291.4	311.2
55°	316.0	314.1	311.2	293.4	263.1	267.9	265.0	267.9	272.7	279.7	301.0
57.5°	308.3	304.2	304.2	288.3	256.1	258.0	251.3	255.1	260.9	266.9	289.2
60°	300.0	296.2	298.1	281.6	245.3	243.3	240.5	248.1	250.4	257.0	279.7
62.5°	291.4	288.3	289.2	273.6	237.6	232.5	232.5	239.5	240.5	250.4	271.7
65°	284.4	280.6	279.7	266.0	228.7	223.0	225.8	228.7	230.6	240.5	260.9
67.5°	277.7	269.8	269.8	259.0	218.8	212.8	218.8	217.9	221.1	229.7	246.2
70°	268.8	258.0	259.0	254.2	208.9	201.9	207.0	206.1	208.0	213.7	230.6
72.5°	255.1	246.2	248.1	246.2	199.1	189.2	191.1	191.1	191.1	196.2	213.7
75°	237.6	230.6	236.7	241.4	187.3	173.6	175.5	175.5	172.6	175.5	197.2
77.5°	215.6	211.8	231.6	224.9	173.6	157.0	157.0	155.1	149.4	153.2	176.5
80°	192.4	189.2	213.7	188.2	158.0	136.6	134.4	129.3	123.6	126.5	150.3
82.5°	167.9	165.0	179.6	144.3	136.6	112.8	108.0	99.1	93.3	96.2	117.5
85°	137.6	137.6	138.6	108.9	103.8	86.3	80.6	68.8	61.8	63.7	84.4
87.5°	98.1	101.0	93.3	74.5	61.8	48.1	44.3	37.3	31.2	36.3	44.3
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: P299005

CATALOG NUMBER: GLNA-AF-06-LED-E1-SLL-7027-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5	6030.5
2.5°	5183.5	5291.5	5414.1	5570.9	5705.6	5926.0	6138.1	6265.5
5°	3875.7	4055.4	4278.6	4566.6	4834.4	5236.4	5635.8	5891.9
7.5°	2773.6	2966.0	3207.5	3566.4	3945.5	4458.3	4986.4	5292.5
10°	2295.2	2492.4	2695.3	2937.7	3247.9	3806.0	4429.9	4775.2
12.5°	1898.7	2109.5	2328.4	2583.5	2870.8	3369.3	4088.5	4486.0
15°	1453.1	1688.5	1946.5	2269.4	2629.4	3205.5	4004.1	4435.7
17.5°	996.0	1259.1	1575.7	1974.2	2414.7	3152.4	4155.4	4652.9
20°	685.8	877.2	1215.8	1682.7	2212.7	3145.7	4445.5	5068.9
22.5°	574.0	659.3	906.5	1414.8	2060.5	3230.1	4896.2	5652.4
25°	530.6	581.9	724.0	1182.3	1949.6	3424.4	5516.4	6407.9
27.5°	505.5	551.4	657.4	1030.4	1862.4	3649.9	6119.7	7139.9
30°	515.0	562.2	638.6	952.7	1743.6	3838.1	6655.4	7711.0
32.5°	464.1	484.8	547.5	883.9	1658.2	3996.1	7124.3	8184.0
35°	395.6	431.6	488.6	851.7	1660.1	4102.2	7635.5	8788.2
37.5°	376.8	413.1	454.2	839.9	1682.7	4215.2	8222.2	9496.9
40°	365.0	398.5	433.8	833.2	1704.4	4318.1	8797.4	10197.3
42.5°	357.1	387.3	431.6	809.4	1715.2	4410.5	9270.1	10792.9
45°	356.1	387.3	439.6	785.8	1731.8	4509.6	9666.7	11233.4
47.5°	357.1	400.4	424.9	757.4	1731.8	4675.2	10131.7	11626.8
50°	353.2	422.0	409.3	717.3	1691.6	4989.2	10769.4	12153.6
52.5°	351.3	419.2	378.7	655.5	1621.9	5487.7	11586.7	12879.8
55°	346.2	404.2	357.1	563.5	1540.7	6031.4	12462.0	13738.6
57.5°	341.4	358.0	345.3	482.9	1414.8	6414.0	13064.3	14408.4
60°	382.5	313.1	335.7	443.4	1247.0	6518.8	13041.0	14675.3
62.5°	354.2	293.4	323.0	434.8	1129.5	6224.4	12438.4	14531.4
65°	277.7	280.6	310.2	459.9	1097.9	5444.7	11370.7	13865.0
67.5°	254.2	267.9	297.2	492.7	1101.1	4359.2	9775.6	12413.5
70°	239.5	254.2	282.5	509.3	1108.8	3249.8	7728.5	10111.0
72.5°	223.0	235.7	266.0	512.2	1057.5	2360.5	5956.9	7434.5
75°	202.9	214.7	242.4	446.2	876.2	1637.5	4556.7	5086.4
77.5°	180.6	189.2	212.8	344.3	650.7	1047.9	3420.2	3715.8
80°	154.2	158.9	178.7	252.3	445.3	655.5	2706.1	2981.6
82.5°	123.6	125.5	138.6	189.2	289.2	421.1	1812.4	2068.4
85°	87.3	87.3	95.2	137.6	197.2	266.9	983.9	1091.2
87.5°	41.1	42.0	42.0	75.5	102.9	135.7	226.8	139.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)