

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: P298886

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298886
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-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Left OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30164.2 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

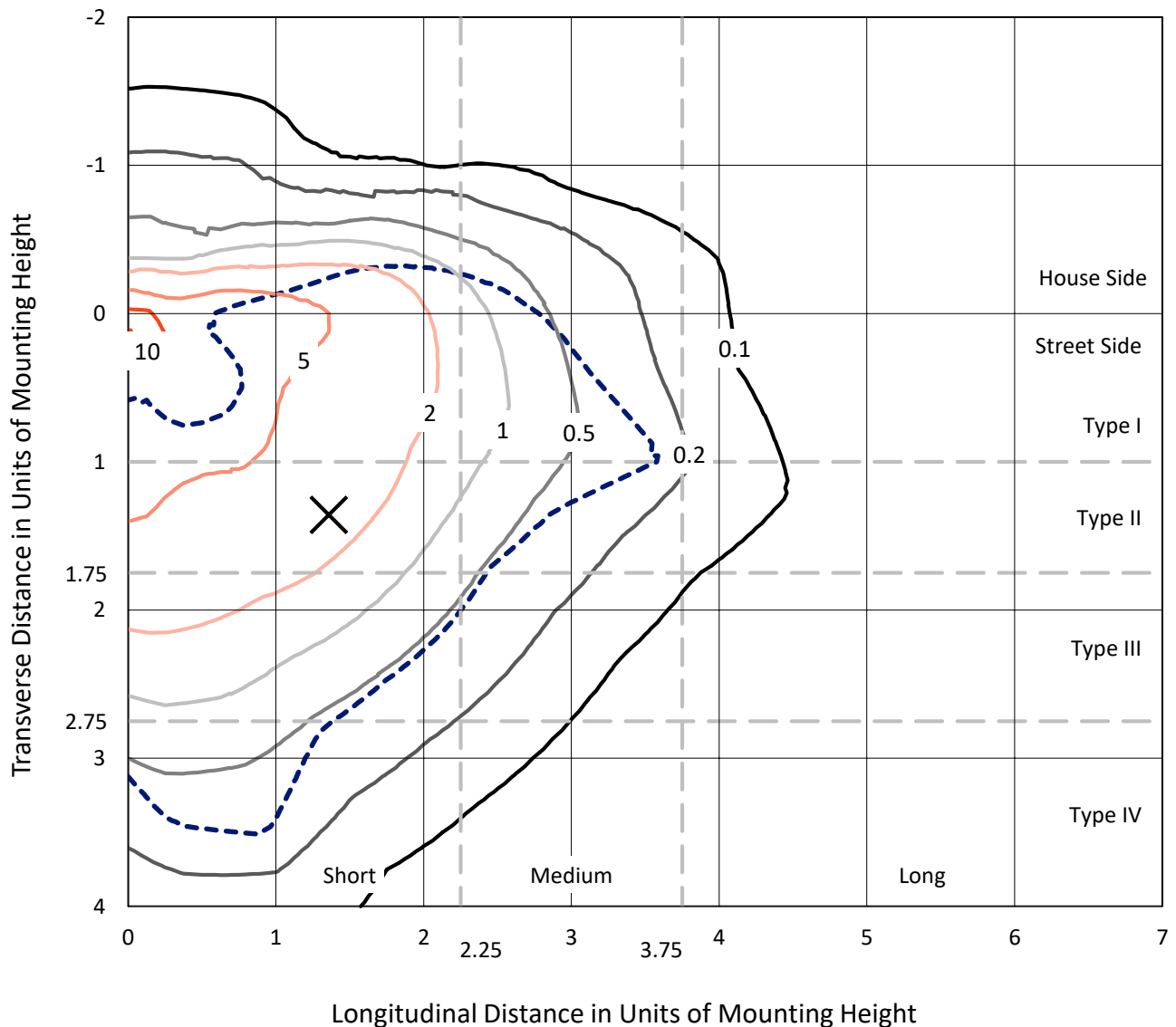
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

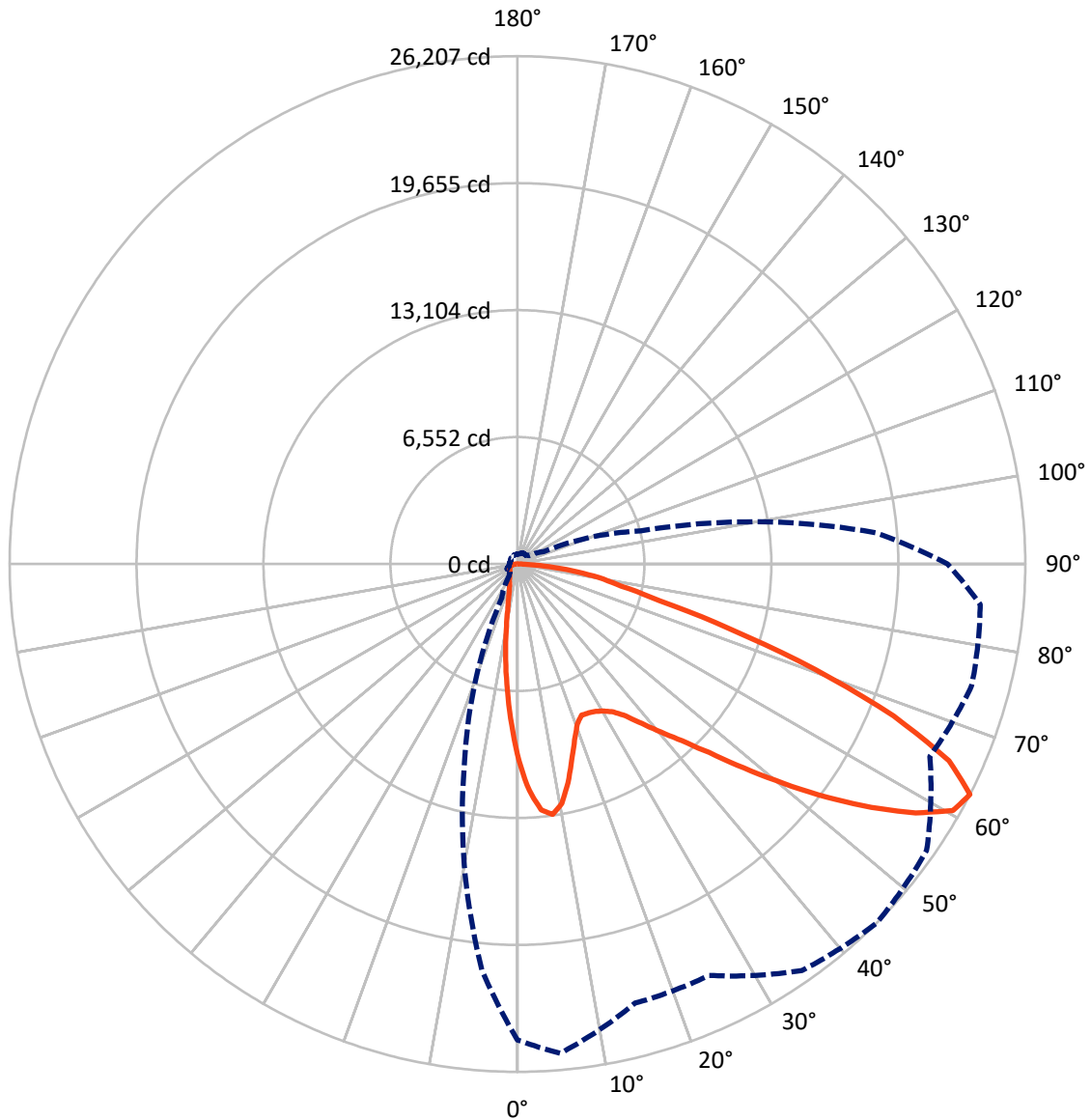
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.3 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
House Side	Lumens	4991.7	0.0	4991.7
	% 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	30164.2	0.0	30164.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.9	2.5
10°-20°	1360.4	4.5
20°-30°	1983.5	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°	30164.2	100.0
0°-180°	30164.2	100.0

Coefficient of Utilization



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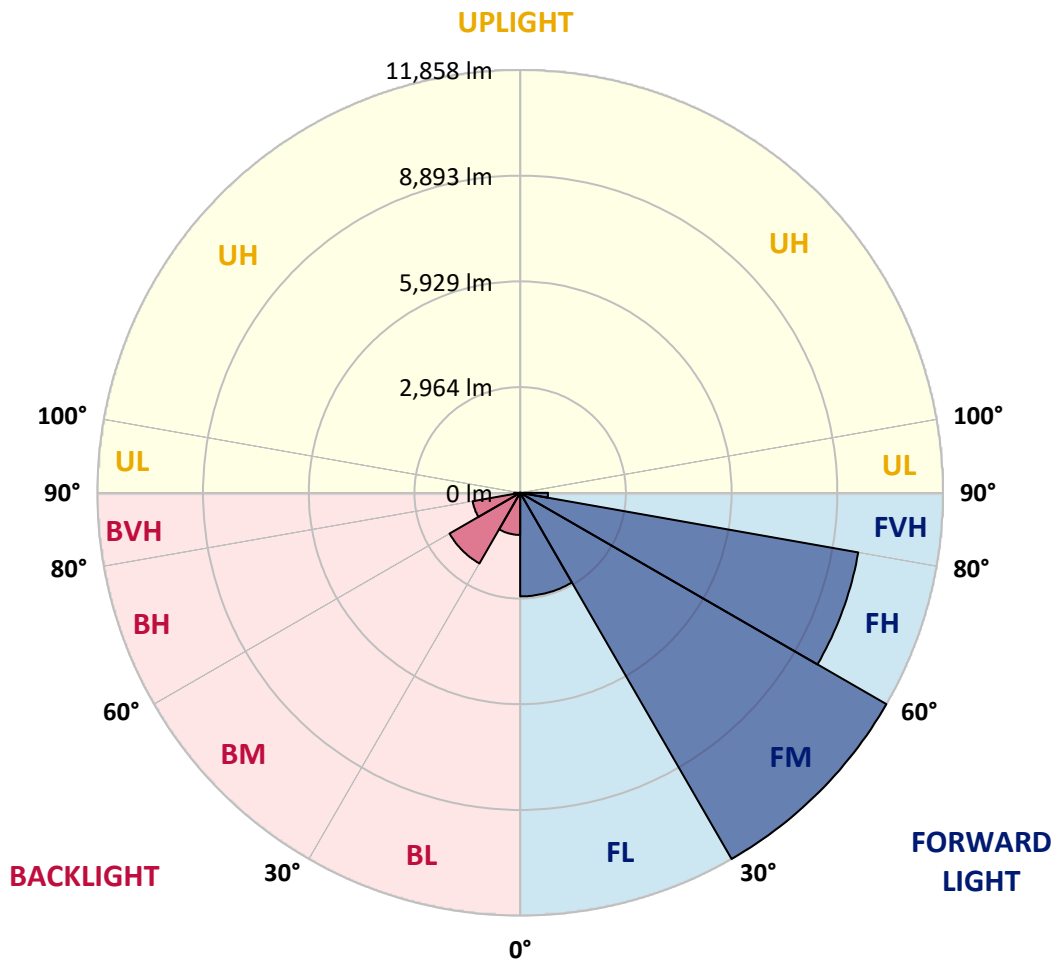
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	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°)	1353.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4
2.5°	10588.7	10758.2	11088.2	11334.7	11635.6	11705.1	11801.4	11706.7	11539.3	11317.0	11244.3
5°	9957.3	10319.0	11119.4	11824.6	12451.1	12742.9	12824.7	12583.6	12098.0	11459.6	11069.9
7.5°	8944.2	9458.3	10542.4	11580.7	12503.9	13049.7	13036.3	12477.5	11584.0	10544.0	9919.0
10°	8070.0	8657.3	9901.3	11061.8	12041.5	12570.6	12366.1	11652.3	10585.4	9388.3	8710.6
12.5°	7581.2	8156.7	9418.4	10583.8	11403.1	11585.6	11429.5	10729.7	9724.7	8514.6	7920.9
15°	7496.2	8128.7	9226.3	10174.7	10633.9	10475.1	10288.8	9975.6	9265.6	8232.6	7614.1
17.5°	7863.3	8559.3	9447.0	9889.4	9811.4	9534.2	9481.4	9516.4	9345.8	8545.9	7833.2
20°	8566.3	9401.7	9972.3	9755.4	9186.4	8804.8	8818.2	9350.6	9856.1	9340.4	8525.9
22.5°	9552.5	10506.3	10729.7	9826.4	8922.7	8470.0	8579.8	9442.1	10670.5	10501.5	9461.5
25°	10829.3	11698.6	11537.7	10084.8	8949.0	8511.4	8599.2	9757.0	11631.9	11662.0	10619.3
27.5°	12066.3	12872.6	12215.4	10428.3	9058.9	8609.4	8725.6	10252.2	12550.7	12922.1	11942.5
30°	13031.4	13592.3	12484.0	10741.5	9274.2	8799.9	8944.2	10723.2	12969.0	13772.6	12960.4
32.5°	13830.8	14233.4	12911.9	11129.6	9670.3	9099.8	9353.8	11295.4	13570.8	14582.2	13956.7
35°	14851.9	14966.6	13444.3	11562.4	10282.4	9622.4	9937.3	11855.8	14144.6	15399.3	14938.6
37.5°	16049.6	15902.1	13946.5	12154.5	11073.7	10439.6	10700.1	12471.1	14616.7	16326.3	15941.4
40°	17233.3	16878.0	14577.4	13072.9	12227.8	11403.1	11711.5	13127.8	15058.1	17254.8	16921.6
42.5°	18239.9	17714.0	15198.6	14082.7	13301.6	12466.2	12834.4	13789.3	15479.0	18047.2	17772.1
45°	18984.3	18330.9	15790.7	15052.7	14782.5	13878.7	14053.1	14546.7	15934.9	18709.3	18471.9
47.5°	19649.1	18951.0	16460.3	16031.3	16077.6	15715.9	15435.4	15429.0	16472.7	19249.7	19133.4
50°	20539.5	19811.7	17180.0	17039.0	18020.8	17780.2	17161.7	16458.7	17152.0	19863.4	19849.9
52.5°	21766.8	21175.2	18059.0	18125.2	19835.4	19992.6	19226.0	17696.2	18216.2	20988.9	20909.8
55°	23218.0	22872.4	19256.7	19374.1	22060.1	22173.2	21411.5	19242.7	19782.1	22619.4	22398.7
57.5°	24350.0	24277.3	20569.6	20873.2	23721.8	24229.4	23529.6	21034.1	21546.1	23992.0	23438.1
60°	24801.1	25154.2	21967.5	22385.2	25259.2	25820.6	25207.5	22607.0	23109.8	24561.0	23367.1
62.5°	24557.8	25346.4	23456.4	23421.5	25602.1	26207.1	25775.9	23482.8	24269.3	23973.7	22185.0
65°	23431.7	24655.2	24320.4	23154.5	24428.1	24477.6	24338.2	23091.5	24542.7	22118.3	19899.4
67.5°	20978.7	22740.0	23182.5	20866.7	21260.8	20937.8	20703.6	20949.1	23116.2	19337.5	16724.1
70°	17087.4	19737.4	19949.0	16689.6	16510.4	16292.9	15827.3	17175.2	20302.6	15848.8	13270.4
72.5°	12564.2	15349.8	16001.2	12240.7	11411.7	11455.8	11088.2	12943.1	16507.1	11772.9	9907.7
75°	8595.9	11114.6	12519.5	8541.0	7546.8	7564.6	7517.7	9171.4	13147.7	8189.5	7413.8
77.5°	6279.7	7940.8	9442.1	5741.9	5574.5	5471.7	5446.9	6416.9	10080.0	5946.5	5757.0
80°	5038.9	5866.8	6342.1	3979.6	4279.4	4271.3	4133.5	4412.3	6582.7	4349.4	4305.8
82.5°	3495.6	4508.7	5138.5	3118.8	2888.5	2840.0	2873.9	3286.2	4653.0	2973.0	2827.1
85°	1844.2	2994.5	5089.0	2764.1	1714.4	1367.8	1701.5	2690.9	4031.2	1575.6	1379.1
87.5°	235.8	865.6	3369.1	1103.0	676.6	364.4	808.0	1515.3	2588.6	321.4	280.4
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°	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4
2.5°	11057.0	10836.3	10547.8	10280.2	10003.5	9727.9	9368.4	9142.8	8987.3	8957.1	8891.4
5°	10788.4	10055.2	9501.3	9022.2	8587.8	7973.7	7634.0	7351.9	7201.2	7186.7	7150.1
7.5°	9549.2	8537.8	7790.1	7111.9	6496.6	6000.8	5453.4	5198.8	5093.8	5118.6	5143.3
10°	8260.6	7130.2	6271.1	5577.7	5035.7	4618.0	4178.7	3882.1	3676.0	3634.5	3626.4
12.5°	7319.1	6078.9	5245.1	4755.2	4336.4	3943.0	3477.3	3126.9	2860.5	2769.0	2708.1
15°	6920.8	5564.8	4691.2	4163.7	3700.7	3201.7	2769.0	2402.4	2157.5	2077.8	2033.1
17.5°	7005.8	5422.2	4309.5	3634.5	3042.9	2521.9	1976.6	1662.8	1515.3	1477.6	1477.6
20°	7450.4	5395.8	3994.1	3147.4	2408.8	1805.4	1358.1	1178.9	1130.9	1126.1	1139.0
22.5°	8073.8	5488.9	3759.4	2724.8	1872.2	1318.3	1057.7	991.5	970.0	975.4	989.9
25°	9002.3	5802.2	3588.8	2348.0	1469.0	1079.3	943.1	903.8	893.6	907.0	925.3
27.5°	10103.1	6115.5	3482.2	2064.3	1240.2	986.7	896.8	855.9	862.3	879.0	895.2
30°	11069.9	6372.8	3314.8	1862.5	1169.2	991.5	896.8	840.8	834.3	837.6	842.4
32.5°	11937.6	6546.7	3118.8	1669.8	1008.2	880.6	837.6	829.5	792.4	778.9	781.1
35°	12685.3	6546.7	3001.5	1557.3	903.8	781.1	711.6	670.2	651.3	652.9	671.8
37.5°	13406.6	6415.3	2943.4	1493.7	847.3	742.8	681.5	644.9	620.1	615.3	618.5
40°	14042.9	6224.8	2877.1	1467.4	804.2	719.7	662.1	631.4	605.0	597.0	598.6
42.5°	14553.7	6070.3	2803.9	1432.9	777.3	703.0	648.1	621.7	592.1	583.5	581.9
45°	15106.0	6019.1	2708.1	1362.9	790.7	704.6	644.9	616.9	586.7	577.0	573.8
47.5°	15833.7	6180.1	2608.5	1280.0	819.3	713.2	649.7	616.9	585.1	577.0	573.8
50°	16750.4	6558.0	2482.0	1158.9	790.7	736.4	648.1	611.5	585.1	577.0	570.6
52.5°	17928.2	7068.8	2316.8	1020.1	774.1	792.4	644.9	601.8	577.0	565.7	553.9
55°	19359.0	7486.5	2118.7	905.4	736.4	777.3	640.0	590.5	564.1	547.4	537.2
57.5°	20407.0	7637.2	1865.7	831.1	683.1	752.5	633.0	575.4	547.4	534.0	521.1
60°	20199.8	7345.5	1651.5	784.3	651.3	679.9	628.2	562.0	532.4	522.7	510.3
62.5°	18540.3	6582.7	1513.7	762.8	631.4	620.1	633.0	549.1	519.4	508.7	505.5
65°	16051.2	5456.6	1459.3	757.9	615.3	585.1	588.9	534.0	503.8	495.8	492.5
67.5°	13240.3	4404.3	1411.4	774.1	593.7	560.4	544.2	514.1	488.8	480.7	474.2
70°	10441.2	3663.1	1389.3	764.4	567.4	535.6	517.8	492.5	471.0	462.4	457.5
72.5°	8408.1	3094.1	1377.5	754.1	532.4	502.2	485.5	464.0	440.9	437.6	432.8
75°	7115.6	2432.5	1262.3	722.9	492.5	462.4	451.1	431.2	408.0	408.0	404.8
77.5°	5488.9	1759.1	1049.7	640.0	451.1	417.7	408.0	393.0	366.6	371.4	369.8
80°	4054.4	1147.6	820.9	530.8	399.9	368.2	362.8	348.3	319.7	326.7	326.7
82.5°	2777.6	752.5	590.5	434.4	341.3	311.7	311.7	296.6	265.4	268.6	278.8
85°	1394.7	517.8	440.9	336.4	265.4	250.3	250.3	239.0	207.2	208.9	222.3
87.5°	424.7	311.7	291.8	240.6	190.6	187.3	178.7	170.6	150.7	149.1	157.7
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°	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4
2.5°	8789.7	8695.0	8581.4	8328.9	8244.4	8239.0	8316.0	8235.8	8388.7	8324.1	8395.1
5°	7088.2	6996.1	6868.0	6546.7	6350.7	6217.8	6155.3	5969.6	6103.6	6005.7	6087.5
7.5°	5213.3	5234.9	5150.3	4961.4	4535.1	4321.4	4195.4	4082.4	4180.3	4170.1	4326.2
10°	3664.7	3722.3	3663.1	3472.5	3126.9	3009.6	3032.7	3077.4	3205.5	3271.2	3511.8
12.5°	2638.1	2634.9	2596.7	2426.1	2198.9	2211.8	2306.6	2384.1	2502.0	2571.9	2816.9
15°	1969.6	1940.0	1923.3	1783.9	1654.7	1683.2	1729.5	1737.6	1812.4	1853.9	2053.0
17.5°	1488.9	1504.0	1521.7	1422.7	1324.7	1306.4	1270.4	1225.1	1247.2	1255.3	1354.3
20°	1182.1	1241.8	1287.0	1217.1	1118.0	1064.2	1017.9	988.3	988.3	986.7	1014.7
22.5°	1033.0	1076.0	1124.5	1076.0	986.7	939.9	913.5	890.3	887.1	887.1	913.5
25°	952.2	983.5	1029.7	996.9	930.2	895.2	870.4	840.8	829.5	825.7	844.0
27.5°	911.9	925.3	948.5	918.3	862.3	845.7	839.2	812.8	797.2	789.1	808.0
30°	844.0	840.8	842.4	812.8	767.6	766.0	777.3	782.7	777.3	775.7	804.2
32.5°	781.1	774.1	772.4	746.1	704.6	694.9	704.6	714.8	726.2	742.8	775.7
35°	701.4	718.1	727.8	704.6	654.6	625.0	613.6	595.3	585.1	585.1	623.3
37.5°	638.4	676.6	691.7	670.2	615.3	573.8	553.9	550.7	552.3	558.7	595.3
40°	616.9	644.9	657.8	636.8	581.9	544.2	532.4	529.1	532.4	542.6	578.7
42.5°	603.4	623.3	621.7	595.3	550.7	524.3	517.8	514.1	517.8	527.5	567.4
45°	592.1	605.0	592.1	560.4	519.4	505.5	507.1	505.5	508.7	519.4	557.1
47.5°	581.9	586.7	570.6	538.8	495.8	492.5	499.0	503.8	507.1	516.2	555.5
50°	567.4	567.4	552.3	519.4	475.8	477.5	485.5	497.4	499.0	508.7	541.0
52.5°	549.1	547.4	537.2	505.5	459.2	464.0	464.0	477.5	480.7	492.5	525.9
55°	534.0	530.8	525.9	495.8	444.6	452.7	447.9	452.7	460.8	472.6	508.7
57.5°	521.1	514.1	514.1	487.2	432.8	436.0	424.7	431.2	440.9	451.1	488.8
60°	507.1	500.6	503.8	475.8	414.5	411.3	406.4	419.3	423.1	434.4	472.6
62.5°	492.5	487.2	488.8	462.4	401.6	393.0	393.0	404.8	406.4	423.1	459.2
65°	480.7	474.2	472.6	449.5	386.5	376.8	381.6	386.5	389.7	406.4	440.9
67.5°	469.4	455.9	455.9	437.6	369.8	359.6	369.8	368.2	373.6	388.1	416.1
70°	454.3	436.0	437.6	429.6	353.1	341.3	349.9	348.3	351.5	361.2	389.7
72.5°	431.2	416.1	419.3	416.1	336.4	319.7	323.0	323.0	323.0	331.6	361.2
75°	401.6	389.7	399.9	408.0	316.5	293.4	296.6	296.6	291.8	296.6	333.2
77.5°	364.4	358.0	391.3	380.0	293.4	265.4	265.4	262.1	252.5	258.9	298.2
80°	325.1	319.7	361.2	318.1	267.0	230.9	227.2	218.5	208.9	213.7	254.1
82.5°	283.7	278.8	303.6	243.8	230.9	190.6	182.5	167.4	157.7	162.6	198.6
85°	232.5	232.5	234.2	184.1	175.5	145.9	136.2	116.3	104.4	107.7	142.6
87.5°	165.8	170.6	157.7	126.0	104.4	81.3	74.8	63.0	52.8	61.4	74.8
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: P298886

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4	10191.4
2.5°	8760.1	8942.6	9149.8	9414.7	9642.4	10014.8	10373.3	10588.7
5°	6549.9	6853.5	7230.8	7717.4	8170.1	8849.5	9524.5	9957.3
7.5°	4687.4	5012.5	5420.6	6027.2	6667.8	7534.4	8426.9	8944.2
10°	3878.9	4212.1	4555.0	4964.6	5488.9	6432.0	7486.5	8070.0
12.5°	3208.7	3565.1	3934.9	4366.1	4851.6	5694.0	6909.5	7581.2
15°	2455.7	2853.5	3289.5	3835.3	4443.6	5417.3	6766.8	7496.2
17.5°	1683.2	2127.9	2662.9	3336.3	4080.8	5327.4	7022.5	7863.3
20°	1158.9	1482.4	2054.6	2843.8	3739.5	5316.1	7512.9	8566.3
22.5°	970.0	1114.3	1532.0	2391.1	3482.2	5458.8	8274.6	9552.5
25°	896.8	983.5	1223.5	1998.1	3294.9	5787.1	9322.6	10829.3
27.5°	854.3	931.8	1111.0	1741.4	3147.4	6168.2	10342.1	12066.3
30°	870.4	950.1	1079.3	1610.0	2946.6	6486.4	11247.5	13031.4
32.5°	784.3	819.3	925.3	1493.7	2802.3	6753.4	12039.9	13830.8
35°	668.6	729.4	825.7	1439.4	2805.6	6932.6	12903.8	14851.9
37.5°	636.8	698.2	767.6	1419.5	2843.8	7123.7	13895.4	16049.6
40°	616.9	673.4	733.1	1408.2	2880.4	7297.6	14867.5	17233.3
42.5°	603.4	654.6	729.4	1367.8	2898.7	7453.7	15666.3	18239.9
45°	601.8	654.6	742.8	1328.0	2926.7	7621.1	16336.5	18984.3
47.5°	603.4	676.6	718.1	1280.0	2926.7	7901.0	17122.4	19649.1
50°	597.0	713.2	691.7	1212.2	2858.8	8431.7	18200.1	20539.5
52.5°	593.7	708.4	640.0	1107.8	2741.0	9274.2	19581.3	21766.8
55°	585.1	683.1	603.4	952.2	2603.7	10193.0	21060.5	23218.0
57.5°	577.0	605.0	583.5	816.0	2391.1	10839.5	22078.4	24350.0
60°	646.5	529.1	567.4	749.3	2107.4	11016.6	22039.1	24801.1
62.5°	598.6	495.8	545.8	734.8	1908.8	10519.2	21020.7	24557.8
65°	469.4	474.2	524.3	777.3	1855.5	9201.5	19216.3	23431.7
67.5°	429.6	452.7	502.2	832.7	1860.9	7367.0	16520.6	20978.7
70°	404.8	429.6	477.5	860.7	1873.8	5492.2	13061.0	17087.4
72.5°	376.8	398.3	449.5	865.6	1787.1	3989.3	10067.1	12564.2
75°	342.9	362.8	409.6	754.1	1480.8	2767.3	7700.7	8595.9
77.5°	305.2	319.7	359.6	581.9	1099.7	1771.0	5780.1	6279.7
80°	260.5	268.6	302.0	426.3	752.5	1107.8	4573.3	5038.9
82.5°	208.9	212.1	234.2	319.7	488.8	711.6	3062.9	3495.6
85°	147.5	147.5	160.9	232.5	333.2	451.1	1662.8	1844.2
87.5°	69.4	71.1	71.1	127.6	173.9	229.3	383.3	235.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)