

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: P298910

Luminaire Tested: **GLNA-AF-10-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298910
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-10-LED-E1-SLL-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 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: 49918.4 lumens
Efficiency: N/A
Efficacy: 89.5 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

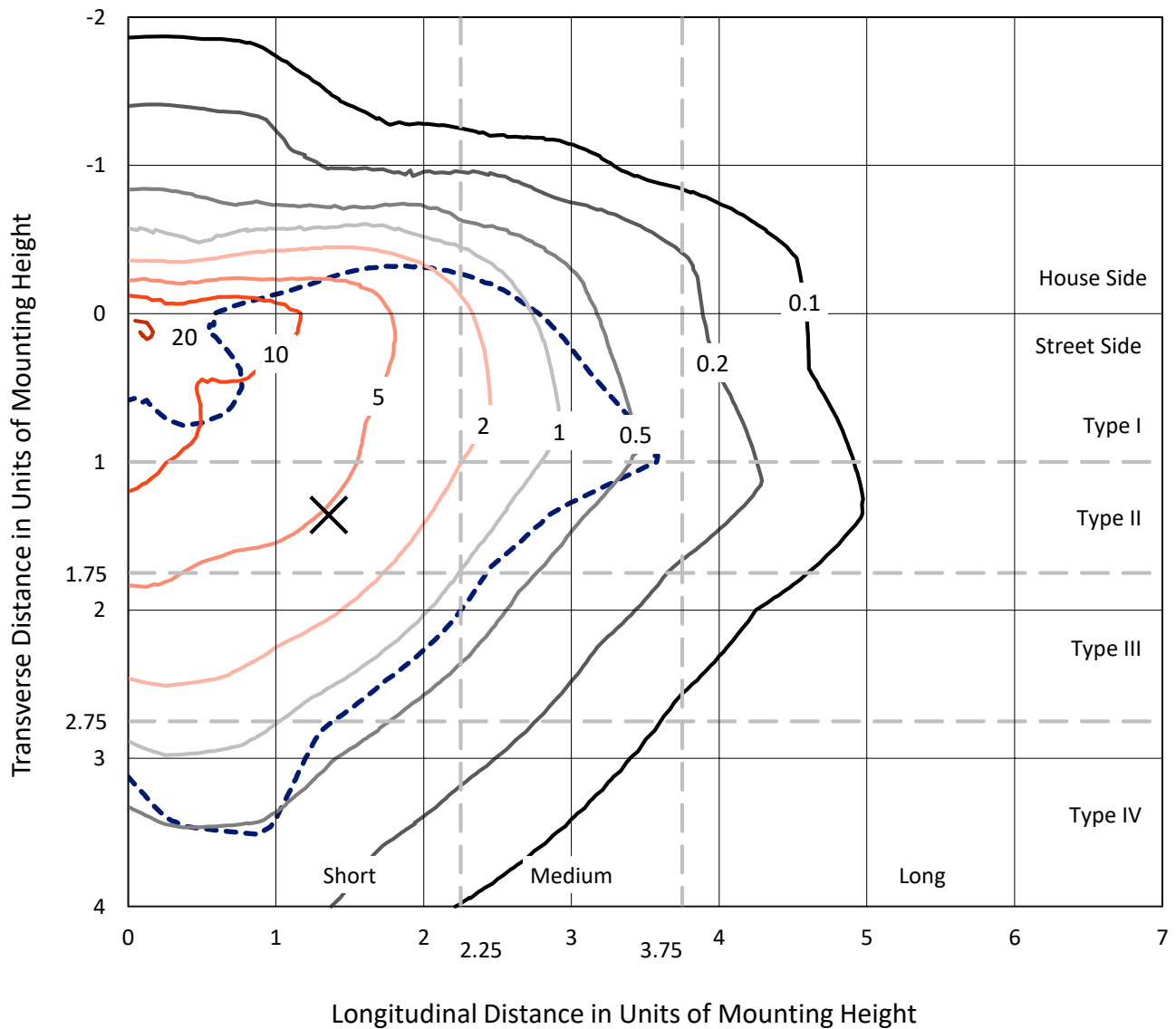
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

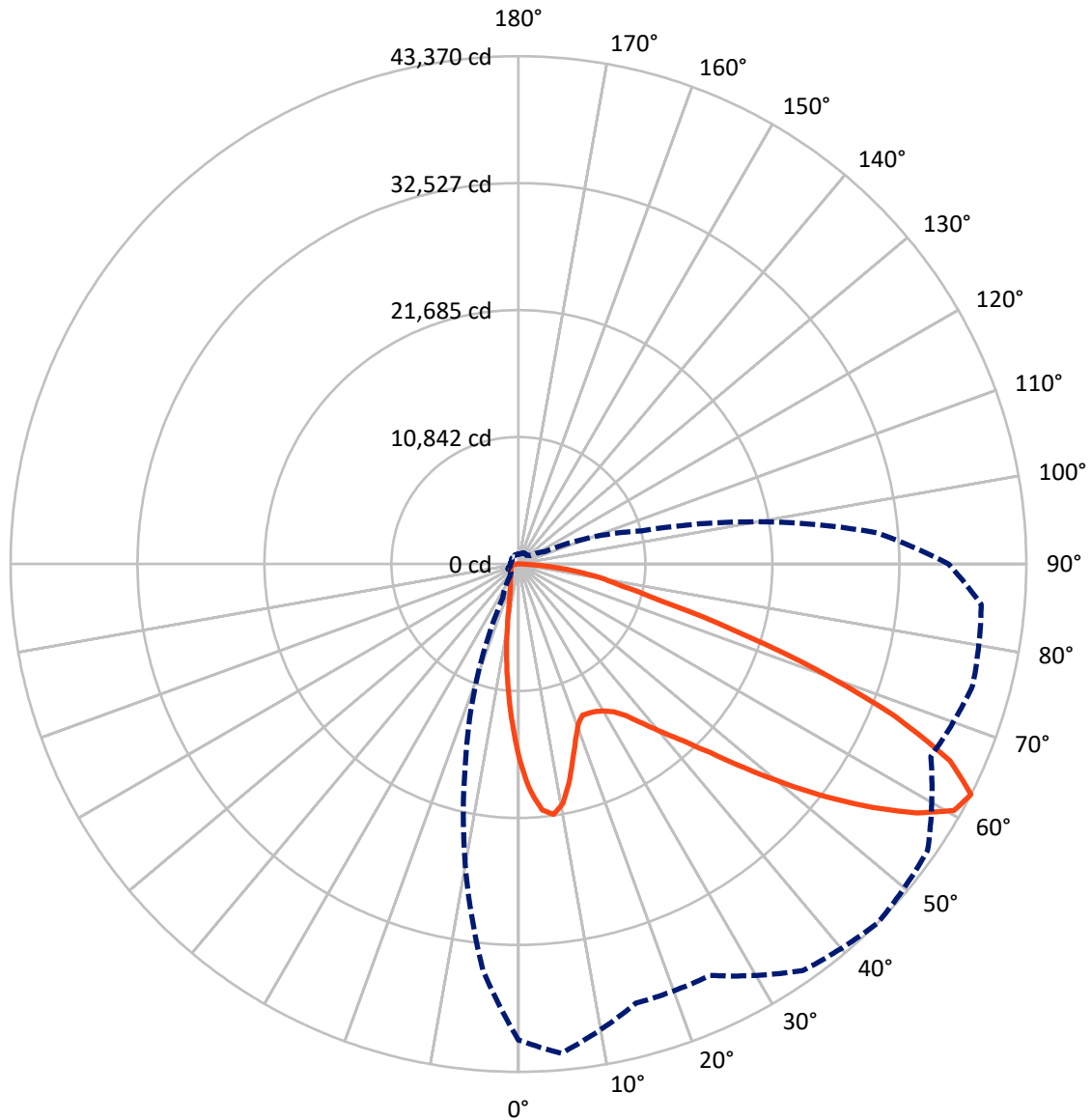
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 22.1 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	8260.8	0.0	8260.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	41657.7	0.0	41657.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	49918.4	0.0	49918.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1227.7	2.5
10°-20°	2251.3	4.5
20°-30°	3282.4	6.6
30°-40°	5055.3	10.1
40°-50°	7440.1	14.9
50°-60°	10913.0	21.9
60°-70°	12199.2	24.4
70°-80°	5972.5	12.0
80°-90°	1576.9	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°	49918.4	100.0
0°-180°	49918.4	100.0



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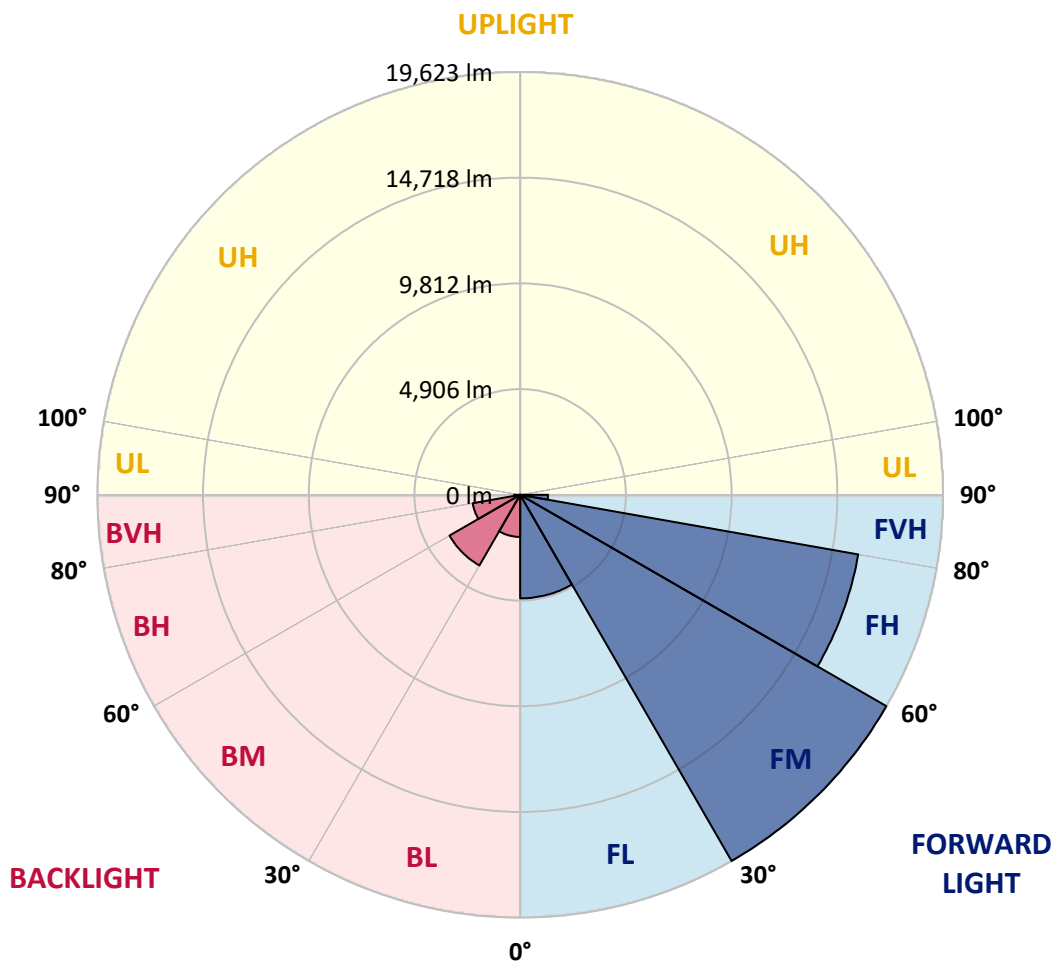
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4807.0	9.6			
FM	(30°-60°)	19623.4	39.3			
FH	(60°-80°)	15932.2	31.9			G5
FVH	(80°-90°)	1295.0	2.6			G5
BL	(0°-30°)	1954.4	3.9	B3/2500		
BM	(30°-60°)	3785.0	7.6	B3/5000		
BH	(60°-80°)	2239.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	281.9	0.6			G3/500
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°	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7
2.5°	17523.1	17803.7	18349.8	18757.8	19255.7	19370.6	19530.1	19373.3	19096.3	18728.4	18608.1
5°	16478.2	17076.8	18401.4	19568.4	20605.3	21088.1	21223.5	20824.4	20020.9	18964.4	18319.5
7.5°	14801.7	15652.4	17446.5	19164.9	20692.6	21595.9	21573.6	20649.0	19170.2	17449.2	16414.9
10°	13355.0	14326.9	16385.5	18306.1	19927.4	20803.1	20464.6	19283.3	17517.8	15536.6	14415.1
12.5°	12546.2	13498.4	15586.5	17515.1	18870.9	19172.9	18914.6	17756.5	16093.4	14090.8	13108.3
15°	12405.4	13452.1	15268.5	16838.1	17597.9	17335.1	17026.9	16508.5	15333.5	13624.0	12600.5
17.5°	13012.9	14164.8	15633.7	16365.9	16236.8	15778.0	15690.7	15748.6	15466.2	14142.5	12963.1
20°	14176.3	15558.9	16503.1	16144.1	15202.6	14571.0	14593.2	15474.2	16310.7	15457.3	14109.5
22.5°	15808.3	17386.8	17756.5	16261.7	14766.1	14016.9	14198.6	15625.7	17658.5	17378.8	15657.8
25°	17921.3	19360.0	19093.6	16689.3	14809.7	14085.5	14230.7	16146.8	19249.5	19299.4	17573.9
27.5°	19968.4	21302.8	20215.1	17257.6	14991.4	14247.6	14440.0	16966.4	20770.1	21384.8	19763.5
30°	21565.6	22493.8	20659.6	17776.1	15347.8	14562.9	14801.7	17745.8	21462.3	22792.2	21448.0
32.5°	22888.5	23554.8	21367.8	18418.4	16003.4	15059.1	15479.6	18692.7	22458.2	24132.0	23096.9
35°	24578.3	24768.1	22248.9	19134.6	17016.2	15924.1	16445.2	19620.1	23407.8	25484.3	24721.7
37.5°	26560.4	26316.3	23080.0	20114.5	18325.7	17276.4	17707.5	20638.3	24189.0	27018.2	26381.3
40°	28519.3	27931.3	24124.0	21634.2	20235.6	18870.9	19381.3	21725.1	24919.5	28554.9	28003.5
42.5°	30185.1	29314.7	25152.0	23305.4	22012.8	20630.3	21239.6	22819.9	25616.1	29866.2	29411.0
45°	31417.1	30335.6	26131.9	24910.6	24463.4	22967.7	23256.4	24073.2	26370.6	30961.9	30569.0
47.5°	32517.2	31361.8	27240.1	26530.1	26606.7	26008.1	25544.0	25533.3	27260.5	31856.2	31663.8
50°	33990.6	32786.2	28431.1	28197.7	29822.5	29424.3	28400.8	27237.4	28384.7	32871.8	32849.5
52.5°	36021.7	35042.7	29885.8	29995.3	32825.4	33085.5	31817.0	29285.4	30145.9	34734.4	34603.5
55°	38423.3	37851.4	31867.8	32062.0	36507.1	36694.2	35433.7	31844.6	32737.2	37432.7	37067.5
57.5°	40296.6	40176.4	34040.5	34542.9	39257.1	40097.1	38939.1	34809.3	35656.4	39704.3	38787.6
60°	41043.1	41627.5	36353.9	37045.2	41801.2	42730.3	41715.7	37412.2	38244.2	40645.8	38670.0
62.5°	40640.5	41945.5	38817.9	38760.0	42368.7	43369.9	42656.4	38861.6	40163.0	39674.0	36713.8
65°	38776.9	40801.7	40247.7	38318.2	40425.8	40507.8	40277.0	38213.9	40615.6	36603.4	32931.4
67.5°	34717.5	37632.2	38364.5	34532.2	35184.3	34649.8	34262.3	34668.5	38254.9	32001.4	27676.6
70°	28277.8	32663.3	33013.4	27619.5	27322.9	26963.0	26192.5	28423.0	33598.7	26228.1	21961.1
72.5°	20792.4	25402.3	26480.2	20257.0	18885.2	18958.2	18349.8	21419.5	27317.6	19482.9	16396.2
75°	14225.3	18393.4	20718.4	14134.5	12489.1	12518.5	12441.0	15177.6	21758.0	13552.8	12269.1
77.5°	10392.2	13141.2	15625.7	9502.3	9225.2	9055.1	9014.1	10619.3	16681.3	9840.8	9527.2
80°	8338.9	9708.9	10495.5	6585.8	7081.9	7068.6	6840.5	7302.0	10893.7	7197.7	7125.6
82.5°	5784.9	7461.4	8503.7	5161.3	4780.1	4699.9	4756.0	5438.4	7700.2	4919.9	4678.5
85°	3051.9	4955.6	8421.7	4574.3	2837.2	2263.5	2815.8	4453.2	6671.3	2607.4	2282.3
87.5°	390.2	1432.4	5575.6	1825.3	1119.7	603.1	1337.1	2507.6	4283.9	531.8	464.1
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°	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7
2.5°	18298.1	17932.9	17455.4	17012.7	16554.8	16098.7	15503.6	15130.4	14873.0	14823.1	14714.4
5°	17853.6	16640.3	15723.7	14930.9	14212.0	13195.6	12633.5	12166.7	11917.2	11893.2	11832.6
7.5°	15803.0	14129.1	12891.8	11769.4	10751.2	9930.7	9024.8	8603.4	8429.7	8470.7	8511.7
10°	13670.4	11799.7	10377.9	9230.6	8333.5	7642.3	6915.4	6424.5	6083.3	6014.7	6001.4
12.5°	12112.3	10059.9	8680.0	7869.4	7176.4	6525.2	5754.6	5174.7	4733.8	4582.3	4481.7
15°	11453.1	9209.2	7763.4	6890.4	6124.3	5298.5	4582.3	3975.7	3570.4	3438.5	3364.6
17.5°	11593.9	8973.1	7131.8	6014.7	5035.7	4173.4	3271.1	2751.7	2507.6	2445.3	2445.3
20°	12329.7	8929.5	6609.8	5208.6	3986.4	2987.8	2247.5	1950.9	1871.6	1863.6	1885.0
22.5°	13361.2	9083.6	6221.4	4509.3	3098.2	2181.6	1750.4	1640.9	1605.2	1614.1	1638.2
25°	14897.9	9602.0	5939.0	3885.7	2431.0	1786.1	1560.7	1495.7	1478.7	1501.0	1531.3
27.5°	16719.6	10120.5	5762.6	3416.3	2052.4	1632.9	1484.1	1416.4	1427.1	1454.7	1481.4
30°	18319.5	10546.3	5485.6	3082.2	1934.8	1640.9	1484.1	1391.4	1380.8	1386.1	1394.1
32.5°	19755.5	10834.0	5161.3	2763.3	1668.5	1457.4	1386.1	1372.7	1311.3	1289.0	1292.6
35°	20992.8	10834.0	4967.2	2577.1	1495.7	1292.6	1177.6	1109.1	1077.9	1080.6	1111.7
37.5°	22186.5	10616.7	4870.9	2472.0	1402.1	1229.3	1127.8	1067.2	1026.2	1018.2	1023.5
40°	23239.4	10301.3	4761.4	2428.3	1330.9	1191.0	1095.7	1044.9	1001.3	987.9	990.6
42.5°	24084.8	10045.7	4640.2	2371.3	1286.3	1163.4	1072.5	1028.9	979.9	965.6	963.0
45°	24998.8	9961.0	4481.7	2255.5	1308.6	1166.1	1067.2	1020.9	971.0	954.9	949.6
47.5°	26203.2	10227.4	4316.9	2118.3	1355.8	1180.3	1075.2	1020.9	968.3	954.9	949.6
50°	27720.2	10852.7	4107.5	1917.9	1308.6	1218.6	1072.5	1012.0	968.3	954.9	944.3
52.5°	29669.3	11698.1	3834.0	1688.1	1281.0	1311.3	1067.2	995.9	954.9	936.2	916.6
55°	32037.1	12389.4	3506.2	1498.3	1218.6	1286.3	1059.2	977.2	933.6	906.0	889.0
57.5°	33771.5	12638.8	3087.5	1375.4	1130.4	1245.4	1047.6	952.3	906.0	883.7	862.3
60°	33428.5	12156.0	2733.0	1297.9	1077.9	1125.1	1039.6	930.0	881.0	865.0	844.5
62.5°	30682.1	10893.7	2505.0	1262.3	1044.9	1026.2	1047.6	908.6	859.6	841.8	836.5
65°	26563.0	9030.1	2415.0	1254.3	1018.2	968.3	974.5	883.7	833.8	820.4	815.1
67.5°	21911.2	7288.6	2335.7	1281.0	982.6	927.3	900.6	850.7	808.9	795.5	784.8
70°	17279.0	6062.0	2299.2	1264.9	938.9	886.4	857.0	815.1	779.5	765.2	757.2
72.5°	13914.4	5120.4	2279.6	1248.0	881.0	831.1	803.5	767.9	729.6	724.2	716.2
75°	11775.6	4025.6	2088.9	1196.4	815.1	765.2	746.5	713.5	675.2	675.2	669.9
77.5°	9083.6	2911.2	1737.1	1059.2	746.5	691.3	675.2	650.3	606.6	614.7	612.0
80°	6709.6	1899.2	1358.5	878.3	661.9	609.3	600.4	576.4	529.1	540.7	540.7
82.5°	4596.6	1245.4	977.2	718.9	564.8	515.8	515.8	490.8	439.2	444.5	461.4
85°	2308.1	857.0	729.6	556.8	439.2	414.2	414.2	395.5	343.0	345.6	367.9
87.5°	702.8	515.8	482.8	398.2	315.3	310.0	295.7	282.4	249.4	246.8	261.0
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°	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7
2.5°	14546.0	14389.2	14201.3	13783.5	13643.6	13634.7	13762.1	13629.4	13882.4	13775.5	13893.1
5°	11730.2	11577.8	11365.8	10834.0	10509.8	10289.7	10186.4	9879.1	10100.9	9938.8	10074.2
7.5°	8627.5	8663.1	8523.3	8210.6	7505.1	7151.4	6943.0	6755.9	6918.0	6901.1	7159.4
10°	6064.6	6159.9	6062.0	5746.6	5174.7	4980.5	5018.8	5092.8	5304.8	5413.4	5811.6
12.5°	4365.9	4360.5	4297.3	4014.9	3639.0	3660.3	3817.1	3945.4	4140.5	4256.3	4661.6
15°	3259.5	3210.5	3182.9	2952.1	2738.3	2785.6	2862.2	2875.5	2999.4	3067.9	3397.5
17.5°	2464.0	2488.9	2518.3	2354.4	2192.3	2162.0	2102.3	2027.5	2064.0	2077.4	2241.3
20°	1956.2	2055.1	2129.9	2014.1	1850.2	1761.1	1684.5	1635.5	1635.5	1632.9	1679.2
22.5°	1709.5	1780.7	1860.9	1780.7	1632.9	1555.4	1511.7	1473.4	1468.1	1468.1	1511.7
25°	1575.8	1627.5	1704.1	1649.8	1539.3	1481.4	1440.4	1391.4	1372.7	1366.5	1396.8
27.5°	1509.0	1531.3	1569.6	1519.7	1427.1	1399.5	1388.8	1345.1	1319.3	1305.9	1337.1
30°	1396.8	1391.4	1394.1	1345.1	1270.3	1267.6	1286.3	1295.2	1286.3	1283.7	1330.9
32.5°	1292.6	1281.0	1278.3	1234.7	1166.1	1150.0	1166.1	1183.0	1201.7	1229.3	1283.7
35°	1160.7	1188.3	1204.4	1166.1	1083.2	1034.2	1015.5	985.2	968.3	968.3	1031.6
37.5°	1056.5	1119.7	1144.7	1109.1	1018.2	949.6	916.6	911.3	914.0	924.7	985.2
40°	1020.9	1067.2	1088.6	1053.8	963.0	900.6	881.0	875.7	881.0	897.9	957.6
42.5°	998.6	1031.6	1028.9	985.2	911.3	867.6	857.0	850.7	857.0	873.0	938.9
45°	979.9	1001.3	979.9	927.3	859.6	836.5	839.1	836.5	841.8	859.6	922.0
47.5°	963.0	971.0	944.3	891.7	820.4	815.1	825.8	833.8	839.1	854.3	919.3
50°	938.9	938.9	914.0	859.6	787.5	790.1	803.5	823.1	825.8	841.8	895.3
52.5°	908.6	906.0	889.0	836.5	759.9	767.9	767.9	790.1	795.5	815.1	870.3
55°	883.7	878.3	870.3	820.4	735.8	749.2	741.2	749.2	762.5	782.1	841.8
57.5°	862.3	850.7	850.7	806.2	716.2	721.6	702.8	713.5	729.6	746.5	808.9
60°	839.1	828.5	833.8	787.5	685.9	680.6	672.6	693.9	700.2	718.9	782.1
62.5°	815.1	806.2	808.9	765.2	664.5	650.3	650.3	669.9	672.6	700.2	759.9
65°	795.5	784.8	782.1	743.8	639.6	623.6	631.6	639.6	644.9	672.6	729.6
67.5°	776.8	754.5	754.5	724.2	612.0	595.1	612.0	609.3	618.2	642.3	688.6
70°	751.8	721.6	724.2	710.9	584.4	564.8	579.0	576.4	581.7	597.7	644.9
72.5°	713.5	688.6	693.9	688.6	556.8	529.1	534.5	534.5	534.5	548.7	597.7
75°	664.5	644.9	661.9	675.2	523.8	485.5	490.8	490.8	482.8	490.8	551.4
77.5°	603.1	592.4	647.6	628.9	485.5	439.2	439.2	433.8	417.8	428.5	493.5
80°	538.0	529.1	597.7	526.5	441.8	382.2	375.9	361.7	345.6	353.7	420.5
82.5°	469.5	461.4	502.4	403.5	382.2	315.3	302.0	277.0	261.0	269.0	328.7
85°	384.8	384.8	387.5	304.7	290.4	241.4	225.4	192.4	172.8	178.2	236.1
87.5°	274.4	282.4	261.0	208.4	172.8	134.5	123.8	104.2	87.3	101.6	123.8
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: P298910

CATALOG NUMBER: GLNA-AF-10-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7	16865.7
2.5°	14497.0	14799.0	15142.0	15580.3	15957.1	16573.5	17166.8	17523.1
5°	10839.4	11341.8	11966.2	12771.5	13520.7	14644.9	15762.0	16478.2
7.5°	7757.2	8295.2	8970.4	9974.4	11034.5	12468.7	13945.6	14801.7
10°	6419.2	6970.6	7538.0	8215.9	9083.6	10644.3	12389.4	13355.0
12.5°	5310.1	5899.8	6511.8	7225.4	8028.9	9423.0	11434.4	12546.2
15°	4063.9	4722.2	5443.7	6347.0	7353.6	8965.1	11198.4	12405.4
17.5°	2785.6	3521.4	4406.8	5521.2	6753.2	8816.3	11621.5	13012.9
20°	1917.9	2453.3	3400.2	4706.1	6188.5	8797.6	12433.0	14176.3
22.5°	1605.2	1844.0	2535.2	3957.0	5762.6	9033.7	13693.5	15808.3
25°	1484.1	1627.5	2024.8	3306.7	5452.6	9577.1	15427.9	17921.3
27.5°	1413.7	1542.0	1838.6	2881.8	5208.6	10207.8	17115.1	19968.4
30°	1440.4	1572.3	1786.1	2664.4	4876.3	10734.3	18613.5	21565.6
32.5°	1297.9	1355.8	1531.3	2472.0	4637.6	11176.1	19924.7	22888.5
35°	1106.4	1207.0	1366.5	2382.0	4642.9	11472.7	21354.5	24578.3
37.5°	1053.8	1155.4	1270.3	2349.1	4706.1	11789.0	22995.3	26560.4
40°	1020.9	1114.4	1213.3	2330.4	4766.7	12076.7	24604.2	28519.3
42.5°	998.6	1083.2	1207.0	2263.5	4797.0	12335.0	25926.1	30185.1
45°	995.9	1083.2	1229.3	2197.6	4843.3	12612.1	27035.2	31417.1
47.5°	998.6	1119.7	1188.3	2118.3	4843.3	13075.3	28335.8	32517.2
50°	987.9	1180.3	1144.7	2006.1	4731.1	13953.6	30119.2	33990.6
52.5°	982.6	1172.3	1059.2	1833.3	4536.0	15347.8	32405.0	36021.7
55°	968.3	1130.4	998.6	1575.8	4308.8	16868.4	34852.9	38423.3
57.5°	954.9	1001.3	965.6	1350.5	3957.0	17938.2	36537.4	40296.6
60°	1069.9	875.7	938.9	1240.0	3487.5	18231.3	36472.4	41043.1
62.5°	990.6	820.4	903.3	1216.0	3158.8	17408.2	34787.0	40640.5
65°	776.8	784.8	867.6	1286.3	3070.6	15227.5	31801.0	38776.9
67.5°	710.9	749.2	831.1	1378.1	3079.5	12191.6	27339.8	34717.5
70°	669.9	710.9	790.1	1424.4	3100.9	9088.9	21614.6	28277.8
72.5°	623.6	659.2	743.8	1432.4	2957.5	6601.8	16659.9	20792.4
75°	567.4	600.4	677.9	1248.0	2450.6	4579.7	12743.9	14225.3
77.5°	505.1	529.1	595.1	963.0	1819.9	2930.8	9565.5	10392.2
80°	431.2	444.5	499.7	705.5	1245.4	1833.3	7568.3	8338.9
82.5°	345.6	351.0	387.5	529.1	808.9	1177.6	5068.7	5784.9
85°	244.1	244.1	266.4	384.8	551.4	746.5	2751.7	3051.9
87.5°	114.9	117.6	117.6	211.1	287.7	379.5	634.3	390.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)