

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: P299001

Luminaire Tested: **GLNA-AF-05-LED-E1-T2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15641.2 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

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



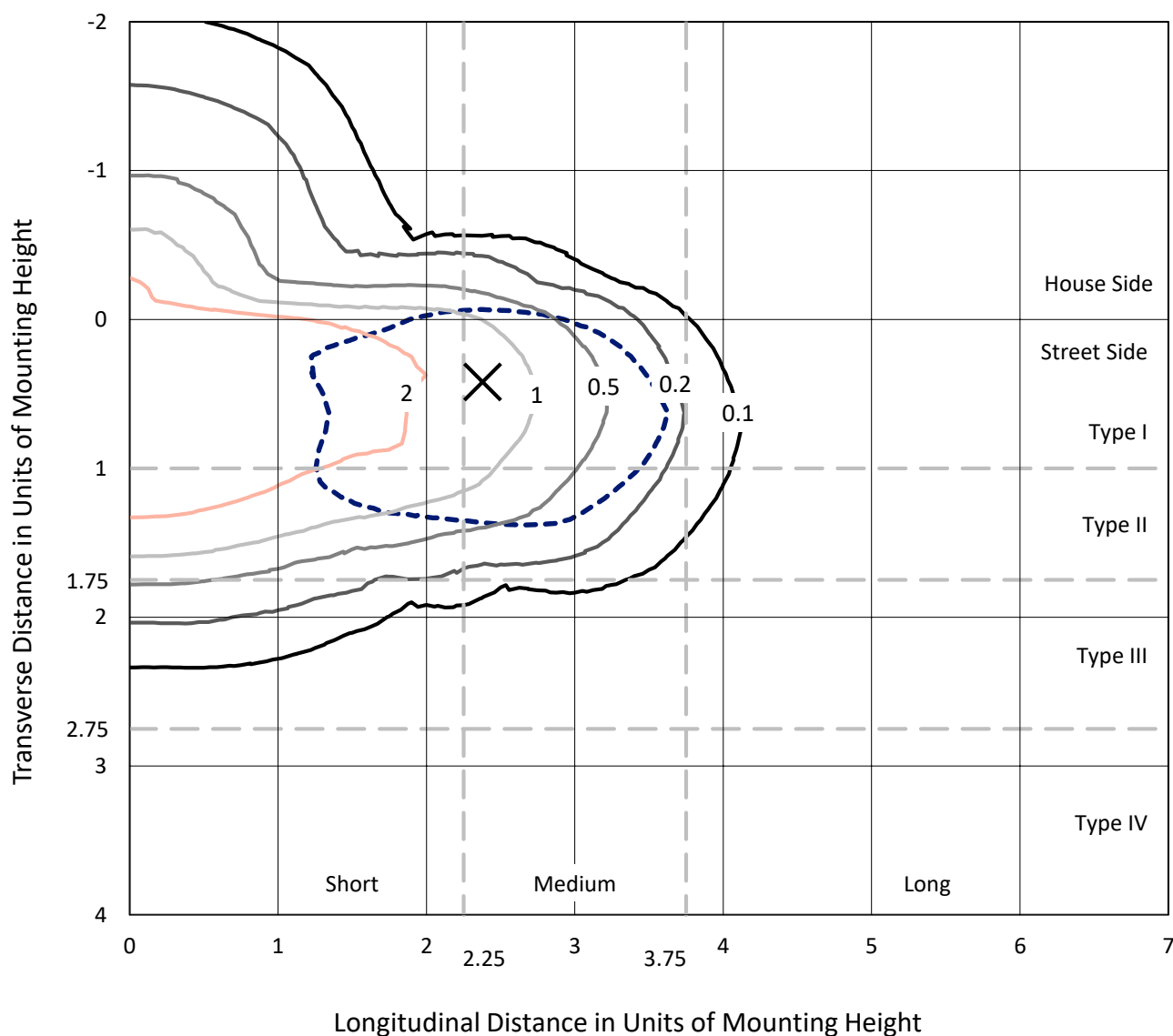
REPORT NUMBER: P299001

CATALOG NUMBER: GLNA-AF-05-LED-E1-T2-8030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

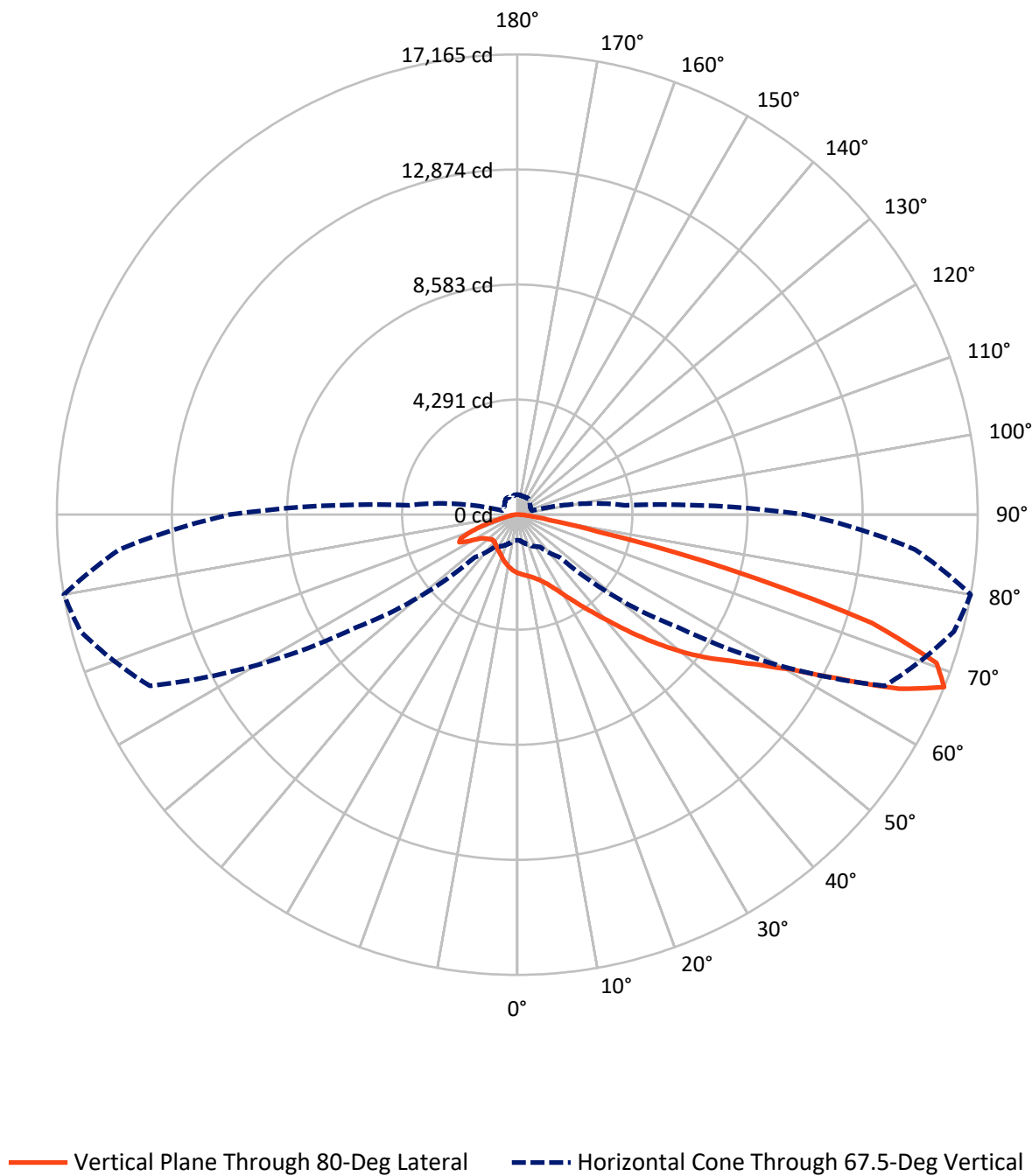


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P299001

CATALOG NUMBER: GLNA-AF-05-LED-E1-T2-8030-600

Luminous Intensity Polar Plot



REPORT NUMBER: P299001

CATALOG NUMBER: GLNA-AF-05-LED-E1-T2-8030-600

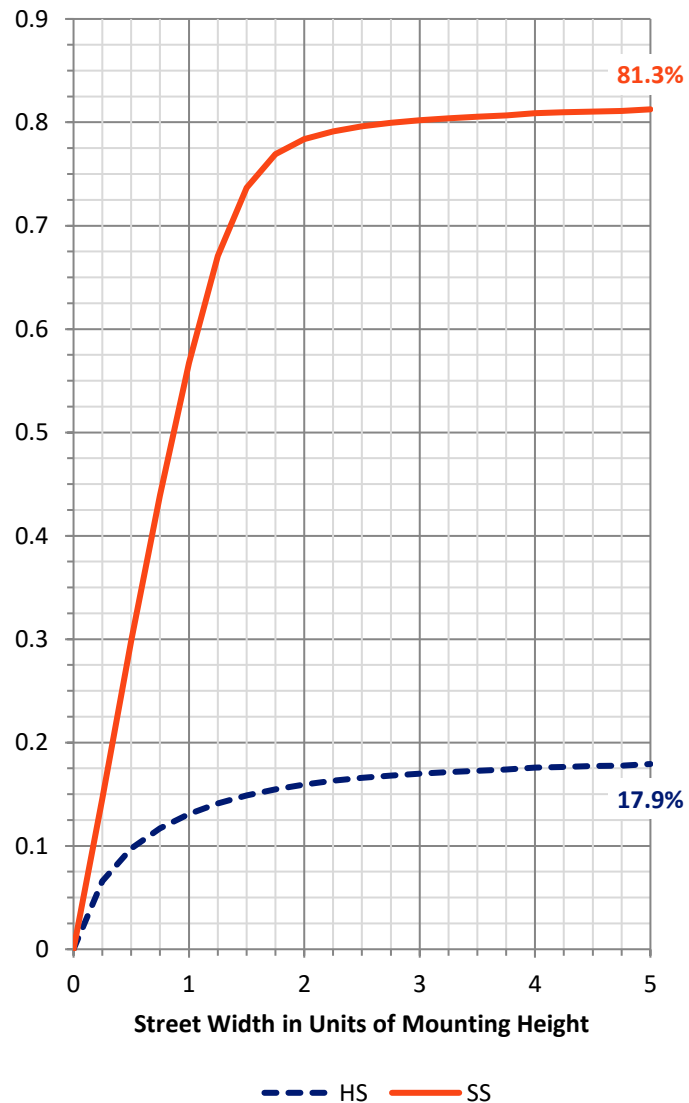
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2880.5	0.0	2880.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	12760.7	0.0	12760.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	15641.2	0.0	15641.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	1.3
10°-20°	577.4	3.7
20°-30°	955.8	6.1
30°-40°	1563.4	10.0
40°-50°	2524.3	16.1
50°-60°	3644.4	23.3
60°-70°	4021.8	25.7
70°-80°	1853.8	11.9
80°-90°	299.8	1.9
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°	15641.2	100.0
0°-180°	15641.2	100.0

Coefficient of Utilization



REPORT NUMBER: P299001

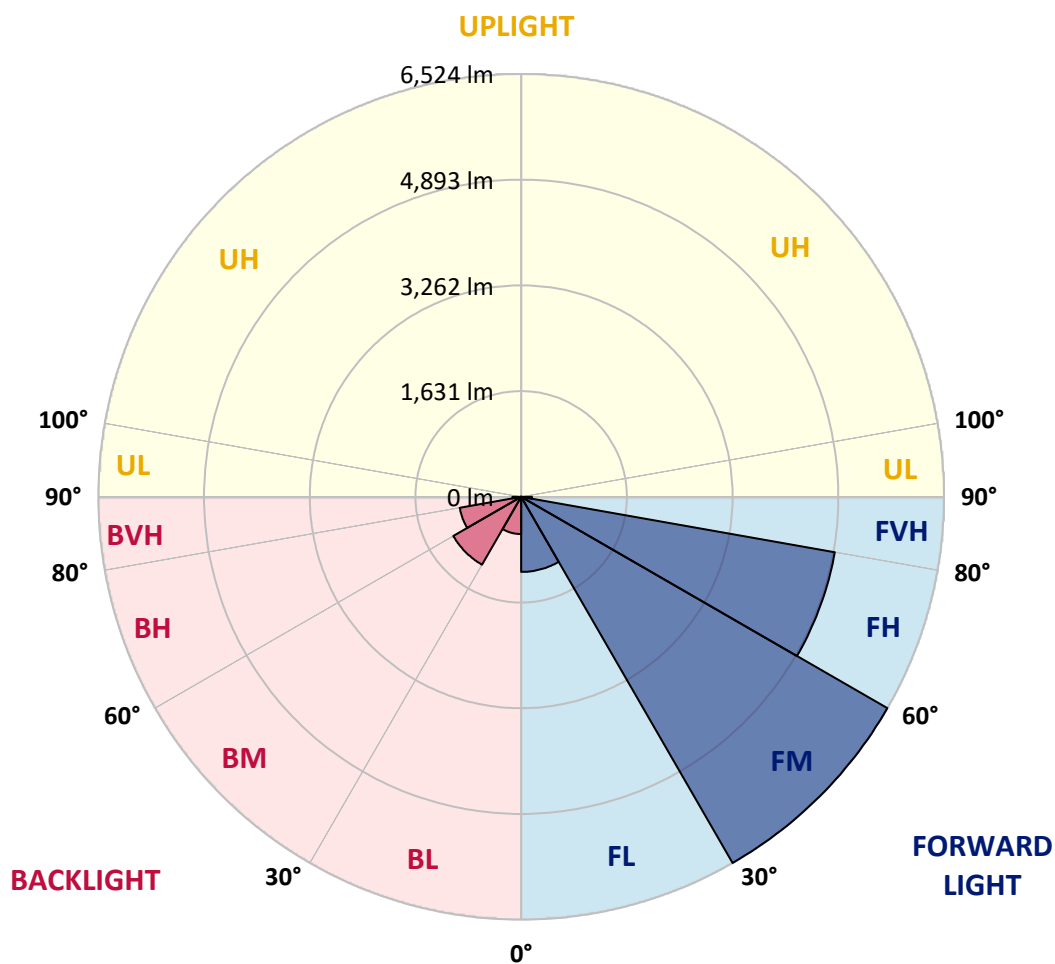
CATALOG NUMBER: GLNA-AF-05-LED-E1-T2-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1159.0	7.4			
FM	(30°-60°)	6523.5	41.7			
FH	(60°-80°)	4913.3	31.4			G2/5000
FVH	(80°-90°)	164.8	1.1			G2/225
BL	(0°-30°)	574.7	3.7	B2/1000		
BM	(30°-60°)	1208.6	7.7	B2/2500		
BH	(60°-80°)	962.3	6.2	B2/1000		G2/1000
BVH	(80°-90°)	135.0	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P299001

CATALOG NUMBER: GLNA-AF-05-LED-E1-T2-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0
2.5°	2377.1	2363.2	2365.5	2361.7	2350.1	2330.1	2308.5	2269.3	2228.5	2206.9	2190.0
5°	2575.7	2571.9	2566.5	2554.2	2524.9	2483.3	2431.7	2362.4	2287.7	2248.5	2210.7
7.5°	2724.4	2722.0	2715.1	2707.4	2678.9	2628.9	2551.1	2452.5	2344.0	2290.1	2231.5
10°	2736.7	2740.5	2745.9	2766.7	2770.6	2743.6	2664.3	2544.9	2402.5	2333.2	2258.5
12.5°	2631.9	2640.4	2661.2	2714.3	2770.6	2803.7	2762.9	2642.0	2471.0	2387.1	2292.4
15°	2493.3	2498.0	2523.4	2596.5	2697.4	2799.8	2838.3	2749.0	2559.6	2456.4	2343.2
17.5°	2434.1	2436.4	2454.1	2502.6	2596.5	2742.8	2880.7	2865.3	2668.1	2542.6	2405.6
20°	2404.0	2409.4	2434.8	2482.6	2541.9	2669.7	2886.8	2990.8	2797.5	2650.4	2484.1
22.5°	2489.5	2487.2	2496.4	2520.3	2570.3	2647.3	2882.2	3120.1	2962.3	2789.0	2586.5
25°	2688.9	2697.4	2681.2	2654.3	2670.4	2724.4	2906.8	3260.3	3168.7	2966.9	2720.5
27.5°	2973.1	2964.6	2940.7	2877.6	2844.5	2867.6	2988.5	3411.2	3425.1	3201.0	2897.6
30°	3256.4	3249.5	3226.4	3149.4	3081.6	3062.4	3147.1	3584.5	3730.8	3482.1	3114.8
32.5°	3550.6	3542.9	3521.3	3444.3	3362.7	3318.0	3372.7	3784.7	4091.1	3817.8	3370.4
35°	3913.3	3898.6	3853.2	3746.2	3666.1	3631.4	3656.9	4036.5	4507.0	4215.1	3680.7
37.5°	4254.4	4276.7	4230.5	4082.7	3978.7	3966.4	3994.9	4343.7	4955.1	4659.4	4037.2
40°	4597.1	4600.9	4559.3	4438.4	4331.4	4311.4	4383.0	4716.4	5484.1	5190.7	4470.8
42.5°	4951.3	4959.0	4888.9	4777.2	4698.7	4702.5	4784.2	5153.0	6090.9	5816.8	4969.7
45°	5370.9	5382.5	5305.5	5159.2	5087.6	5231.6	5197.7	5642.7	6756.2	6528.3	5542.6
47.5°	5809.8	5827.6	5769.0	5632.0	5542.6	5740.5	5611.2	6185.6	7472.3	7291.4	6171.8
50°	6049.3	6074.7	6131.7	6121.7	6102.5	6069.3	6072.4	6767.8	8210.8	8086.0	6818.6
52.5°	5920.7	5920.0	6127.9	6380.4	6649.9	6670.0	6634.5	7381.5	8900.7	8863.0	7427.7
55°	5332.4	5372.5	5687.4	6176.4	6912.5	7372.2	7476.9	8084.5	9578.3	9622.2	8046.0
57.5°	4353.0	4386.1	4811.1	5492.6	6558.3	7789.6	8675.1	9106.3	10336.1	10540.9	8869.2
60°	2952.3	2992.3	3442.8	4261.3	5605.0	7557.0	9815.5	10929.7	11243.1	11709.0	10024.2
62.5°	1734.9	1771.1	2138.4	2688.2	3946.4	6476.7	10316.0	13524.0	12683.9	13471.6	11786.0
65°	1194.3	1219.0	1397.6	1673.3	2267.7	4362.2	9695.4	15315.0	14900.8	15655.4	13828.9
67.5°	961.0	957.9	1099.6	1287.5	1460.0	2249.2	7331.4	15112.5	16850.5	17165.4	14889.2
70°	791.6	788.5	884.8	1040.3	1166.6	1266.7	3993.4	12753.2	16453.1	16581.0	13912.8
72.5°	662.2	665.3	726.9	842.4	957.1	954.1	1754.9	8971.6	12943.4	13827.3	11090.7
75°	559.0	560.6	601.4	683.0	777.0	768.5	951.8	4860.4	7523.9	8139.2	6147.9
77.5°	475.9	477.4	503.6	549.0	616.0	612.9	694.6	2099.9	3138.6	3100.1	2102.9
80°	424.3	424.3	436.6	445.1	482.0	468.2	515.1	1008.7	1326.8	1225.1	839.3
82.5°	332.7	334.2	409.7	406.6	379.6	361.9	361.9	594.5	703.0	649.9	491.3
85°	187.1	186.3	264.1	318.8	334.2	254.9	252.6	332.7	382.7	337.3	237.9
87.5°	80.1	81.6	122.4	141.7	189.4	158.6	156.3	171.7	194.8	168.6	110.1
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: P299001

CATALOG NUMBER: GLNA-AF-05-LED-E1-T2-8030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0
2.5°	2173.8	2153.8	2109.9	2055.2	2005.9	1973.6	1944.3	1902.0	1904.3	1875.0	1853.5
5°	2172.2	2130.7	2029.0	1908.1	1791.8	1707.9	1644.8	1587.8	1573.9	1547.0	1530.8
7.5°	2173.8	2106.0	1935.1	1741.8	1597.8	1491.5	1437.6	1407.6	1400.7	1391.4	1392.2
10°	2179.2	2083.7	1831.9	1586.3	1435.3	1365.3	1352.2	1361.4	1372.2	1375.3	1376.0
12.5°	2191.5	2063.7	1718.7	1447.6	1333.7	1312.1	1334.5	1366.0	1386.8	1396.8	1396.1
15°	2219.2	2048.3	1610.1	1339.1	1277.5	1289.0	1330.6	1375.3	1405.3	1419.2	1419.9
17.5°	2249.2	2025.9	1498.5	1255.9	1235.9	1265.2	1316.7	1369.1	1406.1	1421.5	1424.5
20°	2288.5	1998.2	1381.4	1193.5	1196.6	1229.7	1278.2	1330.6	1371.4	1384.5	1390.7
22.5°	2340.1	1968.2	1279.0	1142.7	1152.0	1177.4	1215.1	1260.5	1296.0	1302.1	1307.5
25°	2409.4	1935.8	1197.4	1096.5	1100.4	1115.0	1140.4	1167.4	1192.0	1185.1	1190.5
27.5°	2502.6	1908.1	1136.6	1054.2	1047.2	1050.3	1063.4	1071.9	1085.0	1065.7	1068.0
30°	2611.9	1878.1	1089.6	1017.2	998.0	992.6	995.6	1000.3	1010.3	984.1	980.2
32.5°	2739.0	1841.9	1045.7	984.9	957.9	947.1	948.7	961.0	999.5	983.3	974.9
35°	2886.8	1801.1	999.5	949.4	931.0	915.6	914.0	952.5	1067.3	1057.2	1049.5
37.5°	3060.1	1760.3	953.3	909.4	910.9	894.0	888.6	932.5	1080.3	1041.1	1035.7
40°	3280.3	1738.7	914.0	867.0	886.3	884.0	873.2	895.5	994.1	922.5	913.3
42.5°	3552.9	1741.8	884.8	821.6	857.0	881.7	864.7	865.5	900.9	847.0	838.6
45°	3889.4	1778.0	864.0	785.4	823.9	879.4	861.7	849.3	852.4	823.9	819.3
47.5°	4282.1	1852.7	849.3	755.4	792.4	870.9	860.9	844.7	837.8	822.4	818.5
50°	4718.7	1961.3	838.6	726.9	763.9	857.0	861.7	840.1	832.4	826.2	823.9
52.5°	5147.6	2085.2	822.4	702.3	741.5	840.1	864.0	835.5	827.0	822.4	820.1
55°	5625.8	2240.0	797.7	681.5	723.1	818.5	864.0	828.5	819.3	820.1	819.3
57.5°	6271.9	2490.3	768.5	663.8	700.7	792.4	849.3	820.8	809.3	810.1	810.8
60°	7281.4	2931.5	733.1	646.1	673.0	761.6	829.3	803.9	792.4	795.4	796.2
62.5°	8766.0	3579.1	686.9	619.9	643.7	728.4	801.6	782.3	770.8	778.5	778.5
65°	10309.1	4150.4	629.9	586.8	612.9	692.3	766.9	755.4	743.8	761.6	760.8
67.5°	10724.1	4022.6	572.9	550.6	582.1	652.2	725.4	719.2	713.0	743.8	742.3
70°	9526.8	3229.5	520.5	513.6	548.3	609.1	680.7	680.7	676.9	700.0	694.6
72.5°	7258.3	2290.1	470.5	474.3	509.8	562.1	632.2	637.6	631.4	643.0	638.4
75°	3885.5	1310.6	420.4	431.2	462.0	514.4	578.3	583.7	579.8	579.1	581.4
77.5°	1291.3	640.7	368.1	385.0	412.0	465.1	522.1	530.5	521.3	519.8	519.0
80°	575.2	402.7	310.3	332.7	356.5	408.9	462.8	469.7	459.7	473.6	455.9
82.5°	369.6	264.9	248.7	273.4	296.5	352.7	403.5	405.0	395.8	459.7	391.9
85°	179.4	164.0	187.1	209.4	229.5	277.2	334.2	335.0	311.9	284.1	274.1
87.5°	89.3	95.5	124.7	144.8	154.8	190.2	243.3	238.7	228.7	207.9	191.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)