

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: P300357

Luminaire Tested: **GLNA-AF-01-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-AFL-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4201 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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



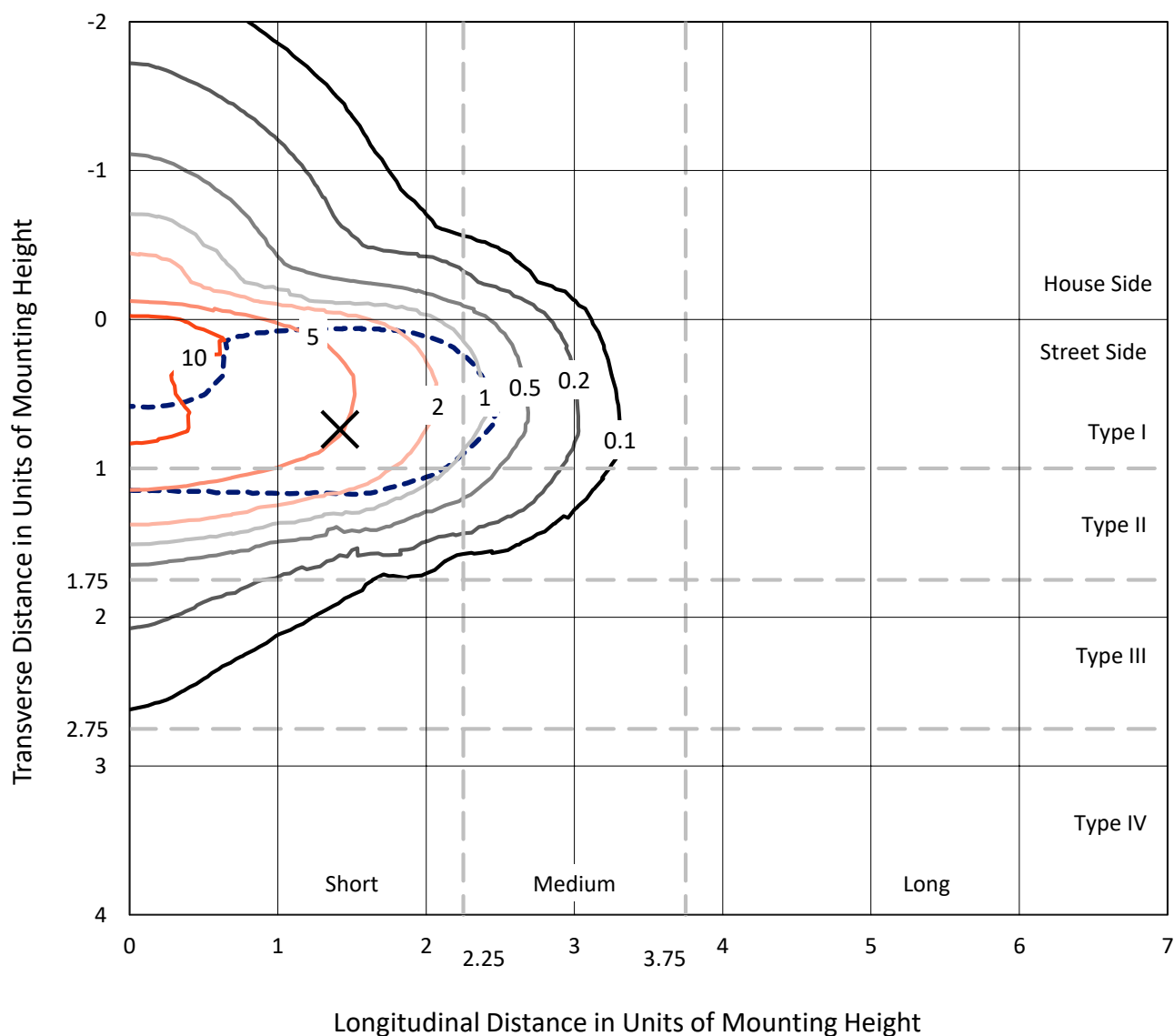
REPORT NUMBER: P300357

CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-8030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

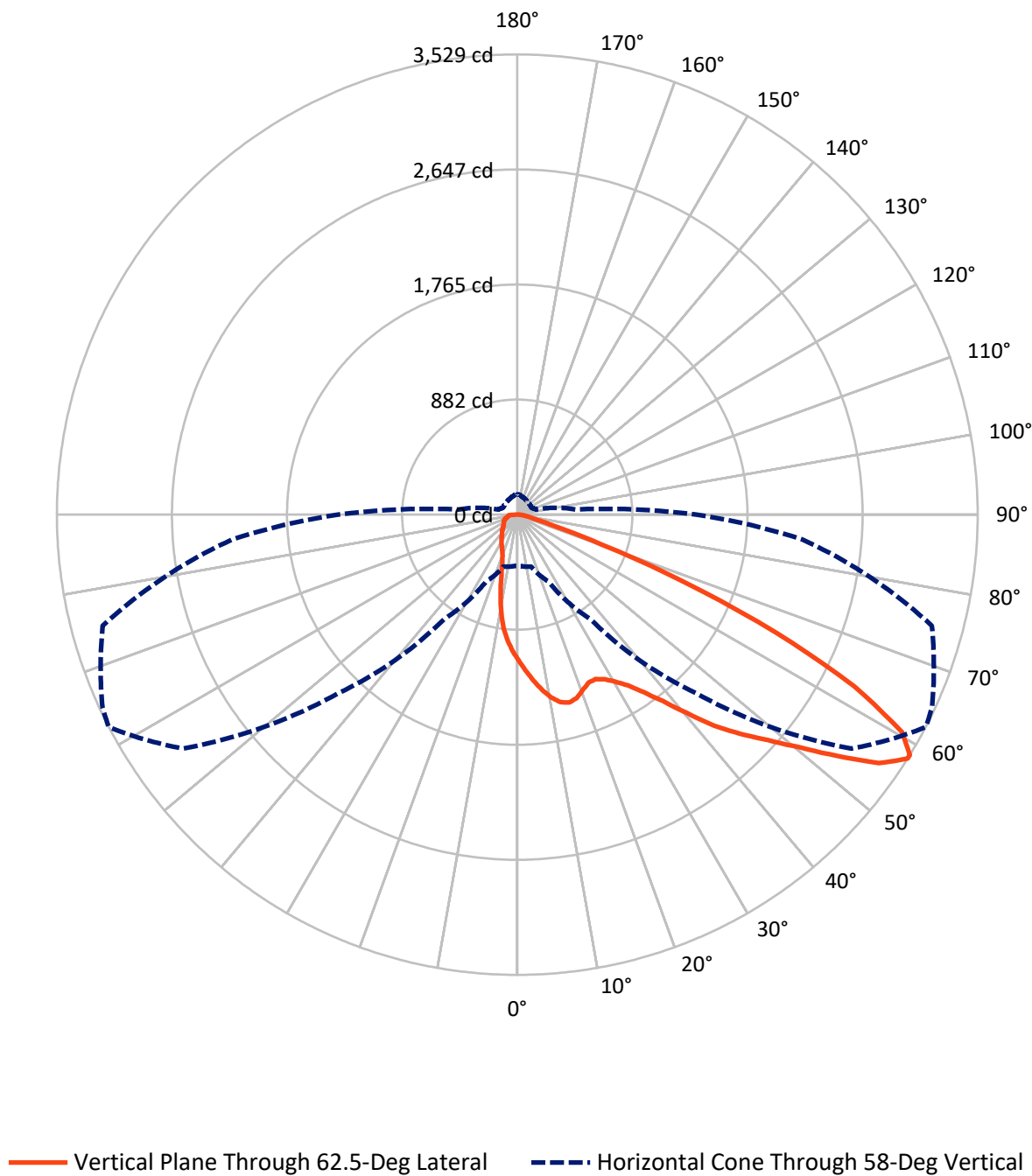


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P300357

CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-8030-800

Luminous Intensity Polar Plot



REPORT NUMBER: P300357

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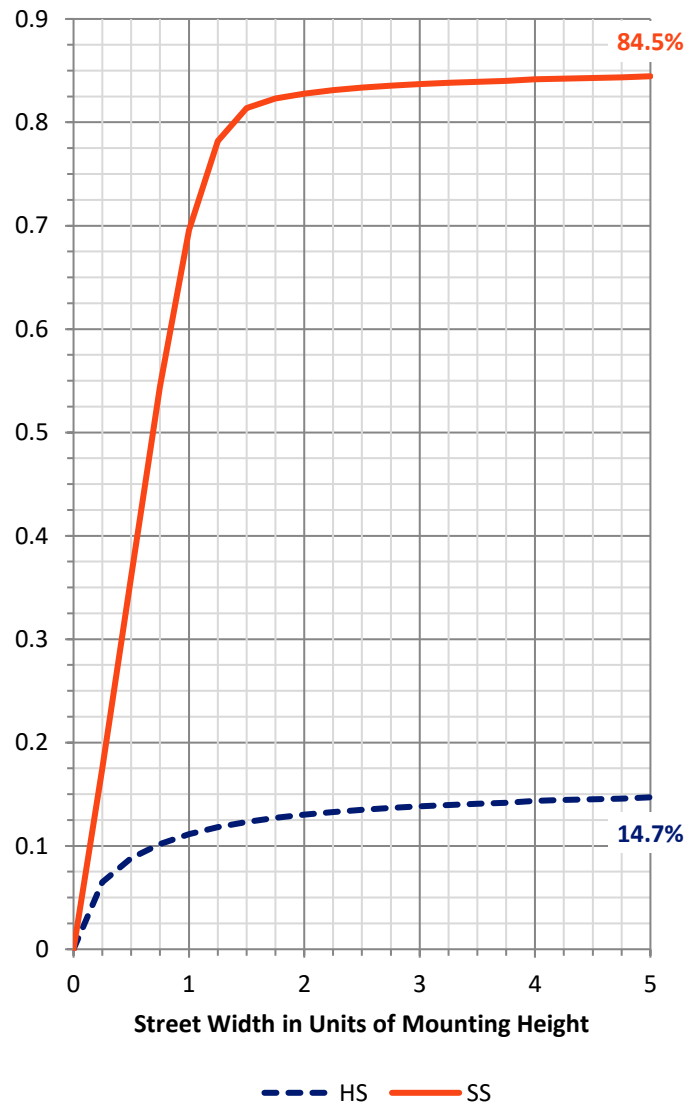
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	640.7	0.0	640.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	3560.3	0.0	3560.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	4201.0	0.0	4201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	2.4
10°-20°	255.1	6.1
20°-30°	412.4	9.8
30°-40°	654.7	15.6
40°-50°	957.9	22.8
50°-60°	1001.9	23.8
60°-70°	591.9	14.1
70°-80°	166.8	4.0
80°-90°	60.5	1.4
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°	4201.0	100.0
0°-180°	4201.0	100.0

Coefficient of Utilization



REPORT NUMBER: P300357

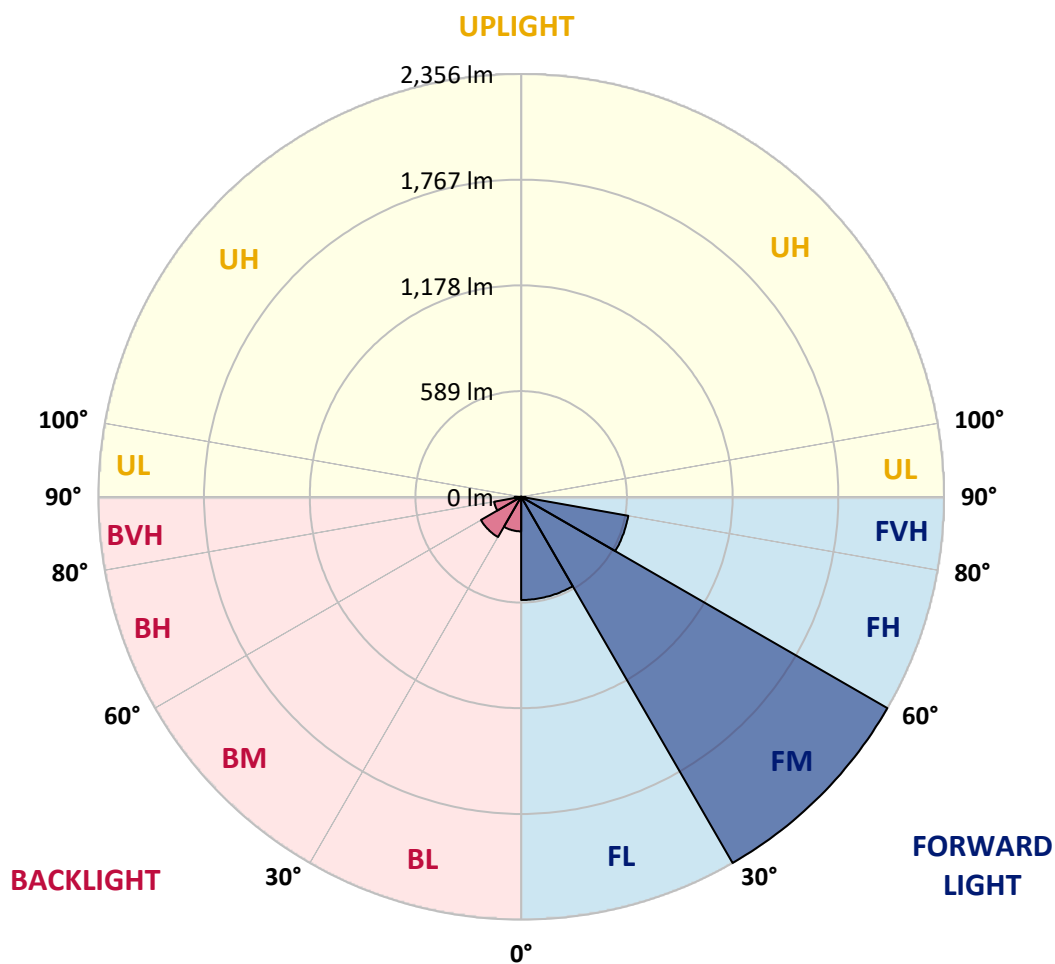
CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	574.7	13.7			
FM	(30°-60°)	2355.9	56.1			
FH	(60°-80°)	605.8	14.4			G0/660
FVH	(80°-90°)	23.9	0.6			G1/100
BL	(0°-30°)	192.6	4.6	B1/500		
BM	(30°-60°)	258.6	6.2	B1/1000		
BH	(60°-80°)	152.9	3.6	B1/500		G1/500
BVH	(80°-90°)	36.7	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P300357

CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9
2.5°	1275.2	1264.9	1258.3	1252.6	1245.1	1229.1	1207.5	1193.9	1186.9	1163.4	1135.5
5°	1400.2	1391.1	1384.4	1376.6	1363.2	1338.1	1303.2	1275.6	1261.9	1214.8	1159.0
7.5°	1370.9	1374.7	1386.3	1406.7	1424.1	1420.8	1389.7	1354.5	1336.5	1271.0	1186.3
10°	1194.4	1201.0	1221.2	1268.8	1346.0	1425.1	1449.2	1424.9	1406.7	1326.6	1214.4
12.5°	1159.0	1158.8	1160.4	1173.1	1219.0	1330.4	1451.2	1475.7	1464.9	1379.6	1243.1
15°	1173.5	1173.9	1172.7	1178.0	1192.3	1236.4	1390.7	1495.3	1503.0	1433.0	1272.8
17.5°	1211.5	1210.5	1205.9	1205.9	1211.1	1228.3	1319.5	1477.1	1512.7	1480.3	1298.9
20°	1275.2	1270.6	1258.5	1247.5	1241.9	1251.2	1290.2	1435.2	1495.9	1521.6	1320.5
22.5°	1352.3	1348.7	1329.2	1305.4	1286.2	1286.0	1305.2	1398.6	1466.8	1560.6	1338.7
25°	1452.0	1446.3	1417.2	1379.2	1345.6	1332.7	1338.1	1396.8	1451.0	1602.9	1354.9
27.5°	1569.1	1558.6	1524.2	1469.4	1420.0	1394.0	1386.3	1429.1	1465.5	1655.4	1377.4
30°	1711.2	1699.1	1655.0	1583.6	1513.7	1471.2	1454.8	1486.2	1513.3	1719.3	1413.6
32.5°	1872.8	1855.4	1804.3	1725.6	1633.8	1568.9	1542.2	1561.8	1583.4	1796.2	1458.9
35°	2096.1	2075.3	2001.6	1893.0	1789.3	1700.1	1657.3	1671.6	1692.6	1911.0	1524.4
37.5°	2248.4	2239.1	2190.1	2088.0	1975.2	1872.6	1806.5	1814.8	1826.7	2054.4	1608.3
40°	2247.1	2250.8	2251.8	2252.8	2176.0	2077.7	2006.7	1998.0	1995.6	2211.8	1703.6
42.5°	2134.5	2149.9	2199.8	2300.9	2347.5	2302.4	2237.4	2212.2	2199.8	2397.4	1804.7
45°	1962.2	1970.5	2063.9	2261.3	2435.4	2525.0	2475.7	2396.6	2374.1	2567.9	1888.6
47.5°	1873.4	1882.5	1941.2	2156.5	2434.4	2704.8	2733.3	2582.6	2542.2	2716.3	1961.0
50°	1661.9	1680.9	1754.9	1974.1	2345.6	2787.5	3002.5	2804.1	2720.6	2860.7	2033.6
52.5°	1273.6	1302.9	1385.7	1674.2	2120.3	2746.6	3218.0	3072.8	2954.9	3010.3	2095.9
55°	803.4	825.1	894.7	1182.4	1696.1	2533.5	3299.7	3363.4	3258.5	3151.9	2149.9
57.5°	436.8	446.5	472.6	652.8	1103.3	2062.5	3180.6	3528.7	3485.2	3272.2	2190.7
58°	390.9	397.4	413.6	565.8	978.4	1933.7	3127.8	3529.3	3507.6	3289.8	2193.8
60°	290.0	286.6	272.2	322.8	544.6	1335.9	2808.5	3388.1	3452.0	3311.3	2178.4
62.5°	254.8	246.7	217.2	213.8	264.9	615.4	2148.9	2902.2	3053.2	3188.3	2084.6
65°	239.4	230.7	192.7	180.4	191.1	260.3	1265.9	2176.6	2365.9	2815.2	1844.9
67.5°	227.9	216.6	177.1	160.2	161.0	172.1	507.4	1370.9	1584.0	2137.5	1435.0
70°	216.8	204.5	163.8	144.4	139.9	136.1	201.8	686.2	879.5	1350.1	914.9
72.5°	204.9	192.9	152.1	131.9	123.0	110.6	131.7	280.7	392.1	638.8	415.0
75°	187.7	176.9	140.5	120.9	108.2	91.6	99.5	146.6	175.9	254.4	200.0
77.5°	166.6	157.7	127.4	111.8	95.9	74.4	76.6	101.7	112.8	145.6	118.9
80°	119.7	122.8	113.4	100.5	85.5	60.3	58.8	74.2	80.1	93.6	77.3
82.5°	84.1	85.9	93.8	82.1	70.6	47.5	43.3	52.2	55.8	61.5	41.7
85°	58.0	56.0	64.3	57.2	51.0	31.7	29.7	35.4	37.6	38.2	21.6
87.5°	34.8	34.8	37.2	30.7	27.5	16.4	16.0	20.2	21.6	20.6	11.9
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: P300357

CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-8030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9
2.5°	1118.9	1104.8	1075.0	1051.0	1020.8	989.3	971.7	952.9	940.0	930.8	945.6
5°	1127.4	1098.7	1037.0	978.4	913.7	846.5	795.4	748.0	714.9	694.4	713.7
7.5°	1140.8	1096.7	998.4	898.3	782.2	670.2	570.1	507.4	470.8	452.8	464.1
10°	1156.3	1093.6	953.1	789.7	623.5	482.5	407.7	382.4	374.1	370.7	372.3
12.5°	1169.1	1086.8	897.5	658.4	468.2	381.0	359.4	358.8	360.6	361.0	361.6
15°	1178.2	1076.9	815.0	521.5	374.5	347.2	346.0	349.6	352.9	354.3	355.1
17.5°	1184.4	1056.6	721.9	412.3	335.5	330.8	333.5	338.1	341.6	342.6	343.4
20°	1183.8	1026.7	610.9	343.8	314.3	314.3	319.1	322.6	322.8	321.7	322.3
22.5°	1177.6	985.7	503.3	307.4	295.5	298.9	303.7	300.3	286.4	277.3	277.9
25°	1167.3	936.9	411.1	284.3	278.1	284.1	282.7	257.4	237.6	228.7	228.7
27.5°	1158.2	879.1	340.3	264.1	260.7	268.0	243.5	220.6	212.3	208.1	206.7
30°	1151.7	816.8	293.0	244.7	244.3	239.0	211.3	204.9	203.6	200.2	199.0
32.5°	1153.3	753.7	262.7	227.7	229.1	204.5	195.8	197.2	196.0	192.5	190.9
35°	1166.4	693.8	242.9	212.3	208.1	184.8	186.7	189.3	188.9	184.0	182.4
37.5°	1189.7	637.0	229.9	199.4	181.6	174.9	178.0	182.0	181.0	177.6	176.5
40°	1214.2	583.6	219.2	189.3	166.0	168.1	170.9	173.1	174.1	175.1	174.3
42.5°	1238.2	527.8	206.1	179.0	159.4	161.8	163.0	165.2	170.5	174.3	174.1
45°	1252.4	475.4	192.7	164.4	154.3	155.7	154.9	159.2	165.8	171.9	172.1
47.5°	1268.2	434.6	182.0	150.9	149.4	150.3	148.0	152.3	158.3	165.8	166.6
50°	1287.4	410.3	173.5	140.3	142.6	142.6	142.0	146.0	154.3	163.0	164.6
52.5°	1309.2	405.5	166.4	132.5	135.9	135.7	136.3	142.2	151.3	159.8	161.2
55°	1335.7	418.4	158.7	126.8	129.4	130.2	132.1	138.9	146.6	156.3	156.9
57.5°	1366.6	444.5	152.5	122.3	123.4	126.0	129.2	135.3	143.6	154.3	154.9
58°	1371.7	450.0	151.5	121.9	122.3	125.2	128.8	134.7	143.0	154.7	155.3
60°	1371.9	468.4	149.4	120.1	117.7	122.6	126.6	132.5	142.0	156.1	157.5
62.5°	1323.2	468.2	147.8	117.5	113.0	119.1	123.6	130.6	141.0	159.4	162.2
65°	1165.2	425.5	140.3	113.5	109.2	115.9	121.1	129.2	143.8	174.1	175.9
67.5°	911.4	348.8	126.2	108.0	104.3	112.8	119.5	129.0	146.8	177.4	178.6
70°	602.6	260.9	110.8	101.7	99.1	109.0	120.3	135.7	143.4	170.3	167.2
72.5°	312.8	183.2	98.3	93.8	93.2	105.6	131.7	134.9	140.1	160.2	156.3
75°	164.2	127.2	87.4	85.1	86.1	104.8	155.5	131.4	135.7	153.3	160.8
77.5°	100.5	102.7	78.1	77.2	79.1	102.5	155.3	126.8	129.4	141.0	149.4
80°	67.3	83.3	71.0	71.2	72.6	93.8	139.5	119.7	121.7	133.3	141.8
82.5°	42.5	49.3	64.5	67.9	66.1	77.3	118.5	109.0	111.8	152.5	161.2
85°	21.6	30.9	56.0	65.3	59.5	54.2	96.1	95.5	96.9	110.0	114.9
87.5°	9.9	17.0	43.7	57.0	44.9	33.8	69.8	70.8	76.4	78.1	78.1
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)