

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: P298916

Luminaire Tested: **GLNA-AF-01-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298916
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-01-LED-E1-SLL-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Left OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4266 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

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

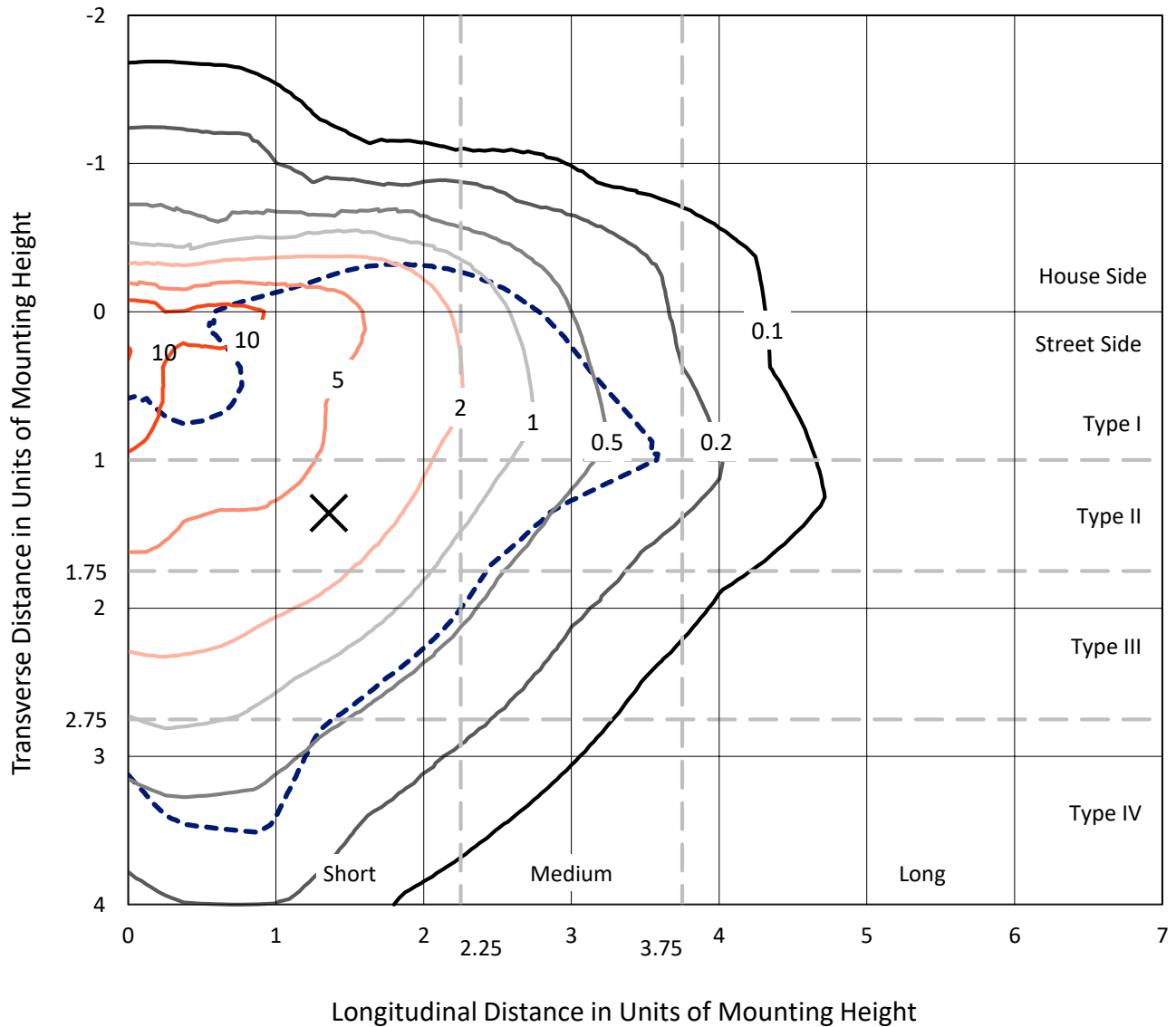


REPORT NUMBER: P298916

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-800

Iso-Footcandle Lines of Horizontal Illumination

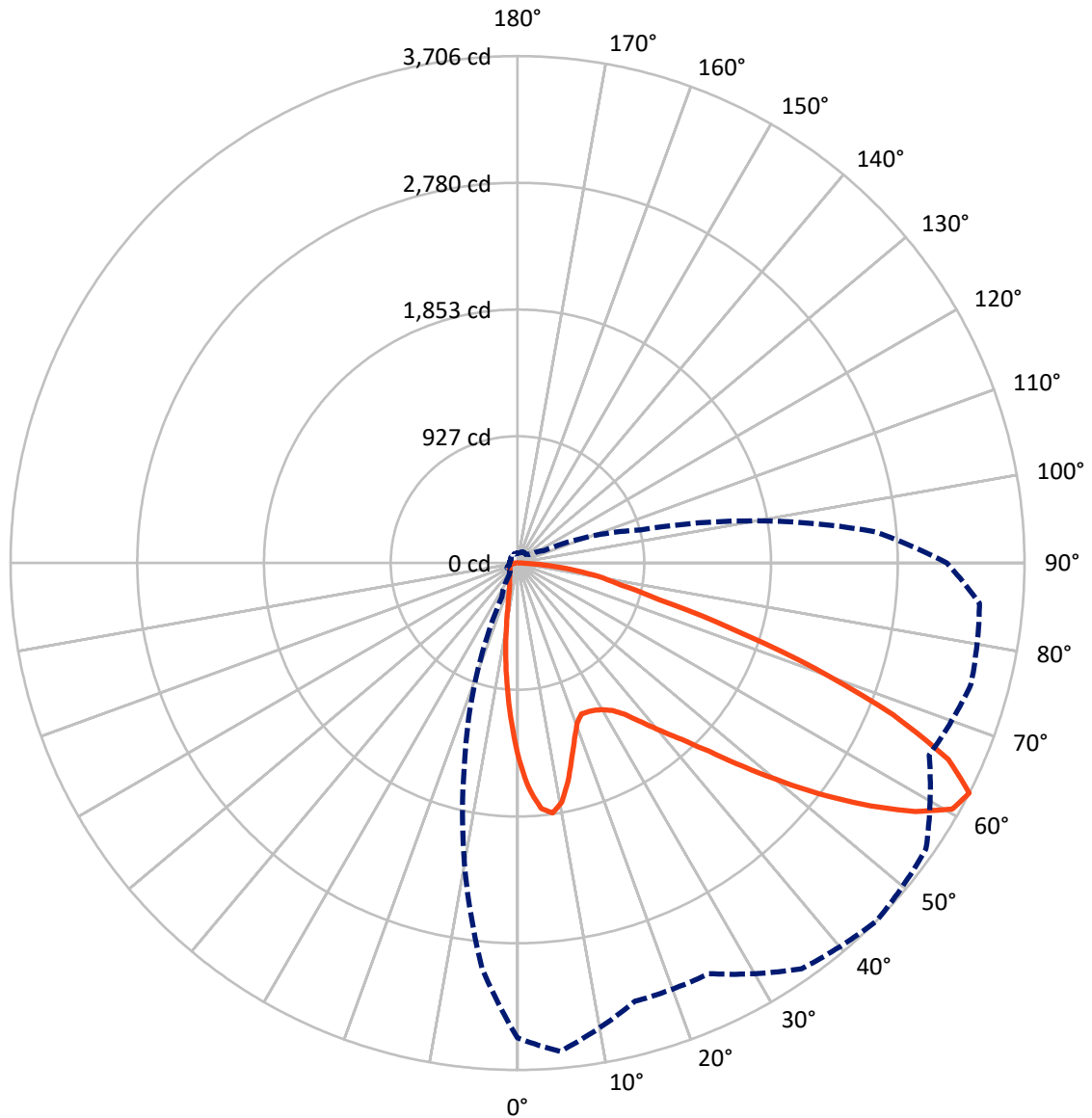
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P298916
CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P298916

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	706.0	0.0	706.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3560.0	0.0	3560.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	4266.0	0.0	4266.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	2.5
10°-20°	192.4	4.5
20°-30°	280.5	6.6
30°-40°	432.0	10.1
40°-50°	635.8	14.9
50°-60°	932.6	21.9
60°-70°	1042.5	24.4
70°-80°	510.4	12.0
80°-90°	134.8	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°	4266.0	100.0
0°-180°	4266.0	100.0



REPORT NUMBER: P298916

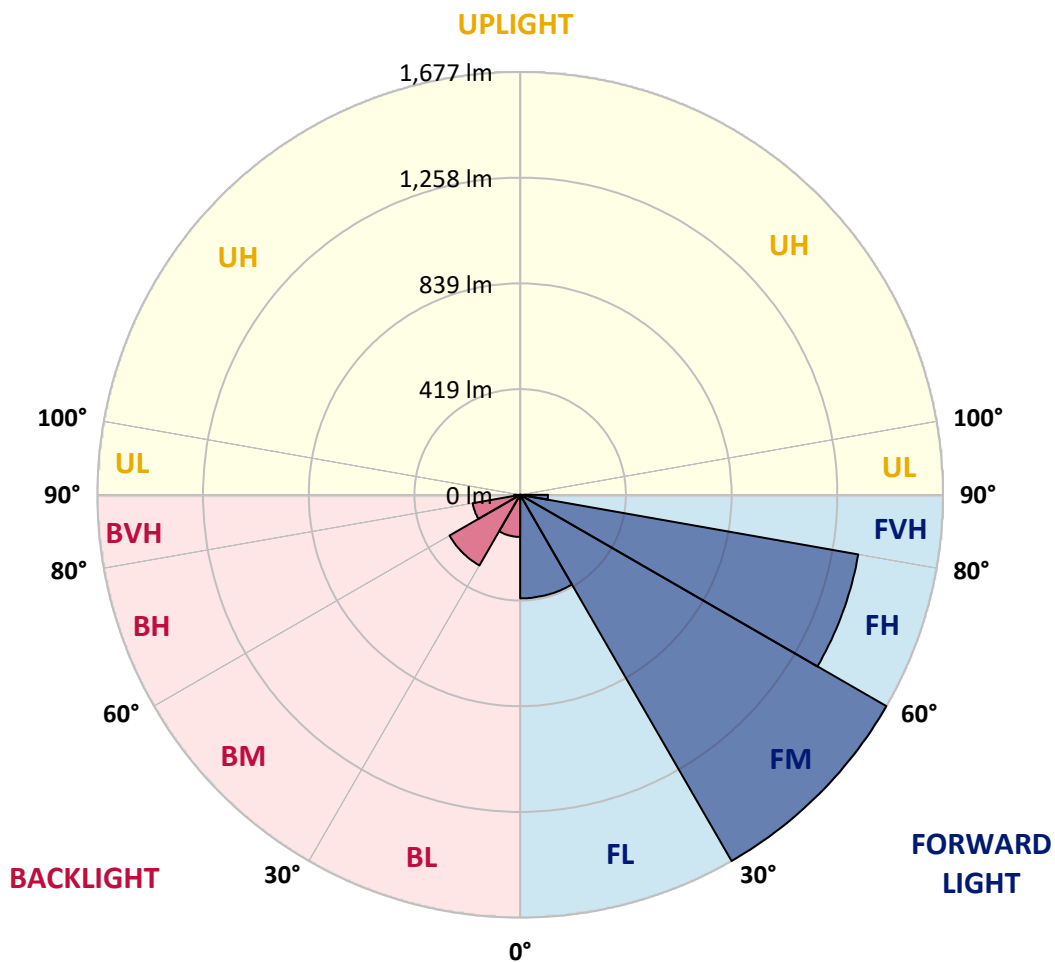
CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	410.8	9.6			
FM	(30°-60°)	1677.0	39.3			
FH	(60°-80°)	1361.6	31.9			G1/1800
FVH	(80°-90°)	110.7	2.6			G2/225
BL	(0°-30°)	167.0	3.9	B1/500		
BM	(30°-60°)	323.5	7.6	B1/1000		
BH	(60°-80°)	191.4	4.5	B1/500		G1/500
BVH	(80°-90°)	24.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P298916

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3
2.5°	1497.5	1521.5	1568.2	1603.0	1645.6	1655.4	1669.0	1655.6	1632.0	1600.5	1590.2
5°	1408.2	1459.4	1572.6	1672.3	1760.9	1802.2	1813.7	1779.6	1711.0	1620.7	1565.6
7.5°	1264.9	1337.6	1491.0	1637.8	1768.4	1845.6	1843.7	1764.6	1638.3	1491.2	1402.8
10°	1141.3	1224.4	1400.3	1564.4	1703.0	1777.8	1748.9	1647.9	1497.1	1327.7	1231.9
12.5°	1072.2	1153.6	1332.0	1496.8	1612.7	1638.5	1616.4	1517.5	1375.3	1204.2	1120.2
15°	1060.2	1149.6	1304.8	1439.0	1503.9	1481.4	1455.1	1410.8	1310.4	1164.3	1076.8
17.5°	1112.1	1210.5	1336.0	1398.6	1387.6	1348.4	1340.9	1345.9	1321.7	1208.6	1107.8
20°	1211.5	1329.7	1410.3	1379.7	1299.2	1245.2	1247.1	1322.4	1393.9	1321.0	1205.8
22.5°	1351.0	1485.9	1517.5	1389.7	1261.9	1197.9	1213.4	1335.4	1509.1	1485.2	1338.1
25°	1531.5	1654.5	1631.7	1426.3	1265.6	1203.7	1216.1	1379.9	1645.0	1649.3	1501.9
27.5°	1706.5	1820.5	1727.6	1474.8	1281.2	1217.6	1234.0	1449.9	1775.0	1827.5	1689.0
30°	1843.0	1922.3	1765.6	1519.1	1311.6	1244.5	1264.9	1516.5	1834.2	1947.8	1832.9
32.5°	1956.0	2013.0	1826.1	1574.0	1367.6	1286.9	1322.9	1597.5	1919.3	2062.3	1973.8
35°	2100.4	2116.7	1901.4	1635.2	1454.2	1360.9	1405.4	1676.7	2000.4	2177.9	2112.7
37.5°	2269.8	2249.0	1972.4	1719.0	1566.1	1476.4	1513.3	1763.7	2067.2	2309.0	2254.5
40°	2437.2	2387.0	2061.6	1848.8	1729.3	1612.7	1656.3	1856.6	2129.6	2440.3	2393.2
42.5°	2579.6	2505.2	2149.5	1991.7	1881.2	1763.0	1815.1	1950.2	2189.1	2552.3	2513.4
45°	2684.9	2592.5	2233.2	2128.8	2090.6	1962.8	1987.5	2057.3	2253.6	2646.0	2612.4
47.5°	2778.9	2680.2	2327.9	2267.2	2273.8	2222.6	2183.0	2182.1	2329.7	2722.4	2706.0
50°	2904.8	2801.9	2429.7	2409.8	2548.6	2514.6	2427.1	2327.7	2425.7	2809.2	2807.3
52.5°	3078.4	2994.7	2554.0	2563.4	2805.2	2827.5	2719.1	2502.7	2576.2	2968.4	2957.2
55°	3283.6	3234.8	2723.4	2740.0	3119.9	3135.9	3028.1	2721.4	2797.7	3199.0	3167.8
57.5°	3443.7	3433.4	2909.1	2952.0	3354.9	3426.7	3327.7	2974.8	3047.2	3393.1	3314.8
60°	3507.5	3557.5	3106.8	3165.9	3572.3	3651.7	3565.0	3197.2	3268.3	3473.6	3304.7
62.5°	3473.1	3584.6	3317.4	3312.4	3620.8	3706.4	3645.4	3321.1	3432.3	3390.5	3137.5
65°	3313.8	3486.9	3439.5	3274.6	3454.8	3461.8	3442.0	3265.7	3471.0	3128.1	2814.3
67.5°	2966.9	3216.0	3278.6	2951.1	3006.8	2961.1	2928.0	2962.7	3269.2	2734.8	2365.2
70°	2416.6	2791.4	2821.3	2360.3	2335.0	2304.2	2238.4	2429.0	2871.3	2241.4	1876.8
72.5°	1776.9	2170.9	2263.0	1731.1	1613.9	1620.2	1568.2	1830.5	2334.5	1665.0	1401.2
75°	1215.7	1571.9	1770.6	1207.9	1067.3	1069.8	1063.2	1297.1	1859.4	1158.2	1048.5
77.5°	888.1	1123.0	1335.4	812.1	788.4	773.8	770.3	907.5	1425.6	841.0	814.2
80°	712.6	829.7	896.9	562.8	605.2	604.1	584.6	624.0	931.0	615.1	608.9
82.5°	494.4	637.6	726.7	441.1	408.5	401.7	406.4	464.8	658.0	420.5	399.8
85°	260.8	423.5	719.7	390.9	242.5	193.4	240.6	380.6	570.1	222.8	195.0
87.5°	33.3	122.4	476.5	156.0	95.7	51.5	114.3	214.3	366.1	45.4	39.7
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: P298916

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3
2.5°	1563.7	1532.5	1491.7	1453.9	1414.8	1375.8	1324.9	1293.0	1271.0	1266.8	1257.5
5°	1525.8	1422.1	1343.7	1276.0	1214.5	1127.7	1079.6	1039.8	1018.4	1016.4	1011.2
7.5°	1350.5	1207.5	1101.7	1005.8	918.8	848.7	771.3	735.2	720.4	723.9	727.4
10°	1168.3	1008.4	886.9	788.8	712.2	653.1	591.0	549.0	519.9	514.0	512.9
12.5°	1035.1	859.7	741.8	672.5	613.3	557.6	491.8	442.2	404.5	391.6	383.0
15°	978.8	787.0	663.5	588.8	523.4	452.8	391.6	339.8	305.1	293.9	287.5
17.5°	990.8	766.8	609.5	514.0	430.4	356.7	279.5	235.2	214.3	209.0	209.0
20°	1053.7	763.1	564.9	445.1	340.7	255.3	192.1	166.7	159.9	159.3	161.1
22.5°	1141.8	776.3	531.7	385.4	264.8	186.4	149.6	140.2	137.2	137.9	140.0
25°	1273.2	820.6	507.5	332.1	207.8	152.6	133.4	127.8	126.4	128.3	130.9
27.5°	1428.8	864.9	492.5	292.0	175.4	139.5	126.8	121.0	122.0	124.3	126.6
30°	1565.6	901.3	468.8	263.4	165.3	140.2	126.8	118.9	118.0	118.5	119.1
32.5°	1688.3	925.9	441.1	236.1	142.6	124.5	118.5	117.3	112.1	110.2	110.5
35°	1794.0	925.9	424.5	220.2	127.8	110.5	100.6	94.8	92.1	92.3	95.0
37.5°	1896.0	907.3	416.3	211.3	119.8	105.1	96.4	91.2	87.7	87.0	87.5
40°	1986.0	880.3	406.9	207.5	113.7	101.8	93.6	89.3	85.6	84.4	84.7
42.5°	2058.3	858.5	396.6	202.7	109.9	99.4	91.7	87.9	83.7	82.5	82.3
45°	2136.4	851.3	383.0	192.8	111.8	99.7	91.2	87.2	83.0	81.6	81.2
47.5°	2239.3	874.0	368.9	181.0	115.9	100.9	91.9	87.2	82.8	81.6	81.2
50°	2368.9	927.5	351.0	163.9	111.8	104.1	91.7	86.5	82.8	81.6	80.7
52.5°	2535.5	999.7	327.7	144.3	109.5	112.1	91.2	85.1	81.6	80.0	78.3
55°	2737.9	1058.8	299.6	128.0	104.1	109.9	90.5	83.5	79.8	77.4	76.0
57.5°	2886.1	1080.1	263.9	117.5	96.6	106.4	89.5	81.4	77.4	75.5	73.7
60°	2856.8	1038.8	233.6	110.9	92.1	96.1	88.8	79.5	75.3	73.9	72.2
62.5°	2622.1	931.0	214.1	107.9	89.3	87.7	89.5	77.7	73.5	71.9	71.5
65°	2270.1	771.7	206.4	107.2	87.0	82.8	83.3	75.5	71.3	70.1	69.7
67.5°	1872.5	622.9	199.6	109.5	84.0	79.2	77.0	72.7	69.1	68.0	67.1
70°	1476.7	518.1	196.5	108.1	80.2	75.7	73.2	69.7	66.6	65.4	64.7
72.5°	1189.1	437.6	194.8	106.7	75.3	71.0	68.7	65.6	62.3	61.9	61.2
75°	1006.3	344.0	178.5	102.2	69.7	65.4	63.8	61.0	57.7	57.7	57.2
77.5°	776.3	248.8	148.4	90.5	63.8	59.1	57.7	55.6	51.8	52.5	52.3
80°	573.4	162.3	116.1	75.1	56.6	52.1	51.3	49.3	45.2	46.2	46.2
82.5°	392.8	106.4	83.5	61.4	48.3	44.1	44.1	41.9	37.5	38.0	39.4
85°	197.2	73.2	62.3	47.6	37.5	35.4	35.4	33.8	29.3	29.5	31.4
87.5°	60.1	44.1	41.3	34.0	26.9	26.5	25.3	24.1	21.3	21.1	22.3
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: P298916

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3
2.5°	1243.1	1229.7	1213.6	1177.9	1166.0	1165.2	1176.1	1164.8	1186.4	1177.2	1187.3
5°	1002.5	989.4	971.3	925.9	898.2	879.4	870.5	844.3	863.2	849.4	860.9
7.5°	737.3	740.3	728.4	701.7	641.4	611.2	593.3	577.4	591.2	589.8	611.8
10°	518.3	526.4	518.1	491.1	442.2	425.6	428.9	435.2	453.3	462.6	496.7
12.5°	373.1	372.6	367.2	343.1	311.0	312.8	326.2	337.2	353.8	363.7	398.4
15°	278.6	274.4	272.0	252.3	234.0	238.1	244.6	245.7	256.3	262.2	290.4
17.5°	210.6	212.7	215.2	201.2	187.4	184.8	179.7	173.3	176.4	177.5	191.5
20°	167.2	175.6	182.0	172.1	158.1	150.5	144.0	139.8	139.8	139.5	143.5
22.5°	146.1	152.2	159.0	152.2	139.5	132.9	129.2	125.9	125.5	125.5	129.2
25°	134.7	139.1	145.6	141.0	131.5	126.6	123.1	118.9	117.3	116.8	119.4
27.5°	129.0	130.9	134.1	129.9	122.0	119.6	118.7	115.0	112.7	111.6	114.3
30°	119.4	118.9	119.1	115.0	108.6	108.3	109.9	110.7	109.9	109.7	113.7
32.5°	110.5	109.5	109.2	105.5	99.7	98.3	99.7	101.1	102.7	105.1	109.7
35°	99.2	101.6	102.9	99.7	92.6	88.4	86.8	84.2	82.8	82.8	88.2
37.5°	90.3	95.7	97.8	94.8	87.0	81.2	78.3	77.9	78.1	79.0	84.2
40°	87.2	91.2	93.0	90.1	82.3	77.0	75.3	74.8	75.3	76.7	81.8
42.5°	85.3	88.2	87.9	84.2	77.9	74.1	73.2	72.7	73.2	74.6	80.2
45°	83.7	85.6	83.7	79.2	73.5	71.5	71.7	71.5	71.9	73.5	78.8
47.5°	82.3	83.0	80.7	76.2	70.1	69.7	70.6	71.3	71.7	73.0	78.6
50°	80.2	80.2	78.1	73.5	67.3	67.5	68.7	70.3	70.6	71.9	76.5
52.5°	77.7	77.4	76.0	71.5	64.9	65.6	65.6	67.5	68.0	69.7	74.4
55°	75.5	75.1	74.4	70.1	62.9	64.0	63.3	64.0	65.2	66.8	71.9
57.5°	73.7	72.7	72.7	68.9	61.2	61.7	60.1	61.0	62.3	63.8	69.1
60°	71.7	70.8	71.3	67.3	58.6	58.2	57.5	59.3	59.8	61.4	66.8
62.5°	69.7	68.9	69.1	65.4	56.8	55.6	55.6	57.2	57.5	59.8	64.9
65°	68.0	67.1	66.8	63.6	54.7	53.3	54.0	54.7	55.1	57.5	62.3
67.5°	66.4	64.5	64.5	61.9	52.3	50.9	52.3	52.1	52.8	54.9	58.8
70°	64.3	61.7	61.9	60.8	49.9	48.3	49.5	49.3	49.7	51.1	55.1
72.5°	61.0	58.8	59.3	58.8	47.6	45.2	45.7	45.7	45.7	46.9	51.1
75°	56.8	55.1	56.6	57.7	44.8	41.5	41.9	41.9	41.3	41.9	47.1
77.5°	51.5	50.6	55.3	53.7	41.5	37.5	37.5	37.1	35.7	36.6	42.2
80°	46.0	45.2	51.1	45.0	37.8	32.7	32.1	30.9	29.5	30.2	35.9
82.5°	40.1	39.4	42.9	34.5	32.7	26.9	25.8	23.7	22.3	23.0	28.1
85°	32.9	32.9	33.1	26.0	24.8	20.6	19.3	16.4	14.8	15.2	20.2
87.5°	23.4	24.1	22.3	17.8	14.8	11.5	10.6	8.9	7.5	8.7	10.6
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: P298916

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3
2.5°	1238.9	1264.7	1294.0	1331.5	1363.7	1416.4	1467.1	1497.5
5°	926.3	969.3	1022.6	1091.4	1155.5	1251.5	1347.0	1408.2
7.5°	662.9	708.9	766.6	852.4	943.0	1065.6	1191.8	1264.9
10°	548.6	595.7	644.2	702.1	776.3	909.7	1058.8	1141.3
12.5°	453.8	504.2	556.5	617.5	686.1	805.3	977.2	1072.2
15°	347.3	403.6	465.2	542.4	628.4	766.2	957.0	1060.2
17.5°	238.1	300.9	376.6	471.8	577.1	753.4	993.2	1112.1
20°	163.9	209.7	290.6	402.2	528.9	751.8	1062.5	1211.5
22.5°	137.2	157.6	216.7	338.2	492.5	772.0	1170.2	1351.0
25°	126.8	139.1	173.0	282.6	466.0	818.5	1318.5	1531.5
27.5°	120.8	131.8	157.1	246.3	445.1	872.3	1462.6	1706.5
30°	123.1	134.4	152.6	227.7	416.7	917.3	1590.7	1843.0
32.5°	110.9	115.9	130.9	211.3	396.3	955.1	1702.8	1956.0
35°	94.6	103.2	116.8	203.6	396.8	980.5	1824.9	2100.4
37.5°	90.1	98.7	108.6	200.7	402.2	1007.5	1965.2	2269.8
40°	87.2	95.2	103.7	199.2	407.4	1032.1	2102.7	2437.2
42.5°	85.3	92.6	103.2	193.4	409.9	1054.1	2215.6	2579.6
45°	85.1	92.6	105.1	187.8	413.9	1077.8	2310.4	2684.9
47.5°	85.3	95.7	101.6	181.0	413.9	1117.4	2421.6	2778.9
50°	84.4	100.9	97.8	171.4	404.3	1192.5	2574.0	2904.8
52.5°	84.0	100.2	90.5	156.7	387.6	1311.6	2769.3	3078.4
55°	82.8	96.6	85.3	134.7	368.2	1441.6	2978.5	3283.6
57.5°	81.6	85.6	82.5	115.4	338.2	1533.0	3122.5	3443.7
60°	91.4	74.8	80.2	106.0	298.0	1558.0	3116.9	3507.5
62.5°	84.7	70.1	77.2	103.9	269.9	1487.7	2972.9	3473.1
65°	66.4	67.1	74.1	109.9	262.4	1301.3	2717.7	3313.8
67.5°	60.8	64.0	71.0	117.8	263.2	1041.9	2336.4	2966.9
70°	57.2	60.8	67.5	121.7	265.0	776.7	1847.2	2416.6
72.5°	53.3	56.3	63.6	122.4	252.7	564.2	1423.7	1776.9
75°	48.5	51.3	57.9	106.7	209.4	391.4	1089.1	1215.7
77.5°	43.2	45.2	50.9	82.3	155.5	250.5	817.5	888.1
80°	36.8	38.0	42.7	60.3	106.4	156.7	646.8	712.6
82.5°	29.5	30.0	33.1	45.2	69.1	100.6	433.2	494.4
85°	20.9	20.9	22.8	32.9	47.1	63.8	235.2	260.8
87.5°	9.8	10.0	10.0	18.0	24.6	32.4	54.2	33.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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