

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: P298976

Luminaire Tested: **GLNA-AF-01-LED-E1-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298976
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-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Left OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3478.6 lumens
Efficiency: N/A
Efficacy: 102.3 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 - G1

Input Watts (W): 34
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

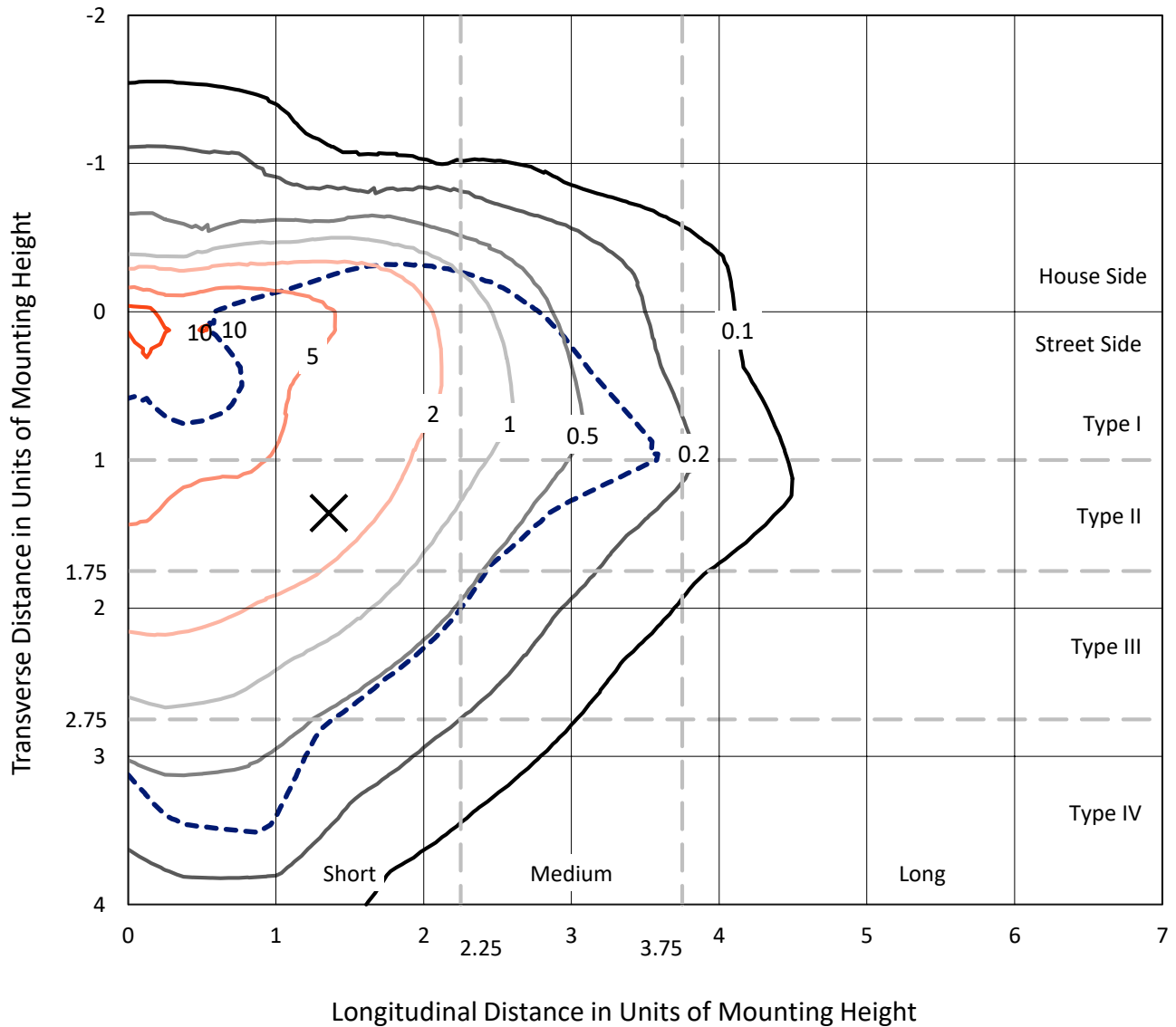


REPORT NUMBER: P298976

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

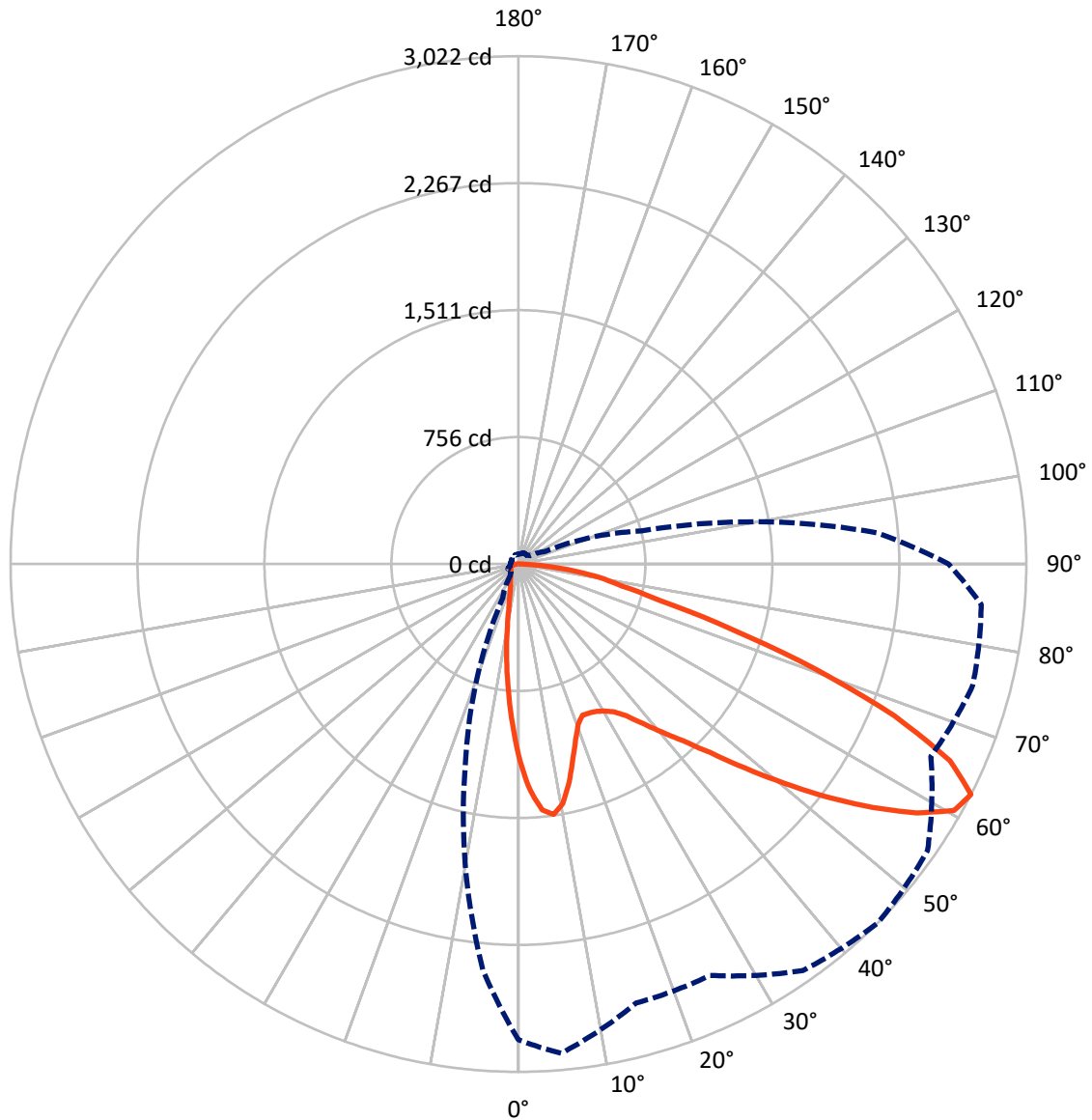


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P298976

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P298976

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	575.7	0.0	575.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2902.9	0.0	2902.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	3478.6	0.0	3478.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	2.5
10°-20°	156.9	4.5
20°-30°	228.7	6.6
30°-40°	352.3	10.1
40°-50°	518.5	14.9
50°-60°	760.5	21.9
60°-70°	850.1	24.4
70°-80°	416.2	12.0
80°-90°	109.9	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°	3478.6	100.0
0°-180°	3478.6	100.0



REPORT NUMBER: P298976

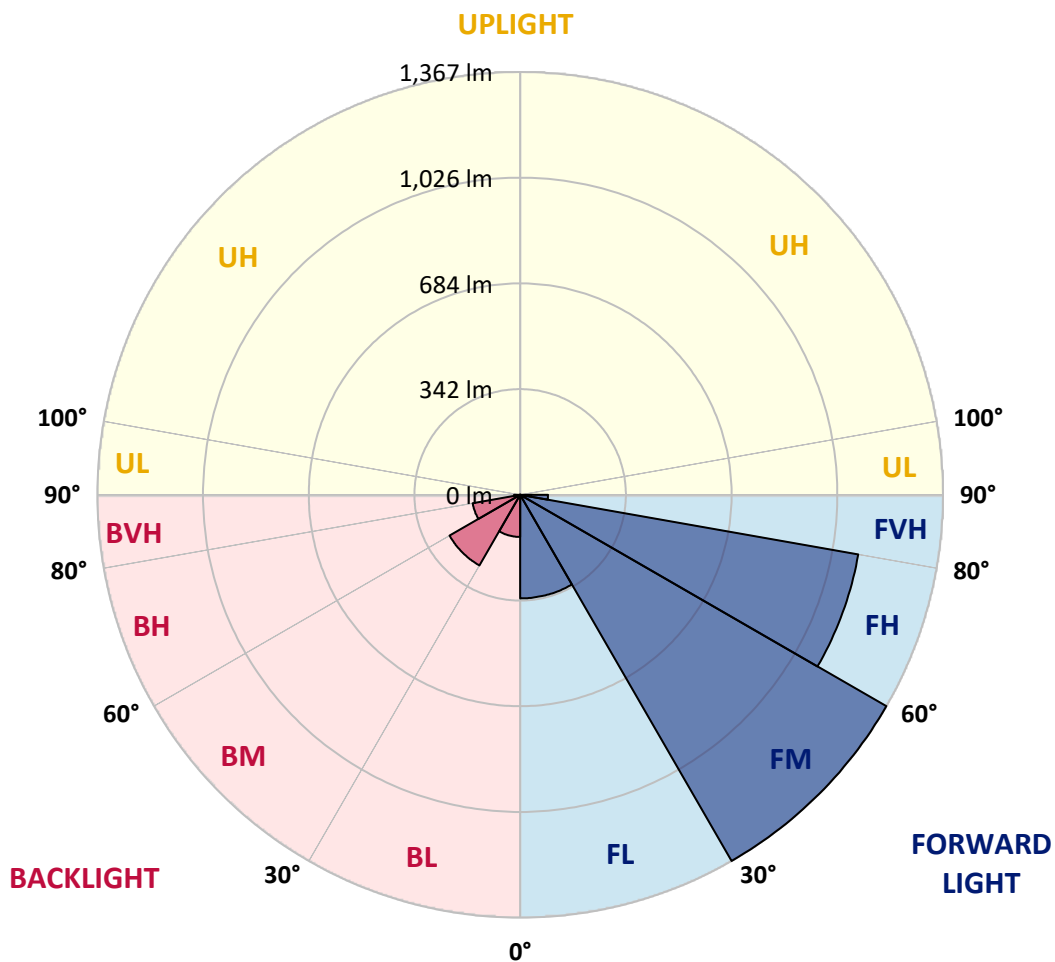
CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	335.0	9.6			
FM	(30°-60°)	1367.5	39.3			
FH	(60°-80°)	1110.2	31.9			G1/1800
FVH	(80°-90°)	90.2	2.6			G1/100
BL	(0°-30°)	136.2	3.9	B1/500		
BM	(30°-60°)	263.8	7.6	B1/1000		
BH	(60°-80°)	156.1	4.5	B1/500		G1/500
BVH	(80°-90°)	19.6	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-G1

Type IV Short





REPORT NUMBER: P298976

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1221.1	1240.7	1278.7	1307.1	1341.8	1349.9	1361.0	1350.0	1330.7	1305.1	1296.7
5°	1148.3	1190.0	1282.3	1363.6	1435.9	1469.5	1479.0	1451.2	1395.2	1321.5	1276.6
7.5°	1031.5	1090.7	1215.8	1335.5	1442.0	1504.9	1503.4	1438.9	1335.9	1216.0	1143.9
10°	930.6	998.4	1141.8	1275.7	1388.6	1449.7	1426.1	1343.8	1220.7	1082.7	1004.5
12.5°	874.3	940.6	1086.2	1220.5	1315.0	1336.1	1318.1	1237.4	1121.5	981.9	913.5
15°	864.5	937.4	1064.0	1173.4	1226.3	1208.0	1186.5	1150.4	1068.5	949.4	878.1
17.5°	906.8	987.1	1089.4	1140.5	1131.5	1099.5	1093.4	1097.4	1077.8	985.5	903.3
20°	987.9	1084.2	1150.0	1125.0	1059.4	1015.4	1016.9	1078.3	1136.6	1077.1	983.2
22.5°	1101.6	1211.6	1237.4	1133.2	1029.0	976.8	989.4	1088.9	1230.5	1211.0	1091.1
25°	1248.9	1349.1	1330.5	1163.0	1032.0	981.6	991.7	1125.2	1341.4	1344.9	1224.6
27.5°	1391.5	1484.5	1408.7	1202.6	1044.7	992.8	1006.3	1182.3	1447.4	1490.2	1377.2
30°	1502.8	1567.5	1439.7	1238.7	1069.5	1014.8	1031.5	1236.6	1495.6	1588.3	1494.6
32.5°	1595.0	1641.4	1489.0	1283.5	1115.2	1049.4	1078.7	1302.6	1565.0	1681.6	1609.5
35°	1712.7	1726.0	1550.4	1333.4	1185.8	1109.7	1146.0	1367.2	1631.2	1775.9	1722.7
37.5°	1850.9	1833.9	1608.3	1401.7	1277.0	1203.9	1234.0	1438.2	1685.6	1882.8	1838.4
40°	1987.4	1946.4	1681.1	1507.6	1410.1	1315.0	1350.6	1513.9	1736.5	1989.9	1951.4
42.5°	2103.5	2042.8	1752.7	1624.0	1534.0	1437.6	1480.1	1590.2	1785.1	2081.2	2049.5
45°	2189.3	2113.9	1821.0	1735.9	1704.7	1600.5	1620.6	1677.6	1837.6	2157.6	2130.2
47.5°	2266.0	2185.5	1898.2	1848.8	1854.1	1812.4	1780.0	1779.3	1899.7	2219.9	2206.5
50°	2368.6	2284.7	1981.2	1965.0	2078.2	2050.4	1979.1	1898.0	1978.0	2290.7	2289.1
52.5°	2510.2	2442.0	2082.6	2090.2	2287.5	2305.6	2217.2	2040.8	2100.7	2420.5	2411.4
55°	2677.5	2637.7	2220.7	2234.3	2544.0	2557.1	2469.2	2219.1	2281.3	2608.5	2583.1
57.5°	2808.1	2799.7	2372.1	2407.1	2735.6	2794.2	2713.5	2425.7	2484.7	2766.8	2702.9
60°	2860.1	2900.8	2533.3	2581.5	2912.9	2977.7	2907.0	2607.1	2665.1	2832.4	2694.7
62.5°	2832.0	2923.0	2705.0	2701.0	2952.5	3022.3	2972.5	2708.1	2798.8	2764.7	2558.4
65°	2702.2	2843.3	2804.7	2670.2	2817.1	2822.8	2806.7	2663.0	2830.3	2550.7	2294.8
67.5°	2419.3	2622.4	2673.4	2406.4	2451.8	2414.6	2387.6	2415.9	2665.8	2230.0	1928.7
70°	1970.6	2276.2	2300.6	1924.7	1904.0	1878.9	1825.2	1980.7	2341.3	1827.7	1530.4
72.5°	1448.9	1770.2	1845.3	1411.6	1316.0	1321.1	1278.7	1492.6	1903.6	1357.7	1142.6
75°	991.3	1281.8	1443.8	985.0	870.3	872.4	867.0	1057.7	1516.2	944.4	855.0
77.5°	724.2	915.8	1088.9	662.2	642.9	631.0	628.2	740.0	1162.4	685.8	663.9
80°	581.1	676.6	731.4	458.9	493.5	492.6	476.7	508.8	759.1	501.6	496.5
82.5°	403.1	520.0	592.6	359.7	333.1	327.5	331.4	379.0	536.6	342.8	326.0
85°	212.7	345.3	586.9	318.8	197.7	157.7	196.2	310.3	464.9	181.7	159.0
87.5°	27.2	99.8	388.5	127.2	78.0	42.0	93.2	174.7	298.5	37.1	32.3
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: P298976

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1275.1	1249.7	1216.4	1185.5	1153.6	1121.8	1080.4	1054.4	1036.4	1033.0	1025.4
5°	1244.1	1159.6	1095.7	1040.5	990.4	919.5	880.4	847.8	830.5	828.8	824.6
7.5°	1101.2	984.6	898.4	820.2	749.2	692.0	628.9	599.5	587.4	590.3	593.1
10°	952.6	822.3	723.2	643.2	580.7	532.6	481.9	447.7	423.9	419.1	418.2
12.5°	844.1	701.0	604.9	548.4	500.1	454.7	401.0	360.6	329.9	319.3	312.3
15°	798.1	641.7	541.0	480.2	426.8	369.2	319.3	277.0	248.8	239.6	234.5
17.5°	807.9	625.3	497.0	419.1	350.9	290.8	227.9	191.8	174.7	170.4	170.4
20°	859.2	622.3	460.6	363.0	277.8	208.2	156.6	135.9	130.4	129.9	131.4
22.5°	931.1	633.0	433.5	314.2	215.9	152.0	122.0	114.3	111.9	112.5	114.2
25°	1038.2	669.1	413.9	270.8	169.4	124.5	108.8	104.2	103.0	104.6	106.7
27.5°	1165.1	705.2	401.6	238.1	143.0	113.8	103.4	98.7	99.4	101.4	103.2
30°	1276.6	734.9	382.3	214.8	134.8	114.3	103.4	97.0	96.2	96.6	97.1
32.5°	1376.7	755.0	359.7	192.6	116.3	101.6	96.6	95.7	91.4	89.8	90.1
35°	1462.9	755.0	346.1	179.6	104.2	90.1	82.1	77.3	75.1	75.3	77.5
37.5°	1546.1	739.8	339.4	172.3	97.7	85.7	78.6	74.4	71.5	71.0	71.3
40°	1619.4	717.9	331.8	169.2	92.7	83.0	76.4	72.8	69.8	68.8	69.0
42.5°	1678.4	700.0	323.4	165.2	89.6	81.1	74.7	71.7	68.3	67.3	67.1
45°	1742.0	694.1	312.3	157.2	91.2	81.3	74.4	71.1	67.7	66.5	66.2
47.5°	1826.0	712.7	300.8	147.6	94.5	82.3	74.9	71.1	67.5	66.5	66.2
50°	1931.7	756.3	286.2	133.7	91.2	84.9	74.7	70.5	67.5	66.5	65.8
52.5°	2067.5	815.2	267.2	117.6	89.3	91.4	74.4	69.4	66.5	65.2	63.9
55°	2232.5	863.4	244.3	104.4	84.9	89.6	73.8	68.1	65.1	63.1	62.0
57.5°	2353.4	880.7	215.2	95.8	78.8	86.8	73.0	66.4	63.1	61.6	60.1
60°	2329.5	847.1	190.5	90.4	75.1	78.4	72.4	64.8	61.4	60.3	58.8
62.5°	2138.1	759.1	174.6	88.0	72.8	71.5	73.0	63.3	59.9	58.7	58.3
65°	1851.1	629.3	168.3	87.4	71.0	67.5	67.9	61.6	58.1	57.2	56.8
67.5°	1526.9	507.9	162.8	89.3	68.5	64.6	62.8	59.3	56.4	55.4	54.7
70°	1204.1	422.4	160.2	88.1	65.4	61.8	59.7	56.8	54.3	53.3	52.8
72.5°	969.6	356.8	158.9	87.0	61.4	57.9	56.0	53.5	50.8	50.5	49.9
75°	820.6	280.5	145.6	83.4	56.8	53.3	52.0	49.7	47.1	47.1	46.7
77.5°	633.0	202.9	121.0	73.8	52.0	48.2	47.1	45.3	42.3	42.8	42.6
80°	467.6	132.3	94.7	61.2	46.1	42.5	41.8	40.2	36.9	37.7	37.7
82.5°	320.3	86.8	68.1	50.1	39.4	35.9	35.9	34.2	30.6	31.0	32.2
85°	160.8	59.7	50.8	38.8	30.6	28.9	28.9	27.6	23.9	24.1	25.6
87.5°	49.0	35.9	33.6	27.7	22.0	21.6	20.6	19.7	17.4	17.2	18.2
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: P298976

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-600

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1013.6	1002.7	989.6	960.5	950.8	950.1	959.0	949.8	967.4	959.9	968.1
5°	817.4	806.8	792.0	755.0	732.4	717.0	709.8	688.4	703.9	692.6	702.0
7.5°	601.2	603.7	593.9	572.2	523.0	498.3	483.8	470.8	482.1	480.9	498.9
10°	422.6	429.3	422.4	400.5	360.6	347.1	349.7	354.9	369.7	377.2	405.0
12.5°	304.2	303.9	299.5	279.8	253.6	255.1	266.0	274.9	288.5	296.6	324.8
15°	227.1	223.7	221.8	205.7	190.8	194.1	199.5	200.4	209.0	213.8	236.8
17.5°	171.7	173.4	175.5	164.1	152.8	150.7	146.5	141.3	143.8	144.8	156.2
20°	136.3	143.2	148.4	140.4	128.9	122.7	117.4	114.0	114.0	113.8	117.0
22.5°	119.1	124.1	129.7	124.1	113.8	108.4	105.3	102.7	102.3	102.3	105.3
25°	109.8	113.4	118.8	115.0	107.3	103.2	100.4	97.0	95.7	95.2	97.3
27.5°	105.2	106.7	109.4	105.9	99.4	97.5	96.8	93.7	91.9	91.0	93.2
30°	97.3	97.0	97.1	93.7	88.5	88.3	89.6	90.3	89.6	89.5	92.7
32.5°	90.1	89.3	89.1	86.0	81.3	80.1	81.3	82.4	83.7	85.7	89.5
35°	80.9	82.8	83.9	81.3	75.5	72.1	70.8	68.7	67.5	67.5	71.9
37.5°	73.6	78.0	79.8	77.3	71.0	66.2	63.9	63.5	63.7	64.4	68.7
40°	71.1	74.4	75.9	73.4	67.1	62.8	61.4	61.0	61.4	62.6	66.7
42.5°	69.6	71.9	71.7	68.7	63.5	60.5	59.7	59.3	59.7	60.8	65.4
45°	68.3	69.8	68.3	64.6	59.9	58.3	58.5	58.3	58.7	59.9	64.2
47.5°	67.1	67.7	65.8	62.1	57.2	56.8	57.5	58.1	58.5	59.5	64.1
50°	65.4	65.4	63.7	59.9	54.9	55.1	56.0	57.4	57.5	58.7	62.4
52.5°	63.3	63.1	62.0	58.3	53.0	53.5	53.5	55.1	55.4	56.8	60.6
55°	61.6	61.2	60.6	57.2	51.3	52.2	51.6	52.2	53.1	54.5	58.7
57.5°	60.1	59.3	59.3	56.2	49.9	50.3	49.0	49.7	50.8	52.0	56.4
60°	58.5	57.7	58.1	54.9	47.8	47.4	46.9	48.4	48.8	50.1	54.5
62.5°	56.8	56.2	56.4	53.3	46.3	45.3	45.3	46.7	46.9	48.8	53.0
65°	55.4	54.7	54.5	51.8	44.6	43.5	44.0	44.6	44.9	46.9	50.8
67.5°	54.1	52.6	52.6	50.5	42.6	41.5	42.6	42.5	43.1	44.8	48.0
70°	52.4	50.3	50.5	49.5	40.7	39.4	40.3	40.2	40.5	41.7	44.9
72.5°	49.7	48.0	48.4	48.0	38.8	36.9	37.2	37.2	37.2	38.2	41.7
75°	46.3	44.9	46.1	47.1	36.5	33.8	34.2	34.2	33.6	34.2	38.4
77.5°	42.0	41.3	45.1	43.8	33.8	30.6	30.6	30.2	29.1	29.9	34.4
80°	37.5	36.9	41.7	36.7	30.8	26.6	26.2	25.2	24.1	24.6	29.3
82.5°	32.7	32.2	35.0	28.1	26.6	22.0	21.0	19.3	18.2	18.7	22.9
85°	26.8	26.8	27.0	21.2	20.2	16.8	15.7	13.4	12.0	12.4	16.5
87.5°	19.1	19.7	18.2	14.5	12.0	9.4	8.6	7.3	6.1	7.1	8.6
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: P298976

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLL-7030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1010.2	1031.3	1055.2	1085.7	1112.0	1154.9	1196.3	1221.1
5°	755.3	790.4	833.9	890.0	942.2	1020.5	1098.4	1148.3
7.5°	540.6	578.1	625.1	695.1	768.9	868.9	971.8	1031.5
10°	447.3	485.7	525.3	572.5	633.0	741.8	863.4	930.6
12.5°	370.0	411.1	453.8	503.5	559.5	656.6	796.8	874.3
15°	283.2	329.1	379.3	442.3	512.4	624.7	780.4	864.5
17.5°	194.1	245.4	307.1	384.7	470.6	614.4	809.8	906.8
20°	133.7	171.0	236.9	327.9	431.2	613.1	866.4	987.9
22.5°	111.9	128.5	176.7	275.7	401.6	629.5	954.2	1101.6
25°	103.4	113.4	141.1	230.4	380.0	667.4	1075.1	1248.9
27.5°	98.5	107.5	128.1	200.8	363.0	711.3	1192.7	1391.5
30°	100.4	109.6	124.5	185.7	339.8	748.0	1297.1	1502.8
32.5°	90.4	94.5	106.7	172.3	323.2	778.8	1388.5	1595.0
35°	77.1	84.1	95.2	166.0	323.5	799.5	1488.1	1712.7
37.5°	73.4	80.5	88.5	163.7	327.9	821.5	1602.4	1850.9
40°	71.1	77.7	84.5	162.4	332.2	841.6	1714.5	1987.4
42.5°	69.6	75.5	84.1	157.7	334.3	859.6	1806.7	2103.5
45°	69.4	75.5	85.7	153.1	337.5	878.9	1884.0	2189.3
47.5°	69.6	78.0	82.8	147.6	337.5	911.2	1974.6	2266.0
50°	68.8	82.3	79.8	139.8	329.7	972.4	2098.9	2368.6
52.5°	68.5	81.7	73.8	127.8	316.1	1069.5	2258.2	2510.2
55°	67.5	78.8	69.6	109.8	300.3	1175.5	2428.7	2677.5
57.5°	66.5	69.8	67.3	94.1	275.7	1250.0	2546.1	2808.1
60°	74.6	61.0	65.4	86.4	243.0	1270.5	2541.6	2860.1
62.5°	69.0	57.2	62.9	84.7	220.1	1213.1	2424.1	2832.0
65°	54.1	54.7	60.5	89.6	214.0	1061.1	2216.1	2702.2
67.5°	49.5	52.2	57.9	96.0	214.6	849.6	1905.2	2419.3
70°	46.7	49.5	55.1	99.3	216.1	633.4	1506.2	1970.6
72.5°	43.5	45.9	51.8	99.8	206.1	460.0	1161.0	1448.9
75°	39.5	41.8	47.2	87.0	170.8	319.1	888.1	991.3
77.5°	35.2	36.9	41.5	67.1	126.8	204.2	666.6	724.2
80°	30.0	31.0	34.8	49.2	86.8	127.8	527.4	581.1
82.5°	24.1	24.5	27.0	36.9	56.4	82.1	353.2	403.1
85°	17.0	17.0	18.6	26.8	38.4	52.0	191.8	212.7
87.5°	8.0	8.2	8.2	14.7	20.1	26.4	44.2	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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