

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: P299475

Luminaire Tested: **GLNA-AF-04-LED-E1-SLR-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-04-LED-E1-SLR-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11306.8 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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



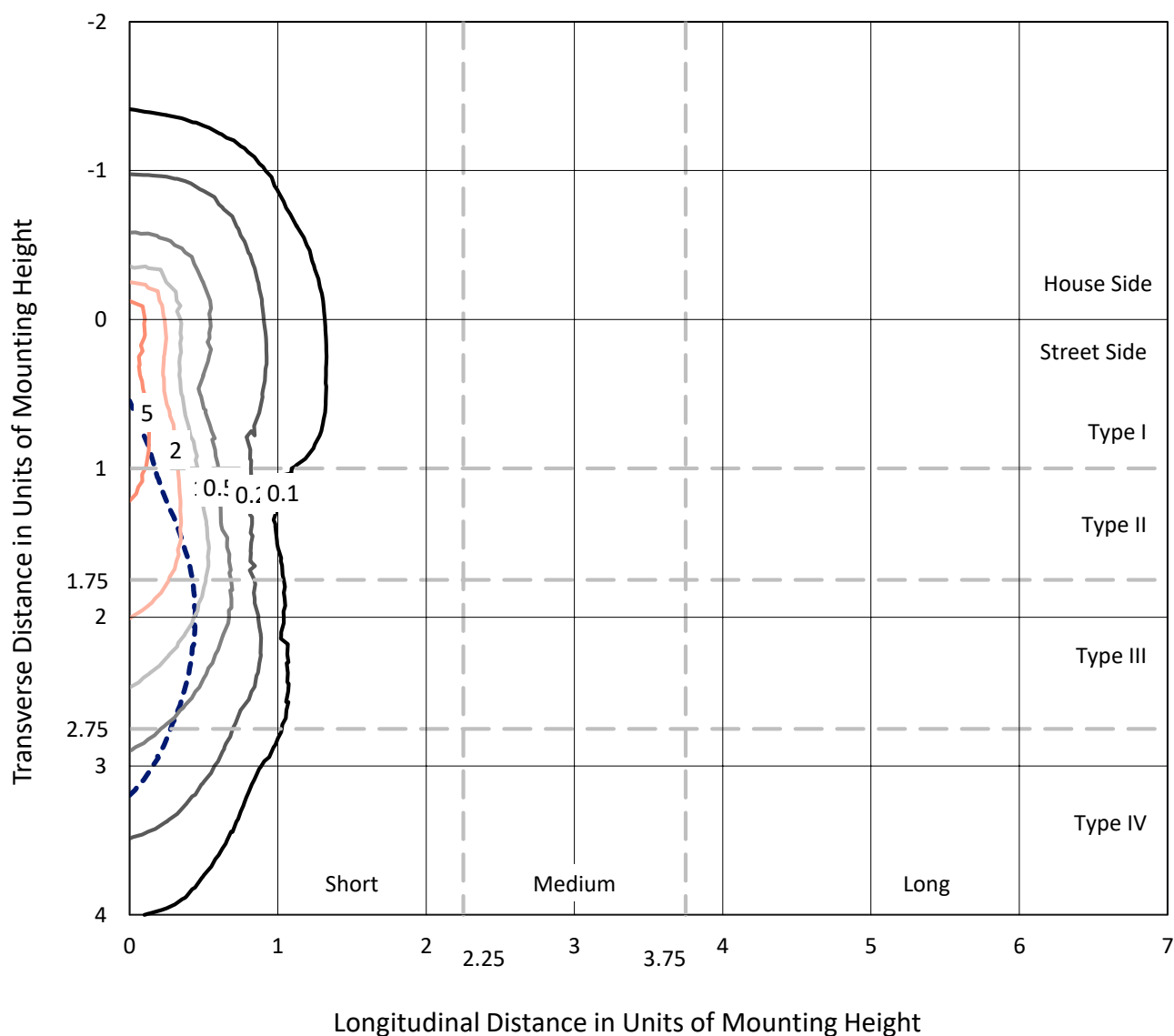
REPORT NUMBER: P299475

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-8030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

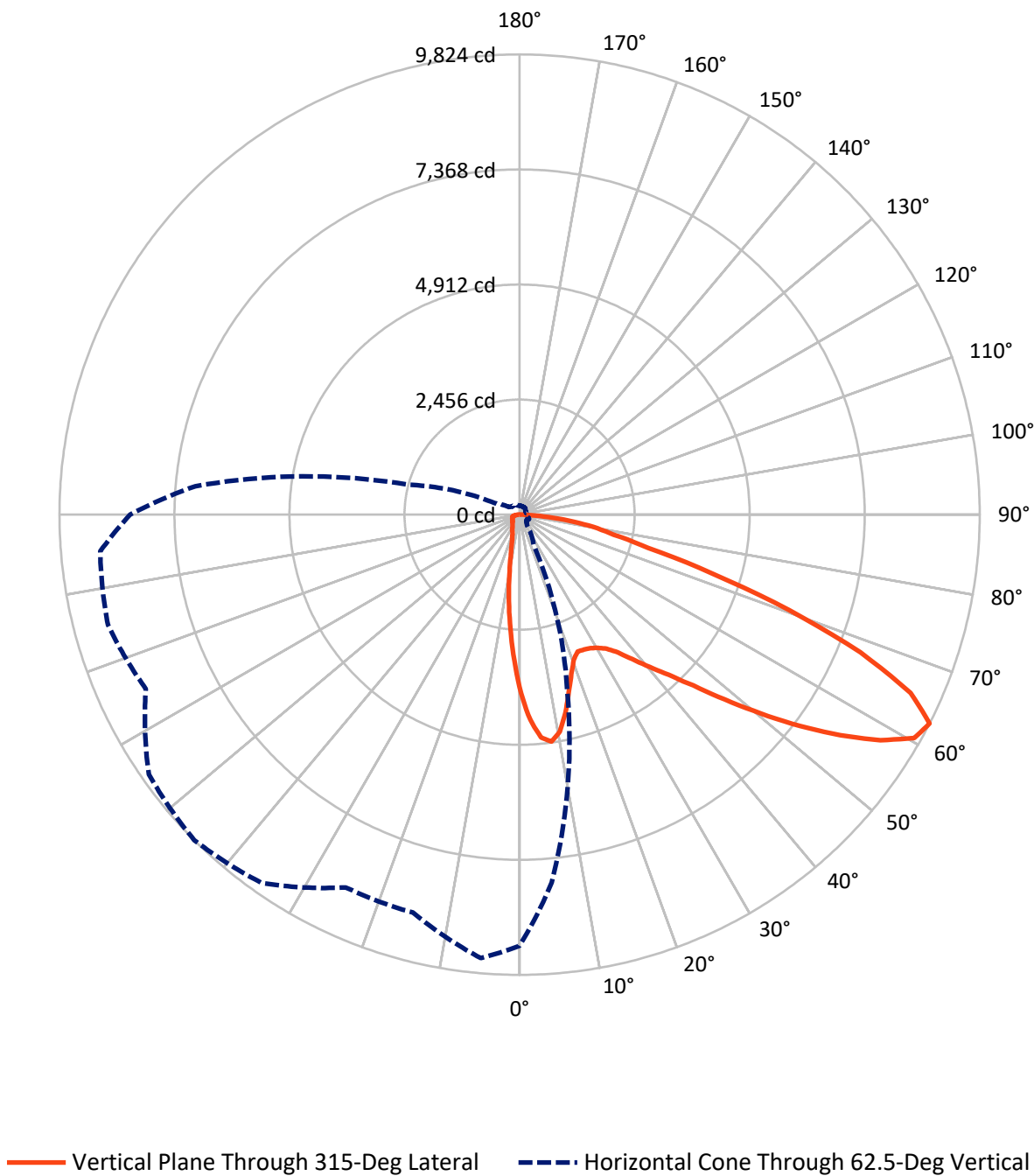


Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P299475

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-8030-600

Luminous Intensity Polar Plot



REPORT NUMBER: P299475

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-8030-600

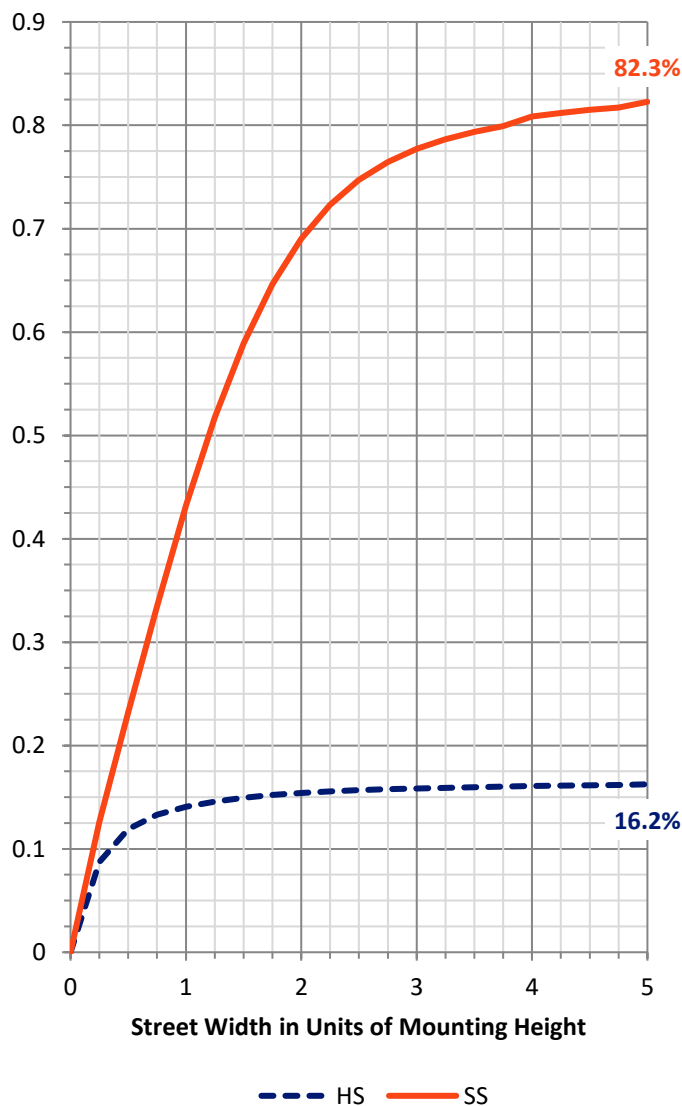
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1871.1	0.0	1871.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9435.7	0.0	9435.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	11306.8	0.0	11306.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.1	2.5
10°-20°	509.9	4.5
20°-30°	743.5	6.6
30°-40°	1145.1	10.1
40°-50°	1685.2	14.9
50°-60°	2471.9	21.9
60°-70°	2763.2	24.4
70°-80°	1352.8	12.0
80°-90°	357.2	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°	11306.8	100.0
0°-180°	11306.8	100.0

Coefficient of Utilization



REPORT NUMBER: P299475

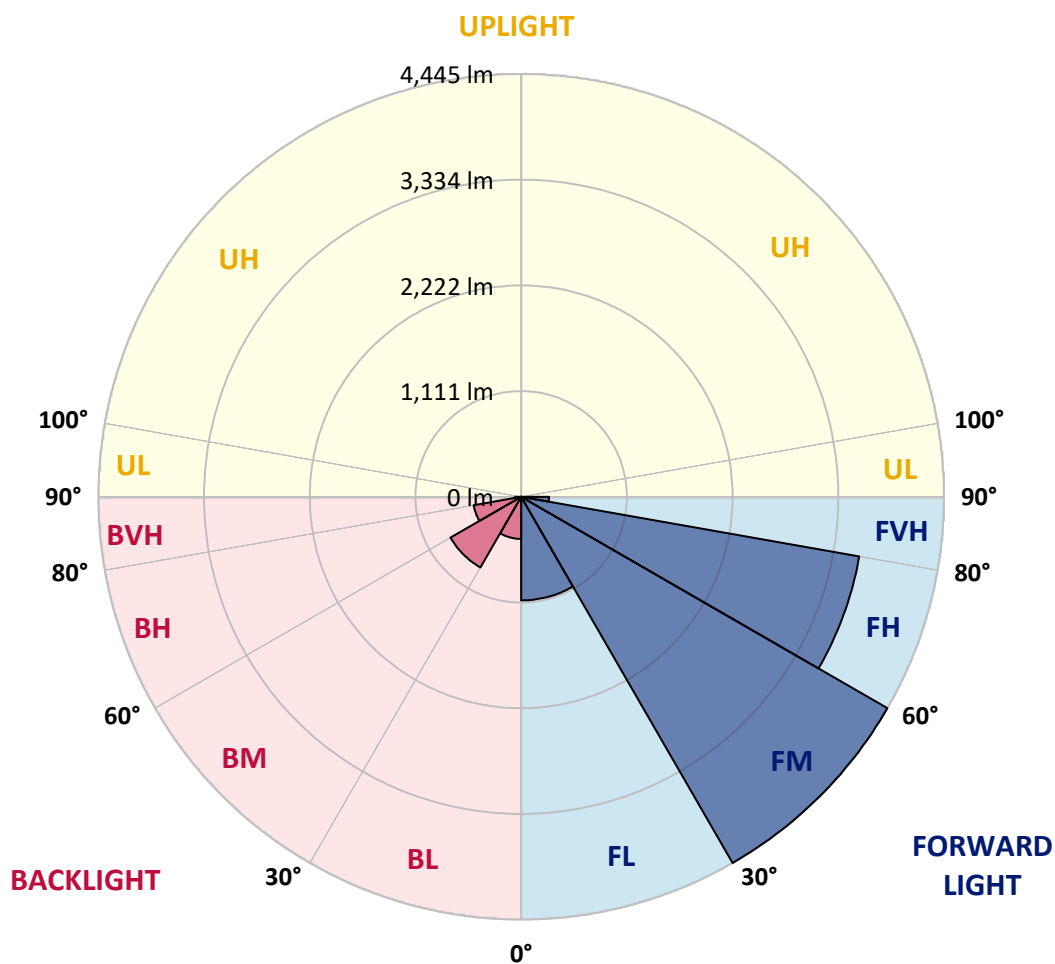
CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1088.8	9.6			
FM	(30°-60°)	4444.8	39.3			
FH	(60°-80°)	3608.7	31.9			G2/5000
FVH	(80°-90°)	293.3	2.6			G3/500
BL	(0°-30°)	442.7	3.9	B1/500		
BM	(30°-60°)	857.3	7.6	B1/1000		
BH	(60°-80°)	507.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	63.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



REPORT NUMBER: P299475

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1
2.5°	3969.1	3888.4	3754.1	3614.3	3529.2	3429.7	3352.0	3283.7	3146.9	3120.1	3144.4
5°	3732.4	3570.2	3317.2	3062.4	2892.7	2710.5	2568.8	2455.2	2281.7	2251.2	2287.9
7.5°	3352.7	3158.7	2824.4	2499.2	2259.3	2031.8	1879.0	1757.1	1621.6	1563.3	1566.8
10°	3025.1	2806.3	2411.0	2057.4	1860.9	1707.4	1578.7	1453.8	1316.4	1226.3	1201.4
12.5°	2841.7	2590.1	2134.4	1818.6	1636.5	1475.0	1336.3	1202.7	1056.0	964.0	938.0
15°	2810.0	2536.5	2030.7	1665.8	1437.6	1233.2	1069.7	920.5	769.4	694.9	679.3
17.5°	2947.4	2632.2	1997.0	1529.6	1250.5	998.2	797.4	630.9	507.9	470.6	467.4
20°	3210.8	2816.3	1992.7	1401.6	1066.0	770.2	555.7	434.5	380.5	369.7	370.5
22.5°	3580.8	3101.5	2046.1	1305.3	896.2	574.3	417.7	363.5	342.5	332.5	332.5
25°	4059.3	3494.4	2169.2	1235.1	748.9	458.7	368.6	336.3	316.3	309.5	310.8
27.5°	4523.1	3876.6	2312.2	1179.8	652.6	416.4	349.2	320.1	302.8	295.8	299.0
30°	4884.8	4216.0	2431.5	1104.5	603.4	404.6	356.2	326.3	301.4	290.9	291.5
32.5°	5184.3	4513.1	2531.6	1050.3	560.0	346.8	307.1	293.9	290.9	278.5	272.3
35°	5567.2	4837.0	2598.7	1051.7	539.5	309.5	273.4	250.4	233.7	219.4	219.4
37.5°	6016.0	5208.6	2670.2	1066.0	532.1	287.7	261.7	238.6	223.2	209.4	207.0
40°	6459.7	5572.9	2735.5	1079.7	527.6	274.7	252.3	231.3	217.0	203.2	199.5
42.5°	6837.1	5872.4	2793.9	1086.5	512.7	273.4	245.6	226.2	212.6	197.6	194.0
45°	7116.2	6123.4	2856.7	1097.0	497.9	278.5	245.6	225.6	208.9	194.6	190.8
47.5°	7365.3	6418.1	2961.7	1097.0	479.8	269.1	253.6	226.2	208.3	193.2	190.2
50°	7699.1	6822.1	3160.6	1071.6	454.4	259.1	267.2	223.7	202.7	190.8	187.0
52.5°	8159.0	7339.9	3476.3	1027.4	415.3	239.9	265.3	222.6	197.0	184.6	180.3
55°	8703.0	7894.3	3820.7	975.8	356.8	226.2	256.1	219.4	190.8	177.1	172.7
57.5°	9127.5	8275.9	4063.0	896.2	305.8	218.8	226.9	216.4	183.3	169.0	165.4
60°	9296.5	8261.0	4129.6	789.9	280.9	212.6	198.3	242.4	177.1	162.8	158.4
62.5°	9205.2	7879.4	3943.2	715.4	275.3	204.5	185.9	224.3	172.2	158.4	152.2
65°	8783.1	7203.1	3449.1	695.5	291.5	196.4	177.8	175.9	165.4	152.2	146.0
67.5°	7863.8	6192.5	2761.5	697.3	312.0	188.4	169.7	161.1	156.0	145.5	139.8
70°	6405.1	4896.0	2058.5	702.4	322.5	178.9	161.1	151.7	146.0	135.5	131.7
72.5°	4709.6	3773.5	1495.5	670.1	324.4	168.4	149.2	141.1	135.5	124.4	121.2
75°	3222.1	2886.4	1037.4	555.1	282.8	153.5	136.0	128.7	124.9	111.2	109.3
77.5°	2353.8	2166.7	663.8	412.1	218.1	134.9	120.0	114.4	112.0	96.9	94.5
80°	1889.0	1714.2	415.3	282.2	159.8	113.1	100.7	97.7	95.0	80.2	78.3
82.5°	1310.2	1148.0	266.6	183.3	120.0	87.7	79.6	78.3	74.5	61.0	59.1
85°	691.1	623.4	169.0	124.9	86.9	60.2	55.3	55.3	53.4	40.5	39.1
87.5°	88.2	143.6	85.8	65.3	47.8	26.7	26.7	26.2	28.0	23.0	19.9
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: P299475

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1
2.5°	3087.2	3117.1	3088.5	3090.4	3122.0	3216.5	3259.4	3294.8	3332.8	3357.6	3368.7
5°	2237.7	2307.3	2330.8	2380.5	2453.9	2574.5	2622.3	2657.1	2680.2	2693.8	2699.4
7.5°	1530.3	1572.5	1619.7	1699.9	1859.6	1930.6	1962.2	1954.1	1928.1	1918.7	1909.5
10°	1153.6	1136.9	1128.0	1172.3	1301.5	1373.0	1395.4	1373.6	1359.3	1362.5	1377.9
12.5°	893.8	864.6	829.2	824.2	909.4	973.4	987.7	988.8	1015.0	1037.9	1072.2
15°	651.4	648.2	630.9	620.4	668.7	721.0	727.3	738.4	762.1	778.8	808.5
17.5°	459.3	476.1	489.8	496.6	533.3	570.5	563.7	558.1	553.8	553.8	568.1
20°	370.5	381.6	399.1	418.9	456.3	482.3	465.5	443.1	426.9	422.1	423.9
22.5°	333.8	342.5	352.4	369.7	403.4	421.5	403.4	387.2	371.1	365.4	363.5
25°	315.2	326.3	335.7	348.7	373.5	385.9	368.6	356.8	346.8	340.0	334.9
27.5°	304.6	314.4	317.1	323.3	344.3	355.4	346.8	341.9	335.7	329.5	323.3
30°	293.3	291.5	287.1	287.7	304.6	315.7	315.2	316.3	315.7	313.9	312.7
32.5°	267.9	264.2	260.4	264.2	279.6	289.6	290.3	292.8	292.8	292.2	297.1
35°	223.2	229.9	234.3	245.6	264.2	272.8	269.1	262.9	251.8	244.8	244.2
37.5°	206.4	207.5	215.1	230.5	251.2	259.1	253.6	239.3	231.8	230.5	232.4
40°	198.3	199.5	203.8	218.1	238.6	246.7	241.8	231.3	224.3	223.7	226.9
42.5°	192.7	194.0	196.4	206.4	223.2	233.1	233.7	226.2	218.1	218.8	221.8
45°	189.5	190.2	189.5	194.6	210.0	221.8	226.9	221.8	215.1	216.4	220.0
47.5°	188.9	187.0	184.6	185.9	202.1	213.8	220.0	218.1	215.1	216.4	219.4
50°	186.5	182.1	178.9	178.4	194.6	207.0	212.6	212.6	213.8	216.4	219.4
52.5°	178.9	174.1	174.1	172.2	189.5	201.3	205.1	205.7	207.5	211.9	216.4
55°	169.7	167.8	169.7	166.5	185.9	197.0	198.9	200.2	201.3	205.1	211.3
57.5°	161.6	159.2	163.5	162.2	182.7	192.7	192.7	195.1	195.1	200.2	205.1
60°	157.3	152.2	154.1	155.4	178.4	188.9	187.8	190.2	191.4	195.9	199.5
62.5°	151.7	147.3	147.3	150.3	173.5	183.3	182.7	184.6	189.5	190.8	194.6
65°	144.9	143.0	141.1	144.9	168.4	177.1	177.8	180.3	184.6	185.9	188.9
67.5°	137.9	138.7	134.9	138.7	164.1	170.9	170.9	175.9	177.8	180.3	183.3
70°	130.6	131.2	128.0	132.5	161.1	164.1	163.5	170.3	171.6	173.5	176.5
72.5°	121.2	121.2	120.0	126.3	156.0	157.3	156.0	161.6	162.2	164.1	165.4
75°	111.2	111.2	110.1	118.7	153.0	149.8	146.0	150.3	151.7	153.0	153.0
77.5°	98.2	99.5	99.5	110.1	142.3	146.8	134.2	136.8	138.7	139.2	137.4
80°	82.0	85.2	86.4	100.1	119.3	135.5	120.0	121.7	122.5	122.5	120.0
82.5°	62.8	68.3	71.5	86.4	91.4	113.7	104.4	106.3	104.4	100.7	99.5
85°	43.5	51.0	54.8	65.9	69.1	87.7	86.9	86.9	83.4	78.3	77.7
87.5°	23.7	28.0	30.5	39.1	47.2	59.1	64.0	62.1	59.1	55.9	56.6
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: P299475

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1
2.5°	3427.2	3511.7	3646.6	3749.7	3853.6	3953.7	4061.9	4144.5	4214.7	4242.2	4325.3
5°	2756.0	2861.6	2989.0	3218.9	3381.9	3561.4	3769.1	4043.8	4149.4	4295.6	4534.8
7.5°	1948.6	2044.2	2249.3	2435.2	2665.9	2920.1	3200.3	3579.5	3718.1	3952.4	4342.1
10°	1455.1	1566.3	1730.9	1887.7	2090.9	2350.7	2672.7	3096.6	3265.0	3519.2	3968.0
12.5°	1172.3	1303.4	1478.0	1625.4	1782.7	1965.9	2278.7	2743.4	2969.2	3191.6	3645.3
15°	900.6	1037.9	1200.3	1387.3	1560.6	1758.4	2086.0	2594.4	2854.1	3086.1	3473.1
17.5°	623.4	740.8	945.3	1140.5	1362.5	1615.4	2032.6	2626.0	2936.1	3203.5	3503.1
20°	442.0	509.0	676.8	903.2	1179.8	1497.2	2022.6	2792.6	3196.0	3501.2	3694.4
22.5°	371.6	396.5	494.1	701.7	1021.2	1409.0	2057.4	3026.3	3546.5	3936.2	3999.6
25°	338.7	353.7	404.6	550.8	880.0	1345.0	2174.8	3374.4	3980.4	4371.4	4360.1
27.5°	320.6	336.3	369.7	465.0	773.9	1305.3	2292.2	3787.2	4476.4	4843.7	4704.5
30°	315.2	336.3	371.6	438.2	698.1	1242.5	2388.6	4149.4	4858.0	5162.7	4861.2
32.5°	310.8	313.9	330.0	377.8	625.8	1169.1	2453.9	4474.6	5231.5	5466.0	5086.8
35°	251.2	266.6	292.8	338.7	583.7	1125.0	2453.9	4754.9	5599.6	5772.3	5301.9
37.5°	241.8	255.5	278.5	317.6	560.0	1103.2	2404.7	5025.3	5975.5	6119.9	5479.0
40°	236.9	248.0	269.8	301.4	550.0	1078.4	2333.2	5263.9	6342.8	6467.8	5644.4
42.5°	233.1	243.1	263.6	291.5	537.0	1051.1	2275.5	5455.3	6661.8	6764.9	5802.2
45°	231.3	241.8	264.2	296.5	510.9	1015.0	2256.3	5662.2	6924.1	7012.9	5973.1
47.5°	231.3	243.7	267.2	307.1	479.8	977.7	2316.5	5935.3	7172.1	7215.5	6174.4
50°	229.4	243.1	276.0	296.5	434.5	930.5	2458.2	6278.9	7440.6	7445.5	6429.4
52.5°	225.6	241.8	297.1	290.3	382.2	868.4	2649.7	6720.3	7837.8	7867.5	6828.3
55°	221.3	239.9	291.5	276.0	339.4	794.4	2806.3	7256.6	8395.9	8478.5	7415.2
57.5°	215.6	237.5	282.2	256.1	311.4	699.2	2862.9	7649.5	8785.6	8993.1	8076.4
60°	210.7	235.6	254.8	244.2	293.9	619.1	2753.4	7571.7	8758.9	9206.3	8662.5
62.5°	205.7	237.5	232.4	236.9	285.8	567.5	2467.6	6949.5	8315.7	8986.4	9097.0
65°	200.2	220.7	219.4	230.5	284.1	547.0	2045.5	6016.6	7459.2	8290.9	9199.6
67.5°	192.7	203.8	210.0	222.6	290.3	528.9	1650.8	4963.0	6268.9	7248.5	8665.0
70°	184.6	194.0	200.8	212.6	286.6	520.8	1373.0	3913.8	4974.3	5940.7	7610.3
72.5°	174.1	182.1	188.4	199.5	282.8	516.5	1159.8	3151.9	3713.8	4413.0	6187.6
75°	161.6	169.0	173.5	184.6	271.0	473.0	911.8	2667.0	2779.0	3069.9	4928.2
77.5°	147.3	153.0	156.6	169.0	239.9	393.5	659.5	2057.4	2158.1	2228.8	3778.3
80°	130.6	136.0	137.9	149.8	198.9	307.6	430.1	1519.6	1614.1	1630.3	2467.6
82.5°	111.2	116.9	116.9	128.0	162.8	221.3	282.2	1041.1	1059.7	1114.5	1744.1
85°	89.6	93.9	93.9	99.5	126.3	165.4	194.0	522.7	517.1	590.5	1511.0
87.5°	64.0	67.2	70.2	71.5	90.1	109.3	116.9	159.2	105.0	120.6	970.2
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: P299475

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1	3820.1
2.5°	4388.2	4423.6	4387.4	4361.5	4248.9	4156.4	4032.6	3969.1
5°	4716.9	4807.0	4776.6	4667.2	4432.2	4168.0	3867.9	3732.4
7.5°	4677.2	4886.6	4891.5	4687.2	4341.0	3951.8	3545.4	3352.7
10°	4367.7	4635.4	4712.0	4513.7	4146.4	3711.4	3245.1	3025.1
12.5°	4022.0	4284.3	4342.8	4274.3	3967.5	3530.3	3057.5	2841.7
15°	3739.2	3856.8	3926.2	3986.1	3813.9	3458.3	3046.8	2810.0
17.5°	3567.0	3554.1	3574.0	3677.7	3706.8	3540.9	3208.4	2947.4
20°	3504.9	3305.5	3300.4	3443.4	3656.6	3738.1	3524.1	3210.8
22.5°	3539.2	3215.9	3174.9	3344.6	3683.3	4022.0	3938.1	3580.8
25°	3657.2	3223.4	3190.3	3354.6	3780.2	4324.8	4385.0	4059.3
27.5°	3843.1	3270.7	3227.0	3395.6	3908.9	4579.0	4825.1	4523.1
30°	4019.6	3352.7	3298.5	3476.3	4026.3	4679.7	5094.9	4884.8
32.5°	4234.1	3506.3	3411.0	3624.8	4171.8	4840.0	5335.4	5184.3
35°	4444.1	3724.9	3606.9	3854.2	4334.0	5039.6	5610.1	5567.2
37.5°	4674.8	4010.9	3913.3	4150.7	4556.0	5227.8	5960.7	6016.0
40°	4920.9	4390.1	4274.3	4583.3	4900.4	5464.1	6326.8	6459.7
42.5°	5168.9	4810.8	4672.9	4986.0	5278.8	5697.1	6640.0	6837.1
45°	5452.8	5267.7	5202.4	5541.1	5642.5	5919.1	6871.2	7116.2
47.5°	5783.6	5786.1	5891.1	6026.5	6009.2	6170.1	7103.8	7365.3
50°	6169.5	6433.0	6665.0	6754.9	6387.1	6439.9	7426.3	7699.1
52.5°	6633.2	7206.9	7494.0	7434.9	6794.2	6769.2	7937.2	8159.0
55°	7213.1	8026.2	8311.4	8269.1	7262.2	7218.0	8573.7	8703.0
57.5°	7884.3	8819.8	9082.1	8891.9	7824.1	7710.4	9100.2	9127.5
60°	8474.2	9448.9	9678.8	9468.1	8391.0	8234.3	9428.9	9296.5
62.5°	8802.3	9662.1	9823.7	9596.8	8779.4	8792.4	9501.0	9205.2
65°	8655.8	9123.2	9175.3	9156.7	8679.3	9116.2	9241.9	8783.1
67.5°	7852.7	7760.7	7848.3	7969.5	7821.6	8689.8	8523.9	7863.8
70°	6438.1	5932.6	6107.4	6188.7	6255.9	7477.8	7398.3	6405.1
72.5°	4851.8	4156.4	4294.3	4277.5	4588.2	5997.9	5753.7	4709.6
75°	3437.8	2818.1	2835.5	2828.7	3201.6	4692.6	4166.3	3222.1
77.5°	2405.3	2041.8	2051.2	2089.6	2152.4	3539.2	2976.6	2353.8
80°	1654.0	1549.5	1601.1	1604.3	1491.8	2377.5	2199.1	1889.0
82.5°	1231.9	1077.1	1064.6	1082.7	1169.1	1926.2	1689.9	1310.2
85°	1008.8	637.7	512.7	642.8	1036.0	1907.6	1122.6	691.1
87.5°	568.1	302.8	136.8	253.6	413.4	1263.0	324.4	88.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)