

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: P299480

Luminaire Tested: **GLNA-AF-05-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299480
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-05-LED-E1-SLR-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 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: 16605.2 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

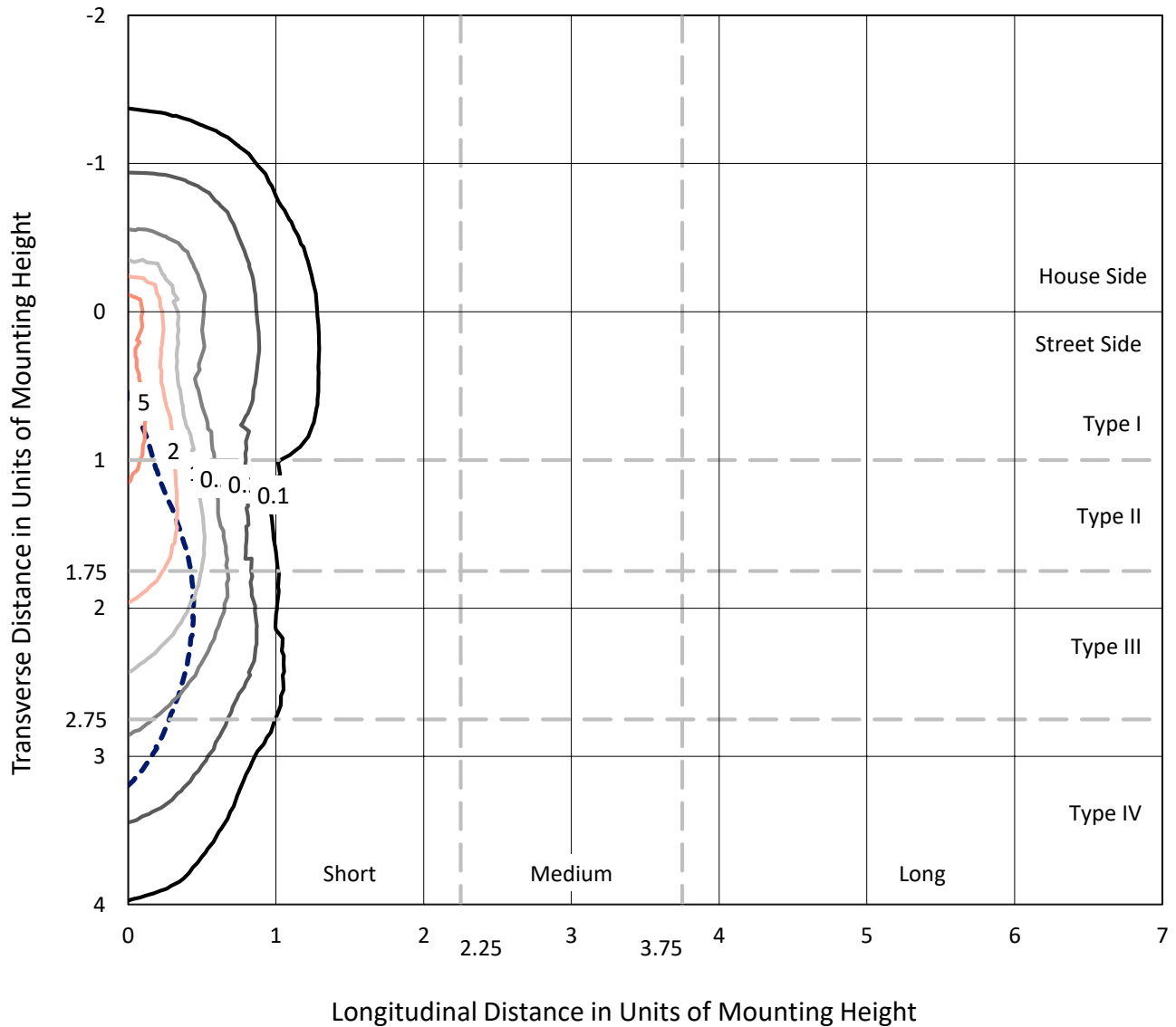
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299480
 CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7030-600

Iso-Footcandle Lines of Horizontal Illumination

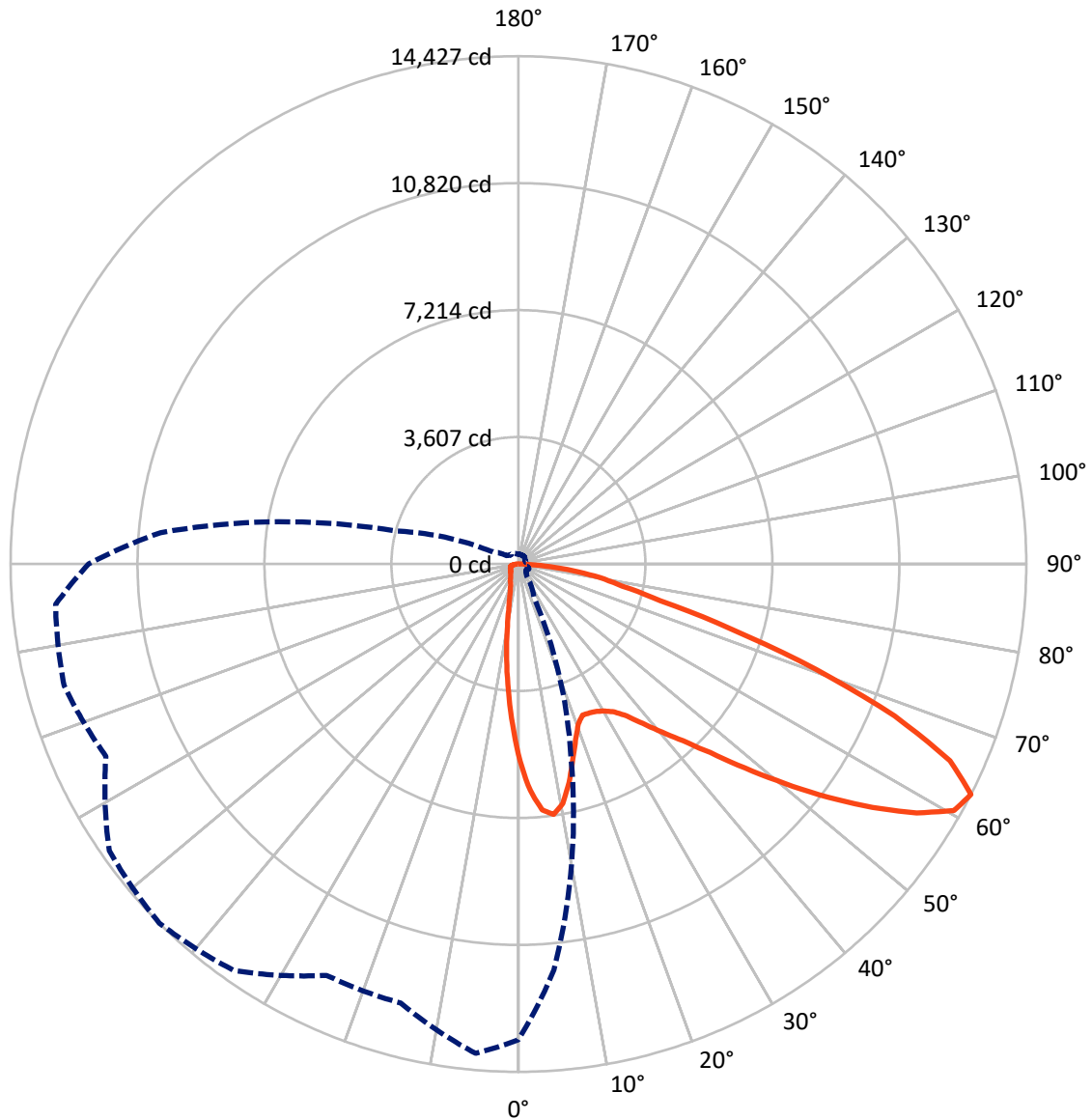
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P299480
CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P299480

CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2747.9	0.0	2747.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13857.2	0.0	13857.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	16605.2	0.0	16605.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.4	2.5
10°-20°	748.9	4.5
20°-30°	1091.9	6.6
30°-40°	1681.6	10.1
40°-50°	2474.9	14.9
50°-60°	3630.2	21.9
60°-70°	4058.0	24.4
70°-80°	1986.8	12.0
80°-90°	524.6	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°	16605.2	100.0
0°-180°	16605.2	100.0

Coefficient of Utilization



REPORT NUMBER: P299480

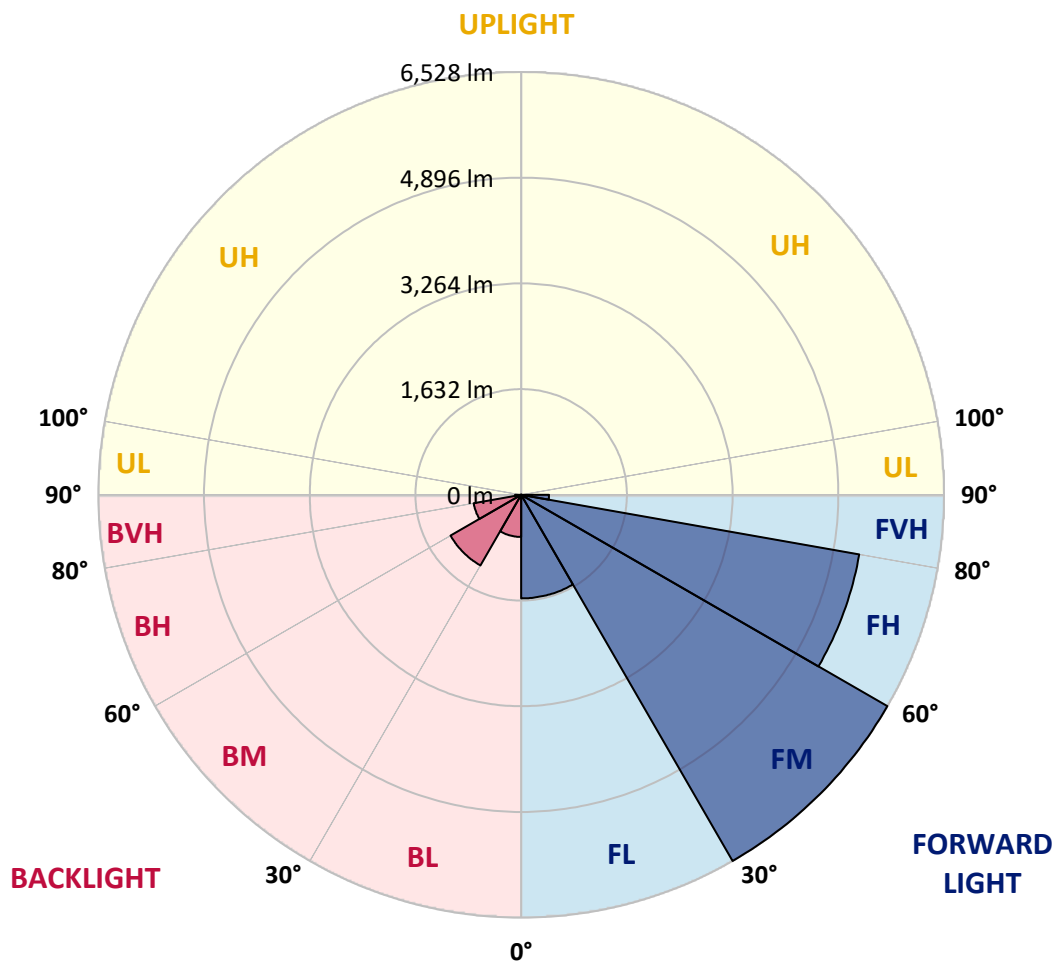
CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1599.0	9.6			
FM (30°-60°)	6527.6	39.3			
FH (60°-80°)	5299.8	31.9			G3/7500
FVH (80°-90°)	430.8	2.6			G3/500
BL (0°-30°)	650.1	3.9	B2/1000		
BM (30°-60°)	1259.1	7.6	B2/2500		
BH (60°-80°)	745.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	93.8	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: P299480

CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2
2.5°	5829.1	5710.5	5513.2	5307.9	5183.0	5036.8	4922.7	4822.4	4621.5	4582.2	4617.9
5°	5481.5	5243.2	4871.6	4497.4	4248.2	3980.7	3772.6	3605.7	3350.9	3306.1	3360.0
7.5°	4923.8	4638.9	4147.8	3670.3	3318.0	2983.9	2759.5	2580.4	2381.5	2295.8	2301.1
10°	4442.7	4121.3	3540.7	3021.5	2733.0	2507.5	2318.5	2135.0	1933.3	1800.9	1764.4
12.5°	4173.3	3803.8	3134.5	2670.8	2403.3	2166.2	1962.6	1766.4	1550.8	1415.7	1377.5
15°	4126.8	3725.0	2982.2	2446.4	2111.2	1811.1	1571.0	1351.8	1129.9	1020.5	997.6
17.5°	4328.6	3865.7	2932.8	2246.4	1836.5	1466.0	1171.1	926.6	745.8	691.1	686.4
20°	4715.4	4136.0	2926.4	2058.4	1565.5	1131.1	816.0	638.1	558.8	543.0	544.1
22.5°	5258.7	4554.9	3004.9	1917.0	1316.2	843.4	613.5	533.9	502.9	488.3	488.3
25°	5961.5	5131.9	3185.6	1813.9	1099.8	673.7	541.3	493.8	464.5	454.6	456.5
27.5°	6642.6	5693.1	3395.6	1732.6	958.3	611.5	512.9	470.1	444.6	434.4	439.1
30°	7173.7	6191.6	3570.8	1622.1	886.2	594.1	523.1	479.2	442.7	427.2	428.0
32.5°	7613.7	6628.0	3717.9	1542.5	822.4	509.3	451.0	431.6	427.2	409.0	399.9
35°	8176.0	7103.6	3816.5	1544.5	792.3	454.6	401.5	367.8	343.2	322.2	322.2
37.5°	8835.1	7649.3	3921.5	1565.5	781.5	422.5	384.4	350.4	327.7	307.6	304.0
40°	9486.7	8184.3	4017.4	1585.6	774.9	403.5	370.6	339.6	318.6	298.4	292.9
42.5°	10041.0	8624.2	4103.1	1595.6	753.0	401.5	360.6	332.2	312.3	290.2	284.9
45°	10450.8	8992.9	4195.4	1611.1	731.2	409.0	360.6	331.3	306.7	285.7	280.2
47.5°	10816.7	9425.6	4349.6	1611.1	704.7	395.2	372.5	332.2	305.9	283.8	279.4
50°	11306.9	10018.9	4641.7	1573.7	667.4	380.5	392.4	328.6	297.6	280.2	274.7
52.5°	11982.3	10779.4	5105.4	1508.8	609.9	352.3	389.6	326.9	289.3	271.1	264.7
55°	12781.2	11593.5	5611.1	1433.1	523.9	332.2	376.1	322.2	280.2	260.0	253.7
57.5°	13404.6	12153.9	5967.0	1316.2	449.1	321.4	333.3	317.8	269.2	248.2	242.9
60°	13652.8	12132.1	6064.8	1160.1	412.6	312.3	291.3	355.9	260.0	239.0	232.7
62.5°	13518.8	11571.7	5790.9	1050.6	404.3	300.4	273.0	329.4	252.8	232.7	223.6
65°	12898.9	10578.5	5065.3	1021.3	428.0	288.5	261.1	258.4	242.9	223.6	214.4
67.5°	11548.7	9094.3	4055.5	1024.1	458.2	276.6	249.3	236.5	229.1	213.6	205.3
70°	9406.6	7190.3	3023.1	1031.6	473.6	262.8	236.5	222.7	214.4	199.0	193.4
72.5°	6916.5	5541.7	2196.3	984.0	476.4	247.3	219.1	207.3	199.0	182.7	178.0
75°	4732.0	4239.0	1523.5	815.2	415.3	225.5	199.8	189.0	183.5	163.3	160.6
77.5°	3456.7	3182.0	974.9	605.2	320.3	198.1	176.3	168.0	164.4	142.3	138.7
80°	2774.2	2517.4	609.9	414.5	234.6	166.1	147.8	143.4	139.6	117.7	115.0
82.5°	1924.1	1685.9	391.6	269.2	176.3	128.8	116.9	115.0	109.4	89.5	86.8
85°	1015.0	915.5	248.2	183.5	127.7	88.4	81.2	81.2	78.5	59.4	57.5
87.5°	129.6	210.8	126.0	95.9	70.2	39.2	39.2	38.4	41.2	33.7	29.3
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: P299480

CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2
2.5°	4533.9	4577.8	4535.8	4538.6	4585.0	4723.7	4786.7	4838.7	4894.5	4931.0	4947.3
5°	3286.2	3388.5	3423.0	3496.0	3603.7	3780.9	3851.1	3902.2	3936.2	3956.1	3964.4
7.5°	2247.5	2309.4	2378.7	2496.4	2731.1	2835.2	2881.7	2869.8	2831.6	2817.8	2804.3
10°	1694.2	1669.6	1656.6	1721.6	1911.4	2016.4	2049.3	2017.3	1996.3	2001.0	2023.6
12.5°	1312.6	1269.8	1217.8	1210.4	1335.5	1429.5	1450.5	1452.2	1490.6	1524.3	1574.6
15°	956.7	952.0	926.6	911.1	982.1	1058.9	1068.0	1084.4	1119.2	1143.8	1187.4
17.5°	674.5	699.1	719.3	729.3	783.1	837.9	827.9	819.6	813.3	813.3	834.3
20°	544.1	560.4	586.1	615.1	670.1	708.3	683.7	650.8	627.0	619.8	622.6
22.5°	490.2	502.9	517.6	543.0	592.5	619.0	592.5	568.7	544.9	536.6	533.9
25°	462.9	479.2	493.0	512.1	548.5	566.8	541.3	523.9	509.3	499.3	491.9
27.5°	447.4	461.8	465.6	474.7	505.7	522.0	509.3	502.1	493.0	483.9	474.7
30°	430.8	428.0	421.7	422.5	447.4	463.7	462.9	464.5	463.7	460.9	459.3
32.5°	393.5	388.0	382.5	388.0	410.6	425.3	426.4	430.0	430.0	429.2	436.3
35°	327.7	337.7	344.0	360.6	388.0	400.7	395.2	386.0	369.7	359.5	358.7
37.5°	303.1	304.8	315.9	338.5	368.9	380.5	372.5	351.5	340.4	338.5	341.3
40°	291.3	292.9	299.3	320.3	350.4	362.3	355.1	339.6	329.4	328.6	333.3
42.5°	283.0	284.9	288.5	303.1	327.7	342.4	343.2	332.2	320.3	321.4	325.8
45°	278.3	279.4	278.3	285.7	308.4	325.8	333.3	325.8	315.9	317.8	323.0
47.5°	277.4	274.7	271.1	273.0	296.8	313.9	323.0	320.3	315.9	317.8	322.2
50°	273.9	267.5	262.8	262.0	285.7	304.0	312.3	312.3	313.9	317.8	322.2
52.5°	262.8	255.6	255.6	252.8	278.3	295.7	301.2	302.0	304.8	311.2	317.8
55°	249.3	246.5	249.3	244.6	273.0	289.3	292.1	294.0	295.7	301.2	310.3
57.5°	237.4	233.8	240.1	238.2	268.3	283.0	283.0	286.6	286.6	294.0	301.2
60°	231.0	223.6	226.3	228.3	262.0	277.4	275.8	279.4	281.0	287.7	292.9
62.5°	222.7	216.4	216.4	220.8	254.8	269.2	268.3	271.1	278.3	280.2	285.7
65°	212.8	210.0	207.3	212.8	247.3	260.0	261.1	264.7	271.1	273.0	277.4
67.5°	202.6	203.7	198.1	203.7	241.0	250.9	250.9	258.4	261.1	264.7	269.2
70°	191.8	192.6	187.9	194.5	236.5	241.0	240.1	250.1	252.0	254.8	259.2
72.5°	178.0	178.0	176.3	185.4	229.1	231.0	229.1	237.4	238.2	241.0	242.9
75°	163.3	163.3	161.7	174.4	224.7	220.0	214.4	220.8	222.7	224.7	224.7
77.5°	144.2	146.2	146.2	161.7	208.9	215.5	197.0	200.9	203.7	204.5	201.7
80°	120.5	125.2	126.8	147.0	175.2	199.0	176.3	178.8	179.9	179.9	176.3
82.5°	92.3	100.3	105.0	126.8	134.3	166.9	153.4	156.1	153.4	147.8	146.2
85°	63.8	74.9	80.4	96.7	101.4	128.8	127.7	127.7	122.4	115.0	114.1
87.5°	34.8	41.2	44.8	57.5	69.4	86.8	94.0	91.2	86.8	82.1	83.2
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: P299480

CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7030-600

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2
2.5°	5033.2	5157.3	5355.4	5506.9	5659.4	5806.4	5965.3	6086.6	6189.7	6230.1	6352.2
5°	4047.5	4202.6	4389.6	4727.3	4966.6	5230.3	5535.3	5938.8	6093.8	6308.5	6659.8
7.5°	2861.8	3002.1	3303.4	3576.4	3915.2	4288.5	4700.0	5256.8	5460.4	5804.5	6376.8
10°	2136.9	2300.2	2542.0	2772.2	3070.7	3452.3	3925.1	4547.7	4795.0	5168.4	5827.4
12.5°	1721.6	1914.2	2170.6	2387.0	2618.0	2887.2	3346.5	4029.0	4360.6	4687.3	5353.5
15°	1322.6	1524.3	1762.8	2037.4	2292.0	2582.4	3063.5	3810.2	4191.5	4532.2	5100.7
17.5°	915.5	1087.9	1388.3	1674.9	2001.0	2372.4	2985.0	3856.6	4312.0	4704.7	5144.6
20°	649.1	747.5	994.0	1326.4	1732.6	2198.8	2970.4	4101.1	4693.6	5141.8	5425.6
22.5°	545.8	582.2	725.7	1030.5	1499.7	2069.2	3021.5	4444.4	5208.4	5780.7	5873.9
25°	497.4	519.5	594.1	808.8	1292.4	1975.3	3193.9	4955.6	5845.7	6419.9	6403.3
27.5°	470.9	493.8	543.0	682.8	1136.6	1917.0	3366.4	5561.9	6574.1	7113.5	6909.0
30°	462.9	493.8	545.8	643.6	1025.2	1824.7	3507.8	6093.8	7134.5	7581.9	7139.2
32.5°	456.5	460.9	484.7	554.9	919.1	1716.9	3603.7	6571.3	7683.0	8027.4	7470.5
35°	368.9	391.6	430.0	497.4	857.2	1652.2	3603.7	6983.1	8223.6	8477.2	7786.4
37.5°	355.1	375.3	409.0	466.5	822.4	1620.2	3531.6	7380.2	8775.7	8987.6	8046.4
40°	347.9	364.2	396.3	442.7	807.7	1583.7	3426.6	7730.6	9315.1	9498.6	8289.3
42.5°	342.4	357.0	387.2	428.0	788.7	1543.6	3341.8	8011.6	9783.5	9934.9	8521.2
45°	339.6	355.1	388.0	435.5	750.3	1490.6	3313.6	8315.6	10168.7	10299.1	8772.1
47.5°	339.6	357.9	392.4	451.0	704.7	1435.9	3402.0	8716.5	10532.9	10596.8	9067.8
50°	336.9	357.0	405.4	435.5	638.1	1366.5	3610.1	9221.1	10927.3	10934.4	9442.2
52.5°	331.3	355.1	436.3	426.4	561.2	1275.3	3891.4	9869.4	11510.6	11554.3	10028.0
55°	325.0	352.3	428.0	405.4	498.5	1166.7	4121.3	10657.0	12330.2	12451.5	10889.9
57.5°	316.7	348.7	414.5	376.1	457.3	1026.9	4204.5	11234.0	12902.5	13207.3	11861.0
60°	309.5	346.0	374.2	358.7	431.6	909.2	4043.7	11119.9	12863.3	13520.4	12721.8
62.5°	302.0	348.7	341.3	347.9	419.8	833.4	3623.9	10206.0	12212.5	13197.4	13359.9
65°	294.0	324.1	322.2	338.5	417.3	803.3	3004.1	8835.9	10954.6	12176.0	13510.5
67.5°	283.0	299.3	308.4	326.9	426.4	776.8	2424.3	7288.7	9206.5	10645.1	12725.4
70°	271.1	284.9	294.9	312.3	420.9	764.9	2016.4	5747.8	7305.3	8724.6	11176.5
72.5°	255.6	267.5	276.6	292.9	415.3	758.5	1703.4	4628.9	5454.1	6481.0	9087.1
75°	237.4	248.2	254.8	271.1	397.9	694.7	1339.1	3916.8	4081.2	4508.5	7237.6
77.5°	216.4	224.7	229.9	248.2	352.3	577.8	968.6	3021.5	3169.3	3273.2	5548.9
80°	191.8	199.8	202.6	220.0	292.1	451.8	631.7	2231.7	2370.4	2394.2	3623.9
82.5°	163.3	171.6	171.6	187.9	239.0	325.0	414.5	1529.0	1556.3	1636.8	2561.4
85°	131.5	137.9	137.9	146.2	185.4	242.9	284.9	767.7	759.4	867.2	2219.0
87.5°	94.0	98.7	103.1	105.0	132.4	160.6	171.6	233.8	154.2	177.1	1424.8
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: P299480

CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2	5610.2
2.5°	6444.5	6496.4	6443.4	6405.2	6240.0	6104.0	5922.2	5829.1
5°	6927.3	7059.6	7014.9	6854.3	6509.2	6121.2	5680.4	5481.5
7.5°	6868.9	7176.5	7183.7	6883.6	6375.1	5803.7	5206.8	4923.8
10°	6414.4	6807.6	6920.1	6628.8	6089.4	5450.5	4765.7	4442.7
12.5°	5906.7	6292.0	6377.9	6277.3	5826.6	5184.7	4490.2	4173.3
15°	5491.4	5664.1	5766.1	5854.0	5601.1	5078.8	4474.5	4126.8
17.5°	5238.5	5219.5	5248.8	5401.0	5443.9	5200.1	4711.8	4328.6
20°	5147.4	4854.4	4847.0	5057.0	5370.1	5489.7	5175.5	4715.4
22.5°	5197.7	4722.9	4662.7	4911.9	5409.3	5906.7	5783.5	5258.7
25°	5370.9	4734.0	4685.3	4926.6	5551.6	6351.4	6439.8	5961.5
27.5°	5643.9	4803.3	4739.2	4986.8	5740.7	6724.7	7086.1	6642.6
30°	5903.1	4923.8	4844.2	5105.4	5913.1	6872.5	7482.4	7173.7
32.5°	6218.2	5149.3	5009.5	5323.4	6126.7	7108.0	7835.6	7613.7
35°	6526.6	5470.4	5297.1	5660.2	6364.9	7401.2	8239.0	8176.0
37.5°	6865.4	5890.4	5747.0	6095.8	6691.0	7677.5	8753.9	8835.1
40°	7226.8	6447.3	6277.3	6731.1	7196.7	8024.6	9291.6	9486.7
42.5°	7591.0	7065.1	6862.6	7322.4	7752.4	8366.7	9751.4	10041.0
45°	8008.0	7736.1	7640.2	8137.6	8286.6	8692.8	10091.1	10450.8
47.5°	8493.8	8497.4	8651.6	8850.6	8825.1	9061.4	10432.6	10816.7
50°	9060.6	9447.5	9788.2	9920.3	9380.0	9457.7	10906.3	11306.9
52.5°	9741.5	10584.0	11005.7	10919.0	9978.0	9941.3	11656.5	11982.3
55°	10593.2	11787.2	12206.1	12144.0	10665.3	10600.3	12591.4	12781.2
57.5°	11578.9	12952.8	13338.0	13058.7	11490.4	11323.5	13364.6	13404.6
60°	12445.2	13876.6	14214.3	13904.8	12323.0	12092.8	13847.3	13652.8
62.5°	12927.1	14189.7	14427.1	14093.8	12893.4	12912.5	13953.2	13518.8
65°	12711.8	13398.3	13474.8	13447.5	12746.4	13388.0	13572.6	12898.9
67.5°	11532.4	11397.3	11526.1	11704.0	11486.8	12761.9	12518.1	11548.7
70°	9454.9	8712.7	8969.4	9088.8	9187.4	10982.0	10865.1	9406.6
72.5°	7125.4	6104.0	6306.6	6282.0	6738.2	8808.6	8449.9	6916.5
75°	5048.7	4138.7	4164.1	4154.2	4701.9	6891.6	6118.7	4732.0
77.5°	3532.4	2998.5	3012.4	3068.7	3161.0	5197.7	4371.4	3456.7
80°	2429.0	2275.6	2351.4	2356.1	2190.8	3491.5	3229.6	2774.2
82.5°	1809.2	1581.8	1563.5	1590.1	1716.9	2828.9	2481.8	1924.1
85°	1481.5	936.5	753.0	944.0	1521.5	2801.5	1648.6	1015.0
87.5°	834.3	444.6	200.9	372.5	607.1	1854.8	476.4	129.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)