

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: P299995

Luminaire Tested: **GLNA-AF-07-LED-E1-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-SL3-7030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31604.5 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

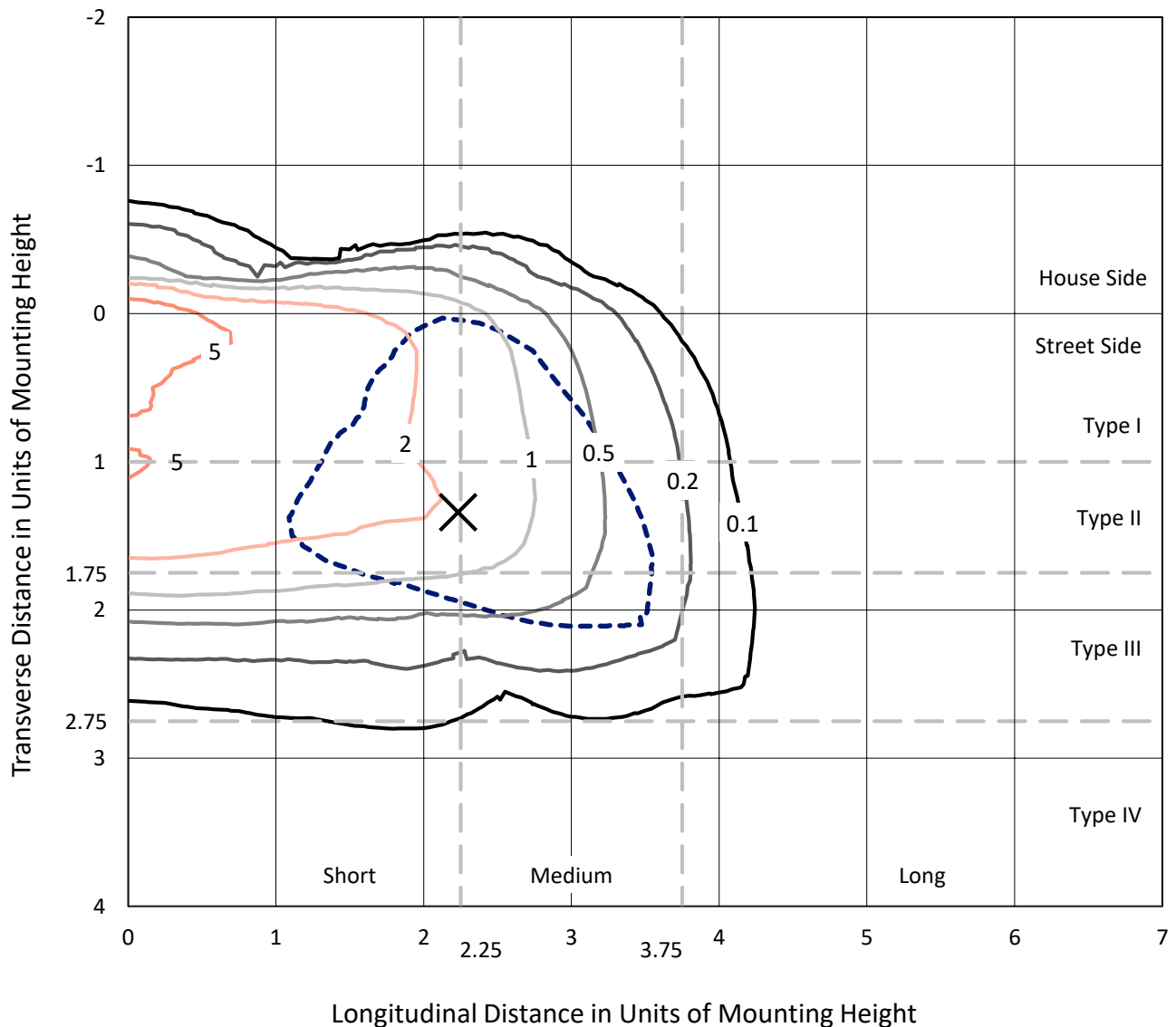
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299995
 CATALOG NUMBER: GLNA-AF-07-LED-E1-SL3-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

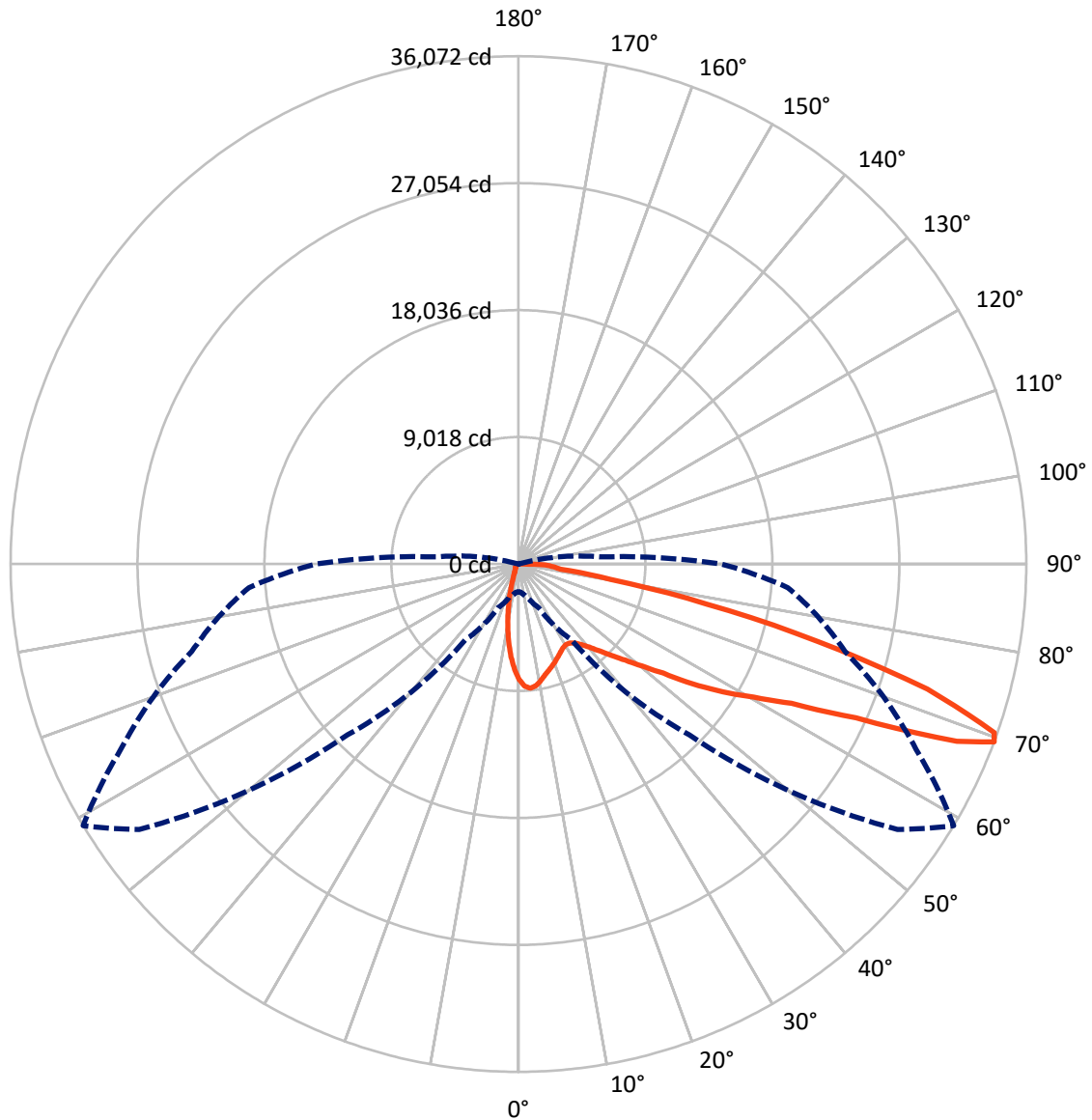
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P299995
CATALOG NUMBER: GLNA-AF-07-LED-E1-SL3-7030-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P299995

CATALOG NUMBER: GLNA-AF-07-LED-E1-SL3-7030-HSS

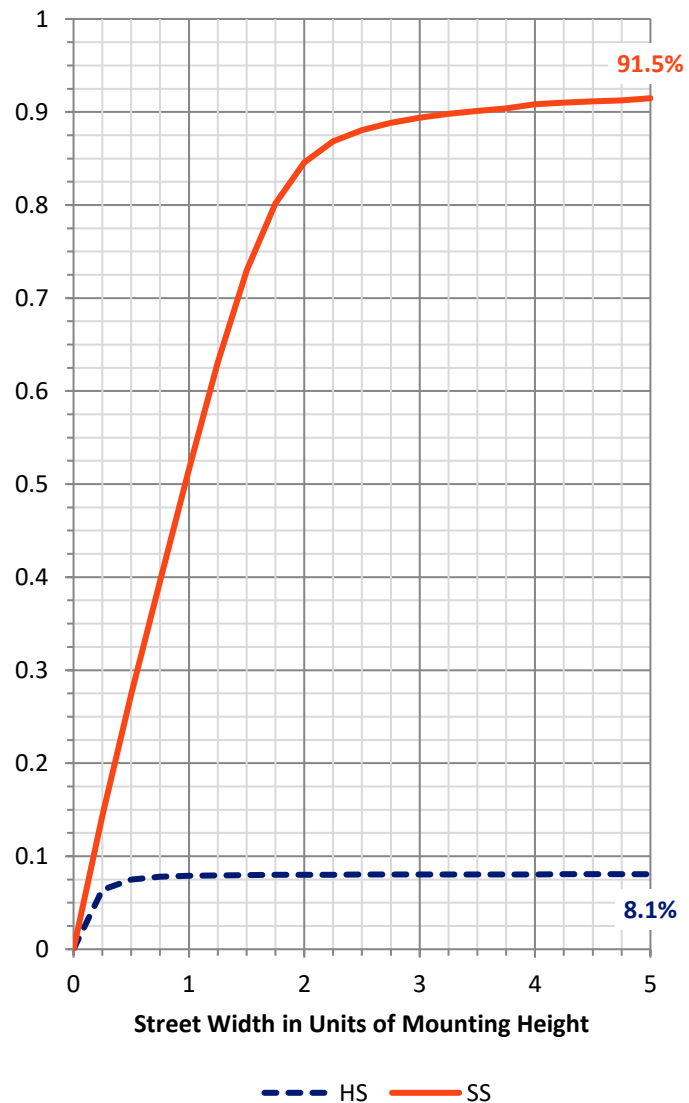
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2573.7	0.0	2573.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	29030.7	0.0	29030.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	31604.5	0.0	31604.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.7	2.1
10°-20°	1379.7	4.4
20°-30°	1856.6	5.9
30°-40°	2695.6	8.5
40°-50°	4488.4	14.2
50°-60°	7001.8	22.2
60°-70°	8664.2	27.4
70°-80°	4390.9	13.9
80°-90°	459.4	1.5
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°	31604.5	100.0
0°-180°	31604.5	100.0

Coefficient of Utilization



REPORT NUMBER: P299995

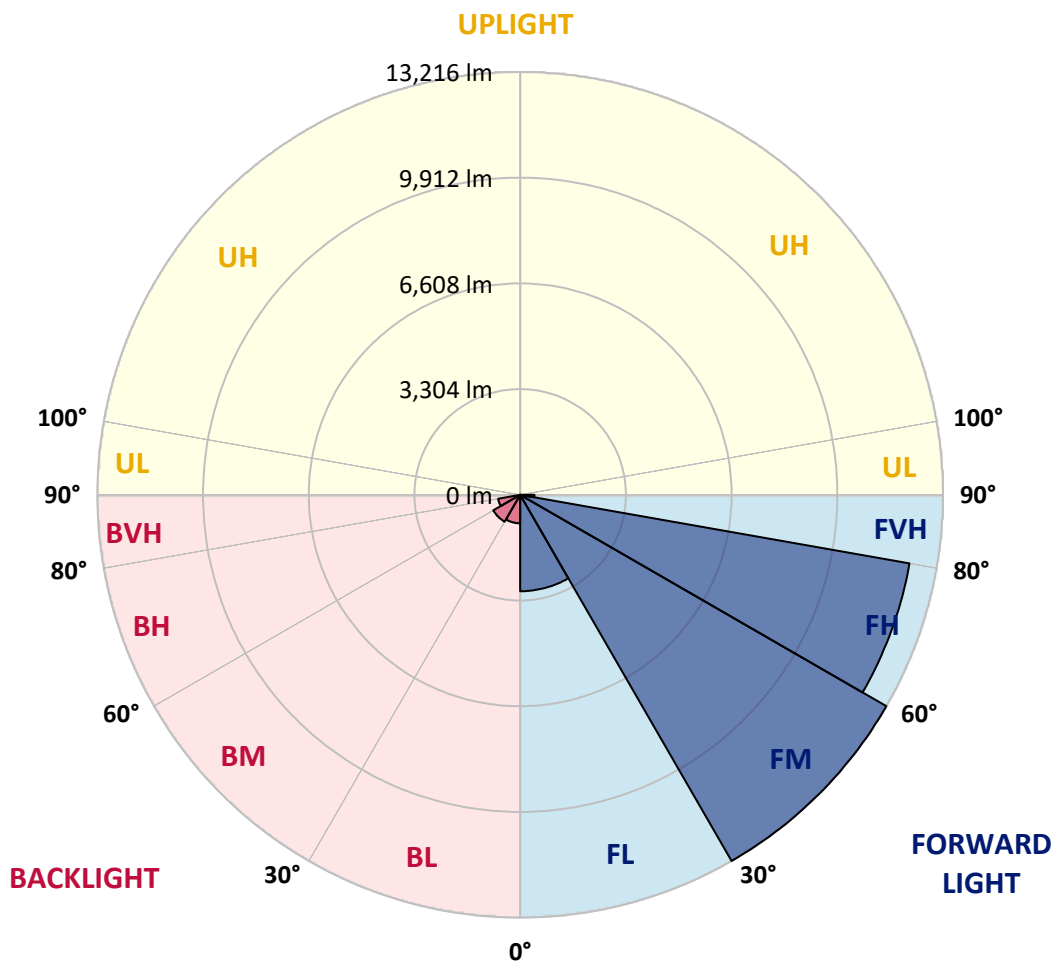
CATALOG NUMBER: GLNA-AF-07-LED-E1-SL3-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3013.1	9.5			
FM	(30°-60°)	13216.1	41.8			
FH	(60°-80°)	12356.2	39.1			G5
FVH	(80°-90°)	445.3	1.4			G3/500
BL	(0°-30°)	890.9	2.8	B2/1000		
BM	(30°-60°)	969.8	3.1	B1/1000		
BH	(60°-80°)	699.0	2.2	B2/1000		G2/1000
BVH	(80°-90°)	14.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





REPORT NUMBER: P299995

CATALOG NUMBER: GLNA-AF-07-LED-E1-SL3-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8226.0	8226.0	8226.0	8226.0	8226.0	8226.0	8226.0	8226.0	8226.0	8226.0	8226.0
2.5°	9016.0	9012.8	8973.3	8955.4	8923.0	8855.3	8749.8	8694.6	8605.3	8449.5	8240.7
5°	8933.8	8977.1	8999.8	9002.0	9025.2	8999.8	8905.1	8859.1	8735.7	8485.2	8110.3
7.5°	8376.5	8392.2	8458.7	8515.5	8626.4	8732.0	8766.0	8746.0	8673.0	8405.1	7906.3
10°	7779.7	7795.3	7874.3	7949.0	8099.4	8261.8	8433.3	8469.5	8499.8	8290.4	7709.9
12.5°	7264.5	7280.8	7361.4	7459.3	7634.6	7834.8	8101.1	8160.0	8294.2	8181.7	7552.4
15°	6821.4	6828.4	6907.4	7028.6	7238.0	7495.0	7797.5	7892.2	8097.8	8104.8	7415.0
17.5°	6444.3	6462.1	6510.8	6626.6	6855.5	7173.6	7525.9	7661.7	7902.5	8040.5	7280.8
20°	6213.8	6231.6	6230.0	6294.4	6500.0	6839.3	7254.3	7416.6	7709.9	7974.4	7161.2
22.5°	6169.4	6169.4	6122.9	6113.7	6235.4	6519.5	6971.8	7169.9	7536.2	7945.8	7077.3
25°	6328.5	6320.9	6205.1	6110.4	6115.8	6285.2	6698.0	6933.9	7390.1	7965.2	7032.4
27.5°	6664.5	6655.3	6508.7	6328.5	6183.5	6181.8	6490.8	6744.6	7273.7	8058.3	7050.3
30°	7128.7	7125.5	6966.4	6739.2	6476.7	6235.4	6419.4	6649.9	7198.5	8226.0	7091.4
32.5°	7636.3	7630.9	7511.3	7272.1	6939.4	6476.7	6494.6	6687.8	7220.2	8449.5	7191.5
35°	8174.6	8165.4	8113.5	7904.6	7538.3	6921.5	6741.3	6891.2	7356.0	8783.9	7387.9
37.5°	8756.8	8766.0	8803.4	8603.2	8219.0	7545.4	7154.2	7255.9	7629.2	9237.9	7707.7
40°	9616.6	9615.0	9627.4	9364.5	8994.9	8308.3	7731.0	7763.4	8087.0	9840.1	8194.1
42.5°	11176.6	11067.8	10737.2	10201.0	9829.3	9180.5	8458.7	8424.6	8646.5	10585.2	8874.8
45°	13273.2	13040.6	12183.0	11155.4	10679.8	10163.6	9353.7	9244.9	9386.1	11480.6	9715.1
47.5°	15076.1	14834.8	13621.7	12148.9	11582.4	11096.5	10402.8	10206.4	10252.9	12483.3	10779.9
50°	15689.2	15571.2	14511.8	13014.1	12456.2	12270.6	11620.2	11380.5	11314.5	13642.8	12014.7
52.5°	15476.5	15467.9	14761.7	13575.2	13257.0	13485.9	13151.5	12874.5	12631.5	14865.6	13271.1
55°	15135.1	15180.0	14863.5	14066.5	14055.6	14595.6	15246.0	15015.5	14311.6	16193.4	14354.3
57.5°	14193.6	14384.6	14806.7	14996.0	15435.4	15987.8	16990.5	17126.3	16293.5	17210.1	15253.0
60°	11516.3	11936.2	13316.0	15129.7	17213.9	18589.9	19095.8	19211.6	17919.5	18055.3	16466.7
62.5°	8174.6	8603.2	10353.0	13421.5	17240.4	22008.4	22231.9	21776.3	19710.5	19308.4	18559.6
65°	4338.9	4670.1	6099.6	9688.0	14947.9	22802.2	27716.8	26358.7	22869.8	21772.5	21263.4
67.5°	2219.5	2319.6	2888.3	4741.5	10276.2	20253.7	32633.1	33589.2	28315.3	24217.7	21133.0
69°	1964.1	2023.1	2400.2	3427.7	6580.1	17154.9	32872.8	36071.6	31166.2	24013.7	19204.6
70°	1901.4	1953.3	2296.3	3102.6	5143.5	14386.2	31955.7	35853.6	31895.1	23238.3	17764.2
72.5°	1614.0	1658.4	2044.7	2741.7	4180.4	7141.2	25958.3	30381.7	28621.0	19358.2	12858.2
75°	1079.5	1226.1	1962.5	2570.1	3888.7	4057.0	17113.8	21954.9	20394.9	13056.8	6698.0
77.5°	259.2	278.7	554.1	2044.7	3556.5	3570.6	8801.8	13648.2	11132.2	4653.8	1583.2
80°	139.6	134.2	155.3	405.8	3311.4	3350.9	3962.3	6625.0	3974.8	772.1	521.6
82.5°	98.5	93.1	100.1	169.9	1042.1	3052.2	2866.6	2998.7	1647.6	296.5	234.3
85°	35.7	34.1	55.2	153.7	326.8	1754.7	2945.1	2473.3	1334.8	135.8	171.5
87.5°	12.4	10.8	21.6	83.9	100.1	747.2	1817.5	1869.4	525.4	82.2	80.6
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: P299995

CATALOG NUMBER: GLNA-AF-07-LED-E1-SL3-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8226.0	8226.0	8226.0	8226.0	8226.0	8226.0	8226.0	8226.0	8226.0	8226.0	8226.0
2.5°	8153.0	8042.1	7838.6	7629.2	7436.1	7203.9	7087.6	6973.4	6925.3	6907.4	6823.6
5°	7917.1	7729.3	7297.0	6862.5	6462.1	6036.8	5756.6	5531.5	5398.9	5334.5	5232.8
7.5°	7615.2	7307.8	6651.5	5981.6	5357.8	4743.1	4287.5	3936.9	3695.6	3579.8	3474.3
10°	7321.9	6912.8	5980.0	5066.7	4219.3	3404.5	2775.2	2319.6	2028.5	1894.3	1808.8
12.5°	7059.5	6528.7	5331.3	4175.0	3111.2	2157.3	1517.2	1154.7	973.9	911.2	880.9
15°	6825.2	6174.8	4718.2	3327.6	2107.0	1233.1	829.5	706.1	677.4	677.4	673.6
17.5°	6603.3	5828.0	4126.3	2532.3	1322.4	754.3	630.9	614.7	614.7	621.7	621.7
20°	6390.7	5497.4	3554.4	1817.5	832.7	598.4	570.3	566.5	570.3	579.0	579.0
22.5°	6208.4	5197.1	3020.3	1247.2	618.5	539.5	525.4	520.0	521.6	527.0	530.8
25°	6072.5	4943.3	2516.6	845.2	532.4	491.3	475.6	466.4	459.4	459.4	462.6
27.5°	5987.1	4729.0	2028.5	614.7	478.9	446.9	421.5	407.4	391.2	382.5	385.8
30°	5924.3	4525.1	1570.8	502.1	429.1	396.6	364.7	341.4	318.2	307.3	311.1
32.5°	5901.0	4360.6	1174.1	443.1	384.2	348.5	309.0	278.7	253.8	244.6	246.7
35°	5963.8	4230.2	859.8	400.4	348.5	303.5	259.2	225.1	205.6	200.2	201.8
37.5°	6128.3	4160.4	643.3	364.7	316.5	266.2	216.4	184.0	171.5	171.5	173.1
40°	6438.9	4158.7	516.7	339.8	287.9	230.5	178.6	155.3	148.3	152.0	153.7
42.5°	6892.8	4253.4	450.2	316.5	263.0	196.4	148.3	132.0	130.4	134.2	135.8
45°	7512.9	4426.6	414.5	296.5	235.9	164.5	125.0	114.2	114.2	119.6	121.7
47.5°	8272.6	4680.3	384.2	277.0	208.9	137.4	107.1	100.1	101.7	107.1	108.8
50°	9187.5	5000.7	353.9	255.4	189.4	114.2	93.1	87.7	89.3	96.3	98.5
52.5°	10229.7	5431.4	329.0	235.9	164.5	94.7	78.5	75.2	78.5	86.0	87.7
55°	11123.0	5817.2	298.7	219.7	132.0	78.5	64.4	64.4	68.2	76.8	78.5
57.5°	11982.8	6220.8	271.6	189.4	103.9	62.8	53.6	55.2	60.6	69.8	71.4
60°	13244.6	6905.3	239.7	159.1	78.5	49.8	44.9	46.5	53.6	62.8	64.4
62.5°	15387.2	7947.4	207.2	132.0	60.6	39.5	35.7	39.5	48.2	59.0	60.6
65°	17321.1	8371.1	169.9	110.9	46.5	30.3	30.3	35.7	46.5	57.4	59.0
67.5°	16243.2	7046.5	132.0	87.7	35.7	23.3	24.9	34.1	44.9	57.4	59.0
69°	14365.1	5762.0	112.5	69.8	30.3	21.6	23.3	34.1	44.9	55.2	57.4
70°	12901.5	4864.9	100.1	59.0	27.1	21.6	23.3	31.9	44.9	55.2	57.4
72.5°	8641.0	2626.9	80.6	42.7	24.9	19.5	19.5	31.9	42.7	53.6	55.2
75°	3713.4	725.6	64.4	30.3	21.6	17.9	17.9	30.3	41.1	51.9	55.2
77.5°	679.1	184.0	51.9	27.1	21.6	17.9	16.2	28.7	39.5	49.8	51.9
80°	270.0	90.9	41.1	23.3	19.5	16.2	14.1	27.1	37.3	48.2	49.8
82.5°	162.9	51.9	34.1	21.6	19.5	14.1	12.4	23.3	35.7	46.5	48.2
85°	132.0	35.7	27.1	21.6	17.9	14.1	10.8	21.6	31.9	44.9	46.5
87.5°	64.4	24.9	24.9	19.5	17.9	14.1	10.8	19.5	30.3	42.7	44.9
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)