

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: P299372

Luminaire Tested: **GLNA-AF-07-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299372
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-07-LED-E1-SLR-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35672.6 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - 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

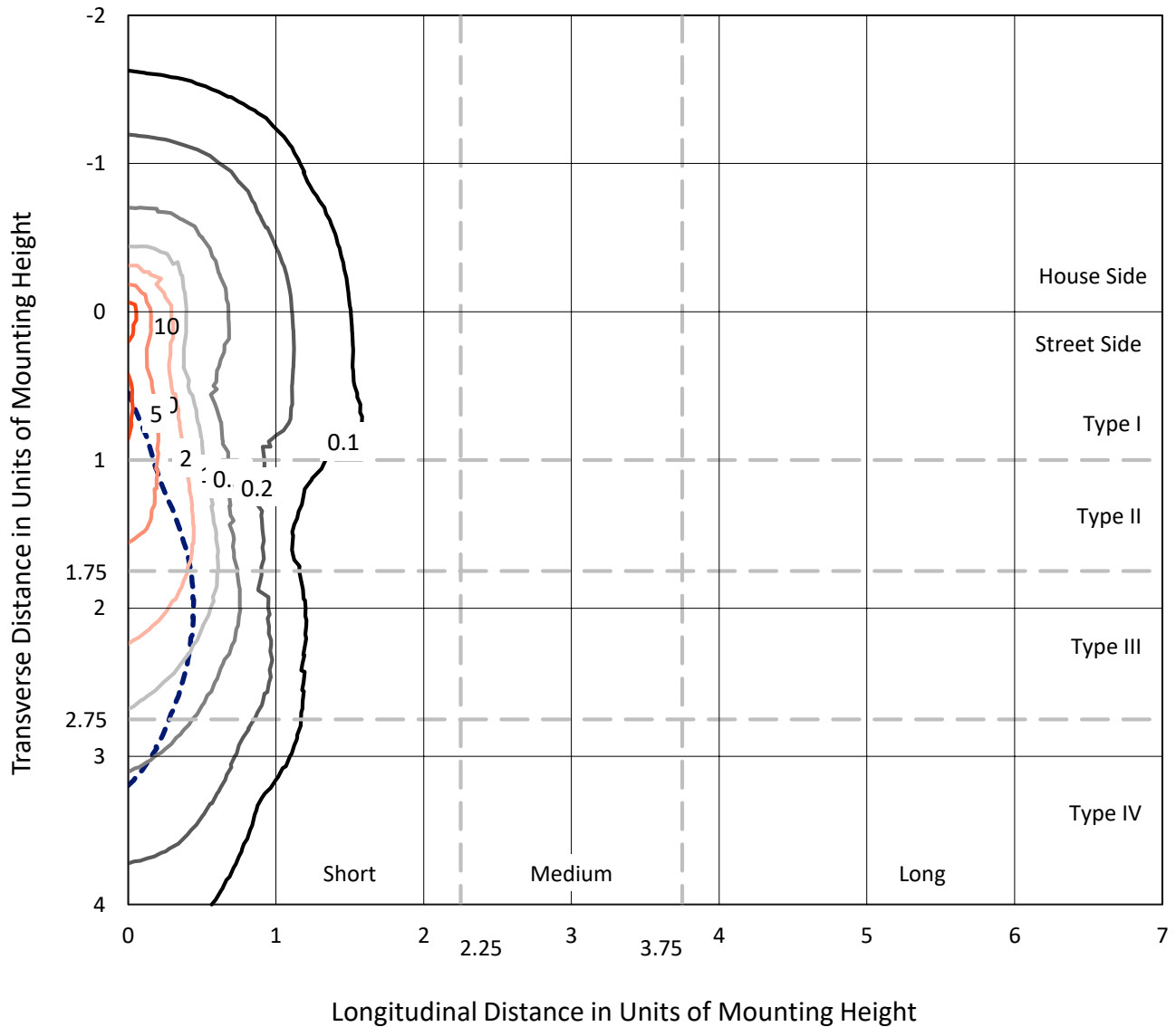


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Iso-Footcandle Lines of Horizontal Illumination

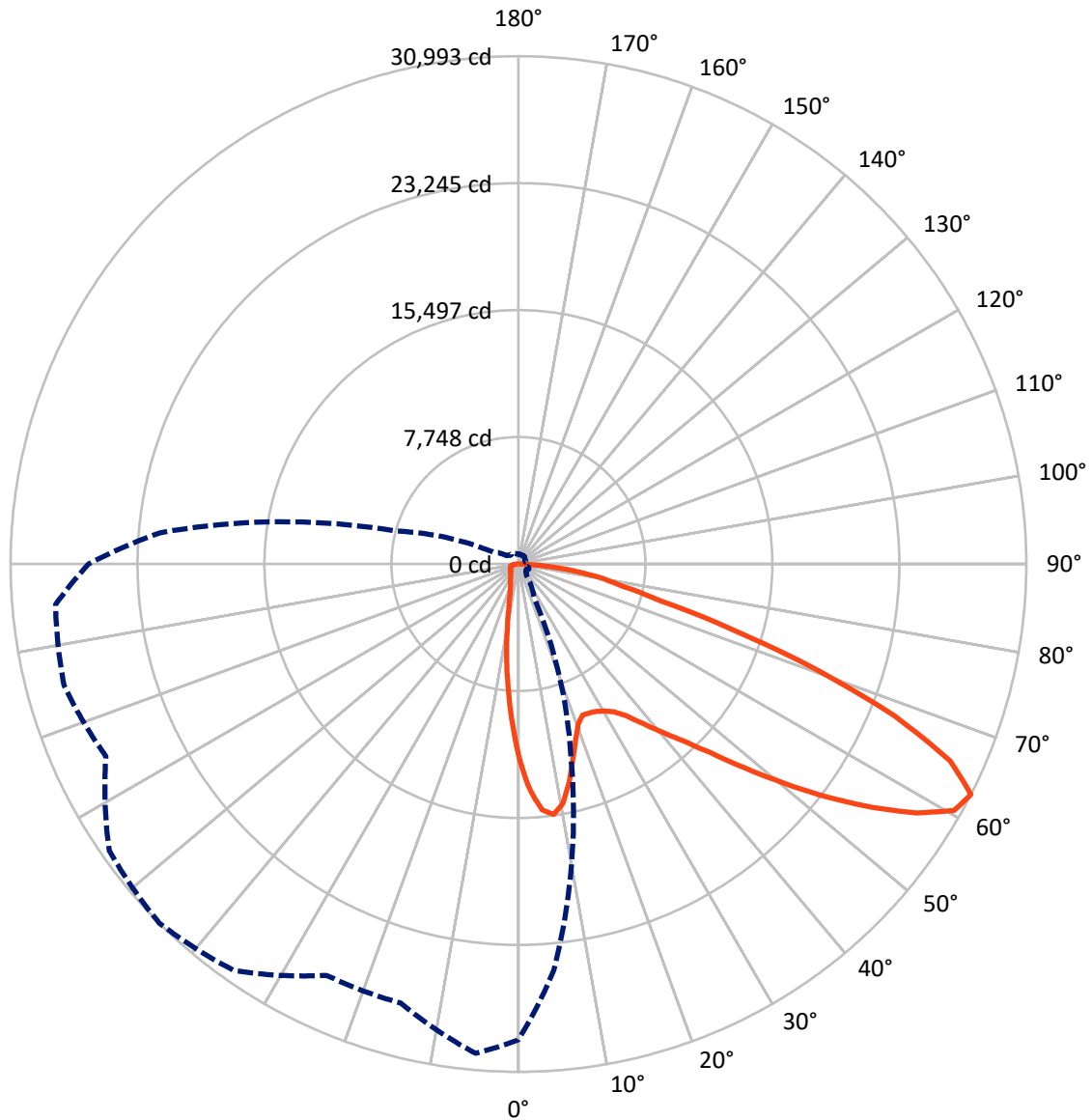
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5903.3	0.0	5903.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	29769.2	0.0	29769.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	35672.6	0.0	35672.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.3	2.5
10°-20°	1608.8	4.5
20°-30°	2345.6	6.6
30°-40°	3612.6	10.1
40°-50°	5316.8	14.9
50°-60°	7798.6	21.9
60°-70°	8717.7	24.4
70°-80°	4268.1	12.0
80°-90°	1126.9	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°	35672.6	100.0
0°-180°	35672.6	100.0



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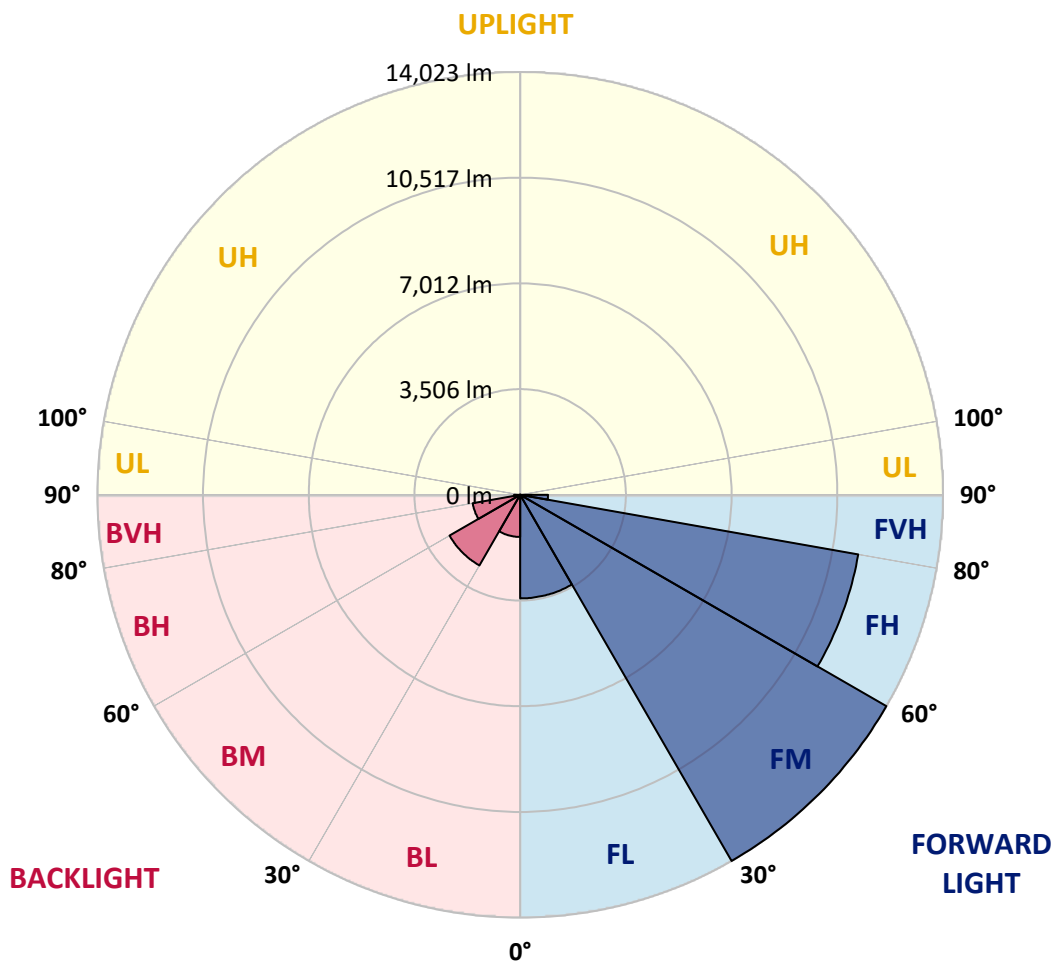
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3435.1	9.6			
FM	(30°-60°)	14023.2	39.3			
FH	(60°-80°)	11385.4	31.9			G4/12000
FVH	(80°-90°)	925.4	2.6			G5
BL	(0°-30°)	1396.6	3.9	B3/2500		
BM	(30°-60°)	2704.9	7.6	B3/5000		
BH	(60°-80°)	1600.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	201.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3
2.5°	12522.5	12267.8	11843.9	11402.9	11134.5	10820.5	10575.3	10359.8	9928.2	9843.9	9920.5
5°	11775.7	11264.0	10465.5	9661.7	9126.2	8551.6	8104.5	7746.0	7198.6	7102.5	7218.2
7.5°	10577.7	9965.6	8910.7	7884.9	7128.0	6410.3	5928.2	5543.5	5116.1	4932.1	4943.3
10°	9544.1	8853.7	7606.5	6491.0	5871.2	5386.8	4980.7	4586.6	4153.2	3868.8	3790.5
12.5°	8965.3	8171.6	6733.8	5737.6	5163.0	4653.6	4216.1	3794.6	3331.6	3041.3	2959.4
15°	8865.6	8002.4	6406.7	5255.6	4535.5	3890.8	3374.9	2904.1	2427.4	2192.4	2143.1
17.5°	9299.0	8304.6	6300.4	4825.8	3945.4	3149.3	2515.9	1990.5	1602.3	1484.7	1474.6
20°	10130.1	8885.2	6286.8	4422.1	3363.0	2429.8	1753.1	1370.7	1200.4	1166.5	1168.9
22.5°	11297.2	9785.2	6455.4	4118.2	2827.6	1811.8	1317.9	1146.9	1080.4	1049.0	1049.0
25°	12806.9	11024.7	6843.6	3896.7	2362.7	1447.3	1163.0	1060.9	997.9	976.6	980.7
27.5°	14270.2	12230.4	7294.8	3722.2	2058.8	1313.8	1101.8	1009.8	955.2	933.2	943.3
30°	15411.2	13301.4	7671.2	3484.7	1903.8	1276.4	1123.8	1029.4	951.0	917.8	919.6
32.5°	16356.3	14238.7	7987.0	3313.8	1766.7	1094.1	968.8	927.3	917.8	878.6	859.0
35°	17564.4	15260.4	8198.9	3317.9	1702.0	976.6	862.6	790.2	737.3	692.2	692.2
37.5°	18980.2	16432.9	8424.5	3363.0	1678.8	907.7	825.8	752.8	704.1	660.7	653.0
40°	20380.1	17582.2	8630.5	3406.4	1664.6	866.7	796.1	729.6	684.5	641.1	629.3
42.5°	21570.9	18527.3	8814.5	3427.7	1617.7	862.6	774.7	713.6	670.8	623.3	612.1
45°	22451.3	19319.2	9012.8	3461.0	1570.8	878.6	774.7	711.8	659.0	613.8	602.0
47.5°	23237.3	20248.9	9344.1	3461.0	1513.8	848.9	800.2	713.6	657.2	609.7	600.2
50°	24290.5	21523.4	9971.6	3380.8	1433.7	817.5	843.0	705.9	639.4	602.0	590.1
52.5°	25741.3	23157.2	10967.7	3241.3	1310.2	756.9	837.0	702.3	621.6	582.4	568.7
55°	27457.6	24906.1	12054.1	3078.7	1125.6	713.6	808.0	692.2	602.0	558.6	545.0
57.5°	28796.9	26110.0	12818.7	2827.6	964.7	690.4	715.9	682.7	578.2	533.1	521.8
60°	29330.0	26063.1	13028.9	2492.2	886.3	670.8	625.7	764.6	558.6	513.5	499.9
62.5°	29042.0	24859.2	12440.6	2257.1	868.5	645.3	586.5	707.6	543.2	499.9	480.3
65°	27710.5	22725.6	10881.6	2194.1	919.6	619.8	561.0	555.1	521.8	480.3	460.7
67.5°	24809.9	19537.1	8712.4	2200.1	984.3	594.2	535.5	508.2	492.1	458.9	441.1
70°	20207.9	15446.8	6494.6	2216.1	1017.5	564.6	508.2	478.5	460.7	427.4	415.6
72.5°	14858.5	11905.1	4718.3	2114.0	1023.5	531.3	470.8	445.2	427.4	392.4	382.3
75°	10165.7	9106.6	3272.8	1751.3	892.3	484.4	429.2	406.1	394.2	350.8	344.9
77.5°	7426.0	6835.9	2094.4	1300.1	688.0	425.6	378.7	360.9	353.2	305.7	298.0
80°	5959.7	5408.2	1310.2	890.5	504.0	356.8	317.6	308.1	299.8	252.9	247.0
82.5°	4133.6	3621.9	841.2	578.2	378.7	276.6	251.1	247.0	235.1	192.3	186.4
85°	2180.5	1966.8	533.1	394.2	274.3	190.0	174.5	174.5	168.6	127.6	123.5
87.5°	278.4	453.0	270.7	206.0	150.8	84.3	84.3	82.5	88.5	72.4	62.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3
2.5°	9740.0	9834.4	9744.2	9750.1	9849.9	10147.9	10283.2	10394.8	10514.8	10593.1	10628.2
5°	7059.7	7279.4	7353.6	7510.3	7741.8	8122.3	8273.1	8383.0	8456.0	8498.7	8516.5
7.5°	4828.2	4961.1	5110.2	5363.1	5867.1	6090.9	6190.6	6165.1	6083.2	6053.5	6024.4
10°	3639.7	3586.8	3558.9	3698.5	4106.3	4331.9	4402.5	4333.7	4288.5	4298.6	4347.3
12.5°	2819.8	2727.8	2616.2	2600.2	2869.1	3071.0	3116.1	3119.6	3202.2	3274.6	3382.6
15°	2055.2	2045.1	1990.5	1957.3	2109.8	2274.9	2294.5	2329.5	2404.3	2457.1	2550.9
17.5°	1449.1	1501.9	1545.3	1566.6	1682.4	1800.0	1778.6	1760.8	1747.1	1747.1	1792.2
20°	1168.9	1203.9	1259.1	1321.5	1439.6	1521.5	1468.7	1398.1	1347.0	1331.6	1337.5
22.5°	1053.1	1080.4	1111.9	1166.5	1272.8	1329.8	1272.8	1221.7	1170.7	1152.9	1146.9
25°	994.4	1029.4	1059.1	1100.0	1178.4	1217.6	1163.0	1125.6	1094.1	1072.7	1056.7
27.5°	961.1	992.0	1000.3	1019.9	1086.4	1121.4	1094.1	1078.7	1059.1	1039.5	1019.9
30°	925.5	919.6	905.9	907.7	961.1	996.1	994.4	997.9	996.1	990.2	986.6
32.5°	845.4	833.5	821.6	833.5	882.2	913.6	916.0	923.7	923.7	921.9	937.4
35°	704.1	725.4	739.1	774.7	833.5	860.8	848.9	829.3	794.3	772.3	770.6
37.5°	651.2	654.8	678.5	727.2	792.5	817.5	800.2	755.1	731.4	727.2	733.2
40°	625.7	629.3	642.9	688.0	752.8	778.3	762.8	729.6	707.6	705.9	715.9
42.5°	607.9	612.1	619.8	651.2	704.1	735.5	737.3	713.6	688.0	690.4	699.9
45°	597.8	600.2	597.8	613.8	662.5	699.9	715.9	699.9	678.5	682.7	694.0
47.5°	596.0	590.1	582.4	586.5	637.6	674.4	694.0	688.0	678.5	682.7	692.2
50°	588.3	574.7	564.6	562.8	613.8	653.0	670.8	670.8	674.4	682.7	692.2
52.5°	564.6	549.1	549.1	543.2	597.8	635.2	647.1	648.9	654.8	668.5	682.7
55°	535.5	529.5	535.5	525.4	586.5	621.6	627.5	631.6	635.2	647.1	666.7
57.5°	509.9	502.2	515.9	511.7	576.4	607.9	607.9	615.6	615.6	631.6	647.1
60°	496.3	480.3	486.2	490.4	562.8	596.0	592.5	600.2	603.7	618.0	629.3
62.5°	478.5	464.8	464.8	474.3	547.3	578.2	576.4	582.4	597.8	602.0	613.8
65°	457.1	451.2	445.2	457.1	531.3	558.6	561.0	568.7	582.4	586.5	596.0
67.5°	435.1	437.5	425.6	437.5	517.7	539.0	539.0	555.1	561.0	568.7	578.2
70°	412.0	413.8	403.7	417.9	508.2	517.7	515.9	537.3	541.4	547.3	556.8
72.5°	382.3	382.3	378.7	398.3	492.1	496.3	492.1	509.9	511.7	517.7	521.8
75°	350.8	350.8	347.3	374.6	482.6	472.5	460.7	474.3	478.5	482.6	482.6
77.5°	309.9	314.0	314.0	347.3	448.8	463.0	423.3	431.6	437.5	439.3	433.4
80°	258.8	268.9	272.5	315.8	376.4	427.4	378.7	384.1	386.5	386.5	378.7
82.5°	198.3	215.5	225.6	272.5	288.5	358.6	329.5	335.4	329.5	317.6	314.0
85°	137.1	160.9	172.8	207.8	217.9	276.6	274.3	274.3	263.0	247.0	245.2
87.5°	74.8	88.5	96.2	123.5	149.0	186.4	201.8	195.9	186.4	176.3	178.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3
2.5°	10812.8	11079.3	11505.0	11830.3	12158.0	12473.8	12815.2	13075.8	13297.2	13383.9	13646.3
5°	8695.2	9028.3	9430.2	10155.6	10669.7	11236.0	11891.4	12758.2	13091.2	13552.5	14307.0
7.5°	6147.9	6449.4	7096.5	7683.0	8410.9	9212.9	10096.8	11293.0	11730.6	12469.7	13699.1
10°	4590.7	4941.6	5461.0	5955.5	6596.7	7416.5	8432.2	9769.7	10301.0	11103.1	12518.9
12.5°	3698.5	4112.2	4663.1	5128.0	5624.3	6202.5	7189.1	8655.4	9367.8	10069.5	11500.8
15°	2841.2	3274.6	3786.9	4377.0	4923.7	5547.7	6581.2	8185.3	9004.5	9736.5	10957.6
17.5°	1966.8	2337.2	2982.5	3598.1	4298.6	5096.5	6412.6	8285.0	9263.3	10106.9	11052.0
20°	1394.5	1605.8	2135.4	2849.5	3722.2	4723.7	6381.2	8810.4	10083.2	11046.1	11655.8
22.5°	1172.5	1250.8	1558.9	2213.7	3221.7	4445.3	6491.0	9547.7	11189.2	12418.6	12618.7
25°	1068.6	1116.1	1276.4	1737.6	2776.5	4243.4	6861.4	10646.0	12558.1	13791.7	13756.1
27.5°	1011.6	1060.9	1166.5	1466.9	2441.7	4118.2	7231.9	11948.4	14123.0	15281.8	14842.5
30°	994.4	1060.9	1172.5	1382.6	2202.4	3919.9	7535.8	13091.2	15326.9	16288.0	15337.0
32.5°	980.7	990.2	1041.3	1192.1	1974.5	3688.4	7741.8	14117.0	16505.3	17245.0	16048.8
35°	792.5	841.2	923.7	1068.6	1841.5	3549.4	7741.8	15001.6	17666.5	18211.5	16727.3
37.5°	762.8	806.2	878.6	1002.1	1766.7	3480.6	7586.9	15854.7	18852.6	19307.9	17286.0
40°	747.4	782.4	851.3	951.0	1735.2	3402.2	7361.3	16607.4	20011.4	20405.6	17807.8
42.5°	735.5	767.0	831.7	919.6	1694.3	3316.1	7179.0	17211.2	21017.7	21343.0	18305.9
45°	729.6	762.8	833.5	935.6	1611.8	3202.2	7118.5	17864.2	21845.2	22125.4	18844.9
47.5°	729.6	768.8	843.0	968.8	1513.8	3084.6	7308.4	18725.6	22627.6	22764.8	19480.1
50°	723.7	767.0	870.9	935.6	1370.7	2935.6	7755.5	19809.6	23474.8	23490.2	20284.5
52.5°	711.8	762.8	937.4	916.0	1205.7	2739.7	8359.8	21202.3	24728.0	24821.8	21543.0
55°	698.1	756.9	919.6	870.9	1070.9	2506.4	8853.7	22894.2	26488.7	26749.4	23394.6
57.5°	680.3	749.2	890.5	808.0	982.5	2206.0	9032.4	24133.7	27718.2	28373.0	25480.7
60°	664.9	743.3	803.8	770.6	927.3	1953.1	8686.9	23888.6	27633.9	29045.6	27330.0
62.5°	648.9	749.2	733.2	747.4	901.8	1790.5	7785.2	21925.3	26235.9	28351.6	28700.7
65°	631.6	696.4	692.2	727.2	896.4	1725.7	6453.6	18982.0	23533.5	26157.5	29024.2
67.5°	607.9	642.9	662.5	702.3	916.0	1668.8	5208.1	15658.2	19778.1	22868.7	27337.7
70°	582.4	612.1	633.4	670.8	904.1	1643.2	4331.9	12348.0	15693.8	18742.8	24010.3
72.5°	549.1	574.7	594.2	629.3	892.3	1629.6	3659.3	9944.3	11716.9	13922.9	19521.6
75°	509.9	533.1	547.3	582.4	854.9	1492.4	2876.8	8414.4	8767.6	9685.4	15548.3
77.5°	464.8	482.6	493.9	533.1	756.9	1241.3	2080.7	6491.0	6808.6	7031.8	11920.5
80°	412.0	429.2	435.1	472.5	627.5	970.6	1357.1	4794.3	5092.3	5143.4	7785.2
82.5°	350.8	368.7	368.7	403.7	513.5	698.1	890.5	3284.7	3343.4	3516.2	5502.6
85°	282.6	296.2	296.2	314.0	398.3	521.8	612.1	1649.2	1631.4	1862.9	4767.0
87.5°	201.8	211.9	221.4	225.6	284.4	344.9	368.7	502.2	331.3	380.5	3060.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GLNA-AF-07-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3	12052.3
2.5°	13844.6	13956.2	13842.2	13760.3	13405.3	13113.2	12722.6	12522.5
5°	14881.7	15166.0	15069.9	14724.9	13983.5	13150.0	12203.1	11775.7
7.5°	14756.4	15417.1	15432.6	14787.9	13695.5	12467.9	11185.6	10577.7
10°	13779.8	14624.6	14866.2	14240.5	13081.7	11709.2	10238.1	9544.1
12.5°	12689.3	13516.9	13701.5	13485.4	12517.2	11138.1	9646.3	8965.3
15°	11797.1	12168.1	12387.1	12575.9	12032.7	10910.7	9612.4	8865.6
17.5°	11253.9	11212.9	11275.8	11602.9	11694.9	11171.3	10122.4	9299.0
20°	11058.0	10428.7	10412.7	10863.8	11536.4	11793.5	11118.5	10130.1
22.5°	11166.0	10146.1	10016.7	10552.2	11620.7	12689.3	12424.5	11297.2
25°	11538.2	10169.9	10065.4	10583.6	11926.5	13644.5	13834.5	12806.9
27.5°	12124.7	10318.9	10181.1	10713.0	12332.5	14446.5	15223.0	14270.2
30°	12681.6	10577.7	10406.7	10967.7	12703.0	14764.1	16074.3	15411.2
32.5°	13358.4	11062.1	10761.7	11436.1	13161.9	15269.9	16833.0	16356.3
35°	14020.9	11751.9	11379.7	12159.8	13673.6	15899.8	17699.7	17564.4
37.5°	14748.7	12654.3	12346.2	13095.4	14374.1	16493.4	18805.7	18980.2
40°	15525.2	13850.5	13485.4	14460.2	15460.5	17239.1	19961.0	20380.1
42.5°	16307.6	15177.9	14742.8	15730.6	16654.3	17974.0	20948.8	21570.9
45°	17203.4	16619.3	16413.3	17481.9	17801.8	18674.5	21678.4	22451.3
47.5°	18247.1	18254.8	18586.1	19013.5	18958.9	19466.4	22412.1	23237.3
50°	19464.7	20295.8	21027.7	21311.5	20150.9	20317.7	23429.7	24290.5
52.5°	20927.4	22737.5	23643.4	23457.0	21435.6	21356.6	25041.4	25741.3
55°	22757.1	25322.2	26222.2	26088.6	22912.0	22772.5	27049.7	27457.6
57.5°	24874.6	27826.2	28653.8	28053.6	24684.6	24326.1	28710.8	28796.9
60°	26735.7	29810.8	30536.3	29871.4	26473.3	25978.8	29747.9	29330.0
62.5°	27771.0	30483.4	30993.4	30277.4	27698.6	27739.6	29975.3	29042.0
65°	27308.6	28783.2	28947.7	28888.9	27382.8	28761.2	29157.8	27710.5
67.5°	24774.9	24484.6	24761.2	25143.5	24676.9	27416.0	26892.4	24809.9
70°	20311.8	18717.3	19268.8	19525.2	19737.1	23592.3	23341.2	20207.9
72.5°	15307.3	13113.2	13548.3	13495.5	14475.6	18923.2	18152.7	14858.5
75°	10846.0	8891.1	8945.7	8924.4	10101.0	14805.1	13144.6	10165.7
77.5°	7588.7	6441.7	6471.4	6592.5	6790.8	11166.0	9391.0	7426.0
80°	5218.2	4888.7	5051.4	5061.5	4706.5	7500.8	6938.0	5959.7
82.5°	3886.6	3398.1	3358.9	3415.9	3688.4	6077.2	5331.6	4133.6
85°	3182.6	2011.9	1617.7	2027.9	3268.6	6018.4	3541.7	2180.5
87.5°	1792.2	955.2	431.6	800.2	1304.3	3984.6	1023.5	278.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)