

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: P299425

Luminaire Tested: **GLNA-AF-06-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299425
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-06-LED-E1-SLR-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21889 lumens
Efficiency: N/A
Efficacy: 87.9 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 - G4

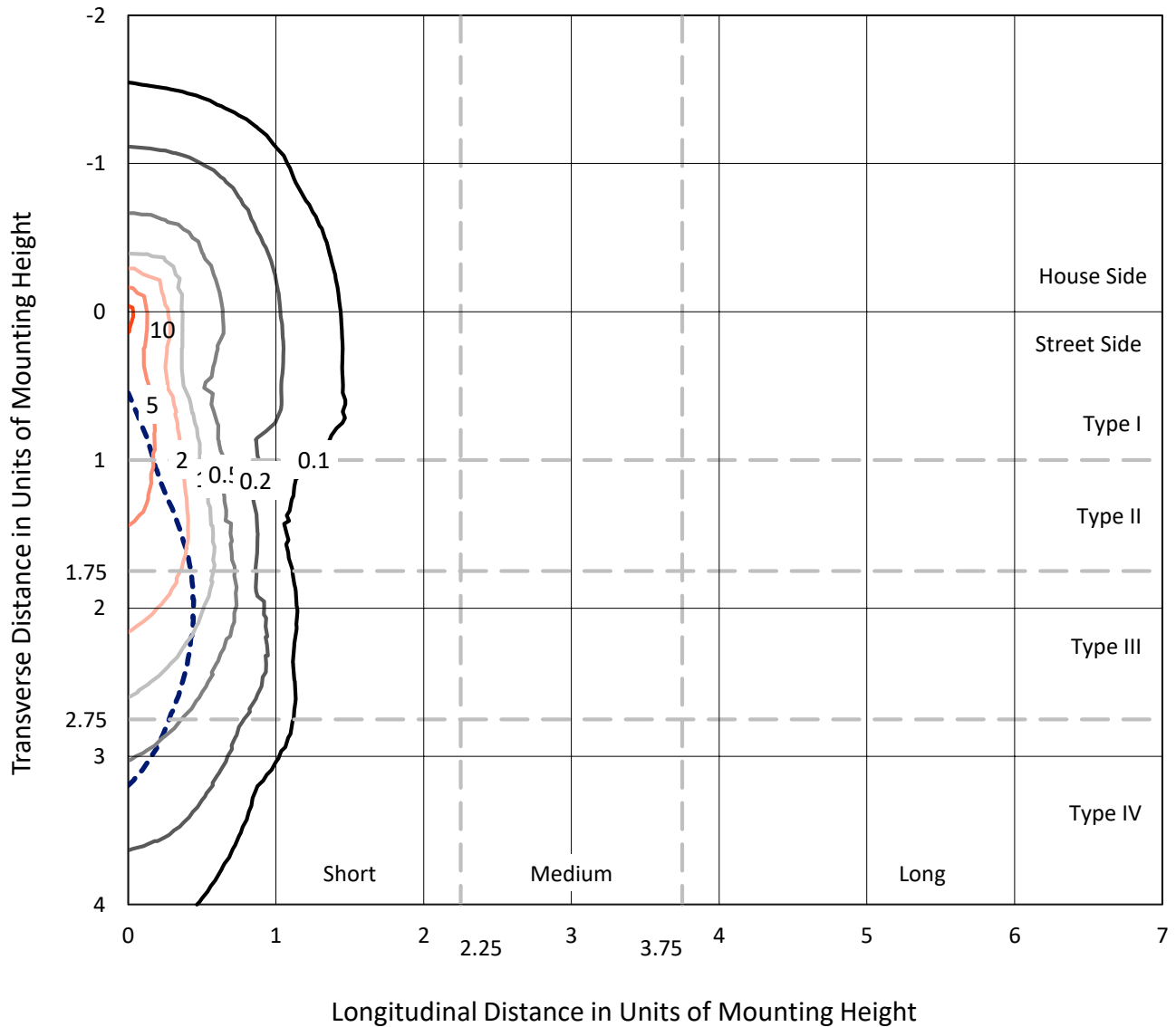
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

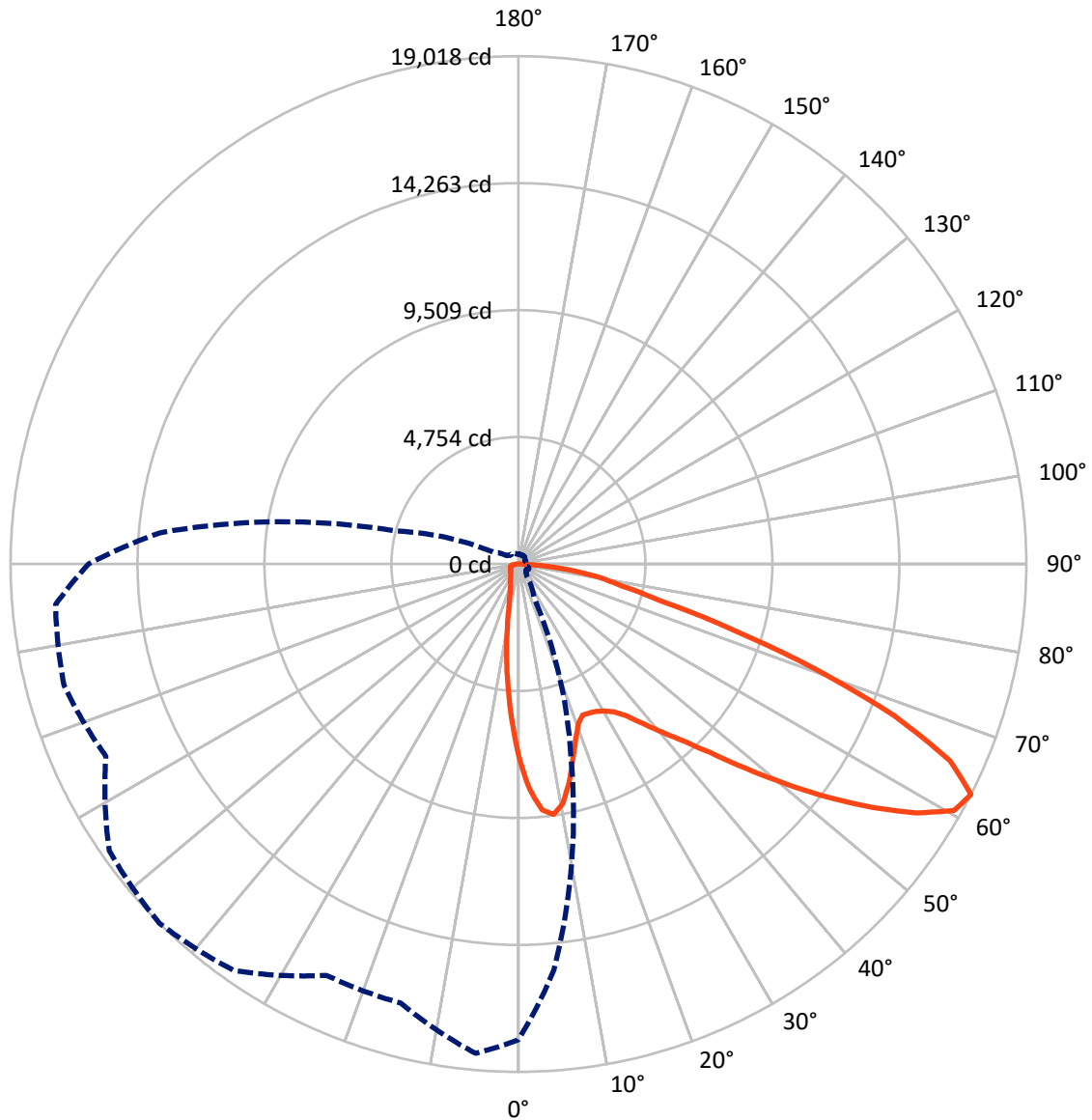
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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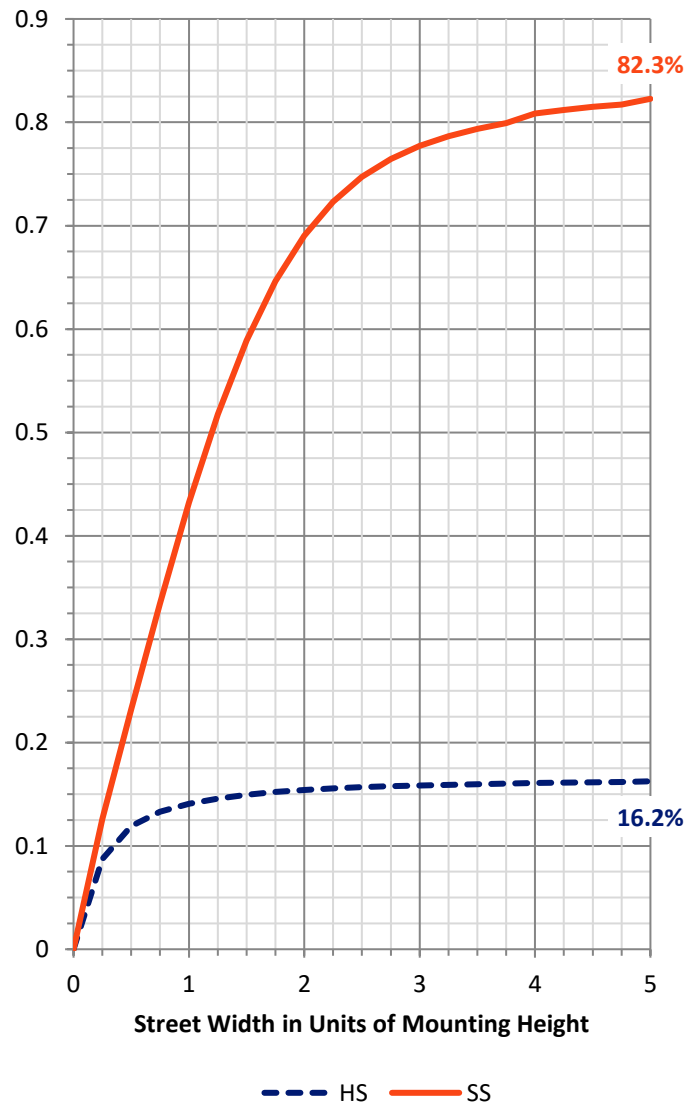
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3622.3	0.0	3622.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18266.7	0.0	18266.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	21889.0	0.0	21889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.3	2.5
10°-20°	987.2	4.5
20°-30°	1439.3	6.6
30°-40°	2216.7	10.1
40°-50°	3262.4	14.9
50°-60°	4785.3	21.9
60°-70°	5349.3	24.4
70°-80°	2619.0	12.0
80°-90°	691.5	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°	21889.0	100.0
0°-180°	21889.0	100.0

Coefficient of Utilization



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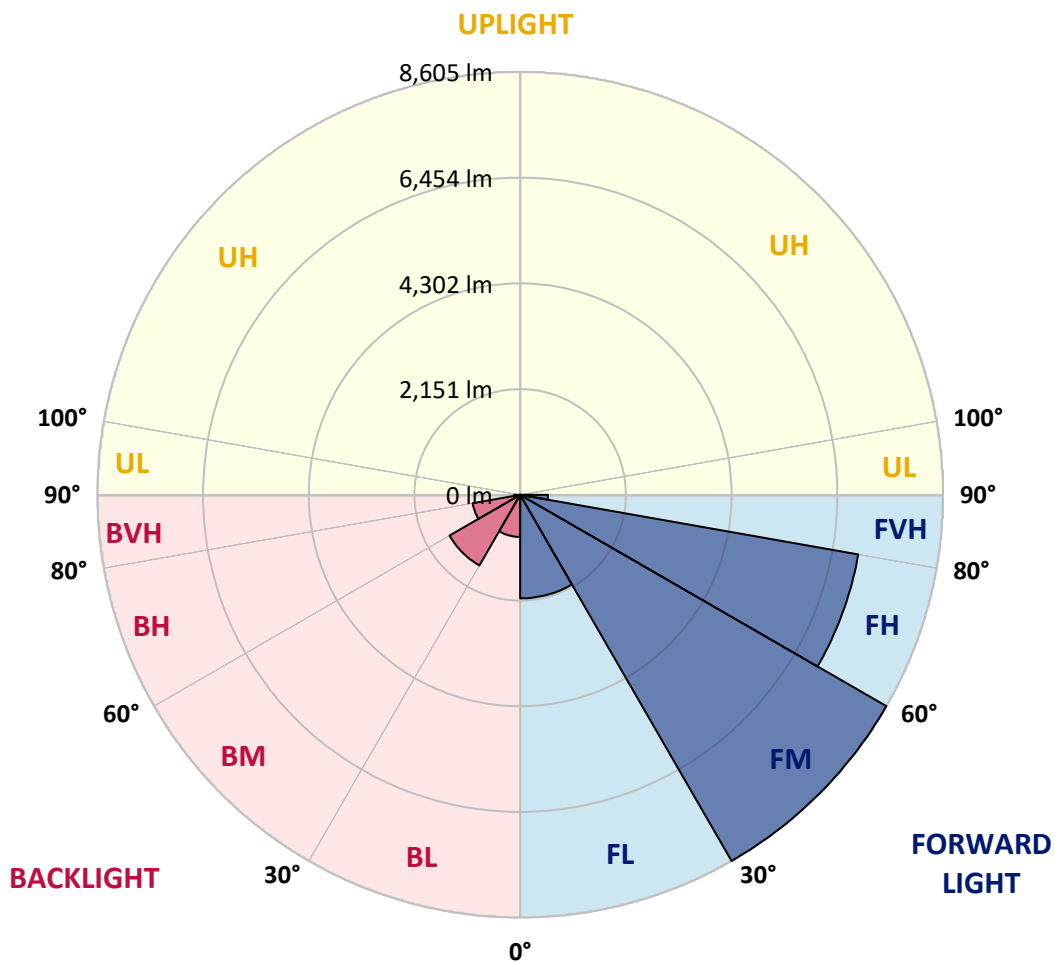
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.8	9.6			
FM (30°-60°)	8604.8	39.3			
FH (60°-80°)	6986.2	31.9			G3/7500
FVH (80°-90°)	567.9	2.6			G4/750
BL (0°-30°)	857.0	3.9	B2/1000		
BM (30°-60°)	1659.7	7.6	B2/2500		
BH (60°-80°)	982.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	123.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4
2.5°	7683.9	7527.6	7267.6	6996.9	6832.2	6639.5	6489.1	6356.9	6092.1	6040.3	6087.3
5°	7225.7	6911.7	6421.7	5928.5	5599.9	5247.3	4973.0	4753.0	4417.1	4358.1	4429.2
7.5°	6490.6	6115.0	5467.7	4838.2	4373.8	3933.4	3637.6	3401.6	3139.3	3026.4	3033.3
10°	5856.4	5432.7	4667.4	3982.9	3602.6	3305.4	3056.2	2814.3	2548.4	2373.9	2325.9
12.5°	5501.2	5014.2	4131.9	3520.7	3168.1	2855.5	2587.0	2328.4	2044.3	1866.2	1815.9
15°	5440.0	4910.4	3931.2	3224.9	2783.0	2387.4	2070.9	1782.0	1489.5	1345.2	1315.0
17.5°	5705.9	5095.8	3866.0	2961.2	2420.9	1932.5	1543.8	1221.4	983.2	911.0	904.8
20°	6215.9	5452.0	3857.6	2713.4	2063.6	1491.0	1075.7	841.1	736.6	715.8	717.2
22.5°	6932.1	6004.3	3961.1	2526.9	1735.0	1111.8	808.7	703.8	663.0	643.7	643.7
25°	7858.4	6764.9	4199.3	2391.1	1449.8	888.1	713.6	651.0	612.3	599.2	601.8
27.5°	8756.3	7504.7	4476.1	2284.0	1263.3	806.1	676.1	619.6	586.1	572.6	578.8
30°	9456.4	8161.8	4707.1	2138.3	1168.2	783.2	689.6	631.6	583.6	563.2	564.3
32.5°	10036.4	8737.0	4900.9	2033.4	1084.1	671.3	594.5	569.0	563.2	539.1	527.1
35°	10777.7	9363.9	5030.9	2035.9	1044.4	599.2	529.3	484.8	452.4	424.7	424.7
37.5°	11646.4	10083.4	5169.4	2063.6	1030.2	557.0	506.7	461.9	432.0	405.4	400.7
40°	12505.4	10788.6	5295.8	2090.2	1021.4	531.8	488.5	447.7	420.0	393.4	386.1
42.5°	13236.1	11368.5	5408.7	2103.3	992.6	529.3	475.4	437.9	411.6	382.5	375.6
45°	13776.3	11854.4	5530.3	2123.7	963.9	539.1	475.4	436.8	404.3	376.7	369.4
47.5°	14258.6	12424.9	5733.6	2123.7	928.9	520.9	491.0	437.9	403.2	374.1	368.3
50°	14904.8	13207.0	6118.6	2074.5	879.7	501.6	517.3	433.1	392.3	369.4	362.1
52.5°	15795.1	14209.4	6729.9	1988.9	803.9	464.4	513.6	430.9	381.4	357.3	349.0
55°	16848.2	15282.6	7396.5	1889.1	690.7	437.9	495.8	424.7	369.4	342.8	334.4
57.5°	17670.0	16021.3	7865.7	1735.0	591.9	423.6	439.3	418.9	354.8	327.1	320.2
60°	17997.1	15992.5	7994.6	1529.2	543.9	411.6	383.9	469.2	342.8	315.1	306.7
62.5°	17820.5	15253.8	7633.6	1385.0	532.9	396.0	359.9	434.2	333.3	306.7	294.7
65°	17003.4	13944.6	6677.1	1346.3	564.3	380.3	344.2	340.6	320.2	294.7	282.7
67.5°	15223.6	11988.1	5346.0	1350.0	604.0	364.6	328.6	311.8	302.0	281.6	270.7
70°	12399.7	9478.3	3985.1	1359.8	624.4	346.4	311.8	293.6	282.7	262.3	255.0
72.5°	9117.3	7305.1	2895.2	1297.2	628.0	326.0	288.9	273.2	262.3	240.8	234.6
75°	6237.8	5587.9	2008.2	1074.6	547.5	297.2	263.4	249.2	241.9	215.3	211.6
77.5°	4556.7	4194.6	1285.1	797.8	422.2	261.2	232.4	221.5	216.7	187.6	182.9
80°	3656.9	3318.5	803.9	546.4	309.3	218.9	194.9	189.1	184.0	155.2	151.5
82.5°	2536.4	2222.4	516.2	354.8	232.4	169.7	154.1	151.5	144.3	118.0	114.4
85°	1338.0	1206.8	327.1	241.9	168.3	116.6	107.1	107.1	103.5	78.3	75.8
87.5°	170.8	277.9	166.1	126.4	92.5	51.7	51.7	50.6	54.3	44.4	38.6
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°	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4
2.5°	5976.6	6034.5	5979.1	5982.8	6044.0	6226.8	6309.9	6378.4	6451.9	6500.0	6521.5
5°	4331.9	4466.7	4512.2	4608.4	4750.4	4983.9	5076.5	5143.9	5188.7	5214.9	5225.8
7.5°	2962.6	3044.2	3135.6	3290.8	3600.1	3737.4	3798.6	3782.9	3732.7	3714.5	3696.6
10°	2233.3	2200.9	2183.8	2269.4	2519.7	2658.1	2701.4	2659.2	2631.5	2637.7	2667.5
12.5°	1730.3	1673.8	1605.3	1595.5	1760.5	1884.4	1912.1	1914.2	1964.9	2009.3	2075.6
15°	1261.1	1254.9	1221.4	1201.0	1294.6	1395.9	1407.9	1429.4	1475.3	1507.7	1565.3
17.5°	889.2	921.6	948.2	961.3	1032.3	1104.5	1091.4	1080.4	1072.0	1072.0	1099.7
20°	717.2	738.7	772.6	810.9	883.4	933.6	901.2	857.9	826.5	817.1	820.7
22.5°	646.2	663.0	682.3	715.8	781.0	816.0	781.0	749.7	718.3	707.4	703.8
25°	610.2	631.6	649.9	675.0	723.1	747.1	713.6	690.7	671.3	658.2	648.4
27.5°	589.8	608.7	613.8	625.8	666.6	688.1	671.3	661.9	649.9	637.8	625.8
30°	567.9	564.3	555.9	557.0	589.8	611.2	610.2	612.3	611.2	607.6	605.4
32.5°	518.7	511.4	504.1	511.4	541.3	560.6	562.1	566.8	566.8	565.7	575.2
35°	432.0	445.1	453.5	475.4	511.4	528.2	520.9	508.9	487.4	473.9	472.8
37.5°	399.6	401.8	416.4	446.2	486.3	501.6	491.0	463.4	448.8	446.2	449.9
40°	383.9	386.1	394.5	422.2	461.9	477.6	468.1	447.7	434.2	433.1	439.3
42.5°	373.0	375.6	380.3	399.6	432.0	451.3	452.4	437.9	422.2	423.6	429.5
45°	366.8	368.3	366.8	376.7	406.5	429.5	439.3	429.5	416.4	418.9	425.8
47.5°	365.7	362.1	357.3	359.9	391.2	413.8	425.8	422.2	416.4	418.9	424.7
50°	361.0	352.6	346.4	345.3	376.7	400.7	411.6	411.6	413.8	418.9	424.7
52.5°	346.4	336.9	336.9	333.3	366.8	389.8	397.1	398.1	401.8	410.2	418.9
55°	328.6	324.9	328.6	322.4	359.9	381.4	385.0	387.6	389.8	397.1	409.1
57.5°	312.9	308.2	316.6	314.0	353.7	373.0	373.0	377.7	377.7	387.6	397.1
60°	304.5	294.7	298.3	300.9	345.3	365.7	363.5	368.3	370.5	379.2	386.1
62.5°	293.6	285.2	285.2	291.1	335.9	354.8	353.7	357.3	366.8	369.4	376.7
65°	280.5	276.8	273.2	280.5	326.0	342.8	344.2	349.0	357.3	359.9	365.7
67.5°	267.0	268.5	261.2	268.5	317.6	330.8	330.8	340.6	344.2	349.0	354.8
70°	252.8	253.9	247.7	256.4	311.8	317.6	316.6	329.7	332.2	335.9	341.7
72.5°	234.6	234.6	232.4	244.4	302.0	304.5	302.0	312.9	314.0	317.6	320.2
75°	215.3	215.3	213.1	229.9	296.2	290.0	282.7	291.1	293.6	296.2	296.2
77.5°	190.1	192.7	192.7	213.1	275.4	284.1	259.7	264.8	268.5	269.6	265.9
80°	158.8	165.0	167.2	193.8	230.9	262.3	232.4	235.7	237.1	237.1	232.4
82.5°	121.7	132.2	138.4	167.2	177.0	220.0	202.2	205.8	202.2	194.9	192.7
85°	84.1	98.7	106.0	127.5	133.7	169.7	168.3	168.3	161.4	151.5	150.4
87.5°	45.9	54.3	59.0	75.8	91.4	114.4	123.9	120.2	114.4	108.2	109.6
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°	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4
2.5°	6634.8	6798.4	7059.6	7259.2	7460.2	7654.0	7863.5	8023.4	8159.3	8212.5	8373.5
5°	5335.5	5539.8	5786.4	6231.6	6547.0	6894.5	7296.7	7828.5	8032.9	8315.9	8778.9
7.5°	3772.4	3957.4	4354.5	4714.4	5161.0	5653.1	6195.5	6929.5	7198.0	7651.5	8405.9
10°	2816.9	3032.2	3350.9	3654.4	4047.8	4550.8	5174.1	5994.8	6320.8	6812.9	7681.7
12.5°	2269.4	2523.3	2861.3	3146.6	3451.1	3805.9	4411.3	5311.1	5748.2	6178.7	7057.0
15°	1743.4	2009.3	2323.7	2685.8	3021.3	3404.1	4038.3	5022.6	5525.2	5974.4	6723.7
17.5°	1206.8	1434.1	1830.1	2207.8	2637.7	3127.3	3934.8	5083.8	5684.1	6201.7	6781.6
20°	855.7	985.4	1310.3	1748.5	2284.0	2898.5	3915.5	5406.1	6187.1	6778.0	7152.1
22.5°	719.4	767.5	956.6	1358.4	1976.9	2727.7	3982.9	5858.6	6865.8	7620.2	7742.9
25°	655.7	684.8	783.2	1066.2	1703.7	2603.8	4210.2	6532.5	7705.8	8462.7	8440.9
27.5°	620.7	651.0	715.8	900.1	1498.2	2526.9	4437.5	7331.7	8666.0	9377.0	9107.5
30°	610.2	651.0	719.4	848.4	1351.4	2405.3	4624.0	8032.9	9404.7	9994.5	9410.9
32.5°	601.8	607.6	638.9	731.5	1211.6	2263.2	4750.4	8662.3	10127.8	10581.7	9847.7
35°	486.3	516.2	566.8	655.7	1130.0	2178.0	4750.4	9205.1	10840.3	11174.7	10264.0
37.5°	468.1	494.7	539.1	614.9	1084.1	2135.7	4655.4	9728.6	11568.1	11847.5	10606.8
40°	458.6	480.1	522.4	583.6	1064.8	2087.6	4516.9	10190.5	12279.2	12521.1	10927.0
42.5°	451.3	470.6	510.3	564.3	1039.6	2034.8	4405.1	10560.9	12896.6	13096.2	11232.6
45°	447.7	468.1	511.4	574.1	989.0	1964.9	4368.0	10961.6	13404.4	13576.3	11563.4
47.5°	447.7	471.7	517.3	594.5	928.9	1892.7	4484.5	11490.2	13884.5	13968.7	11953.2
50°	444.0	470.6	534.4	574.1	841.1	1801.3	4758.8	12155.3	14404.3	14413.8	12446.7
52.5°	436.8	468.1	575.2	562.1	739.8	1681.1	5129.6	13009.9	15173.3	15230.9	13219.0
55°	428.4	464.4	564.3	534.4	657.1	1537.9	5432.7	14048.1	16253.7	16413.6	14355.2
57.5°	417.5	459.7	546.4	495.8	602.9	1353.6	5542.4	14808.7	17008.1	17409.9	15635.2
60°	408.0	456.1	493.2	472.8	569.0	1198.4	5330.4	14658.2	16956.4	17822.6	16769.9
62.5°	398.1	459.7	449.9	458.6	553.3	1098.6	4777.0	13453.6	16098.5	17396.8	17611.0
65°	387.6	427.3	424.7	446.2	550.0	1058.9	3960.0	11647.5	14440.4	16050.5	17809.5
67.5°	373.0	394.5	406.5	430.9	562.1	1024.0	3195.7	9608.0	12136.0	14032.4	16774.6
70°	357.3	375.6	388.7	411.6	554.8	1008.3	2658.1	7576.8	9629.8	11500.7	14732.9
72.5°	336.9	352.6	364.6	386.1	547.5	999.9	2245.4	6101.9	7189.6	8543.2	11978.7
75°	312.9	327.1	335.9	357.3	524.5	915.8	1765.3	5163.2	5379.9	5943.1	9540.6
77.5°	285.2	296.2	303.1	327.1	464.4	761.7	1276.8	3982.9	4177.8	4314.8	7314.5
80°	252.8	263.4	267.0	290.0	385.0	595.6	832.7	2941.8	3124.7	3156.0	4777.0
82.5°	215.3	226.2	226.2	247.7	315.1	428.4	546.4	2015.5	2051.6	2157.6	3376.4
85°	173.4	181.8	181.8	192.7	244.4	320.2	375.6	1011.9	1001.0	1143.1	2925.1
87.5°	123.9	130.0	135.9	138.4	174.5	211.6	226.2	308.2	203.3	233.5	1878.2
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-06-LED-E1-SLR-7027-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4	7395.4
2.5°	8495.1	8563.6	8493.7	8443.4	8225.6	8046.4	7806.7	7683.9
5°	9131.5	9306.0	9247.0	9035.4	8580.4	8068.9	7487.9	7225.7
7.5°	9054.7	9460.1	9469.6	9074.0	8403.7	7650.4	6863.6	6490.6
10°	8455.4	8973.8	9122.0	8738.1	8027.1	7184.9	6282.2	5856.4
12.5°	7786.3	8294.1	8407.4	8274.8	7680.6	6834.4	5919.0	5501.2
15°	7238.8	7466.4	7600.9	7716.7	7383.4	6694.9	5898.3	5440.0
17.5°	6905.5	6880.3	6918.9	7119.7	7176.1	6854.8	6211.2	5705.9
20°	6785.3	6399.1	6389.3	6666.1	7078.9	7236.6	6822.4	6215.9
22.5°	6851.6	6225.7	6146.3	6474.9	7130.6	7786.3	7623.8	6932.1
25°	7080.0	6240.3	6176.2	6494.2	7318.2	8372.4	8488.9	7858.4
27.5°	7439.8	6331.7	6247.2	6573.6	7567.3	8864.5	9341.0	8756.3
30°	7781.5	6490.6	6385.7	6729.9	7794.6	9059.4	9863.3	9456.4
32.5°	8196.8	6787.8	6603.5	7017.3	8076.2	9369.8	10328.9	10036.4
35°	8603.3	7211.1	6982.7	7461.3	8390.2	9756.2	10860.7	10777.7
37.5°	9049.9	7764.8	7575.7	8035.4	8820.1	10120.5	11539.3	11646.4
40°	9526.4	8498.8	8274.8	8872.9	9486.7	10578.0	12248.2	12505.4
42.5°	10006.5	9313.3	9046.3	9652.4	10219.2	11029.0	12854.4	13236.1
45°	10556.2	10197.7	10071.3	10727.0	10923.4	11458.8	13302.0	13776.3
47.5°	11196.6	11201.3	11404.6	11666.8	11633.3	11944.8	13752.3	14258.6
50°	11943.7	12453.7	12902.8	13076.9	12364.8	12467.1	14376.6	14904.8
52.5°	12841.2	13951.9	14507.8	14393.4	13153.1	13104.6	15365.6	15795.1
55°	13963.9	15537.9	16090.2	16008.2	14059.0	13973.4	16598.0	16848.2
57.5°	15263.3	17074.4	17582.2	17213.9	15146.7	14926.7	17617.2	17670.0
60°	16405.3	18292.2	18737.3	18329.3	16244.3	15940.8	18253.6	17997.1
62.5°	17040.5	18704.9	19017.8	18578.5	16996.1	17021.2	18393.1	17820.5
65°	16756.8	17661.6	17762.5	17726.5	16802.3	17648.2	17891.5	17003.4
67.5°	15202.1	15024.0	15193.7	15428.3	15142.0	16822.7	16501.4	15223.6
70°	12463.5	11485.1	11823.5	11980.8	12110.9	14476.5	14322.4	12399.7
72.5°	9392.7	8046.4	8313.4	8280.9	8882.4	11611.5	11138.6	9117.3
75°	6655.2	5455.7	5489.2	5476.1	6198.1	9084.5	8065.7	6237.8
77.5°	4656.5	3952.7	3970.9	4045.2	4166.9	6851.6	5762.4	4556.7
80°	3201.9	2999.8	3099.6	3105.8	2887.9	4602.6	4257.2	3656.9
82.5°	2384.9	2085.1	2061.0	2096.0	2263.2	3729.0	3271.5	2536.4
85°	1952.9	1234.5	992.6	1244.3	2005.7	3693.0	2173.2	1338.0
87.5°	1099.7	586.1	264.8	491.0	800.3	2445.0	628.0	170.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)