

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: P193857

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SLR-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25143 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 290
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

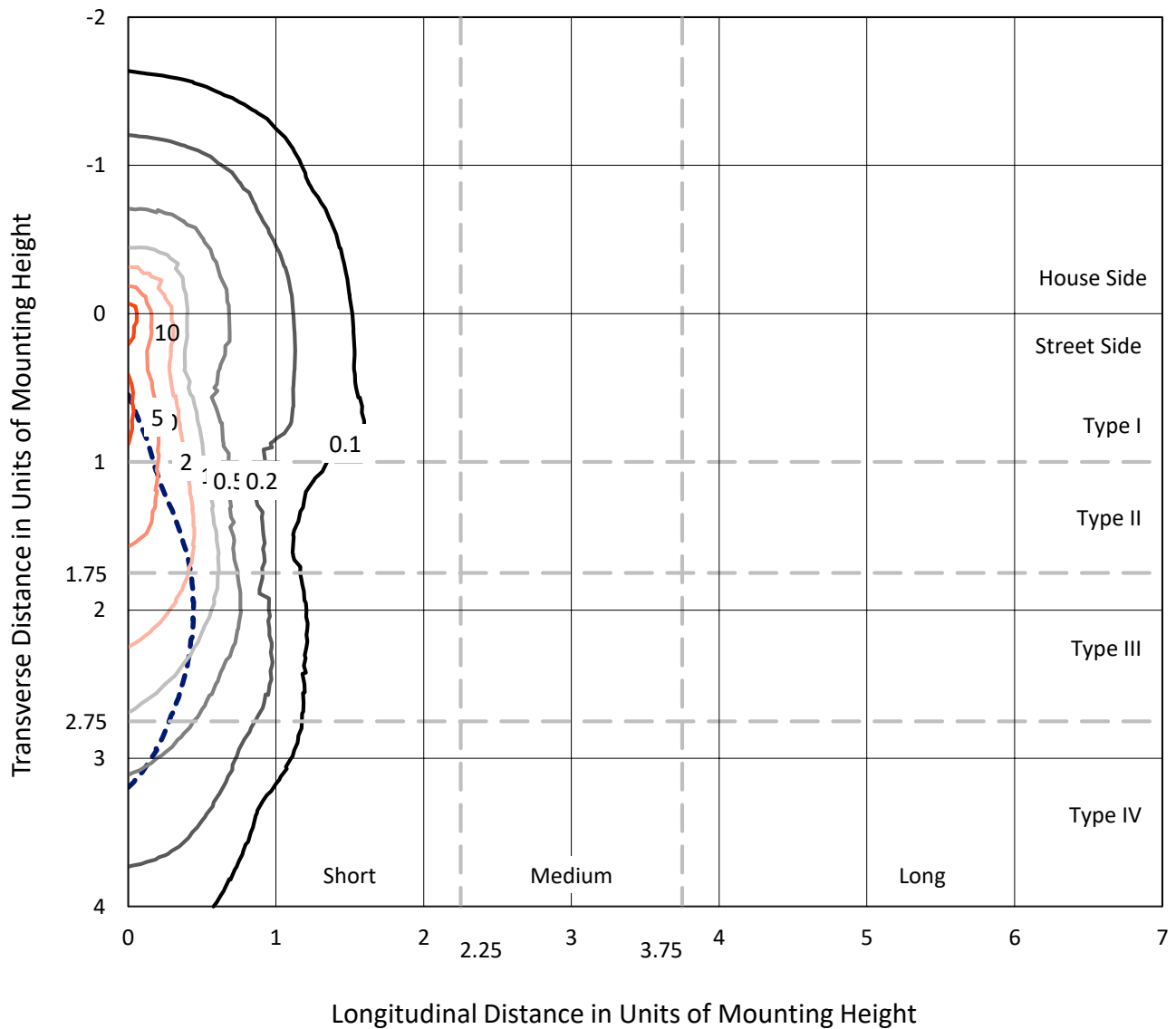


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Iso-Footcandle Lines of Horizontal Illumination

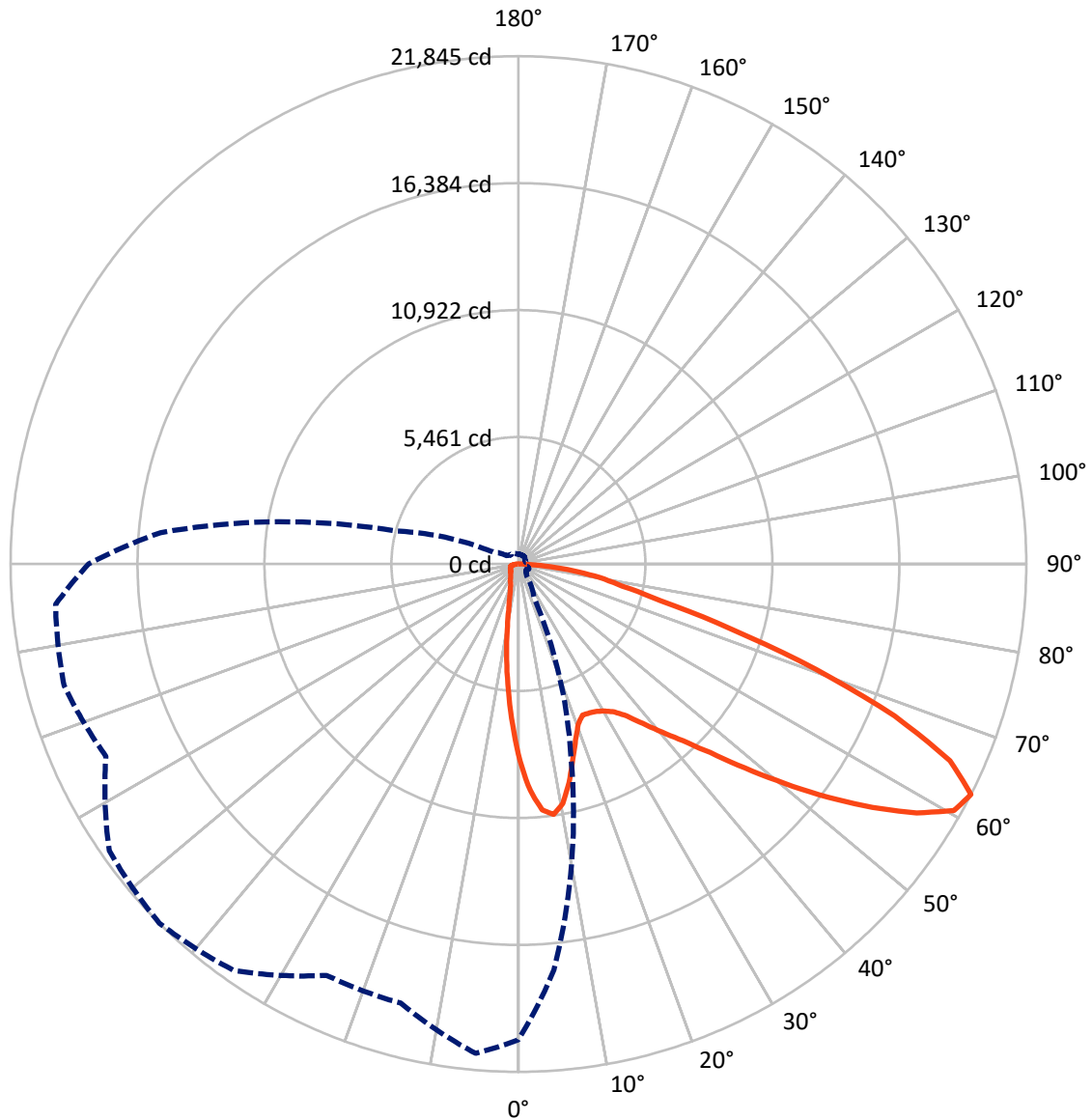
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	4160.8	0.0	4160.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20982.2	0.0	20982.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	25143.0	0.0	25143.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.4	2.5
10°-20°	1133.9	4.5
20°-30°	1653.3	6.6
30°-40°	2546.3	10.1
40°-50°	3747.4	14.9
50°-60°	5496.7	21.9
60°-70°	6144.5	24.4
70°-80°	3008.3	12.0
80°-90°	794.3	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°	25143.0	100.0
0°-180°	25143.0	100.0



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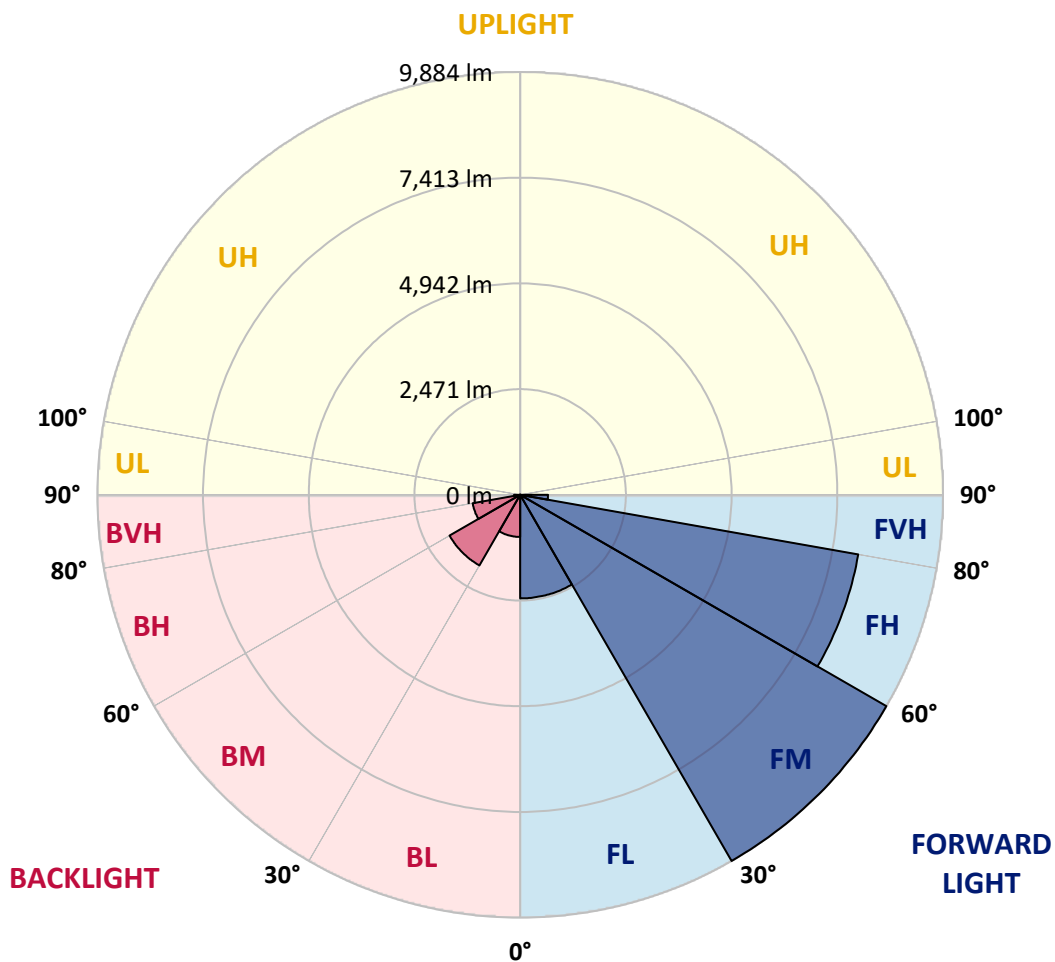
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2421.2	9.6			
FM	(30°-60°)	9883.9	39.3			
FH	(60°-80°)	8024.8	31.9			G4/12000
FVH	(80°-90°)	652.3	2.6			G4/750
BL	(0°-30°)	984.4	3.9	B2/1000		
BM	(30°-60°)	1906.5	7.6	B2/2500		
BH	(60°-80°)	1128.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	142.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7
2.5°	8826.4	8646.7	8348.2	8037.2	7847.8	7626.7	7453.9	7301.9	6997.8	6938.4	6992.3
5°	8299.8	7939.0	7376.5	6809.8	6432.5	6027.5	5712.4	5459.5	5073.9	5006.1	5087.7
7.5°	7455.3	7024.1	6280.5	5557.6	5024.1	4518.2	4178.2	3907.3	3606.0	3476.1	3484.4
10°	6726.9	6240.4	5361.3	4574.9	4138.1	3796.8	3510.6	3232.8	2927.4	2727.0	2671.7
12.5°	6319.2	5759.4	4746.3	4044.2	3639.2	3279.8	2971.6	2674.4	2348.3	2143.7	2085.7
15°	6248.7	5640.5	4515.5	3704.1	3196.9	2742.2	2378.7	2047.0	1711.1	1545.2	1510.7
17.5°	6554.1	5853.4	4440.8	3401.5	2780.9	2219.7	1773.3	1402.9	1129.2	1046.3	1039.4
20°	7140.2	6262.5	4431.2	3116.7	2370.4	1712.5	1235.6	966.1	845.9	822.4	823.8
22.5°	7962.5	6896.9	4550.0	2902.5	1993.1	1277.1	928.8	808.6	761.6	739.4	739.4
25°	9026.8	7770.4	4823.7	2746.3	1665.5	1020.0	819.6	747.7	703.5	688.3	691.1
27.5°	10057.9	8620.4	5141.6	2623.3	1451.3	926.0	776.8	711.8	673.1	657.9	664.8
30°	10862.3	9375.1	5406.9	2456.1	1342.1	899.8	792.0	725.6	670.3	646.8	648.2
32.5°	11528.5	10035.8	5629.5	2335.8	1245.3	771.2	682.8	653.8	646.8	619.2	605.4
35°	12379.9	10755.8	5778.7	2338.6	1199.7	688.3	608.1	557.0	519.7	487.9	487.9
37.5°	13377.8	11582.4	5937.7	2370.4	1183.1	639.9	581.9	530.7	496.2	465.8	460.3
40°	14364.6	12392.3	6082.8	2400.8	1173.4	610.9	561.2	514.2	482.4	452.0	443.7
42.5°	15203.6	13058.5	6212.7	2416.0	1140.3	608.1	545.9	503.1	472.7	439.5	431.2
45°	15824.2	13616.9	6352.3	2439.5	1107.1	619.2	545.9	501.7	464.4	432.6	424.3
47.5°	16378.4	14272.0	6585.9	2439.5	1067.0	598.5	563.9	503.1	463.0	429.8	422.9
50°	17120.6	15170.4	7028.2	2382.8	1010.3	576.4	594.3	497.6	450.6	424.3	416.0
52.5°	18143.4	16321.7	7730.3	2284.7	923.3	533.5	590.2	494.8	438.1	410.5	400.8
55°	19352.8	17554.6	8496.0	2170.0	793.4	503.1	569.4	487.9	424.3	393.9	384.2
57.5°	20296.8	18403.3	9035.1	1993.1	680.0	486.5	504.5	481.0	407.7	375.9	367.7
60°	20672.7	18370.1	9183.0	1756.7	624.7	472.7	440.9	539.0	393.9	362.1	352.4
62.5°	20469.6	17521.4	8768.3	1590.8	612.3	454.7	413.3	499.0	382.9	352.4	338.6
65°	19531.1	16017.7	7669.5	1546.6	648.2	436.8	395.3	391.1	367.7	338.6	324.8
67.5°	17486.9	13770.3	6140.9	1550.8	693.8	418.8	377.3	358.0	346.9	323.4	311.0
70°	14243.0	10887.2	4577.7	1561.8	717.3	398.1	358.0	337.2	324.8	301.3	293.0
72.5°	10472.5	8391.0	3325.4	1490.0	721.5	374.6	331.7	313.7	301.3	276.4	269.5
75°	7165.0	6418.7	2306.8	1234.3	628.9	341.4	302.7	286.1	277.8	247.4	243.3
77.5°	5234.2	4818.2	1476.1	916.4	485.1	299.9	266.8	254.3	248.8	215.6	210.1
80°	4200.3	3812.0	923.3	627.5	355.2	251.6	223.9	217.0	211.5	178.3	174.2
82.5°	2913.6	2552.8	592.9	407.7	266.8	194.9	176.9	174.2	165.9	135.5	131.3
85°	1536.9	1386.3	375.9	277.8	193.5	134.1	123.0	123.0	118.9	89.8	87.1
87.5°	196.3	319.3	190.7	145.1	106.4	59.4	59.4	58.1	62.2	51.1	44.2
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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7
2.5°	6865.1	6931.5	6867.9	6872.0	6942.5	7152.6	7248.0	7326.7	7411.1	7466.3	7491.2
5°	4975.7	5130.5	5183.0	5293.6	5456.7	5724.8	5831.3	5908.7	5959.8	5990.2	6002.7
7.5°	3402.8	3496.8	3601.9	3780.2	4135.4	4292.9	4363.4	4345.5	4287.4	4266.7	4245.9
10°	2565.3	2527.9	2508.6	2606.7	2894.2	3053.2	3102.9	3054.5	3022.7	3029.7	3064.2
12.5°	1987.5	1922.6	1843.8	1832.7	2022.1	2164.4	2196.2	2199.0	2257.0	2308.2	2384.2
15°	1448.5	1441.6	1402.9	1379.4	1487.2	1603.3	1617.1	1642.0	1694.5	1731.8	1798.2
17.5°	1021.4	1058.7	1089.1	1104.3	1185.9	1268.8	1253.6	1241.2	1231.5	1231.5	1263.3
20°	823.8	848.6	887.3	931.6	1014.5	1072.5	1035.2	985.5	949.5	938.5	942.6
22.5°	742.2	761.6	783.7	822.4	897.0	937.1	897.0	861.1	825.1	812.7	808.6
25°	700.7	725.6	746.4	775.4	830.7	858.3	819.6	793.4	771.2	756.0	745.0
27.5°	677.3	699.4	704.9	718.7	765.7	790.6	771.2	760.2	746.4	732.5	718.7
30°	652.4	648.2	638.6	639.9	677.3	702.1	700.7	703.5	702.1	698.0	695.2
32.5°	595.7	587.4	579.1	587.4	622.0	644.1	645.5	651.0	651.0	649.6	660.7
35°	496.2	511.4	521.1	545.9	587.4	606.8	598.5	584.6	559.8	544.6	543.2
37.5°	458.9	461.6	478.2	512.8	558.4	576.4	563.9	532.1	515.5	512.8	516.9
40°	440.9	443.7	453.3	485.1	530.7	548.7	537.7	514.2	499.0	497.6	504.5
42.5°	428.5	431.2	436.8	458.9	496.2	518.3	519.7	503.1	485.1	486.5	493.4
45°	421.6	422.9	421.6	432.6	467.2	493.4	504.5	493.4	478.2	481.0	489.3
47.5°	420.2	416.0	410.5	413.3	449.2	475.5	489.3	485.1	478.2	481.0	487.9
50°	414.6	405.0	398.1	396.7	432.6	460.3	472.7	472.7	475.5	481.0	487.9
52.5°	398.1	387.0	387.0	382.9	421.6	447.8	456.1	457.5	461.6	471.3	481.0
55°	377.3	373.2	377.3	370.4	413.3	438.1	442.3	445.1	447.8	456.1	469.9
57.5°	359.4	353.8	363.5	360.7	406.4	428.5	428.5	434.0	434.0	445.1	456.1
60°	349.7	338.6	342.8	345.5	396.7	420.2	417.4	422.9	425.7	435.4	443.7
62.5°	337.2	327.6	327.6	334.5	385.6	407.7	406.4	410.5	421.6	424.3	432.6
65°	322.0	317.9	313.7	322.0	374.6	393.9	395.3	400.8	410.5	413.3	420.2
67.5°	306.8	308.2	299.9	308.2	364.9	380.1	380.1	391.1	395.3	400.8	407.7
70°	290.3	291.6	284.7	294.4	358.0	364.9	363.5	378.7	381.5	385.6	392.5
72.5°	269.5	269.5	266.8	280.6	346.9	349.7	346.9	359.4	360.7	364.9	367.7
75°	247.4	247.4	244.6	264.0	340.0	333.1	324.8	334.5	337.2	340.0	340.0
77.5°	218.4	221.1	221.1	244.6	316.5	326.2	298.5	304.1	308.2	309.6	305.5
80°	182.4	189.4	192.1	222.5	265.4	301.3	266.8	270.9	272.3	272.3	266.8
82.5°	139.6	152.0	158.9	192.1	203.2	252.9	232.2	236.3	232.2	223.9	221.1
85°	96.8	113.3	121.6	146.5	153.4	194.9	193.5	193.5	185.2	174.2	172.8
87.5°	52.5	62.2	67.7	87.1	105.0	131.3	142.4	138.2	131.3	124.4	125.8
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°	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7
2.5°	7621.1	7809.1	8109.0	8338.5	8569.3	8791.8	9032.3	9216.1	9372.3	9433.1	9618.3
5°	6128.4	6363.4	6646.7	7158.1	7520.2	7919.7	8381.3	8992.2	9227.2	9552.0	10084.1
7.5°	4333.0	4545.9	5002.0	5415.2	5928.0	6493.3	7116.7	7959.8	8268.0	8789.1	9655.7
10°	3235.6	3483.0	3849.3	4197.6	4649.5	5227.3	5943.2	6885.8	7260.4	7825.7	8823.6
12.5°	2606.7	2898.4	3286.7	3614.3	3964.0	4371.7	5066.9	6100.8	6602.5	7097.3	8106.3
15°	2002.7	2308.2	2668.9	3084.9	3470.6	3910.1	4638.5	5769.1	6346.8	6862.3	7723.4
17.5°	1386.3	1647.5	2102.2	2536.2	3029.7	3592.2	4519.6	5839.6	6529.3	7123.6	7789.8
20°	982.7	1132.0	1505.2	2008.3	2623.3	3329.6	4497.5	6210.0	7107.0	7785.6	8215.5
22.5°	826.5	881.8	1098.8	1560.4	2270.9	3133.3	4574.9	6729.7	7886.5	8753.1	8894.1
25°	753.3	786.4	899.8	1224.6	1957.1	2991.0	4836.1	7503.7	8851.3	9720.6	9695.7
27.5°	713.2	747.7	822.4	1033.8	1720.8	2902.5	5097.3	8421.4	9954.2	10771.1	10461.5
30°	700.7	747.7	826.5	974.4	1552.1	2762.9	5311.6	9227.2	10802.8	11480.1	10809.8
32.5°	691.1	698.0	733.9	840.3	1391.8	2599.8	5456.7	9950.1	11633.5	12154.6	11311.5
35°	558.4	592.9	651.0	753.3	1297.8	2501.7	5456.7	10573.4	12451.7	12836.0	11789.7
37.5°	537.7	568.1	619.2	706.3	1245.3	2453.3	5347.5	11174.6	13287.9	13608.6	12183.6
40°	526.6	551.5	599.9	670.3	1223.2	2398.0	5188.6	11705.4	14104.8	14382.6	12551.3
42.5°	518.3	540.4	586.0	648.2	1194.2	2337.2	5060.0	12131.1	14813.8	15043.3	12902.3
45°	514.2	537.7	587.4	659.3	1136.1	2257.0	5017.2	12591.3	15397.1	15594.7	13282.4
47.5°	514.2	541.8	594.3	682.8	1067.0	2174.1	5151.3	13198.1	15948.6	16045.3	13730.2
50°	510.0	540.4	613.7	659.3	966.1	2069.1	5466.4	13962.4	16545.7	16556.7	14296.9
52.5°	501.7	537.7	660.7	645.5	850.0	1930.9	5892.1	14943.7	17428.8	17495.2	15184.2
55°	492.0	533.5	648.2	613.7	754.7	1766.4	6240.4	16136.5	18670.0	18853.8	16489.0
57.5°	479.6	528.0	627.5	569.4	692.5	1554.9	6366.2	17010.1	19536.6	19998.2	17959.6
60°	468.5	523.8	566.7	543.2	653.8	1376.6	6122.9	16837.3	19477.2	20472.3	19262.9
62.5°	457.5	528.0	516.9	526.6	635.8	1261.9	5487.1	15453.8	18491.7	19983.0	20229.1
65°	445.1	490.7	487.9	512.8	631.6	1216.3	4548.6	13379.2	16587.1	18436.4	20457.1
67.5°	428.5	453.3	467.2	494.8	645.5	1176.2	3671.0	11036.4	13940.3	16118.6	19268.5
70°	410.5	431.2	446.4	472.7	637.2	1158.2	3053.2	8703.4	11061.3	13210.5	16923.0
72.5°	387.0	405.0	418.8	443.7	628.9	1148.6	2579.1	7008.9	8258.3	9813.2	13759.2
75°	359.4	375.9	385.6	410.5	602.6	1051.8	2027.6	5930.8	6179.6	6826.4	10959.0
77.5°	327.6	340.0	348.3	375.9	533.5	874.9	1466.5	4574.9	4798.8	4956.4	8402.1
80°	290.3	302.7	306.8	333.1	442.3	684.2	956.4	3379.3	3589.4	3625.4	5487.1
82.5°	247.4	259.8	259.8	284.7	362.1	492.0	627.5	2315.1	2356.6	2478.2	3878.3
85°	199.0	208.7	208.7	221.1	280.6	367.7	431.2	1162.4	1149.9	1313.0	3360.0
87.5°	142.4	149.3	156.2	158.9	200.4	243.3	259.8	353.8	233.6	268.1	2157.5
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: GLEON-AF-09-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7	8494.7
2.5°	9757.9	9836.7	9756.6	9698.5	9448.3	9242.4	8967.4	8826.4
5°	10489.1	10689.5	10621.8	10378.5	9856.1	9268.7	8601.1	8299.8
7.5°	10400.6	10866.4	10877.5	10422.8	9652.9	8787.7	7883.8	7455.3
10°	9712.3	10308.0	10478.0	10037.1	9220.3	8252.8	7216.2	6726.9
12.5°	8943.9	9527.1	9657.0	9505.0	8822.2	7850.6	6798.8	6319.2
15°	8315.0	8576.2	8731.0	8863.7	8480.8	7690.3	6775.3	6248.7
17.5°	7932.1	7903.1	7947.3	8178.1	8243.1	7874.1	7134.6	6554.1
20°	7793.9	7350.2	7339.2	7657.1	8131.2	8312.2	7836.8	7140.2
22.5°	7869.9	7151.2	7060.0	7437.3	8190.6	8943.9	8757.3	7962.5
25°	8132.5	7167.8	7094.5	7459.4	8406.2	9617.0	9751.0	9026.8
27.5°	8545.8	7272.8	7176.1	7550.7	8692.3	10182.3	10729.6	10057.9
30°	8938.3	7455.3	7335.0	7730.3	8953.5	10406.2	11329.4	10862.3
32.5°	9415.2	7796.7	7585.2	8060.7	9277.0	10762.8	11864.3	11528.5
35°	9882.3	8283.2	8020.6	8570.7	9637.7	11206.4	12475.2	12379.9
37.5°	10395.1	8919.0	8702.0	9230.0	10131.1	11625.2	13254.8	13377.8
40°	10942.4	9762.1	9505.0	10191.9	10896.8	12150.4	14068.8	14364.6
42.5°	11493.9	10697.8	10391.0	11087.6	11738.6	12668.7	14765.4	15203.6
45°	12125.6	11713.7	11568.5	12321.8	12547.1	13162.2	15279.6	15824.2
47.5°	12860.9	12866.4	13100.0	13401.3	13362.6	13720.5	15796.5	16378.4
50°	13719.2	14305.2	14820.7	15021.1	14202.9	14320.4	16513.9	17120.6
52.5°	14750.2	16026.0	16664.5	16533.2	15108.2	15052.9	17650.0	18143.4
55°	16039.8	17847.6	18482.0	18388.0	16149.0	16050.8	19065.3	19352.8
57.5°	17532.5	19612.6	20195.9	19773.0	17398.4	17145.5	20236.0	20296.8
60°	18844.2	21011.4	21522.8	21054.2	18659.0	18310.6	20967.1	20672.7
62.5°	19573.9	21485.4	21844.8	21340.3	19522.8	19551.8	21127.5	20469.6
65°	19247.7	20287.1	20403.2	20361.8	19300.3	20271.9	20551.1	19531.1
67.5°	17462.0	17257.5	17452.3	17721.9	17392.9	19323.8	18954.7	17486.9
70°	14316.3	13192.6	13581.0	13762.0	13911.3	16628.6	16451.7	14243.0
72.5°	10789.0	9242.4	9549.2	9511.9	10203.0	13337.7	12794.5	10472.5
75°	7644.6	6266.6	6305.3	6290.1	7119.4	10435.2	9264.5	7165.0
77.5°	5348.9	4540.3	4561.1	4646.8	4786.4	7869.9	6619.1	5234.2
80°	3677.9	3445.7	3560.4	3567.3	3317.1	5286.7	4890.0	4200.3
82.5°	2739.4	2395.3	2367.6	2407.7	2599.8	4283.3	3758.1	2913.6
85°	2243.2	1418.1	1140.3	1429.1	2304.0	4241.8	2496.2	1536.9
87.5°	1263.3	673.1	304.1	563.9	919.1	2808.5	721.5	196.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)