

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: P191324

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191324
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-06-LED-E1-SLR-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA 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: 25858.2 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - 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

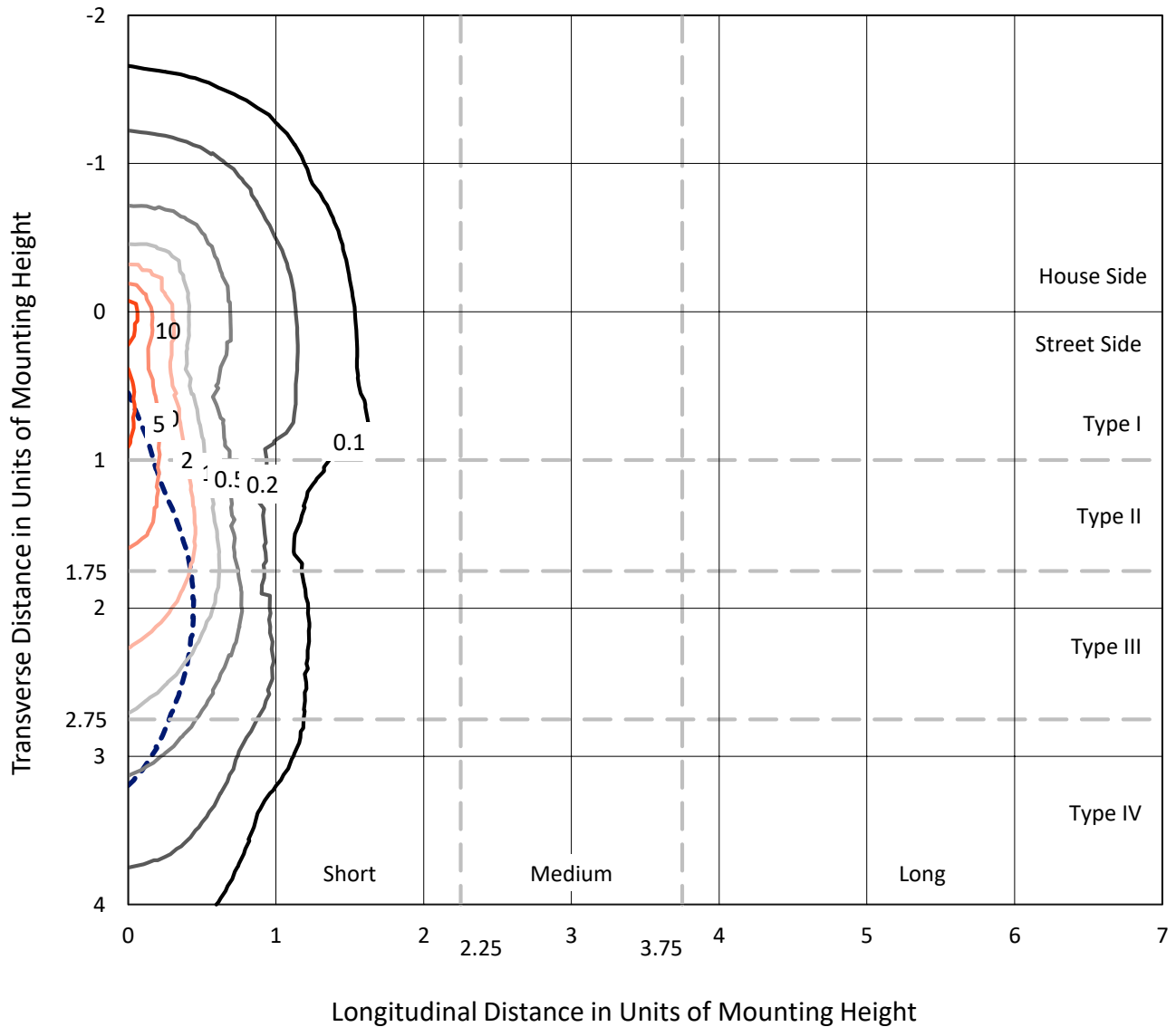


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

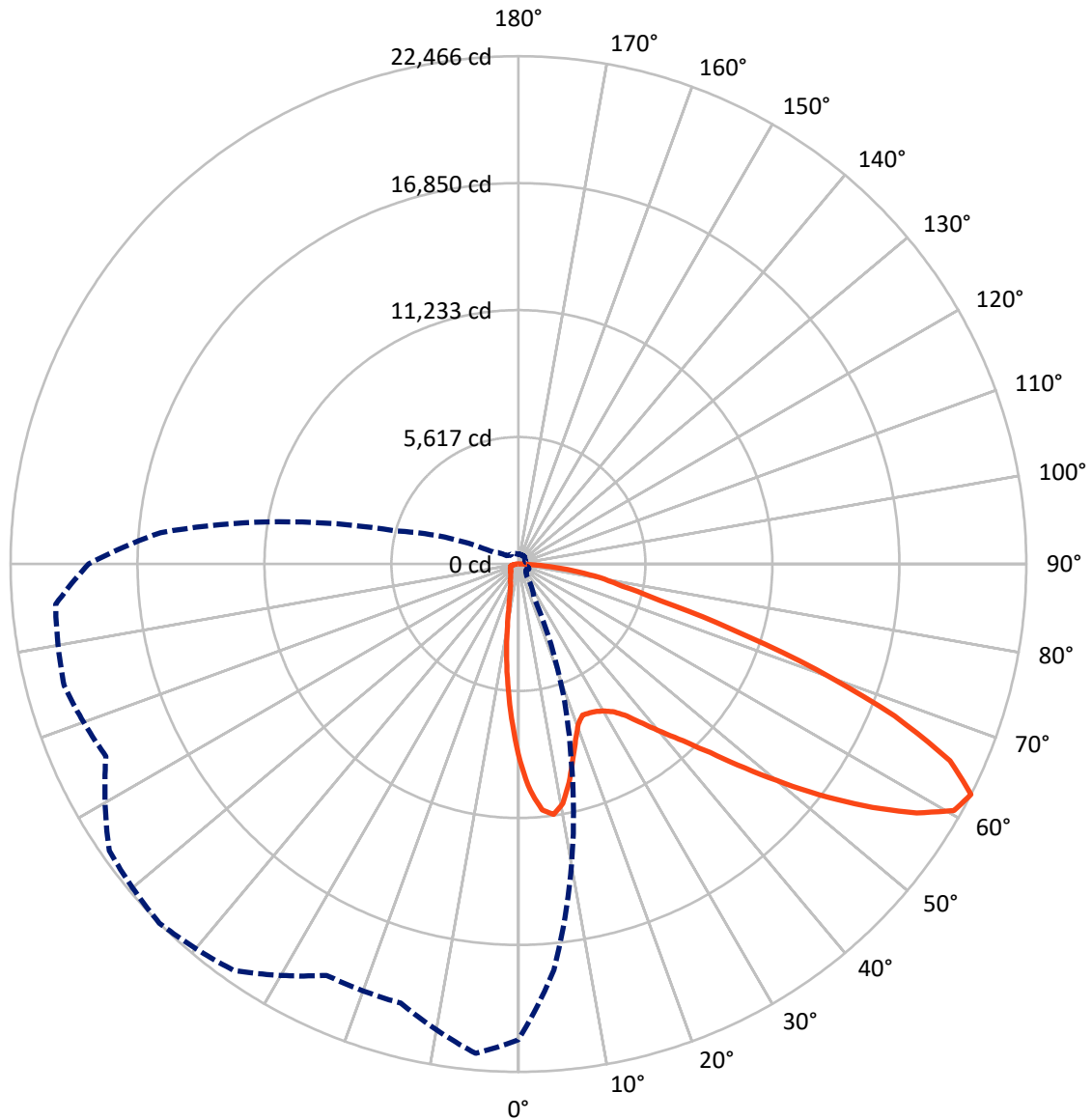


Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Short - Non-Cutoff

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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	4279.2	0.0	4279.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21579.0	0.0	21579.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	25858.2	0.0	25858.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.0	2.5
10°-20°	1166.2	4.5
20°-30°	1700.3	6.6
30°-40°	2618.7	10.1
40°-50°	3854.0	14.9
50°-60°	5653.0	21.9
60°-70°	6319.3	24.4
70°-80°	3093.8	12.0
80°-90°	816.8	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°	25858.2	100.0
0°-180°	25858.2	100.0



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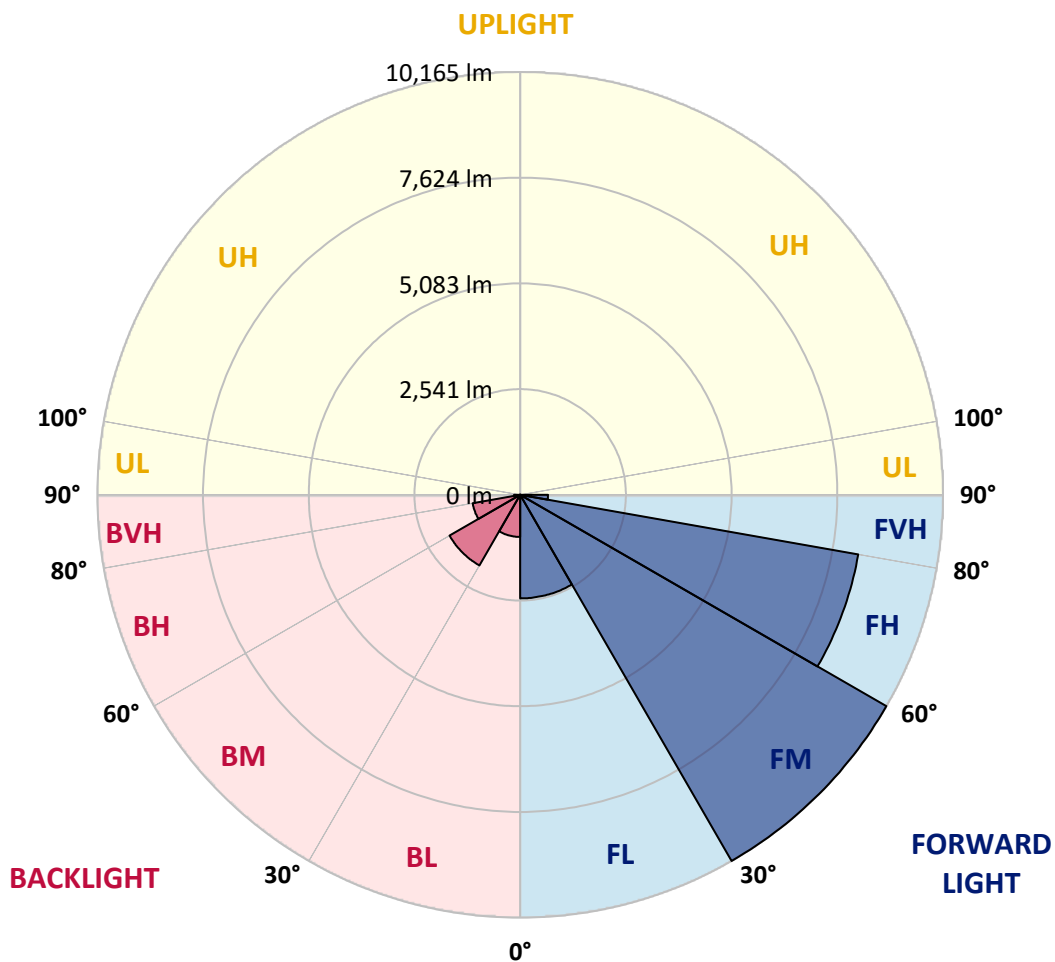
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2490.1	9.6			
FM	(30°-60°)	10165.1	39.3			
FH	(60°-80°)	8253.0	31.9			G4/12000
FVH	(80°-90°)	670.8	2.6			G4/750
BL	(0°-30°)	1012.4	3.9	B3/2500		
BM	(30°-60°)	1960.7	7.6	B2/2500		
BH	(60°-80°)	1160.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	146.0	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°	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3
2.5°	9077.5	8892.6	8585.6	8265.7	8071.1	7843.6	7665.9	7509.6	7196.9	7135.7	7191.1
5°	8535.8	8164.9	7586.3	7003.5	6615.4	6199.0	5874.9	5614.8	5218.2	5148.5	5232.4
7.5°	7667.3	7223.9	6459.1	5715.6	5167.0	4646.8	4297.1	4018.5	3708.6	3575.0	3583.5
10°	6918.2	6417.9	5513.8	4705.1	4255.9	3904.7	3610.5	3324.8	3010.6	2804.5	2747.6
12.5°	6498.9	5923.2	4881.3	4159.2	3742.7	3373.1	3056.2	2750.5	2415.1	2204.7	2145.0
15°	6426.4	5800.9	4643.9	3809.5	3287.9	2820.2	2446.3	2105.1	1759.8	1589.2	1553.7
17.5°	6740.5	6019.9	4567.2	3498.2	2860.0	2282.8	1823.7	1442.8	1161.4	1076.0	1069.0
20°	7343.3	6440.6	4557.1	3205.4	2437.8	1761.2	1270.8	993.6	869.9	845.8	847.2
22.5°	8189.0	7093.0	4679.4	2985.1	2049.8	1313.5	955.2	831.6	783.3	760.5	760.5
25°	9283.6	7991.4	4960.9	2824.5	1712.8	1049.0	842.9	769.1	723.5	707.9	710.7
27.5°	10344.0	8865.6	5287.8	2697.9	1492.5	952.4	798.8	732.0	692.2	676.6	683.7
30°	11171.2	9641.7	5560.8	2526.0	1380.3	925.4	814.5	746.2	689.4	665.2	666.7
32.5°	11856.4	10321.2	5789.6	2402.3	1280.7	793.2	702.2	672.4	665.2	636.8	622.6
35°	12732.0	11061.8	5943.1	2405.1	1233.8	707.9	625.4	572.9	534.5	501.8	501.8
37.5°	13758.3	11911.9	6106.6	2437.8	1216.8	658.2	598.4	545.8	510.4	479.0	473.3
40°	14773.3	12744.7	6255.9	2469.1	1206.8	628.3	577.1	528.8	496.1	464.8	456.3
42.5°	15636.0	13429.9	6389.5	2484.7	1172.7	625.4	561.5	517.4	486.1	452.0	443.4
45°	16274.2	14004.2	6533.0	2508.9	1138.5	636.8	561.5	516.0	477.6	444.9	436.4
47.5°	16844.3	14678.0	6773.3	2508.9	1097.3	615.5	579.9	517.4	476.2	442.1	435.0
50°	17607.5	15601.9	7228.1	2450.6	1039.1	592.7	611.2	511.7	463.4	436.4	427.9
52.5°	18659.4	16786.0	7950.2	2349.7	949.5	548.7	606.9	508.9	450.6	422.2	412.2
55°	19903.2	18054.0	8737.7	2231.7	815.9	517.4	585.6	501.8	436.4	405.1	395.2
57.5°	20874.1	18926.7	9292.1	2049.8	699.4	500.3	518.8	494.7	419.3	386.7	378.1
60°	21260.7	18892.6	9444.2	1806.6	642.5	486.1	453.5	554.3	405.1	372.5	362.4
62.5°	21051.8	18019.8	9017.7	1636.1	629.7	467.7	425.0	513.1	393.7	362.4	348.2
65°	20086.7	16473.3	7887.7	1590.6	666.7	449.2	406.5	402.2	378.1	348.2	334.0
67.5°	17984.3	14161.9	6315.5	1594.9	713.6	430.7	388.1	368.2	356.8	332.7	319.9
70°	14648.1	11196.8	4707.8	1606.2	737.8	409.4	368.2	346.9	334.0	309.9	301.4
72.5°	10770.3	8629.7	3420.0	1532.4	742.0	385.2	341.2	322.6	309.9	284.3	277.2
75°	7368.8	6601.2	2372.4	1269.4	646.8	351.1	311.3	294.2	285.7	254.4	250.2
77.5°	5383.1	4955.2	1518.2	942.4	498.9	308.4	274.4	261.6	255.8	221.8	216.0
80°	4319.8	3920.4	949.5	645.4	365.3	258.7	230.3	223.2	217.5	183.4	179.1
82.5°	2996.4	2625.4	609.8	419.3	274.4	200.4	182.0	179.1	170.5	139.3	135.0
85°	1580.7	1425.7	386.7	285.7	199.0	137.9	126.5	126.5	122.2	92.4	89.5
87.5°	201.8	328.4	196.2	149.2	109.5	61.2	61.2	59.7	63.9	52.6	45.5
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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3
2.5°	7060.4	7128.6	7063.3	7067.5	7140.0	7356.0	7454.1	7535.2	7621.9	7678.7	7704.3
5°	5117.2	5276.5	5330.5	5444.1	5611.9	5887.7	5997.2	6076.7	6129.3	6160.6	6173.4
7.5°	3499.6	3596.3	3704.3	3887.7	4253.0	4415.1	4487.6	4469.1	4409.3	4388.0	4366.7
10°	2638.2	2599.8	2580.0	2680.8	2976.6	3140.0	3191.2	3141.4	3108.7	3115.8	3151.4
12.5°	2044.1	1977.3	1896.2	1884.9	2079.6	2226.0	2258.7	2261.5	2321.3	2373.9	2452.0
15°	1489.7	1482.6	1442.8	1418.6	1529.5	1648.9	1663.1	1688.7	1742.7	1781.1	1849.3
17.5°	1050.5	1088.8	1120.1	1135.8	1219.6	1304.9	1289.2	1276.4	1266.5	1266.5	1299.2
20°	847.2	872.8	912.6	958.1	1043.3	1103.0	1064.7	1013.5	976.5	965.2	969.5
22.5°	763.3	783.3	806.0	845.8	922.5	963.7	922.5	885.6	848.6	835.9	831.6
25°	720.7	746.2	767.6	797.4	854.3	882.7	842.9	815.9	793.2	777.5	766.2
27.5°	696.5	719.2	725.0	739.2	787.5	813.0	793.2	781.8	767.6	753.4	739.2
30°	671.0	666.7	656.7	658.2	696.5	722.1	720.7	723.5	722.1	717.8	715.0
32.5°	612.6	604.2	595.6	604.2	639.7	662.4	663.8	669.5	669.5	668.1	679.4
35°	510.4	525.9	535.9	561.5	604.2	624.0	615.5	601.3	575.7	560.1	558.6
37.5°	471.9	474.8	491.8	527.3	574.3	592.7	579.9	547.3	530.2	527.3	531.6
40°	453.5	456.3	466.3	498.9	545.8	564.4	552.9	528.8	513.1	511.7	518.8
42.5°	440.7	443.4	449.2	471.9	510.4	533.1	534.5	517.4	498.9	500.3	507.5
45°	433.5	435.0	433.5	444.9	480.5	507.5	518.8	507.5	491.8	494.7	503.2
47.5°	432.1	427.9	422.2	425.0	462.0	489.0	503.2	498.9	491.8	494.7	501.8
50°	426.5	416.4	409.4	408.0	444.9	473.3	486.1	486.1	489.0	494.7	501.8
52.5°	409.4	398.0	398.0	393.7	433.5	460.5	469.1	470.5	474.8	484.7	494.7
55°	388.1	383.8	388.1	380.9	425.0	450.6	454.9	457.7	460.5	469.1	483.3
57.5°	369.6	363.9	373.9	371.0	417.9	440.7	440.7	446.3	446.3	457.7	469.1
60°	359.7	348.2	352.5	355.4	408.0	432.1	429.2	435.0	437.8	447.7	456.3
62.5°	346.9	336.9	336.9	344.0	396.6	419.3	417.9	422.2	433.5	436.4	444.9
65°	331.2	326.9	322.6	331.2	385.2	405.1	406.5	412.2	422.2	425.0	432.1
67.5°	315.6	317.0	308.4	317.0	375.2	390.9	390.9	402.2	406.5	412.2	419.3
70°	298.5	299.9	292.9	302.8	368.2	375.2	373.9	389.4	392.3	396.6	403.7
72.5°	277.2	277.2	274.4	288.6	356.8	359.7	356.8	369.6	371.0	375.2	378.1
75°	254.4	254.4	251.6	271.5	349.6	342.6	334.0	344.0	346.9	349.6	349.6
77.5°	224.6	227.4	227.4	251.6	325.5	335.4	307.0	312.7	317.0	318.4	314.1
80°	187.6	194.8	197.5	228.8	272.9	309.9	274.4	278.7	280.0	280.0	274.4
82.5°	143.5	156.4	163.5	197.5	209.0	260.1	238.8	243.1	238.8	230.3	227.4
85°	99.5	116.5	125.1	150.7	157.7	200.4	199.0	199.0	190.5	179.1	177.7
87.5°	54.0	63.9	69.7	89.5	108.0	135.0	146.4	142.2	135.0	128.0	129.4
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°	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3
2.5°	7838.0	8031.2	8339.7	8575.6	8813.0	9041.9	9289.2	9478.3	9638.9	9701.5	9891.9
5°	6302.7	6544.4	6835.8	7361.8	7734.1	8144.9	8619.7	9248.0	9489.6	9823.7	10371.0
7.5°	4456.3	4675.2	5144.2	5569.3	6096.6	6678.0	7319.1	8186.2	8503.2	9039.0	9930.3
10°	3327.7	3582.1	3958.7	4317.0	4781.8	5375.9	6112.2	7081.7	7466.9	8048.3	9074.6
12.5°	2680.8	2980.8	3380.2	3717.1	4076.8	4496.1	5211.0	6274.3	6790.3	7299.2	8336.8
15°	2059.7	2373.9	2744.9	3172.7	3569.3	4021.3	4770.4	5933.1	6527.3	7057.5	7943.1
17.5°	1425.7	1694.4	2162.0	2608.4	3115.8	3694.4	4648.2	6005.6	6715.0	7326.2	8011.3
20°	1010.7	1164.2	1547.9	2065.3	2697.9	3424.3	4625.4	6386.6	7309.1	8007.0	8449.2
22.5°	850.1	906.8	1130.1	1604.8	2335.5	3222.4	4705.1	6921.1	8110.9	9002.1	9147.1
25°	774.7	808.8	925.4	1259.5	2012.8	3076.0	4973.7	7717.1	9103.0	9997.1	9971.5
27.5°	733.5	769.1	845.8	1063.3	1769.7	2985.1	5242.3	8660.9	10237.4	11077.4	10759.0
30°	720.7	769.1	850.1	1002.1	1596.3	2841.5	5462.7	9489.6	11110.1	11806.6	11117.2
32.5°	710.7	717.8	754.8	864.3	1431.4	2673.8	5611.9	10233.1	11964.4	12500.3	11633.2
35°	574.3	609.8	669.5	774.7	1334.7	2572.8	5611.9	10874.2	12805.9	13201.1	12125.0
37.5°	552.9	584.2	636.8	726.4	1280.7	2523.1	5499.6	11492.4	13665.9	13995.7	12530.1
40°	541.6	567.1	616.9	689.4	1258.0	2466.2	5336.1	12038.3	14506.0	14791.7	12908.2
42.5°	533.1	555.8	602.7	666.7	1228.2	2403.7	5204.0	12476.1	15235.2	15471.1	13269.3
45°	528.8	552.9	604.2	678.0	1168.4	2321.3	5159.9	12949.4	15835.1	16038.3	13660.2
47.5°	528.8	557.2	611.2	702.2	1097.3	2236.0	5297.8	13573.5	16402.2	16501.7	14120.7
50°	524.5	555.8	631.2	678.0	993.6	2127.9	5621.8	14359.6	17016.3	17027.6	14703.6
52.5°	516.0	552.9	679.4	663.8	874.2	1985.8	6059.7	15368.8	17924.6	17992.8	15616.2
55°	506.1	548.7	666.7	631.2	776.1	1816.7	6417.9	16595.5	19201.1	19390.1	16958.0
57.5°	493.3	543.0	645.4	585.6	712.2	1599.2	6547.2	17493.9	20092.3	20567.0	18470.4
60°	481.9	538.7	582.8	558.6	672.4	1415.8	6297.1	17316.2	20031.2	21054.6	19810.9
62.5°	470.5	543.0	531.6	541.6	653.9	1297.8	5643.2	15893.3	19017.7	20551.4	20804.5
65°	457.7	504.6	501.8	527.3	649.6	1250.9	4678.1	13759.7	17058.9	18960.8	21039.0
67.5°	440.7	466.3	480.5	508.9	663.8	1209.6	3775.4	11350.4	14336.9	16577.0	19816.5
70°	422.2	443.4	459.1	486.1	655.3	1191.2	3140.0	8950.9	11375.9	13586.3	17404.3
72.5°	398.0	416.4	430.7	456.3	646.8	1181.2	2652.4	7208.2	8493.3	10092.3	14150.6
75°	369.6	386.7	396.6	422.2	619.8	1081.8	2085.3	6099.4	6355.3	7020.6	11270.8
77.5°	336.9	349.6	358.2	386.7	548.7	899.8	1508.1	4705.1	4935.3	5097.4	8641.1
80°	298.5	311.3	315.6	342.6	454.9	703.6	983.7	3475.5	3691.5	3728.5	5643.2
82.5°	254.4	267.2	267.2	292.9	372.5	506.1	645.4	2380.9	2423.6	2548.7	3988.6
85°	204.7	214.6	214.6	227.4	288.6	378.1	443.4	1195.4	1182.6	1350.4	3455.5
87.5°	146.4	153.5	160.6	163.5	206.1	250.2	267.2	363.9	240.2	275.8	2218.9
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: GLEON-AF-06-LED-E1-SLR-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3
2.5°	10035.5	10116.5	10034.0	9974.4	9717.1	9505.3	9222.4	9077.5
5°	10787.4	10993.6	10923.9	10673.7	10136.4	9532.3	8845.8	8535.8
7.5°	10696.5	11175.5	11186.9	10719.2	9927.4	9037.7	8108.0	7667.3
10°	9988.6	10601.2	10776.1	10322.6	9482.5	8487.5	7421.4	6918.2
12.5°	9198.3	9798.1	9931.7	9775.3	9073.2	8073.8	6992.2	6498.9
15°	8551.5	8820.2	8979.4	9115.8	8722.1	7908.9	6968.0	6426.4
17.5°	8157.7	8127.9	8173.4	8410.8	8477.6	8098.1	7337.5	6740.5
20°	8015.6	7559.3	7547.9	7874.9	8362.4	8548.6	8059.6	7343.3
22.5°	8093.8	7354.6	7260.8	7648.9	8423.6	9198.3	9006.4	8189.0
25°	8363.9	7371.7	7296.3	7671.6	8645.3	9890.5	10028.4	9283.6
27.5°	8788.9	7479.7	7380.2	7765.4	8939.6	10471.8	11034.8	10344.0
30°	9192.5	7667.3	7543.6	7950.2	9208.2	10702.1	11651.7	11171.2
32.5°	9682.9	8018.4	7800.9	8289.9	9540.9	11068.8	12201.8	11856.4
35°	10163.4	8518.8	8248.7	8814.5	9911.8	11525.2	12830.1	12732.0
37.5°	10690.8	9172.7	8949.5	9492.5	10419.3	11955.8	13631.7	13758.3
40°	11253.7	10039.8	9775.3	10481.9	11206.7	12496.1	14469.0	14773.3
42.5°	11820.8	11002.0	10686.6	11402.9	12072.5	13029.1	15185.4	15636.0
45°	12470.5	12046.9	11897.6	12672.3	12904.0	13536.5	15714.2	16274.2
47.5°	13226.7	13232.4	13472.6	13782.4	13742.6	14110.8	16245.8	16844.3
50°	14109.4	14712.1	15242.3	15448.4	14606.9	14727.7	16983.5	17607.5
52.5°	15169.7	16481.8	17138.5	17003.5	15537.9	15481.1	18152.1	18659.4
55°	16496.0	18355.3	19007.8	18911.1	16608.3	16507.4	19607.6	19903.2
57.5°	18031.1	20170.4	20770.3	20335.3	17893.4	17633.2	20811.5	20874.1
60°	19380.1	21609.0	22134.9	21653.1	19189.6	18831.5	21563.5	21260.7
62.5°	20130.6	22096.6	22466.1	21947.3	20078.1	20107.9	21728.4	21051.8
65°	19795.2	20864.1	20983.6	20940.9	19849.2	20848.6	21135.7	20086.7
67.5°	17958.7	17748.3	17948.7	18225.9	17887.6	19873.4	19493.9	17984.3
70°	14723.4	13567.8	13967.3	14153.4	14307.0	17101.6	16919.6	14648.1
72.5°	11095.8	9505.3	9820.8	9782.5	10493.2	13717.1	13158.4	10770.3
75°	7862.1	6444.9	6484.7	6469.0	7322.0	10732.0	9528.1	7368.8
77.5°	5501.0	4669.5	4690.8	4778.9	4922.5	8093.8	6807.3	5383.1
80°	3782.5	3543.7	3661.7	3668.8	3411.5	5437.1	5029.1	4319.8
82.5°	2817.3	2463.4	2434.9	2476.2	2673.8	4405.1	3864.9	2996.4
85°	2307.1	1458.4	1172.7	1469.8	2369.6	4362.5	2567.2	1580.7
87.5°	1299.2	692.2	312.7	579.9	945.3	2888.4	742.0	201.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)