

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: P192115

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192115  
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-07-LED-E1-SLR-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 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: 24378 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

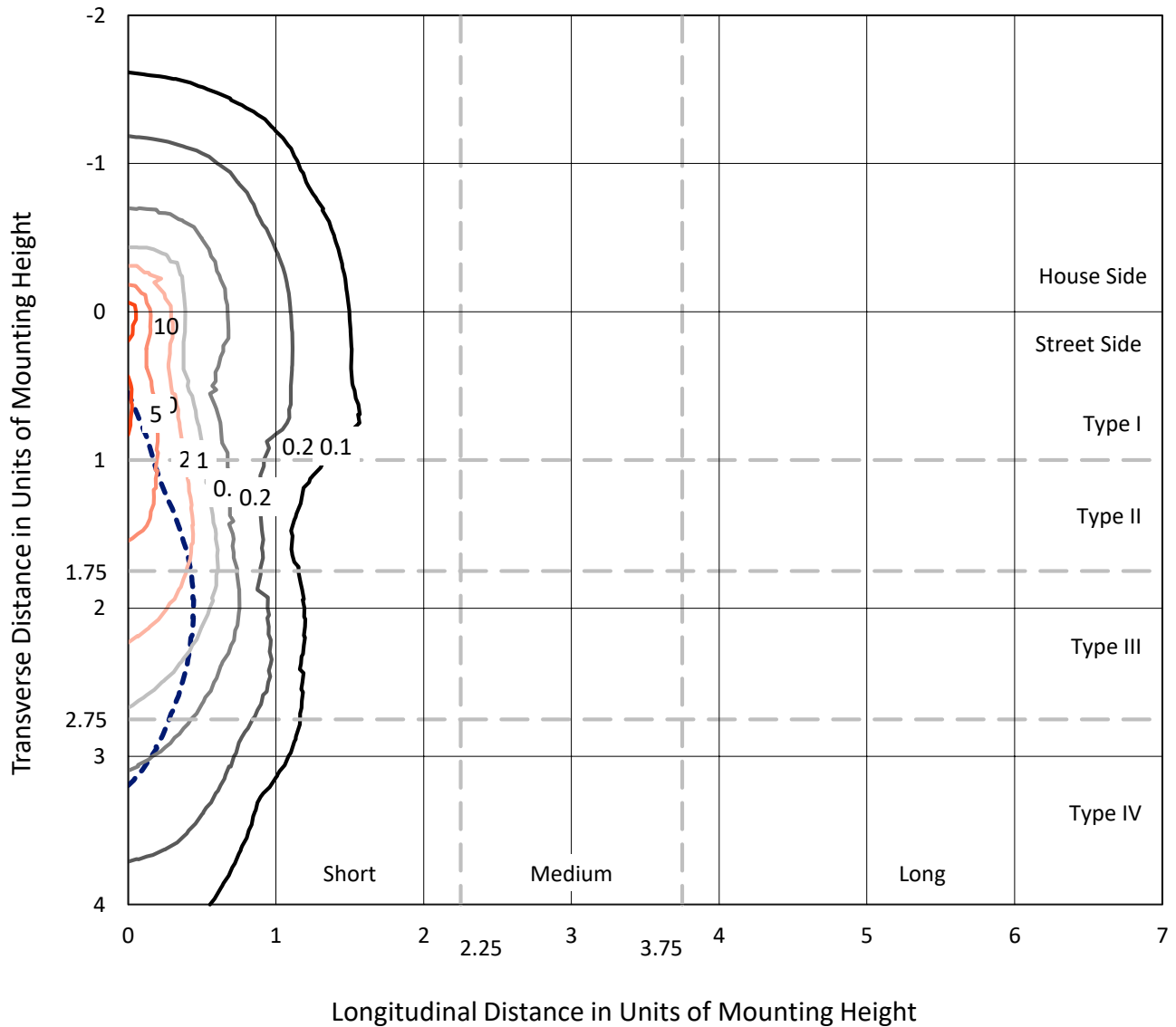
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P192115  
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7050-600

### Iso-Footcandle Lines of Horizontal Illumination

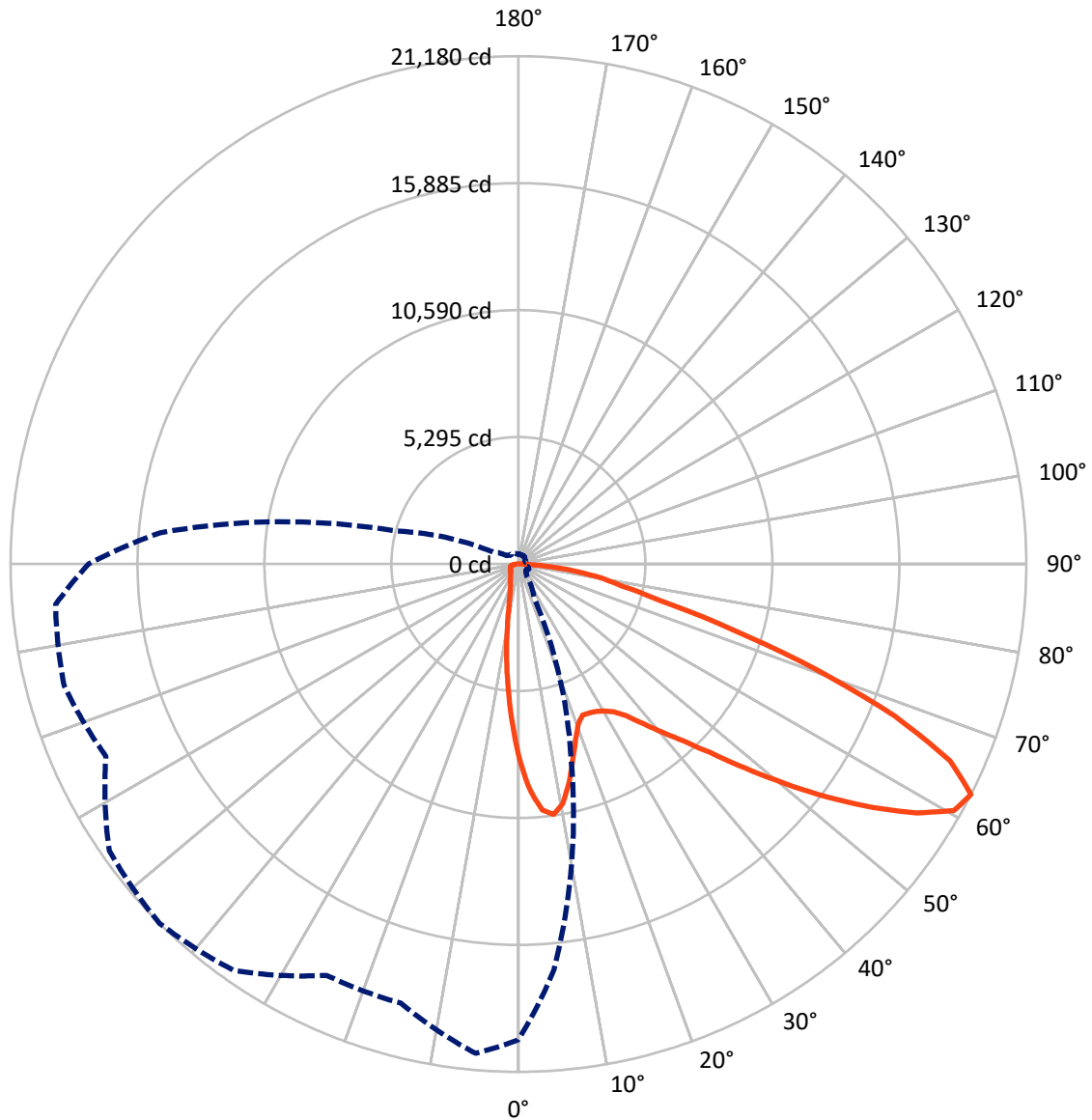
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P192115  
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7050-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P192115

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7050-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4034.2	0.0	4034.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	20343.8	0.0	20343.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	24378.0	0.0	24378.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	599.6	2.5
10°-20°	1099.4	4.5
20°-30°	1603.0	6.6
30°-40°	2468.8	10.1
40°-50°	3633.4	14.9
50°-60°	5329.4	21.9
60°-70°	5957.6	24.4
70°-80°	2916.7	12.0
80°-90°	770.1	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°	24378.0	100.0
0°-180°	24378.0	100.0



REPORT NUMBER: P192115

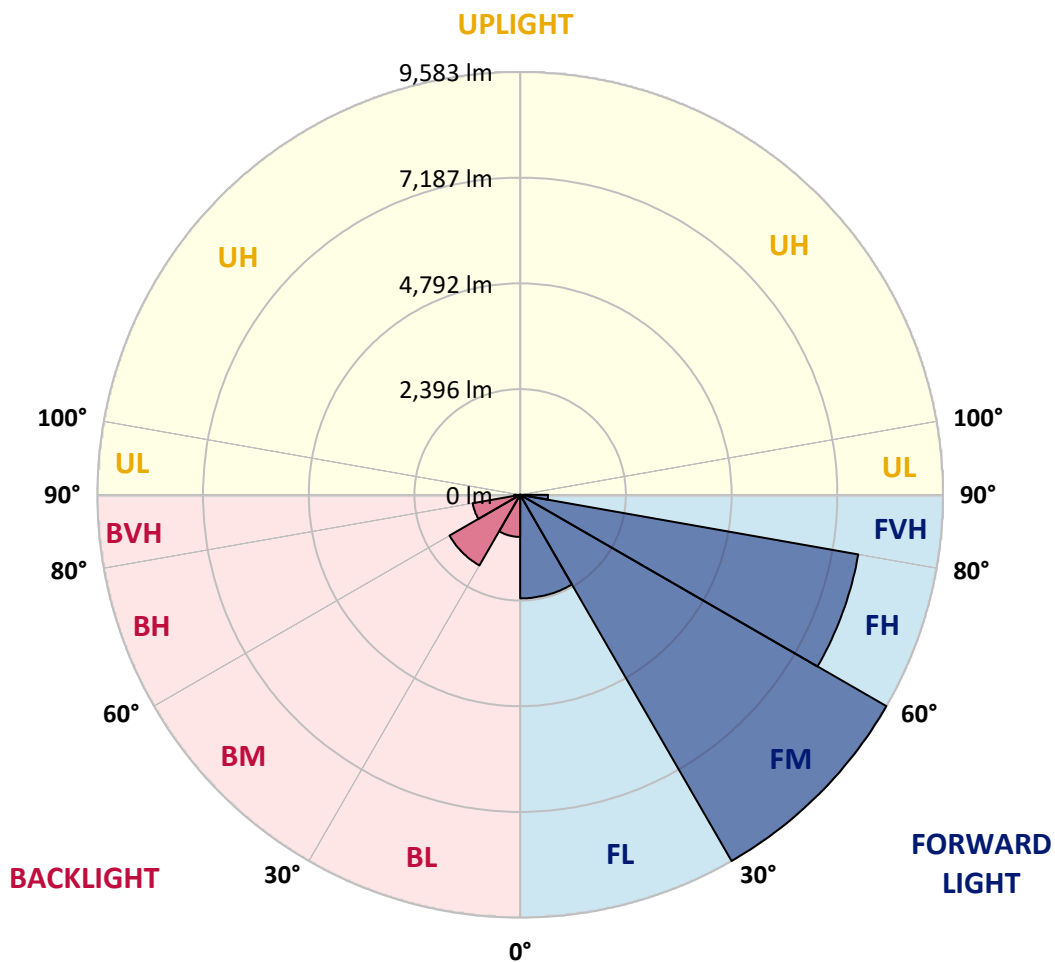
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7050-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2347.5	9.6			
FM	(30°-60°)	9583.2	39.3			
FH	(60°-80°)	7780.6	31.9			G4/12000
FVH	(80°-90°)	632.4	2.6			G4/750
BL	(0°-30°)	954.4	3.9	B2/1000		
BM	(30°-60°)	1848.5	7.6	B2/2500		
BH	(60°-80°)	1093.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	137.7	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





REPORT NUMBER: P192115

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7050-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2
2.5°	8557.8	8383.6	8094.2	7792.6	7609.0	7394.6	7227.1	7079.7	6784.9	6727.3	6779.5
5°	8047.2	7697.5	7152.1	6602.6	6236.8	5844.1	5538.6	5293.4	4919.5	4853.8	4932.9
7.5°	7228.5	6810.3	6089.4	5388.5	4871.2	4380.8	4051.1	3788.4	3496.3	3370.3	3378.4
10°	6522.2	6050.5	5198.2	4435.7	4012.2	3681.2	3403.8	3134.5	2838.3	2644.0	2590.4
12.5°	6126.9	5584.2	4601.9	3921.1	3528.5	3180.0	2881.2	2593.1	2276.8	2078.5	2022.2
15°	6058.6	5468.9	4378.1	3591.4	3099.6	2658.7	2306.3	1984.7	1659.0	1498.2	1464.7
17.5°	6354.7	5675.3	4305.7	3298.0	2696.3	2152.2	1719.3	1360.2	1094.9	1014.4	1007.7
20°	6922.9	6072.0	4296.3	3021.9	2298.3	1660.4	1198.0	936.7	820.1	797.4	798.7
22.5°	7720.3	6687.1	4411.6	2814.2	1932.4	1238.2	900.5	784.0	738.4	716.9	716.9
25°	8752.1	7534.0	4676.9	2662.8	1614.8	989.0	794.7	725.0	682.1	667.4	670.0
27.5°	9751.8	8358.1	4985.1	2543.5	1407.1	897.9	753.1	690.1	652.6	637.9	644.6
30°	10531.8	9089.8	5242.4	2381.3	1301.2	872.4	767.9	703.5	649.9	627.2	628.5
32.5°	11177.7	9730.4	5458.2	2264.8	1207.4	747.8	662.0	633.9	627.2	600.4	587.0
35°	12003.2	10428.6	5602.9	2267.4	1163.2	667.4	589.6	540.1	503.9	473.1	473.1
37.5°	12970.7	11230.0	5757.0	2298.3	1147.1	620.5	564.2	514.6	481.1	451.6	446.3
40°	13927.6	12015.3	5897.7	2327.7	1137.7	592.3	544.1	498.5	467.7	438.2	430.2
42.5°	14741.0	12661.2	6023.7	2342.5	1105.6	589.6	529.3	487.8	458.3	426.1	418.1
45°	15342.7	13202.6	6159.1	2365.3	1073.4	600.4	529.3	486.5	450.3	419.4	411.4
47.5°	15880.1	13837.8	6385.5	2365.3	1034.6	580.3	546.8	487.8	448.9	416.8	410.1
50°	16599.7	14708.8	6814.4	2310.3	979.6	558.8	576.2	482.4	436.9	411.4	403.4
52.5°	17591.4	15825.1	7495.1	2215.2	895.2	517.3	572.2	479.8	424.8	398.0	388.6
55°	18764.0	17020.5	8237.5	2103.9	769.2	487.8	552.1	473.1	411.4	381.9	372.5
57.5°	19679.2	17843.3	8760.2	1932.4	659.3	471.7	489.1	466.4	395.3	364.5	356.5
60°	20043.7	17811.2	8903.6	1703.3	605.7	458.3	427.5	522.6	381.9	351.1	341.7
62.5°	19846.8	16988.3	8501.5	1542.4	593.7	440.9	400.7	483.8	371.2	341.7	328.3
65°	18936.8	15530.3	7436.2	1499.6	628.5	423.5	383.3	379.2	356.5	328.3	314.9
67.5°	16954.8	13351.3	5954.0	1503.6	672.7	406.0	365.8	347.1	336.4	313.6	301.5
70°	13809.6	10555.9	4438.4	1514.3	695.5	385.9	347.1	327.0	314.9	292.1	284.1
72.5°	10153.9	8135.7	3224.3	1444.6	699.5	363.2	321.6	304.2	292.1	268.0	261.3
75°	6947.0	6223.4	2236.6	1196.7	609.7	331.0	293.5	277.4	269.4	239.9	235.9
77.5°	5074.9	4671.6	1431.2	888.5	470.4	290.8	258.6	246.6	241.2	209.1	203.7
80°	4072.5	3696.0	895.2	608.4	344.4	243.9	217.1	210.4	205.0	172.9	168.9
82.5°	2824.9	2475.1	574.9	395.3	258.6	189.0	171.5	168.9	160.8	131.3	127.3
85°	1490.2	1344.1	364.5	269.4	187.6	130.0	119.3	119.3	115.2	87.1	84.4
87.5°	190.3	309.6	184.9	140.7	103.2	57.6	57.6	56.3	60.3	49.6	42.9
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: P192115

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7050-600

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2
2.5°	6656.2	6720.6	6658.9	6662.9	6731.3	6935.0	7027.4	7103.8	7185.6	7239.2	7263.3
5°	4824.3	4974.4	5025.3	5132.5	5290.7	5550.7	5653.8	5728.9	5778.5	5808.0	5820.0
7.5°	3299.3	3390.4	3492.3	3665.1	4009.6	4162.3	4230.7	4213.2	4157.0	4136.9	4116.8
10°	2487.2	2451.0	2432.3	2527.4	2806.2	2960.3	3008.5	2961.6	2930.8	2937.5	2971.0
12.5°	1927.1	1864.1	1787.7	1777.0	1960.6	2098.6	2129.4	2132.1	2188.4	2238.0	2311.7
15°	1404.4	1397.7	1360.2	1337.4	1441.9	1554.5	1567.9	1592.0	1643.0	1679.1	1743.5
17.5°	990.3	1026.5	1056.0	1070.7	1149.8	1230.2	1215.5	1203.4	1194.0	1194.0	1224.8
20°	798.7	822.8	860.3	903.2	983.6	1039.9	1003.7	955.5	920.6	909.9	913.9
22.5°	719.6	738.4	759.8	797.4	869.7	908.6	869.7	834.9	800.0	788.0	784.0
25°	679.4	703.5	723.6	751.8	805.4	832.2	794.7	769.2	747.8	733.0	722.3
27.5°	656.6	678.1	683.4	696.8	742.4	766.5	747.8	737.1	723.6	710.2	696.8
30°	632.5	628.5	619.1	620.5	656.6	680.8	679.4	682.1	680.8	676.7	674.1
32.5°	577.6	569.5	561.5	569.5	603.0	624.5	625.8	631.2	631.2	629.8	640.6
35°	481.1	495.8	505.2	529.3	569.5	588.3	580.3	566.9	542.7	528.0	526.7
37.5°	444.9	447.6	463.7	497.2	541.4	558.8	546.8	515.9	499.9	497.2	501.2
40°	427.5	430.2	439.5	470.4	514.6	532.0	521.3	498.5	483.8	482.4	489.1
42.5°	415.4	418.1	423.5	444.9	481.1	502.5	503.9	487.8	470.4	471.7	478.4
45°	408.7	410.1	408.7	419.4	453.0	478.4	489.1	478.4	463.7	466.4	474.4
47.5°	407.4	403.4	398.0	400.7	435.5	461.0	474.4	470.4	463.7	466.4	473.1
50°	402.0	392.6	385.9	384.6	419.4	446.3	458.3	458.3	461.0	466.4	473.1
52.5°	385.9	375.2	375.2	371.2	408.7	434.2	442.2	443.6	447.6	457.0	466.4
55°	365.8	361.8	365.8	359.1	400.7	424.8	428.8	431.5	434.2	442.2	455.6
57.5°	348.4	343.1	352.4	349.8	394.0	415.4	415.4	420.8	420.8	431.5	442.2
60°	339.0	328.3	332.3	335.0	384.6	407.4	404.7	410.1	412.7	422.1	430.2
62.5°	327.0	317.6	317.6	324.3	373.9	395.3	394.0	398.0	408.7	411.4	419.4
65°	312.2	308.2	304.2	312.2	363.2	381.9	383.3	388.6	398.0	400.7	407.4
67.5°	297.5	298.8	290.8	298.8	353.8	368.5	368.5	379.2	383.3	388.6	395.3
70°	281.4	282.8	276.1	285.4	347.1	353.8	352.4	367.2	369.9	373.9	380.6
72.5°	261.3	261.3	258.6	272.0	336.4	339.0	336.4	348.4	349.8	353.8	356.5
75°	239.9	239.9	237.2	256.0	329.7	323.0	314.9	324.3	327.0	329.7	329.7
77.5°	211.7	214.4	214.4	237.2	306.9	316.3	289.5	294.8	298.8	300.2	296.2
80°	176.9	183.6	186.3	215.8	257.3	292.1	258.6	262.7	264.0	264.0	258.6
82.5°	135.3	147.4	154.1	186.3	197.0	245.2	225.1	229.2	225.1	217.1	214.4
85°	93.8	109.9	117.9	142.0	148.8	189.0	187.6	187.6	179.6	168.9	167.5
87.5°	50.9	60.3	65.7	84.4	101.8	127.3	138.0	134.0	127.3	120.6	121.9
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: P192115

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7050-600

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2
2.5°	7389.3	7571.5	7862.3	8084.8	8308.6	8524.3	8757.5	8935.7	9087.2	9146.1	9325.7
5°	5942.0	6169.8	6444.5	6940.3	7291.4	7678.7	8126.3	8718.6	8946.5	9261.4	9777.3
7.5°	4201.2	4407.6	4849.8	5250.5	5747.7	6295.7	6900.1	7717.6	8016.4	8521.6	9361.9
10°	3137.2	3377.0	3732.2	4069.9	4508.1	5068.2	5762.4	6676.3	7039.5	7587.6	8555.1
12.5°	2527.4	2810.2	3186.7	3504.3	3843.4	4238.7	4912.8	5915.2	6401.6	6881.4	7859.6
15°	1941.8	2238.0	2587.7	2991.1	3365.0	3791.1	4497.3	5593.5	6153.7	6653.6	7488.4
17.5°	1344.1	1597.4	2038.3	2459.1	2937.5	3482.9	4382.1	5661.9	6330.6	6906.8	7552.8
20°	952.8	1097.5	1459.4	1947.2	2543.5	3228.3	4360.7	6021.0	6890.7	7548.7	7965.5
22.5°	801.4	855.0	1065.4	1513.0	2201.8	3038.0	4435.7	6524.9	7646.6	8486.8	8623.5
25°	730.3	762.5	872.4	1187.3	1897.6	2900.0	4689.0	7275.4	8581.9	9424.9	9400.7
27.5°	691.5	725.0	797.4	1002.4	1668.4	2814.2	4942.3	8165.2	9651.3	10443.3	10143.2
30°	679.4	725.0	801.4	944.8	1504.9	2678.8	5150.0	8946.5	10474.2	11130.8	10480.9
32.5°	670.0	676.7	711.6	814.8	1349.5	2520.7	5290.7	9647.3	11279.5	11784.8	10967.3
35°	541.4	574.9	631.2	730.3	1258.3	2425.6	5290.7	10251.7	12072.9	12445.4	11431.0
37.5°	521.3	550.8	600.4	684.8	1207.4	2378.7	5184.8	10834.6	12883.6	13194.5	11812.9
40°	510.6	534.7	581.6	649.9	1186.0	2325.1	5030.7	11349.2	13675.6	13945.0	12169.4
42.5°	502.5	524.0	568.2	628.5	1157.8	2266.1	4906.1	11762.0	14363.1	14585.6	12509.8
45°	498.5	521.3	569.5	639.2	1101.6	2188.4	4864.5	12208.2	14928.6	15120.3	12878.3
47.5°	498.5	525.3	576.2	662.0	1034.6	2108.0	4994.5	12796.5	15463.3	15557.1	13312.5
50°	494.5	524.0	595.0	639.2	936.7	2006.1	5300.1	13537.6	16042.2	16053.0	13861.9
52.5°	486.5	521.3	640.6	625.8	824.2	1872.1	5712.8	14489.1	16898.6	16962.9	14722.2
55°	477.1	517.3	628.5	595.0	731.7	1712.6	6050.5	15645.6	18102.0	18280.2	15987.3
57.5°	465.0	511.9	608.4	552.1	671.4	1507.6	6172.5	16492.5	18942.2	19389.8	17413.1
60°	454.3	507.9	549.4	526.7	633.9	1334.7	5936.6	16325.0	18884.6	19849.4	18676.9
62.5°	443.6	511.9	501.2	510.6	616.4	1223.5	5320.2	14983.6	17929.1	19375.0	19613.6
65°	431.5	475.7	473.1	497.2	612.4	1179.3	4410.2	12972.1	16082.4	17875.5	19834.7
67.5°	415.4	439.5	453.0	479.8	625.8	1140.4	3559.3	10700.6	13516.2	15628.1	18682.2
70°	398.0	418.1	432.8	458.3	617.8	1123.0	2960.3	8438.6	10724.8	12808.6	16408.1
72.5°	375.2	392.6	406.0	430.2	609.7	1113.6	2500.6	6795.6	8007.0	9514.6	13340.6
75°	348.4	364.5	373.9	398.0	584.3	1019.8	1965.9	5750.3	5991.5	6618.7	10625.6
77.5°	317.6	329.7	337.7	364.5	517.3	848.3	1421.8	4435.7	4652.8	4805.6	8146.4
80°	281.4	293.5	297.5	323.0	428.8	663.3	927.3	3276.5	3480.2	3515.1	5320.2
82.5°	239.9	251.9	251.9	276.1	351.1	477.1	608.4	2244.7	2284.9	2402.8	3760.3
85°	193.0	202.4	202.4	214.4	272.0	356.5	418.1	1127.0	1115.0	1273.1	3257.8
87.5°	138.0	144.7	151.4	154.1	194.3	235.9	251.9	343.1	226.5	260.0	2091.9
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: P192115

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7050-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2	8236.2
2.5°	9461.0	9537.4	9459.7	9403.4	9160.9	8961.2	8694.5	8557.8
5°	10170.0	10364.3	10298.6	10062.7	9556.2	8986.7	8339.4	8047.2
7.5°	10084.2	10535.8	10546.5	10105.6	9359.2	8520.3	7643.9	7228.5
10°	9416.8	9994.4	10159.2	9731.7	8939.7	8001.7	6996.6	6522.2
12.5°	8671.7	9237.2	9363.2	9215.8	8553.8	7611.7	6591.9	6126.9
15°	8062.0	8315.3	8465.4	8594.0	8222.8	7456.3	6569.1	6058.6
17.5°	7690.8	7662.6	7705.5	7929.3	7992.3	7634.5	6917.6	6354.7
20°	7556.8	7126.6	7115.9	7424.1	7883.8	8059.3	7598.3	6922.9
22.5°	7630.5	6933.6	6845.2	7211.0	7941.4	8671.7	8490.8	7720.3
25°	7885.1	6949.7	6878.7	7232.5	8150.4	9324.4	9454.3	8752.1
27.5°	8285.8	7051.6	6957.8	7320.9	8427.8	9872.5	10403.1	9751.8
30°	8666.4	7228.5	7111.9	7495.1	8681.1	10089.5	10984.7	10531.8
32.5°	9128.7	7559.5	7354.4	7815.4	8994.7	10435.3	11503.3	11177.7
35°	9581.7	8031.2	7776.6	8309.9	9344.5	10865.5	12095.7	12003.2
37.5°	10078.8	8647.6	8437.2	8949.1	9822.9	11271.5	12851.5	12970.7
40°	10609.5	9465.1	9215.8	9881.8	10565.3	11780.7	13640.8	13927.6
42.5°	11144.2	10372.3	10074.8	10750.2	11381.4	12283.3	14316.2	14741.0
45°	11756.6	11357.3	11216.6	11946.9	12165.3	12761.7	14814.7	15342.7
47.5°	12469.6	12474.9	12701.4	12993.5	12956.0	13303.1	15315.9	15880.1
50°	13301.7	13869.9	14369.8	14564.1	13770.8	13884.7	16011.4	16599.7
52.5°	14301.5	15538.4	16157.5	16030.2	14648.5	14594.9	17113.0	17591.4
55°	15551.8	17304.6	17919.7	17828.6	15657.6	15562.5	18485.2	18764.0
57.5°	16999.1	19015.9	19581.4	19171.3	16869.1	16623.8	19620.3	19679.2
60°	18270.8	20372.1	20867.9	20413.6	18091.2	17753.5	20329.2	20043.7
62.5°	18978.4	20831.7	21180.1	20691.0	18928.8	18956.9	20484.6	19846.8
65°	18662.1	19669.9	19782.4	19742.2	18713.0	19655.1	19925.8	18936.8
67.5°	16930.7	16732.4	16921.3	17182.7	16863.7	18735.8	18378.0	16954.8
70°	13880.7	12791.2	13167.7	13343.3	13488.0	16122.6	15951.1	13809.6
72.5°	10460.8	8961.2	9258.7	9222.5	9892.6	12931.9	12405.2	10153.9
75°	7412.0	6076.0	6113.5	6098.8	6902.8	10117.7	8982.6	6947.0
77.5°	5186.2	4402.2	4422.3	4505.4	4640.7	7630.5	6417.7	5074.9
80°	3566.0	3340.8	3452.1	3458.8	3216.2	5125.8	4741.2	4072.5
82.5°	2656.1	2322.4	2295.6	2334.4	2520.7	4152.9	3643.7	2824.9
85°	2175.0	1374.9	1105.6	1385.7	2233.9	4112.7	2420.2	1490.2
87.5°	1224.8	652.6	294.8	546.8	891.2	2723.1	699.5	190.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)