

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: P193858

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193858  
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-10-LED-E1-SLR-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 27837 lumens  
Efficiency: N/A  
Efficacy: 86.2 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): 323  
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

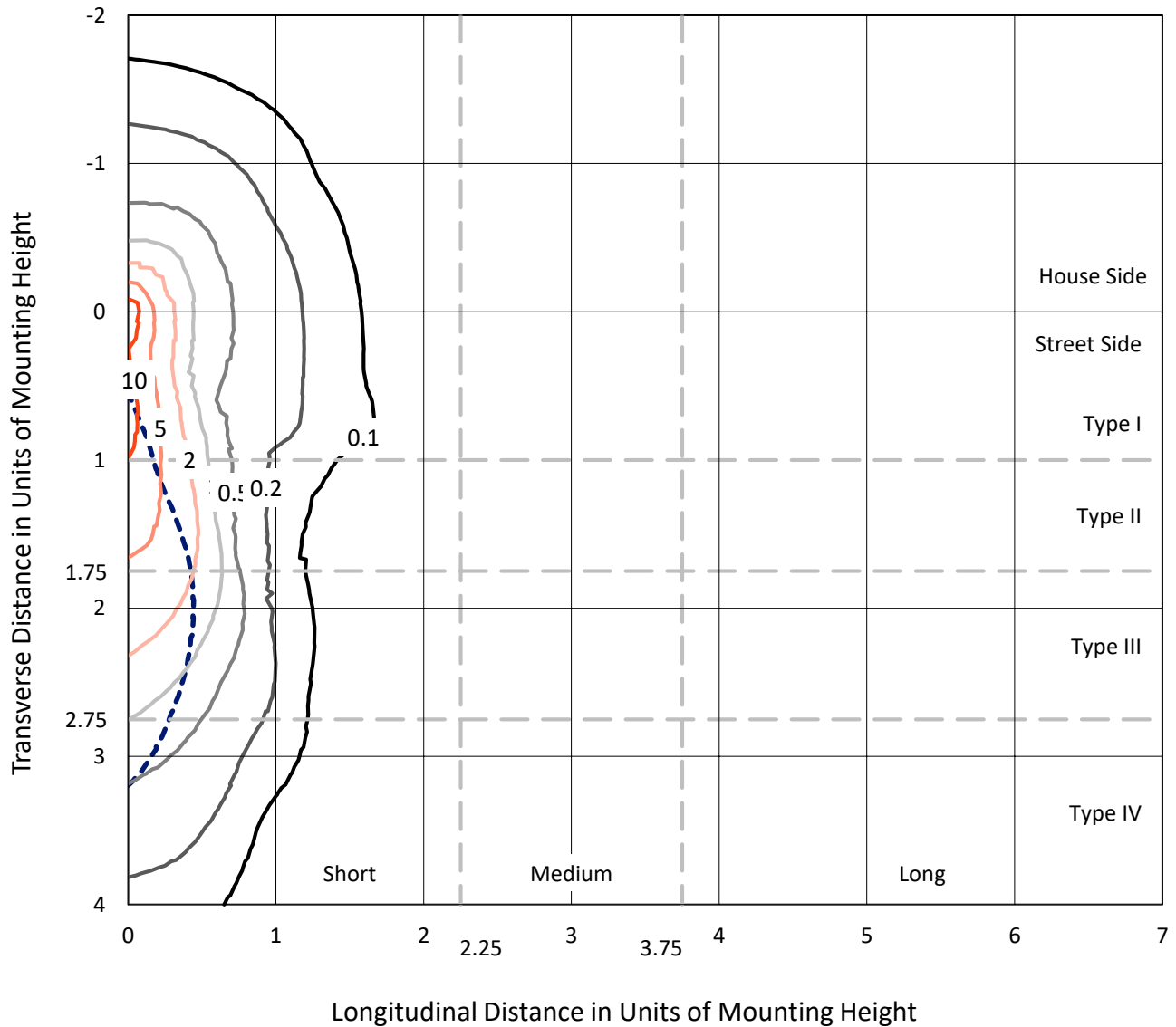


REPORT NUMBER: P193858

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-600

### Iso-Footcandle Lines of Horizontal Illumination

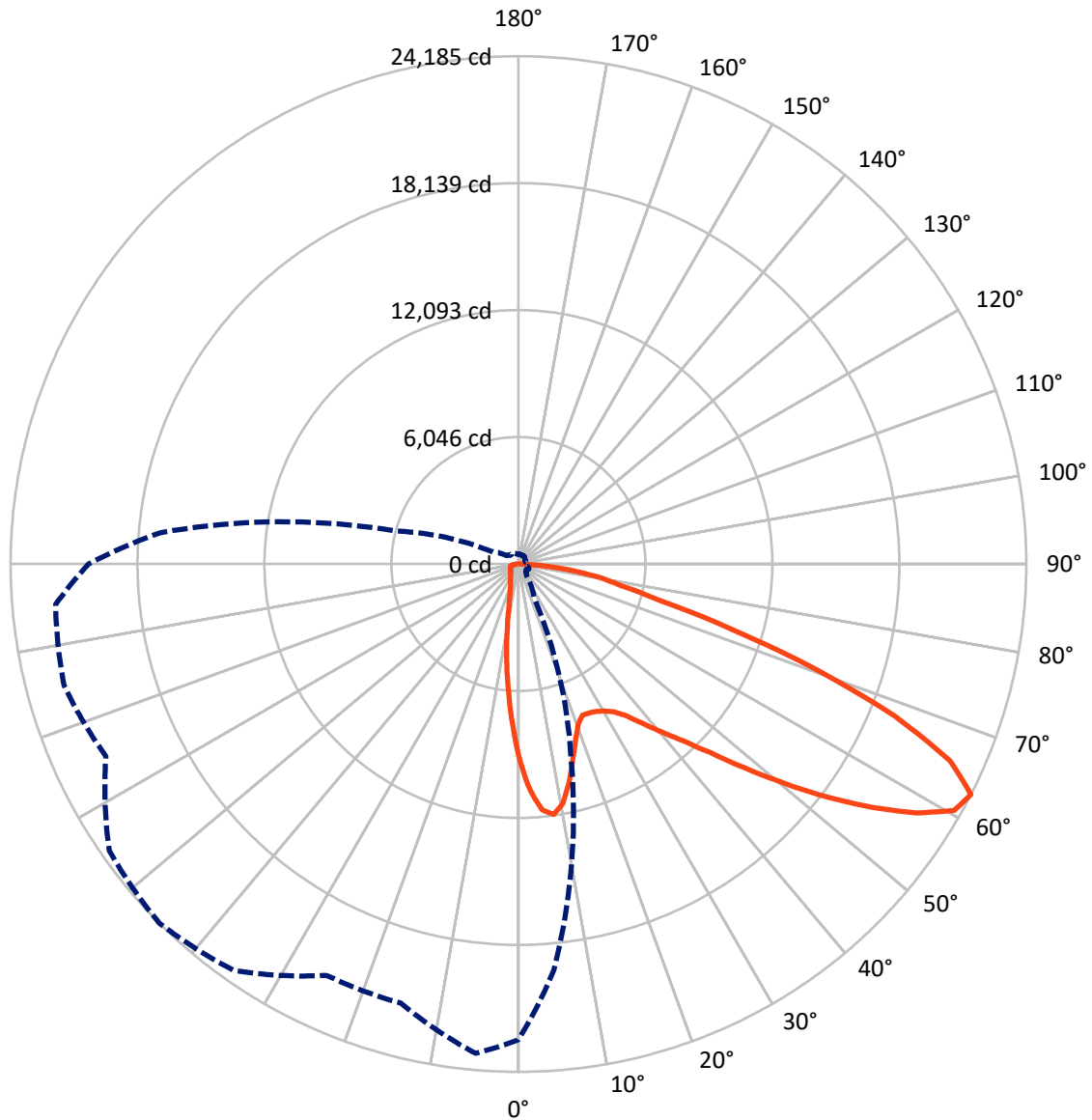
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193858  
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P193858

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4606.6	0.0	4606.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	23230.4	0.0	23230.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	27837.0	0.0	27837.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	684.6	2.5
10°-20°	1255.4	4.5
20°-30°	1830.4	6.6
30°-40°	2819.1	10.1
40°-50°	4149.0	14.9
50°-60°	6085.6	21.9
60°-70°	6802.9	24.4
70°-80°	3330.6	12.0
80°-90°	879.4	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°	27837.0	100.0
0°-180°	27837.0	100.0



REPORT NUMBER: P193858

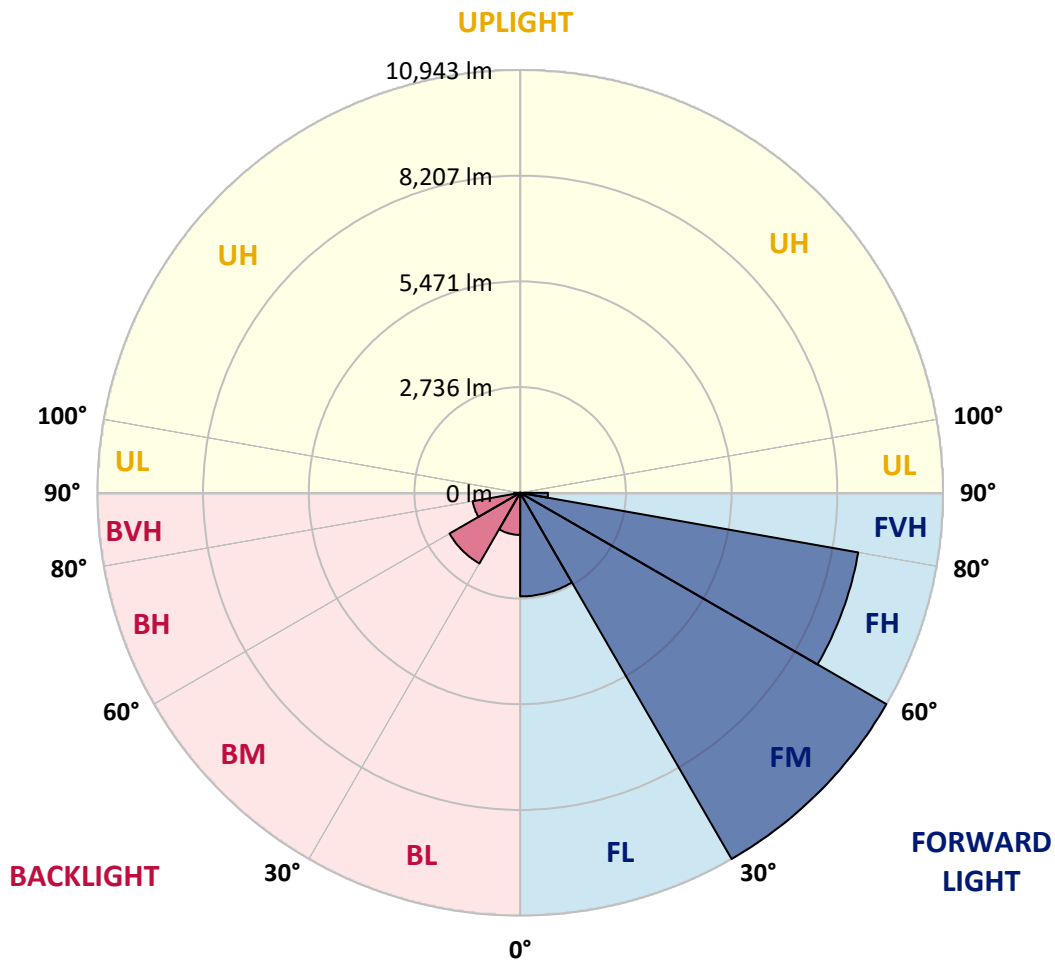
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2680.6	9.6			
FM	(30°-60°)	10943.0	39.3			
FH	(60°-80°)	8884.6	31.9			G4/12000
FVH	(80°-90°)	722.2	2.6			G4/750
BL	(0°-30°)	1089.9	3.9	B3/2500		
BM	(30°-60°)	2110.7	7.6	B2/2500		
BH	(60°-80°)	1248.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	157.2	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: P193858

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8
2.5°	9772.1	9573.2	9242.6	8898.3	8688.7	8443.8	8252.6	8084.2	7747.6	7681.8	7741.5
5°	9189.1	8789.7	8166.9	7539.5	7121.7	6673.4	6324.5	6044.4	5617.5	5542.5	5632.8
7.5°	8254.1	7776.7	6953.4	6153.1	5562.4	5002.3	4625.9	4326.0	3992.4	3848.5	3857.7
10°	7447.7	6909.0	5935.8	5065.1	4581.5	4203.6	3886.8	3579.2	3241.0	3019.2	2957.9
12.5°	6996.2	6376.5	5254.8	4477.5	4029.1	3631.3	3290.0	2961.0	2599.9	2373.4	2309.1
15°	6918.2	6244.9	4999.3	4101.0	3539.4	3036.0	2633.5	2266.3	1894.4	1710.8	1672.5
17.5°	7256.4	6480.6	4916.7	3765.9	3078.8	2457.6	1963.3	1553.2	1250.2	1158.4	1150.7
20°	7905.2	6933.5	4905.9	3450.7	2624.4	1896.0	1368.0	1069.6	936.5	910.5	912.0
22.5°	8815.7	7635.9	5037.5	3213.5	2206.6	1413.9	1028.3	895.2	843.2	818.7	818.7
25°	9994.0	8603.0	5340.5	3040.6	1843.9	1129.3	907.4	827.9	778.9	762.1	765.1
27.5°	11135.5	9544.1	5692.5	2904.4	1606.7	1025.3	860.0	788.1	745.2	728.4	736.0
30°	12026.1	10379.6	5986.3	2719.2	1485.9	996.2	876.8	803.4	742.2	716.2	717.7
32.5°	12763.7	11111.1	6232.7	2586.1	1378.7	853.9	755.9	723.8	716.2	685.5	670.2
35°	13706.3	11908.3	6397.9	2589.2	1328.2	762.1	673.3	616.7	575.4	540.2	540.2
37.5°	14811.2	12823.4	6573.9	2624.4	1309.9	708.5	644.2	587.6	549.4	515.7	509.6
40°	15903.8	13720.1	6734.6	2658.0	1299.2	676.4	621.3	569.2	534.1	500.4	491.2
42.5°	16832.6	14457.7	6878.4	2674.9	1262.4	673.3	604.4	557.0	523.3	486.6	477.4
45°	17519.7	15075.9	7033.0	2700.9	1225.7	685.5	604.4	555.5	514.2	479.0	469.8
47.5°	18133.3	15801.2	7291.6	2700.9	1181.3	662.6	624.3	557.0	512.6	475.9	468.3
50°	18955.0	16795.9	7781.3	2638.1	1118.6	638.1	658.0	550.9	498.9	469.8	460.6
52.5°	20087.4	18070.6	8558.6	2529.5	1022.2	590.7	653.4	547.8	485.1	454.5	443.8
55°	21426.4	19435.5	9406.4	2402.5	878.4	557.0	630.5	540.2	469.8	436.1	425.4
57.5°	22471.5	20375.1	10003.2	2206.6	752.9	538.6	558.5	532.5	451.4	416.2	407.0
60°	22887.8	20338.4	10166.9	1944.9	691.7	523.3	488.1	596.8	436.1	400.9	390.2
62.5°	22662.8	19398.8	9707.8	1761.3	677.9	503.4	457.5	552.4	423.9	390.2	374.9
65°	21623.8	17733.9	8491.3	1712.3	717.7	483.6	437.6	433.1	407.0	374.9	359.6
67.5°	19360.6	15245.8	6798.8	1716.9	768.2	463.7	417.8	396.3	384.1	358.1	344.3
70°	15769.1	12053.7	5068.1	1729.2	794.2	440.7	396.3	373.4	359.6	333.6	324.4
72.5°	11594.6	9290.1	3681.8	1649.6	798.8	414.7	367.3	347.4	333.6	306.0	298.4
75°	7932.7	7106.4	2554.0	1366.5	696.3	378.0	335.1	316.8	307.6	273.9	269.3
77.5°	5795.0	5334.4	1634.3	1014.5	537.1	332.1	295.3	281.6	275.4	238.7	232.6
80°	4650.4	4220.4	1022.2	694.7	393.3	278.5	247.9	240.2	234.1	197.4	192.8
82.5°	3225.7	2826.3	656.5	451.4	295.3	215.8	195.9	192.8	183.6	150.0	145.4
85°	1701.6	1534.8	416.2	307.6	214.2	148.4	136.2	136.2	131.6	99.5	96.4
87.5°	217.3	353.5	211.2	160.7	117.8	65.8	65.8	64.3	68.9	56.6	49.0
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: P193858

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-600

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8
2.5°	7600.7	7674.1	7603.7	7608.3	7686.4	7919.0	8024.6	8111.8	8205.1	8266.3	8293.9
5°	5508.9	5680.2	5738.4	5860.8	6041.4	6338.2	6456.1	6541.8	6598.4	6632.0	6645.8
7.5°	3767.4	3871.5	3987.8	4185.2	4578.5	4752.9	4831.0	4811.1	4746.8	4723.8	4700.9
10°	2840.1	2798.8	2777.4	2886.0	3204.3	3380.3	3435.4	3381.8	3346.6	3354.3	3392.5
12.5°	2200.5	2128.6	2041.3	2029.1	2238.7	2396.4	2431.5	2434.6	2498.9	2555.5	2639.7
15°	1603.7	1596.0	1553.2	1527.2	1646.5	1775.1	1790.4	1817.9	1876.1	1917.4	1990.8
17.5°	1130.8	1172.2	1205.8	1222.7	1312.9	1404.8	1387.9	1374.2	1363.4	1363.4	1398.6
20°	912.0	939.6	982.4	1031.4	1123.2	1187.5	1146.1	1091.1	1051.3	1039.0	1043.6
22.5°	821.7	843.2	867.6	910.5	993.1	1037.5	993.1	953.3	913.6	899.8	895.2
25°	775.8	803.4	826.3	858.5	919.7	950.3	907.4	878.4	853.9	837.0	824.8
27.5°	749.8	774.3	780.4	795.7	847.8	875.3	853.9	841.6	826.3	811.0	795.7
30°	722.3	717.7	707.0	708.5	749.8	777.4	775.8	778.9	777.4	772.8	769.7
32.5°	659.5	650.4	641.2	650.4	688.6	713.1	714.6	720.7	720.7	719.2	731.5
35°	549.4	566.2	576.9	604.4	650.4	671.8	662.6	647.3	619.7	602.9	601.4
37.5°	508.0	511.1	529.5	567.7	618.2	638.1	624.3	589.1	570.8	567.7	572.3
40°	488.1	491.2	501.9	537.1	587.6	607.5	595.3	569.2	552.4	550.9	558.5
42.5°	474.4	477.4	483.6	508.0	549.4	573.8	575.4	557.0	537.1	538.6	546.3
45°	466.7	468.3	466.7	479.0	517.2	546.3	558.5	546.3	529.5	532.5	541.7
47.5°	465.2	460.6	454.5	457.5	497.3	526.4	541.7	537.1	529.5	532.5	540.2
50°	459.1	448.4	440.7	439.2	479.0	509.6	523.3	523.3	526.4	532.5	540.2
52.5°	440.7	428.5	428.5	423.9	466.7	495.8	505.0	506.5	511.1	521.8	532.5
55°	417.8	413.2	417.8	410.1	457.5	485.1	489.7	492.7	495.8	505.0	520.3
57.5°	397.9	391.7	402.5	399.4	449.9	474.4	474.4	480.5	480.5	492.7	505.0
60°	387.2	374.9	379.5	382.6	439.2	465.2	462.1	468.3	471.3	482.0	491.2
62.5°	373.4	362.7	362.7	370.3	426.9	451.4	449.9	454.5	466.7	469.8	479.0
65°	356.5	352.0	347.4	356.5	414.7	436.1	437.6	443.8	454.5	457.5	465.2
67.5°	339.7	341.2	332.1	341.2	404.0	420.8	420.8	433.1	437.6	443.8	451.4
70°	321.3	322.9	315.2	325.9	396.3	404.0	402.5	419.3	422.3	426.9	434.6
72.5°	298.4	298.4	295.3	310.6	384.1	387.2	384.1	397.9	399.4	404.0	407.0
75°	273.9	273.9	270.9	292.3	376.4	368.8	359.6	370.3	373.4	376.4	376.4
77.5°	241.8	244.8	244.8	270.9	350.4	361.1	330.5	336.7	341.2	342.8	338.2
80°	202.0	209.6	212.7	246.4	293.8	333.6	295.3	299.9	301.5	301.5	295.3
82.5°	154.6	168.3	176.0	212.7	224.9	280.0	257.1	261.7	257.1	247.9	244.8
85°	107.1	125.5	134.7	162.2	169.9	215.8	214.2	214.2	205.1	192.8	191.3
87.5°	58.1	68.9	75.0	96.4	116.3	145.4	157.6	153.0	145.4	137.7	139.3
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: P193858

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-600

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8
2.5°	8437.7	8645.8	8977.9	9231.9	9487.5	9733.8	10000.1	10203.6	10376.5	10443.9	10648.9
5°	6785.1	7045.2	7358.9	7925.1	8326.0	8768.3	9279.4	9955.7	10215.9	10575.5	11164.6
7.5°	4797.3	5033.0	5537.9	5995.5	6563.2	7189.1	7879.2	8812.6	9153.9	9730.8	10690.2
10°	3582.3	3856.2	4261.7	4647.3	5147.7	5787.4	6580.0	7623.6	8038.3	8664.2	9769.0
12.5°	2886.0	3208.9	3638.9	4001.6	4388.7	4840.1	5609.8	6754.5	7309.9	7857.8	8974.8
15°	2217.3	2555.5	2954.9	3415.5	3842.4	4329.0	5135.5	6387.2	7026.8	7597.6	8551.0
17.5°	1534.8	1824.0	2327.5	2808.0	3354.3	3977.1	5003.9	6465.3	7228.8	7886.8	8624.4
20°	1088.0	1253.3	1666.4	2223.4	2904.4	3686.3	4979.4	6875.4	7868.5	8619.8	9095.7
22.5°	915.1	976.3	1216.5	1727.6	2514.2	3469.0	5065.1	7450.7	8731.5	9691.0	9847.1
25°	834.0	870.7	996.2	1355.8	2166.8	3311.4	5354.3	8307.7	9799.6	10762.2	10734.6
27.5°	789.6	827.9	910.5	1144.6	1905.1	3213.5	5643.5	9323.7	11020.8	11925.1	11582.4
30°	775.8	827.9	915.1	1078.8	1718.5	3058.9	5880.7	10215.9	11960.3	12710.2	11968.0
32.5°	765.1	772.8	812.6	930.4	1540.9	2878.4	6041.4	11016.2	12880.0	13456.9	12523.5
35°	618.2	656.5	720.7	834.0	1436.9	2769.7	6041.4	11706.3	13785.9	14211.3	13052.9
37.5°	595.3	628.9	685.5	782.0	1378.7	2716.2	5920.5	12372.0	14711.7	15066.7	13489.0
40°	583.0	610.6	664.1	742.2	1354.3	2655.0	5744.5	12959.6	15616.1	15923.6	13896.1
42.5°	573.8	598.3	648.8	717.7	1322.1	2587.6	5602.2	13430.9	16401.1	16655.1	14284.8
45°	569.2	595.3	650.4	729.9	1257.9	2498.9	5554.8	13940.5	17046.8	17265.7	14705.6
47.5°	569.2	599.9	658.0	755.9	1181.3	2407.1	5703.2	14612.2	17657.4	17764.5	15201.4
50°	564.7	598.3	679.4	729.9	1069.6	2290.8	6052.1	15458.5	18318.5	18330.7	15828.8
52.5°	555.5	595.3	731.5	714.6	941.1	2137.7	6523.4	16544.9	19296.3	19369.7	16811.2
55°	544.8	590.7	717.7	679.4	835.5	1955.6	6909.0	17865.5	20670.4	20874.0	18255.7
57.5°	531.0	584.6	694.7	630.5	766.6	1721.5	7048.3	18832.6	21629.9	22141.0	19883.9
60°	518.8	580.0	627.4	601.4	723.8	1524.1	6779.0	18641.4	21564.1	22665.9	21326.9
62.5°	506.5	584.6	572.3	583.0	703.9	1397.1	6075.0	17109.6	20473.0	22124.2	22396.6
65°	492.7	543.2	540.2	567.7	699.3	1346.6	5036.0	14812.7	18364.4	20411.8	22649.0
67.5°	474.4	501.9	517.2	547.8	714.6	1302.2	4064.3	12218.9	15434.0	17845.6	21333.0
70°	454.5	477.4	494.3	523.3	705.4	1282.3	3380.3	9635.9	12246.5	14626.0	18736.2
72.5°	428.5	448.4	463.7	491.2	696.3	1271.6	2855.4	7759.8	9143.2	10864.7	15233.5
75°	397.9	416.2	426.9	454.5	667.2	1164.5	2244.9	6566.2	6841.7	7557.8	12133.3
77.5°	362.7	376.4	385.6	416.2	590.7	968.6	1623.6	5065.1	5313.0	5487.4	9302.3
80°	321.3	335.1	339.7	368.8	489.7	757.5	1058.9	3741.4	3974.0	4013.8	6075.0
82.5°	273.9	287.7	287.7	315.2	400.9	544.8	694.7	2563.1	2609.1	2743.7	4293.8
85°	220.4	231.1	231.1	244.8	310.6	407.0	477.4	1286.9	1273.2	1453.7	3720.0
87.5°	157.6	165.3	172.9	176.0	221.9	269.3	287.7	391.7	258.6	296.9	2388.7
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: P193858

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8
2.5°	10803.5	10890.7	10801.9	10737.7	10460.7	10232.7	9928.2	9772.1
5°	11613.0	11834.9	11759.9	11490.6	10912.1	10261.8	9522.7	9189.1
7.5°	11515.0	12030.7	12043.0	11539.5	10687.2	9729.2	8728.5	8254.1
10°	10753.0	11412.5	11600.7	11112.6	10208.2	9137.0	7989.4	7447.7
12.5°	9902.2	10547.9	10691.8	10523.4	9767.5	8691.7	7527.2	6996.2
15°	9205.9	9495.1	9666.5	9813.4	9389.5	8514.2	7501.2	6918.2
17.5°	8782.0	8749.9	8798.9	9054.4	9126.3	8717.8	7899.1	7256.4
20°	8629.0	8137.8	8125.6	8477.5	9002.4	9202.8	8676.4	7905.2
22.5°	8713.2	7917.4	7816.5	8234.2	9068.2	9902.2	9695.6	8815.7
25°	9003.9	7935.8	7854.7	8258.7	9306.9	10647.4	10795.8	9994.0
27.5°	9461.5	8052.1	7945.0	8359.7	9623.7	11273.3	11879.2	11135.5
30°	9896.0	8254.1	8121.0	8558.6	9912.9	11521.2	12543.4	12026.1
32.5°	10424.0	8632.1	8397.9	8924.3	10271.0	11916.0	13135.6	12763.7
35°	10941.2	9170.7	8880.0	9489.0	10670.3	12407.2	13811.9	13706.3
37.5°	11508.9	9874.6	9634.4	10218.9	11216.6	12870.8	14675.0	14811.2
40°	12114.9	10808.1	10523.4	11284.0	12064.4	13452.3	15576.3	15903.8
42.5°	12725.5	11844.0	11504.3	12275.6	12996.3	14026.2	16347.5	16832.6
45°	13424.8	12968.8	12808.1	13642.1	13891.5	14572.4	16916.8	17519.7
47.5°	14238.9	14245.0	14503.6	14837.2	14794.3	15190.7	17489.1	18133.3
50°	15189.1	15838.0	16408.7	16630.6	15724.7	15854.8	18283.3	18955.0
52.5°	16330.7	17743.1	18450.1	18304.7	16727.0	16665.8	19541.1	20087.4
55°	17758.4	19760.0	20462.3	20358.3	17879.3	17770.6	21108.1	21426.4
57.5°	19411.1	21714.1	22359.8	21891.6	19262.6	18982.6	22404.2	22471.5
60°	20863.3	23262.7	23828.9	23310.1	20658.2	20272.6	23213.7	22887.8
62.5°	21671.2	23787.5	24185.4	23626.9	21614.6	21646.7	23391.2	22662.8
65°	21310.1	22460.8	22589.4	22543.5	21368.2	22444.0	22753.1	21623.8
67.5°	19333.0	19106.5	19322.3	19620.7	19256.5	21394.2	20985.7	19360.6
70°	15850.2	14606.1	15036.1	15236.6	15401.8	18410.3	18214.4	15769.1
72.5°	11945.0	10232.7	10572.4	10531.1	11296.2	14766.8	14165.4	11594.6
75°	8463.7	6938.1	6980.9	6964.1	7882.3	11553.3	10257.2	7932.7
77.5°	5922.0	5026.8	5049.8	5144.7	5299.2	8713.2	7328.3	5795.0
80°	4072.0	3814.9	3941.9	3949.5	3672.6	5853.2	5414.0	4650.4
82.5°	3032.9	2651.9	2621.3	2665.7	2878.4	4742.2	4160.7	3225.7
85°	2483.6	1570.0	1262.4	1582.3	2550.9	4696.3	2763.6	1701.6
87.5°	1398.6	745.2	336.7	624.3	1017.6	3109.4	798.8	217.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)