

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: P193870

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193870
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-02-LED-E1-SLR-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 8734 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

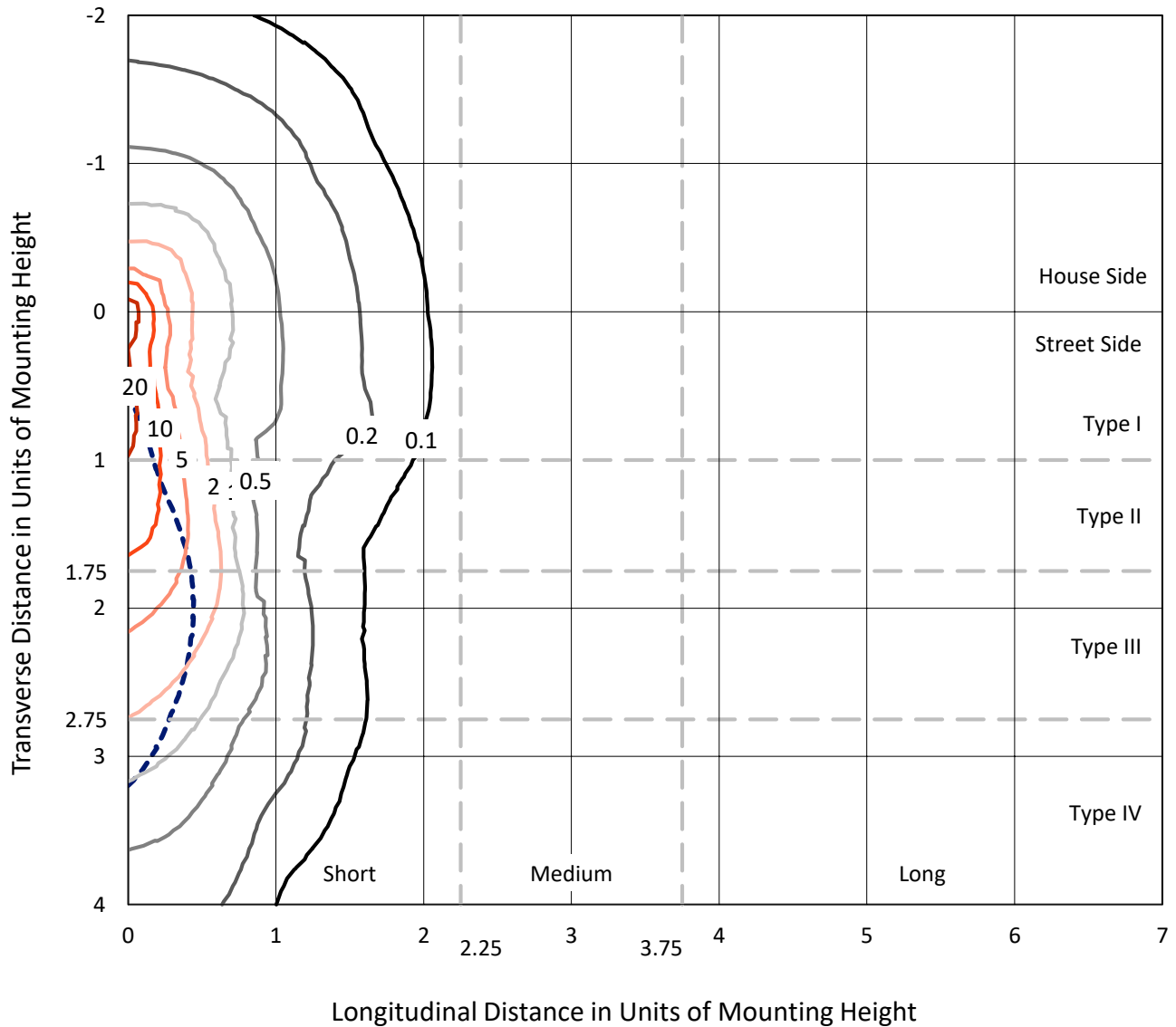
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193870
 CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-8030

Iso-Footcandle Lines of Horizontal Illumination

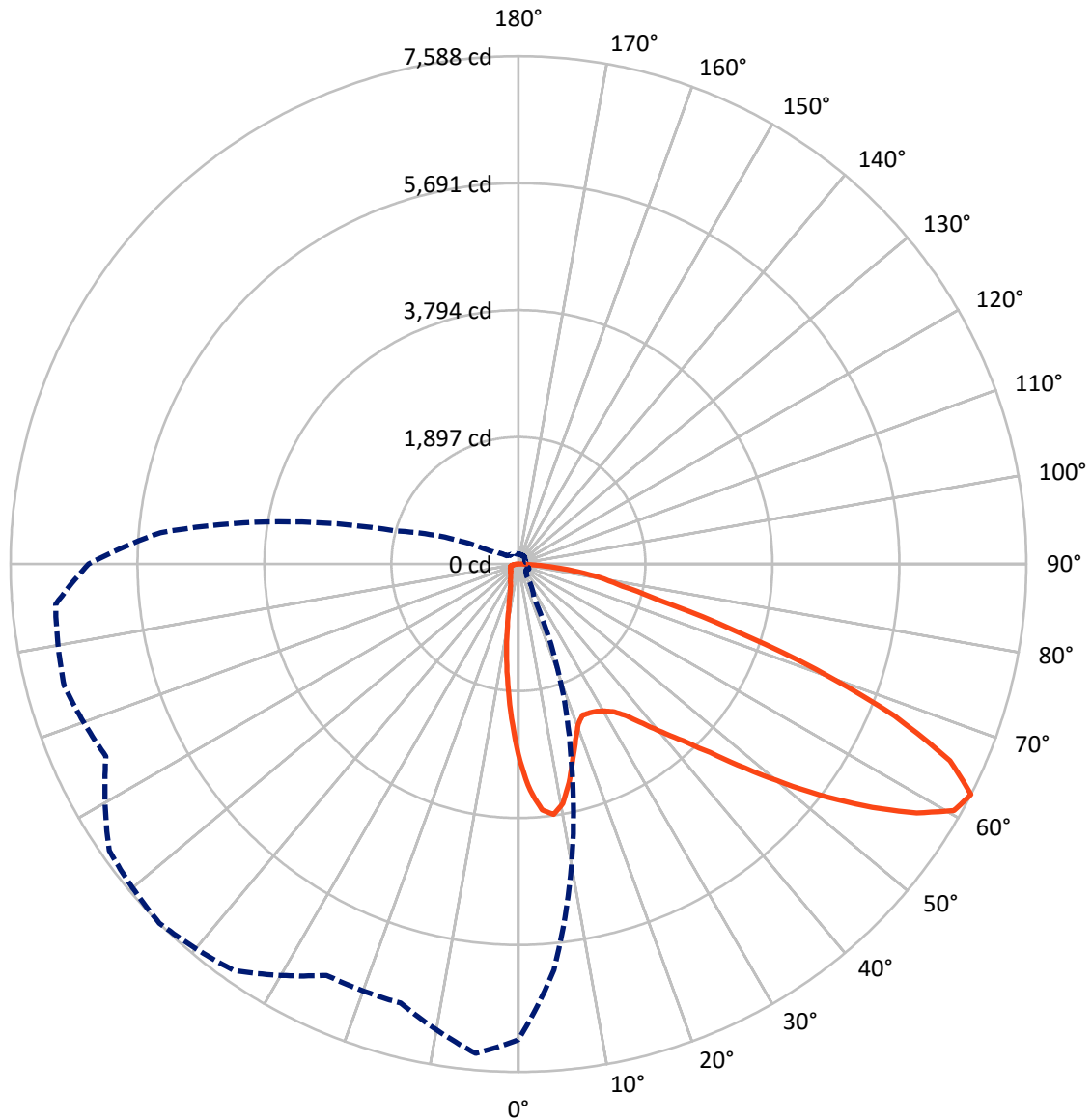
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193870
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193870

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1445.4	0.0	1445.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7288.6	0.0	7288.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	8734.0	0.0	8734.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	2.5
10°-20°	393.9	4.5
20°-30°	574.3	6.6
30°-40°	884.5	10.1
40°-50°	1301.8	14.9
50°-60°	1909.4	21.9
60°-70°	2134.4	24.4
70°-80°	1045.0	12.0
80°-90°	275.9	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°	8734.0	100.0
0°-180°	8734.0	100.0



REPORT NUMBER: P193870

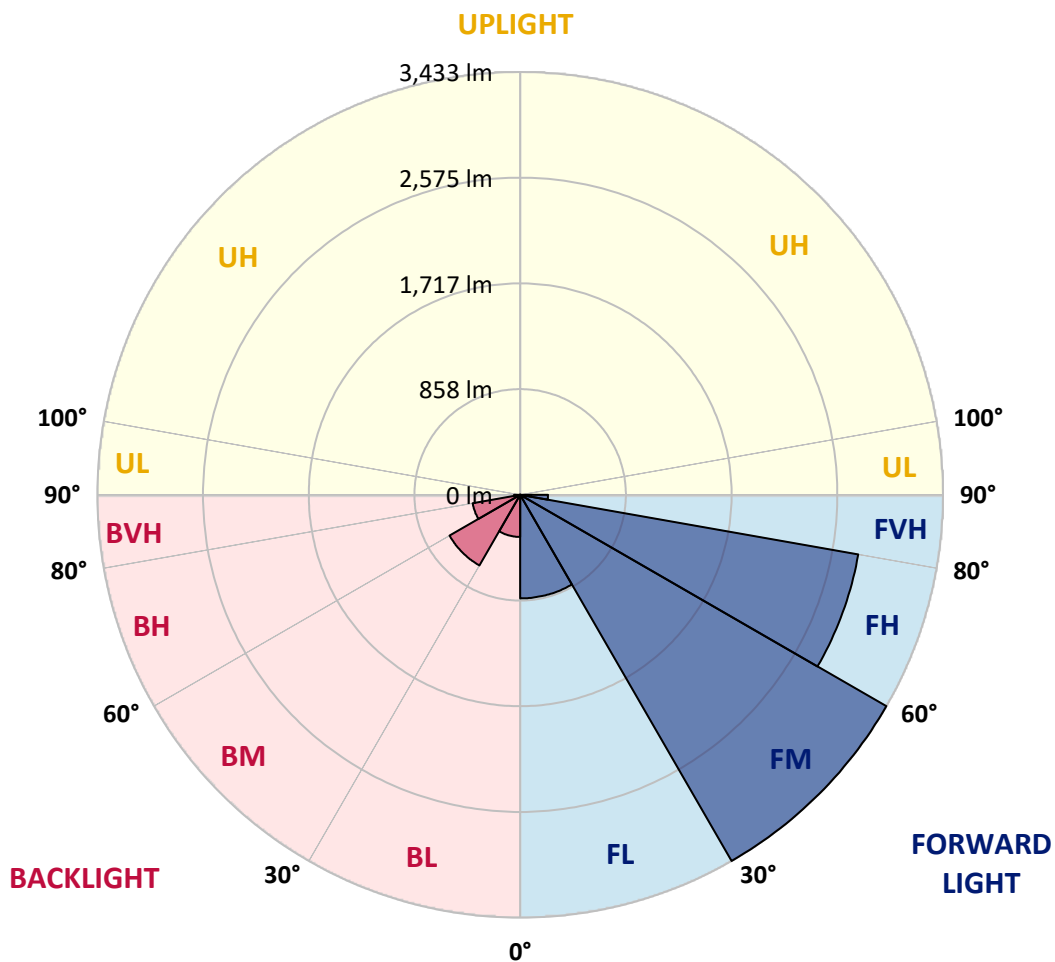
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	841.1	9.6			
FM	(30°-60°)	3433.4	39.3			
FH	(60°-80°)	2787.6	31.9			G2/5000
FVH	(80°-90°)	226.6	2.6			G3/500
BL	(0°-30°)	341.9	3.9	B1/500		
BM	(30°-60°)	662.3	7.6	B1/1000		
BH	(60°-80°)	391.8	4.5	B1/500		G1/500
BVH	(80°-90°)	49.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P193870
 CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8
2.5°	3066.0	3003.6	2899.9	2791.9	2726.1	2649.3	2589.3	2536.5	2430.8	2410.2	2428.9
5°	2883.1	2757.8	2562.4	2365.5	2234.5	2093.8	1984.3	1896.5	1762.5	1739.0	1767.3
7.5°	2589.8	2440.0	2181.7	1930.6	1745.2	1569.5	1451.4	1357.3	1252.6	1207.5	1210.4
10°	2336.7	2167.7	1862.4	1589.2	1437.5	1318.9	1219.5	1123.0	1016.9	947.3	928.1
12.5°	2195.1	2000.7	1648.7	1404.8	1264.2	1139.3	1032.3	929.0	815.7	744.7	724.5
15°	2170.6	1959.4	1568.6	1286.7	1110.5	952.6	826.3	711.1	594.4	536.8	524.8
17.5°	2276.7	2033.3	1542.6	1181.6	966.0	771.1	616.0	487.3	392.3	363.5	361.1
20°	2480.3	2175.4	1539.3	1082.7	823.4	594.9	429.2	335.6	293.8	285.7	286.2
22.5°	2766.0	2395.8	1580.6	1008.3	692.3	443.6	322.6	280.9	264.5	256.9	256.9
25°	3135.7	2699.2	1675.6	954.0	578.5	354.3	284.7	259.7	244.4	239.1	240.1
27.5°	3493.8	2994.5	1786.0	911.3	504.1	321.7	269.8	247.3	233.8	228.5	230.9
30°	3773.3	3256.7	1878.2	853.2	466.2	312.6	275.1	252.1	232.9	224.7	225.2
32.5°	4004.7	3486.1	1955.5	811.4	432.6	267.9	237.2	227.1	224.7	215.1	210.3
35°	4300.4	3736.3	2007.4	812.4	416.7	239.1	211.3	193.5	180.5	169.5	169.5
37.5°	4647.1	4023.4	2062.6	823.4	411.0	222.3	202.1	184.4	172.4	161.8	159.9
40°	4989.9	4304.8	2113.0	834.0	407.6	212.2	194.9	178.6	167.6	157.0	154.1
42.5°	5281.3	4536.2	2158.1	839.2	396.1	211.3	189.6	174.8	164.2	152.7	149.8
45°	5496.9	4730.1	2206.6	847.4	384.6	215.1	189.6	174.3	161.3	150.3	147.4
47.5°	5689.4	4957.7	2287.8	847.4	370.7	207.9	195.9	174.8	160.8	149.3	146.9
50°	5947.2	5269.8	2441.4	827.7	351.0	200.2	206.5	172.8	156.5	147.4	144.5
52.5°	6302.5	5669.7	2685.3	793.6	320.7	185.3	205.0	171.9	152.2	142.6	139.2
55°	6722.6	6098.0	2951.3	753.8	275.6	174.8	197.8	169.5	147.4	136.8	133.5
57.5°	7050.6	6392.8	3138.5	692.3	236.2	169.0	175.2	167.1	141.6	130.6	127.7
60°	7181.2	6381.3	3189.9	610.2	217.0	164.2	153.2	187.2	136.8	125.8	122.4
62.5°	7110.6	6086.5	3045.9	552.6	212.7	158.0	143.6	173.3	133.0	122.4	117.6
65°	6784.6	5564.1	2664.2	537.3	225.2	151.7	137.3	135.9	127.7	117.6	112.8
67.5°	6074.5	4783.4	2133.2	538.7	241.0	145.5	131.1	124.4	120.5	112.3	108.0
70°	4947.6	3781.9	1590.2	542.5	249.2	138.3	124.4	117.1	112.8	104.7	101.8
72.5°	3637.9	2914.8	1155.2	517.6	250.6	130.1	115.2	109.0	104.7	96.0	93.6
75°	2488.9	2229.7	801.3	428.7	218.5	118.6	105.1	99.4	96.5	85.9	84.5
77.5°	1818.2	1673.7	512.8	318.3	168.5	104.2	92.7	88.3	86.4	74.9	73.0
80°	1459.1	1324.2	320.7	218.0	123.4	87.4	77.8	75.4	73.5	61.9	60.5
82.5°	1012.1	886.8	206.0	141.6	92.7	67.7	61.5	60.5	57.6	47.1	45.6
85°	533.9	481.6	130.6	96.5	67.2	46.6	42.7	42.7	41.3	31.2	30.2
87.5°	68.2	110.9	66.3	50.4	37.0	20.6	20.6	20.2	21.6	17.8	15.4
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: P193870

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8
2.5°	2384.8	2407.8	2385.7	2387.2	2411.6	2484.6	2517.7	2545.1	2574.4	2593.6	2602.2
5°	1728.4	1782.2	1800.4	1838.9	1895.5	1988.7	2025.6	2052.5	2070.3	2080.8	2085.2
7.5°	1182.1	1214.7	1251.2	1313.1	1436.5	1491.3	1515.7	1509.5	1489.3	1482.1	1474.9
10°	891.1	878.1	871.4	905.5	1005.4	1060.6	1077.9	1061.1	1050.0	1052.4	1064.4
12.5°	690.4	667.8	640.5	636.6	702.4	751.9	762.9	763.9	784.0	801.8	828.2
15°	503.2	500.8	487.3	479.2	516.6	556.9	561.7	570.4	588.6	601.6	624.6
17.5°	354.8	367.8	378.3	383.6	411.9	440.7	435.5	431.1	427.8	427.8	438.8
20°	286.2	294.8	308.2	323.6	352.4	372.6	359.6	342.3	329.8	326.0	327.4
22.5°	257.8	264.5	272.2	285.7	311.6	325.5	311.6	299.1	286.6	282.3	280.9
25°	243.4	252.1	259.3	269.3	288.6	298.2	284.7	275.6	267.9	262.6	258.8
27.5°	235.3	242.9	244.9	249.7	266.0	274.6	267.9	264.1	259.3	254.5	249.7
30°	226.6	225.2	221.8	222.3	235.3	243.9	243.4	244.4	243.9	242.5	241.5
32.5°	206.9	204.1	201.2	204.1	216.1	223.7	224.2	226.1	226.1	225.7	229.5
35°	172.4	177.6	181.0	189.6	204.1	210.8	207.9	203.1	194.4	189.2	188.7
37.5°	159.4	160.4	166.1	178.1	194.0	200.2	195.9	184.8	179.1	178.1	179.6
40°	153.2	154.1	157.5	168.5	184.4	190.6	186.8	178.6	173.3	172.8	175.2
42.5°	148.8	149.8	151.7	159.4	172.4	180.0	180.5	174.8	168.5	169.0	171.4
45°	146.4	146.9	146.4	150.3	162.3	171.4	175.2	171.4	166.1	167.1	170.0
47.5°	146.0	144.5	142.6	143.6	156.0	165.2	170.0	168.5	166.1	167.1	169.5
50°	144.0	140.7	138.3	137.8	150.3	159.9	164.2	164.2	165.2	167.1	169.5
52.5°	138.3	134.4	134.4	133.0	146.4	155.6	158.4	158.9	160.4	163.7	167.1
55°	131.1	129.6	131.1	128.7	143.6	152.2	153.6	154.6	155.6	158.4	163.2
57.5°	124.8	122.9	126.3	125.3	141.2	148.8	148.8	150.8	150.8	154.6	158.4
60°	121.5	117.6	119.1	120.0	137.8	146.0	145.0	146.9	147.9	151.2	154.1
62.5°	117.1	113.8	113.8	116.2	134.0	141.6	141.2	142.6	146.4	147.4	150.3
65°	111.9	110.4	109.0	111.9	130.1	136.8	137.3	139.2	142.6	143.6	146.0
67.5°	106.6	107.1	104.2	107.1	126.8	132.0	132.0	135.9	137.3	139.2	141.6
70°	100.8	101.3	98.9	102.3	124.4	126.8	126.3	131.6	132.5	134.0	136.4
72.5°	93.6	93.6	92.7	97.5	120.5	121.5	120.5	124.8	125.3	126.8	127.7
75°	85.9	85.9	85.0	91.7	118.1	115.7	112.8	116.2	117.1	118.1	118.1
77.5°	75.9	76.8	76.8	85.0	109.9	113.3	103.7	105.6	107.1	107.5	106.1
80°	63.4	65.8	66.7	77.3	92.2	104.7	92.7	94.1	94.6	94.6	92.7
82.5°	48.5	52.8	55.2	66.7	70.6	87.9	80.7	82.1	80.7	77.8	76.8
85°	33.6	39.4	42.3	50.9	53.3	67.7	67.2	67.2	64.3	60.5	60.0
87.5°	18.2	21.6	23.5	30.2	36.5	45.6	49.5	48.0	45.6	43.2	43.7
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: P193870
 CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8
2.5°	2647.4	2712.7	2816.9	2896.6	2976.7	3054.0	3137.6	3201.4	3255.7	3276.8	3341.2
5°	2128.9	2210.5	2308.9	2486.5	2612.3	2751.1	2911.4	3123.7	3205.3	3318.1	3503.0
7.5°	1505.2	1579.1	1737.6	1881.1	2059.2	2255.6	2472.1	2765.0	2872.1	3053.1	3354.1
10°	1124.0	1209.9	1337.1	1458.1	1615.1	1815.8	2064.5	2392.0	2522.1	2718.4	3065.1
12.5°	905.5	1006.8	1141.7	1255.5	1377.0	1518.6	1760.1	2119.2	2293.5	2465.4	2815.9
15°	695.7	801.8	927.1	1071.6	1205.6	1358.3	1611.3	2004.0	2204.7	2383.8	2682.9
17.5°	481.6	572.3	730.3	881.0	1052.4	1247.8	1570.0	2028.5	2268.1	2474.5	2706.0
20°	341.4	393.2	522.9	697.6	911.3	1156.6	1562.3	2157.2	2468.8	2704.5	2853.8
22.5°	287.1	306.3	381.7	542.1	788.8	1088.4	1589.2	2337.7	2739.6	3040.6	3089.6
25°	261.7	273.2	312.6	425.4	679.8	1039.0	1679.9	2606.6	3074.7	3376.7	3368.0
27.5°	247.7	259.7	285.7	359.1	597.7	1008.3	1770.7	2925.4	3457.8	3741.6	3634.0
30°	243.4	259.7	287.1	338.5	539.2	959.8	1845.1	3205.3	3752.6	3987.9	3755.0
32.5°	240.1	242.5	254.9	291.9	483.5	903.1	1895.5	3456.4	4041.2	4222.2	3929.3
35°	194.0	206.0	226.1	261.7	450.8	869.0	1895.5	3672.9	4325.4	4458.9	4095.4
37.5°	186.8	197.3	215.1	245.3	432.6	852.2	1857.6	3881.8	4615.9	4727.3	4232.3
40°	182.9	191.6	208.4	232.9	424.9	833.0	1802.4	4066.1	4899.6	4996.1	4360.0
42.5°	180.0	187.7	203.6	225.2	414.8	811.9	1757.7	4214.0	5145.9	5225.6	4481.9
45°	178.6	186.8	204.1	229.0	394.7	784.0	1742.8	4373.9	5348.5	5417.2	4614.0
47.5°	178.6	188.2	206.5	237.2	370.7	755.2	1789.4	4584.7	5540.1	5573.7	4769.5
50°	177.2	187.7	213.2	229.0	335.6	718.7	1898.9	4850.2	5747.5	5751.4	4966.4
52.5°	174.3	186.8	229.5	224.2	295.3	670.7	2046.8	5191.1	6054.3	6077.4	5274.6
55°	170.9	185.3	225.2	213.2	262.1	613.6	2167.7	5605.4	6485.5	6549.3	5727.8
57.5°	166.6	183.4	218.0	197.8	240.5	540.1	2211.4	5908.8	6786.5	6946.9	6238.7
60°	162.8	182.0	196.8	188.7	227.1	478.2	2126.9	5848.8	6765.8	7111.5	6691.4
62.5°	158.9	183.4	179.6	182.9	220.9	438.3	1906.1	5368.2	6423.5	6941.6	7027.0
65°	154.6	170.4	169.5	178.1	219.4	422.5	1580.1	4647.6	5761.9	6404.3	7106.3
67.5°	148.8	157.5	162.3	171.9	224.2	408.6	1275.2	3833.8	4842.5	5599.2	6693.3
70°	142.6	149.8	155.1	164.2	221.3	402.3	1060.6	3023.3	3842.4	4589.0	5878.6
72.5°	134.4	140.7	145.5	154.1	218.5	399.0	895.9	2434.7	2868.7	3408.8	4779.6
75°	124.8	130.6	134.0	142.6	209.3	365.4	704.3	2060.2	2146.6	2371.3	3806.9
77.5°	113.8	118.1	121.0	130.6	185.3	303.9	509.4	1589.2	1667.0	1721.7	2918.6
80°	100.8	105.1	106.6	115.7	153.6	237.7	332.2	1173.9	1246.9	1259.4	1906.1
82.5°	85.9	90.3	90.3	98.9	125.8	170.9	218.0	804.2	818.6	860.9	1347.2
85°	69.1	72.5	72.5	76.8	97.5	127.7	149.8	403.8	399.5	456.1	1167.2
87.5°	49.5	51.9	54.3	55.2	69.6	84.5	90.3	122.9	81.1	93.1	749.5
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: P193870
 CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8
2.5°	3389.6	3417.0	3389.2	3369.0	3282.1	3210.6	3115.0	3066.0
5°	3643.6	3713.2	3689.7	3605.2	3423.7	3219.7	2987.8	2883.1
7.5°	3612.9	3774.7	3778.5	3620.6	3353.2	3052.6	2738.6	2589.8
10°	3373.8	3580.7	3639.8	3486.6	3202.9	2866.8	2506.7	2336.7
12.5°	3106.9	3309.5	3354.6	3301.8	3064.6	2727.1	2361.7	2195.1
15°	2888.4	2979.1	3032.9	3079.0	2946.0	2671.4	2353.5	2170.6
17.5°	2755.4	2745.3	2760.7	2840.9	2863.4	2735.2	2478.4	2276.7
20°	2707.4	2553.3	2549.4	2659.9	2824.5	2887.4	2722.3	2480.3
22.5°	2733.8	2484.1	2452.5	2583.5	2845.2	3106.9	3042.0	2766.0
25°	2825.0	2489.9	2464.5	2591.2	2920.1	3340.7	3387.2	3135.7
27.5°	2968.6	2526.4	2492.8	2622.9	3019.5	3537.0	3727.2	3493.8
30°	3104.9	2589.8	2548.0	2685.3	3110.2	3614.8	3935.5	3773.3
32.5°	3270.6	2708.4	2634.9	2800.1	3222.6	3738.7	4121.3	4004.7
35°	3432.9	2877.4	2786.1	2977.2	3347.9	3892.8	4333.6	4300.4
37.5°	3611.0	3098.2	3022.8	3206.2	3519.3	4038.3	4604.3	4647.1
40°	3801.1	3391.1	3301.8	3540.4	3785.3	4220.7	4887.1	4989.9
42.5°	3992.7	3716.1	3609.5	3851.5	4077.7	4400.8	5129.1	5281.3
45°	4212.1	4069.0	4018.6	4280.3	4358.5	4572.2	5307.7	5496.9
47.5°	4467.5	4469.4	4550.6	4655.2	4641.8	4766.1	5487.3	5689.4
50°	4765.7	4969.2	5148.3	5217.9	4933.7	4974.5	5736.5	5947.2
52.5°	5123.8	5567.0	5788.8	5743.2	5248.2	5229.0	6131.1	6302.5
55°	5571.8	6199.8	6420.2	6387.5	5609.7	5575.6	6622.8	6722.6
57.5°	6090.3	6812.9	7015.5	6868.6	6043.7	5955.9	7029.4	7050.6
60°	6546.0	7298.8	7476.4	7313.7	6481.6	6360.6	7283.4	7181.2
62.5°	6799.5	7463.5	7588.3	7413.0	6781.7	6791.8	7339.1	7110.6
65°	6686.1	7047.2	7087.5	7073.1	6704.4	7041.9	7138.9	6784.6
67.5°	6065.8	5994.8	6062.5	6156.1	6041.8	6712.6	6584.4	6074.5
70°	4973.1	4582.7	4717.7	4780.6	4832.4	5776.3	5714.9	4947.6
72.5°	3747.8	3210.6	3317.1	3304.2	3544.2	4633.2	4444.5	3637.9
75°	2655.5	2176.9	2190.3	2185.0	2473.1	3624.9	3218.2	2488.9
77.5°	1858.1	1577.2	1584.4	1614.2	1662.7	2733.8	2299.3	1818.2
80°	1277.6	1196.9	1236.8	1239.2	1152.3	1836.5	1698.7	1459.1
82.5°	951.6	832.0	822.4	836.4	903.1	1487.9	1305.4	1012.1
85°	779.2	492.6	396.1	496.4	800.4	1473.5	867.1	533.9
87.5°	438.8	233.8	105.6	195.9	319.3	975.6	250.6	68.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)