

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: P193020

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193020
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-SLL-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8363.8 lumens
Efficiency: N/A
Efficacy: 98.4 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 - G2

Input Watts (W): 85
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

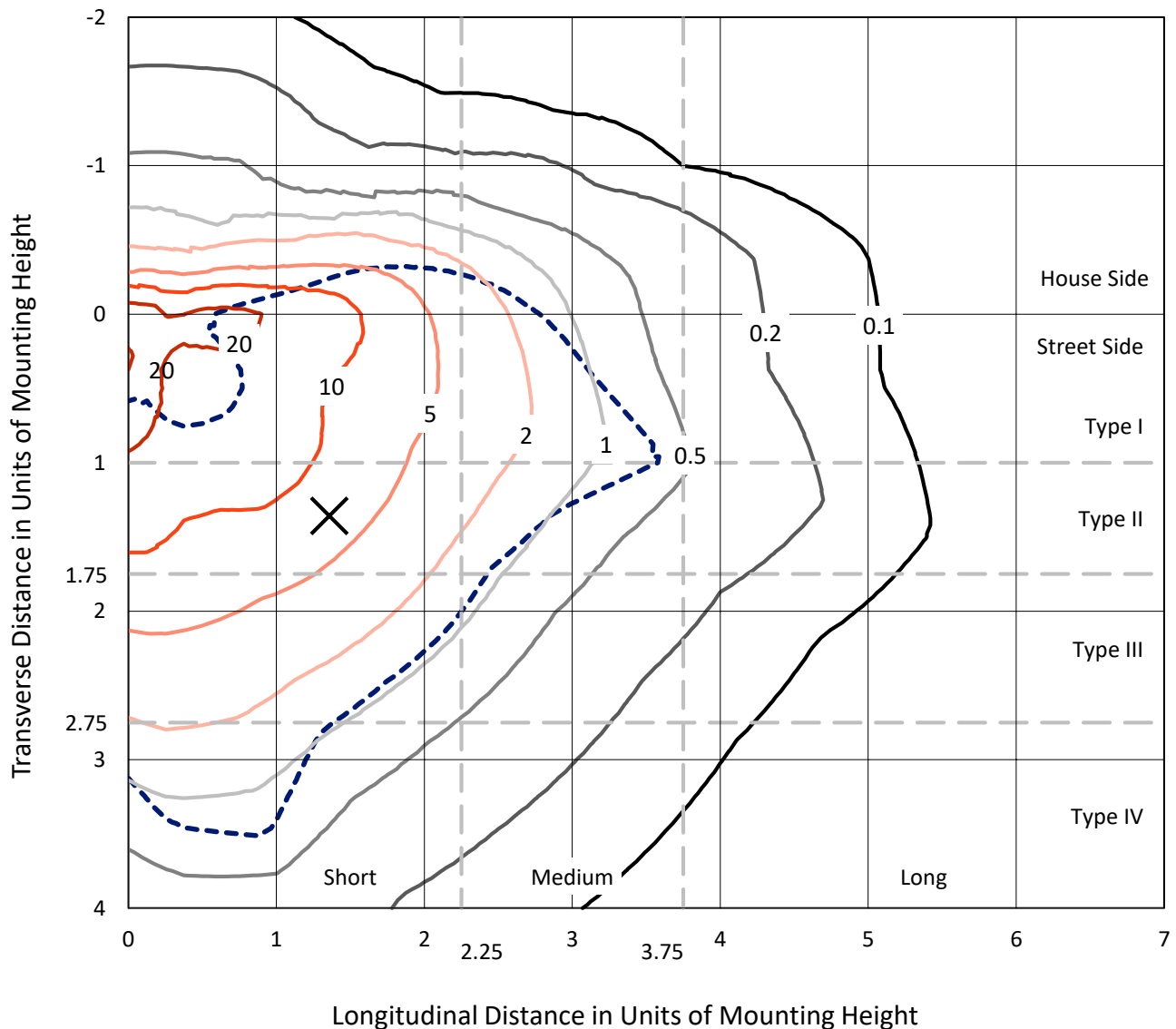


REPORT NUMBER: P193020

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

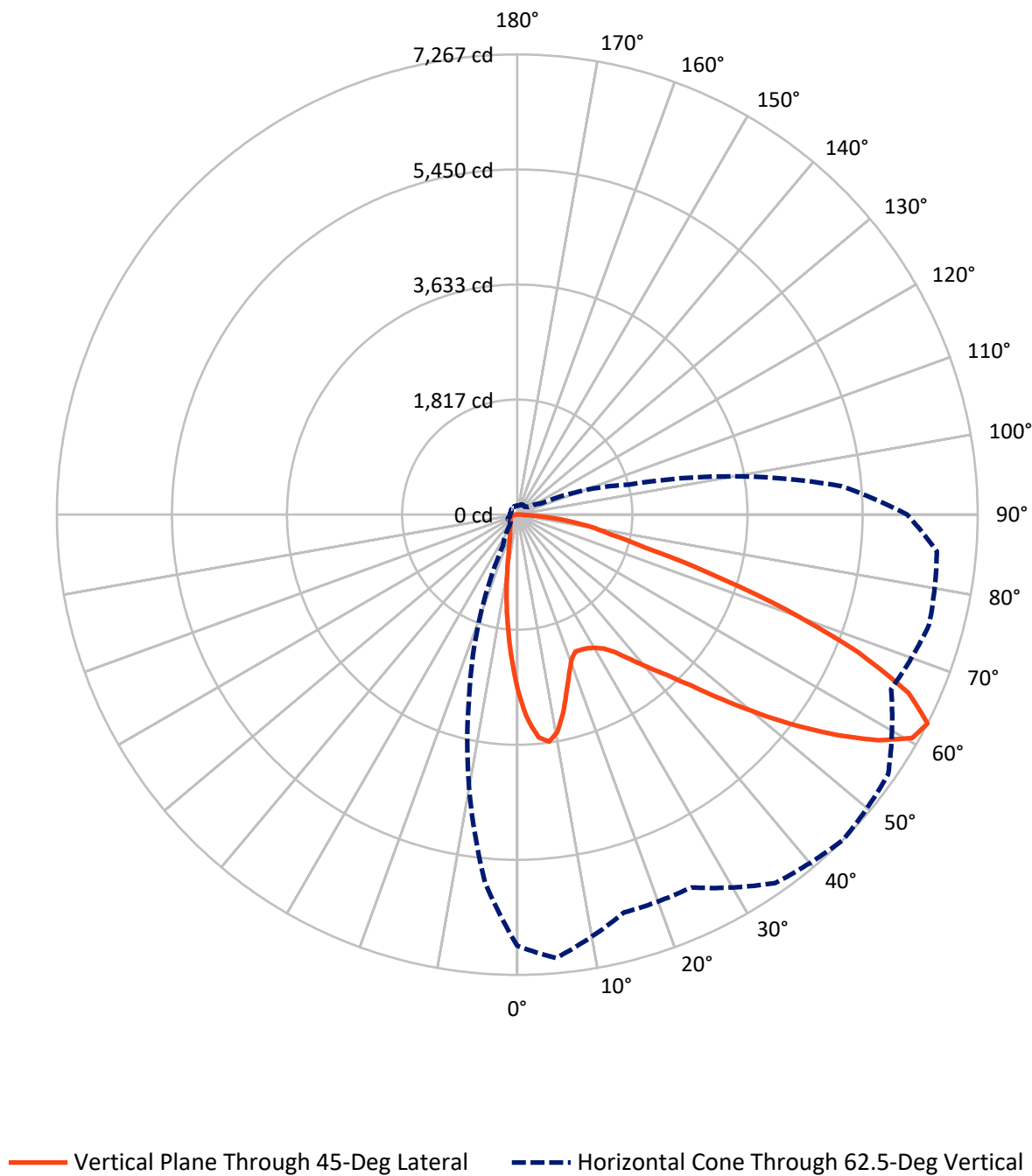


Based on 10 foot mounting height. Maximum calculated value = 33.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193020

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7030-800

Luminous Intensity Polar Plot



REPORT NUMBER: P193020

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1384.1	0.0	1384.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6979.7	0.0	6979.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	8363.8	0.0	8363.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.7	2.5
10°-20°	377.2	4.5
20°-30°	550.0	6.6
30°-40°	847.0	10.1
40°-50°	1246.6	14.9
50°-60°	1828.5	21.9
60°-70°	2044.0	24.4
70°-80°	1000.7	12.0
80°-90°	264.2	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°	8363.8	100.0
0°-180°	8363.8	100.0

Coefficient of Utilization



REPORT NUMBER: P193020

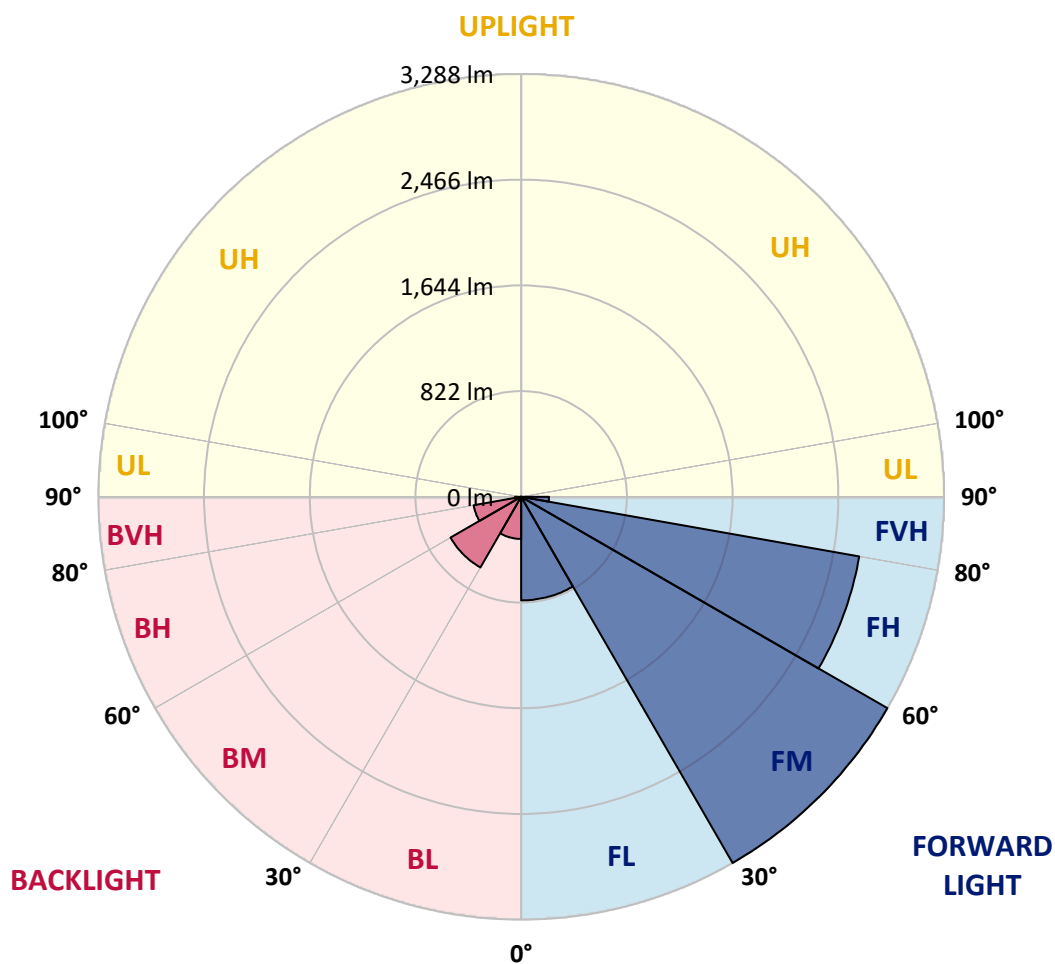
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	805.4	9.6			
FM	(30°-60°)	3287.9	39.3			
FH	(60°-80°)	2669.4	31.9			G2/5000
FVH	(80°-90°)	217.0	2.6			G2/225
BL	(0°-30°)	327.5	3.9	B1/500		
BM	(30°-60°)	634.2	7.6	B1/1000		
BH	(60°-80°)	375.2	4.5	B1/500		G1/500
BVH	(80°-90°)	47.2	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-G2

Type IV Short



REPORT NUMBER: P193020

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8
2.5°	2936.2	2983.0	3074.4	3143.0	3226.2	3245.5	3272.2	3246.0	3199.5	3137.9	3117.7
5°	2760.9	2861.2	3083.2	3278.7	3452.4	3533.3	3555.9	3489.2	3354.5	3177.5	3069.4
7.5°	2479.9	2622.5	2923.2	3211.0	3467.2	3618.3	3614.8	3459.8	3211.9	2923.7	2750.4
10°	2237.7	2400.4	2745.2	3067.1	3338.9	3485.5	3429.0	3230.8	2935.1	2603.2	2415.1
12.5°	2102.0	2261.5	2611.6	2934.7	3161.9	3212.4	3169.2	2975.1	2696.5	2360.9	2196.3
15°	2078.6	2253.8	2558.2	2821.2	2948.5	2904.3	2852.9	2766.0	2569.2	2282.8	2111.2
17.5°	2180.3	2373.3	2619.3	2742.1	2720.4	2643.6	2629.0	2638.6	2591.3	2369.7	2172.0
20°	2375.2	2606.9	2765.1	2704.8	2547.2	2441.4	2445.0	2592.6	2732.9	2589.9	2364.2
22.5°	2648.8	2913.1	2975.1	2724.6	2474.0	2348.5	2378.8	2618.0	2958.6	2911.8	2623.5
25°	3002.8	3243.7	3199.1	2796.3	2481.4	2360.0	2384.4	2705.3	3225.4	3233.5	2944.3
27.5°	3345.7	3569.2	3387.1	2891.4	2511.8	2387.1	2419.3	2842.7	3480.0	3582.9	3311.2
30°	3613.3	3768.7	3461.6	2978.4	2571.5	2440.0	2479.9	2973.3	3595.8	3818.8	3593.5
32.5°	3834.9	3946.7	3580.2	3085.9	2681.3	2523.3	2593.6	3131.9	3762.8	4043.2	3869.9
35°	4118.2	4149.8	3727.8	3206.0	2851.0	2668.0	2755.4	3287.4	3921.9	4269.9	4142.0
37.5°	4450.1	4409.1	3867.1	3370.1	3070.3	2894.8	2966.9	3457.9	4052.9	4526.9	4420.2
40°	4778.4	4680.0	4041.8	3624.7	3390.4	3161.9	3247.4	3640.0	4175.2	4784.4	4691.9
42.5°	5057.5	4911.8	4214.2	3904.8	3688.3	3456.5	3558.6	3823.4	4291.9	5004.1	4927.8
45°	5263.9	5082.7	4378.3	4173.8	4098.9	3848.2	3896.5	4033.6	4418.3	5187.5	5121.8
47.5°	5448.2	5254.8	4564.1	4445.0	4457.9	4357.7	4280.0	4278.1	4567.4	5337.5	5305.3
50°	5695.1	5493.3	4763.7	4724.6	4996.8	4930.1	4758.6	4563.6	4755.8	5507.5	5503.9
52.5°	6035.4	5871.3	5007.4	5025.7	5499.8	5543.5	5331.0	4906.7	5051.0	5819.8	5797.8
55°	6437.7	6342.1	5339.3	5371.9	6116.8	6148.0	5937.0	5335.5	5485.1	6271.7	6210.6
57.5°	6751.6	6731.5	5703.5	5787.6	6577.4	6718.2	6524.1	5832.2	5974.2	6652.4	6498.8
60°	6876.8	6974.7	6090.9	6206.9	7003.6	7159.5	6989.5	6268.5	6407.8	6810.1	6479.1
62.5°	6809.1	7028.0	6503.8	6494.3	7098.8	7266.7	7147.0	6511.2	6729.2	6647.4	6151.3
65°	6497.0	6836.4	6743.5	6420.2	6773.3	6787.0	6748.5	6402.7	6805.0	6132.8	5517.7
67.5°	5817.0	6305.3	6428.0	5785.8	5895.2	5805.5	5740.7	5808.8	6409.7	5361.8	4637.2
70°	4737.9	5472.6	5531.5	4627.5	4578.0	4517.7	4388.5	4762.3	5629.4	4394.5	3679.6
72.5°	3483.6	4256.0	4436.8	3394.0	3164.1	3176.5	3074.4	3588.9	4577.0	3264.3	2747.1
75°	2383.5	3081.8	3471.2	2368.3	2092.5	2097.4	2084.5	2543.0	3645.6	2270.9	2055.6
77.5°	1741.1	2201.8	2618.0	1592.1	1545.7	1517.3	1510.3	1779.3	2795.0	1648.7	1596.3
80°	1397.2	1626.7	1758.6	1103.4	1186.7	1184.4	1146.2	1223.4	1825.2	1206.0	1193.9
82.5°	969.2	1250.2	1424.8	864.8	800.9	787.5	796.8	911.2	1290.2	824.4	783.9
85°	511.3	830.4	1411.1	766.5	475.4	379.3	471.7	746.2	1117.7	436.8	382.5
87.5°	65.3	240.1	934.2	305.7	187.6	101.2	223.9	420.2	717.8	89.1	77.7
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: P193020

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8
2.5°	3065.7	3004.6	2924.6	2850.6	2773.8	2697.5	2597.7	2535.2	2491.9	2483.7	2465.3
5°	2991.3	2788.1	2634.5	2501.6	2381.2	2211.1	2116.8	2038.7	1996.8	1992.7	1982.5
7.5°	2647.8	2367.3	2159.9	1971.9	1801.3	1663.9	1512.1	1441.3	1412.4	1419.3	1426.2
10°	2290.6	1977.0	1738.9	1546.7	1396.4	1280.4	1158.5	1076.3	1019.3	1007.8	1005.5
12.5°	2029.4	1685.6	1454.2	1318.6	1202.3	1093.3	964.1	867.1	793.1	767.8	750.8
15°	1919.0	1543.0	1300.7	1154.5	1026.2	887.8	767.8	666.2	598.2	576.2	563.7
17.5°	1942.5	1503.4	1195.0	1007.8	843.7	699.3	548.1	461.2	420.2	409.6	409.6
20°	2065.8	1496.1	1107.6	872.7	668.0	500.7	376.5	326.9	313.6	312.2	315.9
22.5°	2238.6	1521.9	1042.4	755.4	519.1	365.5	293.4	274.9	269.0	270.3	274.5
25°	2496.1	1608.8	995.0	651.0	407.3	299.3	261.5	250.5	247.8	251.6	256.5
27.5°	2801.4	1695.6	965.6	572.4	343.9	273.5	248.8	237.2	239.1	243.6	248.2
30°	3069.4	1766.9	919.1	516.4	324.2	274.9	248.8	233.0	231.3	232.1	233.6
32.5°	3309.9	1815.2	864.8	463.0	279.4	244.0	232.1	229.9	219.7	216.2	216.6
35°	3517.3	1815.2	832.2	431.7	250.5	216.6	197.2	185.7	180.8	181.2	186.2
37.5°	3717.2	1778.8	816.0	414.2	234.9	206.0	189.0	178.8	172.0	170.6	171.5
40°	3893.8	1726.0	797.7	406.9	223.0	199.5	183.4	175.2	167.8	165.5	166.0
42.5°	4035.4	1683.2	777.5	397.2	215.7	194.9	179.7	172.4	164.1	161.8	161.3
45°	4188.5	1668.9	750.8	377.9	219.3	195.3	178.8	171.0	162.8	159.9	159.1
47.5°	4390.4	1713.5	723.2	355.0	227.2	197.6	180.3	171.0	162.2	159.9	159.1
50°	4644.6	1818.4	688.3	321.3	219.3	204.1	179.7	169.7	162.2	159.9	158.2
52.5°	4971.1	1960.0	642.3	282.8	214.7	219.7	178.8	166.9	159.9	156.8	153.5
55°	5367.8	2075.8	587.6	251.1	204.1	215.7	177.4	163.7	156.3	151.8	148.9
57.5°	5658.4	2117.7	517.3	230.3	189.4	208.6	175.6	159.5	151.8	148.0	144.3
60°	5600.9	2036.8	457.9	217.4	180.8	188.5	174.3	155.9	147.6	144.9	141.6
62.5°	5140.6	1825.2	419.8	211.5	175.2	172.0	175.6	152.2	143.9	141.2	140.2
65°	4450.5	1513.1	404.6	210.1	170.6	162.2	163.3	148.0	139.8	137.4	136.6
67.5°	3671.2	1221.2	391.2	214.7	164.6	155.3	150.8	142.5	135.6	133.3	131.5
70°	2895.2	1015.7	385.2	212.0	157.3	148.5	143.4	136.6	130.6	128.3	126.8
72.5°	2331.5	857.9	382.1	209.2	147.6	139.3	134.7	128.7	122.3	121.4	119.9
75°	1972.9	674.4	349.8	200.5	136.6	128.3	125.1	119.5	113.1	113.1	112.2
77.5°	1521.9	487.9	291.0	177.4	125.1	115.9	113.1	108.9	101.6	103.0	102.4
80°	1124.2	318.2	227.6	147.2	110.8	102.0	100.7	96.5	88.7	90.5	90.5
82.5°	770.1	208.6	163.7	120.5	94.7	86.5	86.5	82.3	73.5	74.6	77.2
85°	386.7	143.4	122.3	93.3	73.5	69.4	69.4	66.2	57.5	57.9	61.6
87.5°	117.7	86.5	81.0	66.6	52.9	52.0	49.6	47.3	41.8	41.4	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: P193020

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8
2.5°	2437.2	2411.1	2379.3	2309.4	2285.9	2284.6	2305.7	2283.6	2326.0	2308.0	2327.8
5°	1965.5	1939.8	1904.4	1815.2	1760.9	1724.1	1706.6	1655.2	1692.4	1665.3	1687.8
7.5°	1445.5	1451.5	1428.0	1375.7	1257.5	1198.1	1163.2	1131.9	1159.1	1156.3	1199.5
10°	1016.1	1032.2	1015.7	962.8	867.1	834.5	841.0	853.4	888.8	907.1	973.8
12.5°	731.5	730.6	720.0	672.6	609.6	613.4	639.5	661.1	693.8	713.1	781.1
15°	546.2	537.9	533.3	494.7	458.9	466.6	479.5	481.9	502.5	514.1	569.2
17.5°	412.9	417.1	422.1	394.5	367.3	362.3	352.2	339.8	345.7	348.0	375.7
20°	327.8	344.3	356.7	337.5	309.9	295.2	282.3	274.0	274.0	273.5	281.4
22.5°	286.5	298.4	311.7	298.4	273.5	260.7	253.4	246.9	246.0	246.0	253.4
25°	263.9	272.6	285.5	276.3	258.0	248.2	241.4	233.0	229.9	229.0	234.1
27.5°	252.8	256.5	263.0	254.7	239.1	234.5	232.6	225.3	221.1	218.8	223.9
30°	234.1	233.0	233.6	225.3	212.8	212.4	215.7	217.0	215.7	215.1	223.0
32.5°	216.6	214.7	214.2	206.9	195.3	192.7	195.3	198.2	201.4	206.0	215.1
35°	194.5	199.1	201.8	195.3	181.6	173.2	170.1	165.1	162.2	162.2	172.8
37.5°	177.0	187.6	191.7	185.7	170.6	159.1	153.5	152.6	153.1	154.9	165.1
40°	171.0	178.8	182.6	176.6	161.3	150.8	147.6	146.6	147.6	150.3	160.5
42.5°	167.3	172.8	172.4	165.1	152.6	145.4	143.4	142.5	143.4	146.2	157.3
45°	164.1	167.8	164.1	155.3	143.9	140.2	140.7	140.2	141.2	143.9	154.5
47.5°	161.3	162.8	158.2	149.4	137.4	136.6	138.4	139.8	140.7	143.0	154.0
50°	157.3	157.3	153.1	143.9	131.9	132.4	134.7	137.8	138.4	141.2	149.9
52.5°	152.2	151.8	148.9	140.2	127.4	128.7	128.7	132.4	133.3	136.6	145.8
55°	148.0	147.2	145.8	137.4	123.3	125.5	124.1	125.5	127.9	131.0	141.2
57.5°	144.3	142.5	142.5	135.2	119.9	121.0	117.7	119.5	122.3	125.1	135.6
60°	140.7	138.9	139.8	131.9	114.9	114.0	112.6	116.4	117.2	120.5	131.0
62.5°	136.6	135.2	135.6	128.3	111.2	108.9	108.9	112.2	112.6	117.2	127.4
65°	133.3	131.5	131.0	124.5	107.1	104.4	105.8	107.1	108.0	112.6	122.3
67.5°	130.1	126.4	126.4	121.4	102.4	99.8	102.4	102.0	103.5	107.6	115.4
70°	125.9	121.0	121.4	119.1	97.9	94.7	97.0	96.5	97.5	100.2	108.0
72.5°	119.5	115.4	116.4	115.4	93.3	88.7	89.7	89.7	89.7	92.0	100.2
75°	111.2	108.0	110.8	113.1	87.9	81.4	82.3	82.3	81.0	82.3	92.5
77.5°	101.2	99.3	108.5	105.3	81.4	73.5	73.5	72.6	69.9	71.7	82.7
80°	90.1	88.7	100.2	88.3	74.0	63.9	63.1	60.6	57.9	59.3	70.4
82.5°	78.6	77.2	84.1	67.6	63.9	52.9	50.6	46.4	43.7	45.1	55.1
85°	64.4	64.4	64.8	51.1	48.7	40.4	37.7	32.2	29.0	29.9	39.6
87.5°	46.0	47.3	43.7	35.0	29.0	22.5	20.6	17.5	14.7	17.1	20.6
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: P193020

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8
2.5°	2429.0	2479.5	2537.0	2610.5	2673.6	2777.1	2876.4	2936.2
5°	1816.1	1900.2	2005.0	2139.8	2265.3	2453.8	2640.9	2760.9
7.5°	1299.7	1389.9	1503.0	1671.2	1848.7	2089.1	2336.5	2479.9
10°	1075.4	1167.8	1263.0	1376.5	1521.9	1783.4	2075.8	2237.7
12.5°	889.7	988.5	1091.1	1210.6	1345.3	1578.8	1915.9	2102.0
15°	680.9	791.2	912.2	1063.4	1232.2	1502.1	1876.3	2078.6
17.5°	466.6	589.9	738.4	925.1	1131.5	1477.1	1947.1	2180.3
20°	321.3	411.1	569.7	788.6	1036.8	1474.0	2083.2	2375.2
22.5°	269.0	308.9	424.8	662.9	965.6	1513.6	2294.2	2648.8
25°	248.8	272.6	339.4	554.1	913.5	1604.6	2584.8	3002.8
27.5°	236.8	258.4	308.0	482.7	872.7	1710.4	2867.6	3345.7
30°	241.4	263.5	299.3	446.5	817.0	1798.6	3118.6	3613.3
32.5°	217.4	227.2	256.5	414.2	777.1	1872.6	3338.4	3834.9
35°	185.3	202.3	229.0	399.2	777.9	1922.3	3577.9	4118.2
37.5°	176.6	193.6	212.8	393.6	788.6	1975.2	3852.9	4450.1
40°	171.0	186.7	203.2	390.4	798.5	2023.5	4122.3	4778.4
42.5°	167.3	181.6	202.3	379.3	803.7	2066.6	4343.9	5057.5
45°	166.9	181.6	206.0	368.3	811.5	2113.1	4529.7	5263.9
47.5°	167.3	187.6	199.1	355.0	811.5	2190.7	4747.6	5448.2
50°	165.5	197.6	191.7	336.1	792.6	2337.9	5046.4	5695.1
52.5°	164.6	196.3	177.4	307.1	760.0	2571.5	5429.4	6035.4
55°	162.2	189.4	167.3	263.9	721.8	2826.2	5839.6	6437.7
57.5°	159.9	167.8	161.8	226.1	662.9	3005.5	6121.8	6751.6
60°	179.3	146.6	157.3	207.8	584.3	3054.7	6110.8	6876.8
62.5°	166.0	137.4	151.3	203.7	529.2	2916.7	5828.6	6809.1
65°	130.1	131.5	145.4	215.7	514.5	2551.3	5328.2	6497.0
67.5°	119.1	125.5	139.3	230.7	515.8	2042.7	4580.7	5817.0
70°	112.2	119.1	132.4	238.6	519.5	1522.7	3621.6	4737.9
72.5°	104.4	110.4	124.5	240.1	495.6	1106.2	2791.2	3483.6
75°	95.2	100.7	113.5	209.2	410.6	767.3	2135.2	2383.5
77.5°	84.5	88.7	99.8	161.3	304.9	491.0	1602.8	1741.1
80°	72.2	74.6	83.7	118.1	208.6	307.1	1268.1	1397.2
82.5°	57.9	58.9	64.8	88.7	135.6	197.2	849.2	969.2
85°	41.0	41.0	44.6	64.4	92.5	125.1	461.2	511.3
87.5°	19.3	19.7	19.7	35.4	48.3	63.5	106.2	65.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)