

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: P269091

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269091
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 7513.2 lumens
Efficiency: N/A
Efficacy: 88.4 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

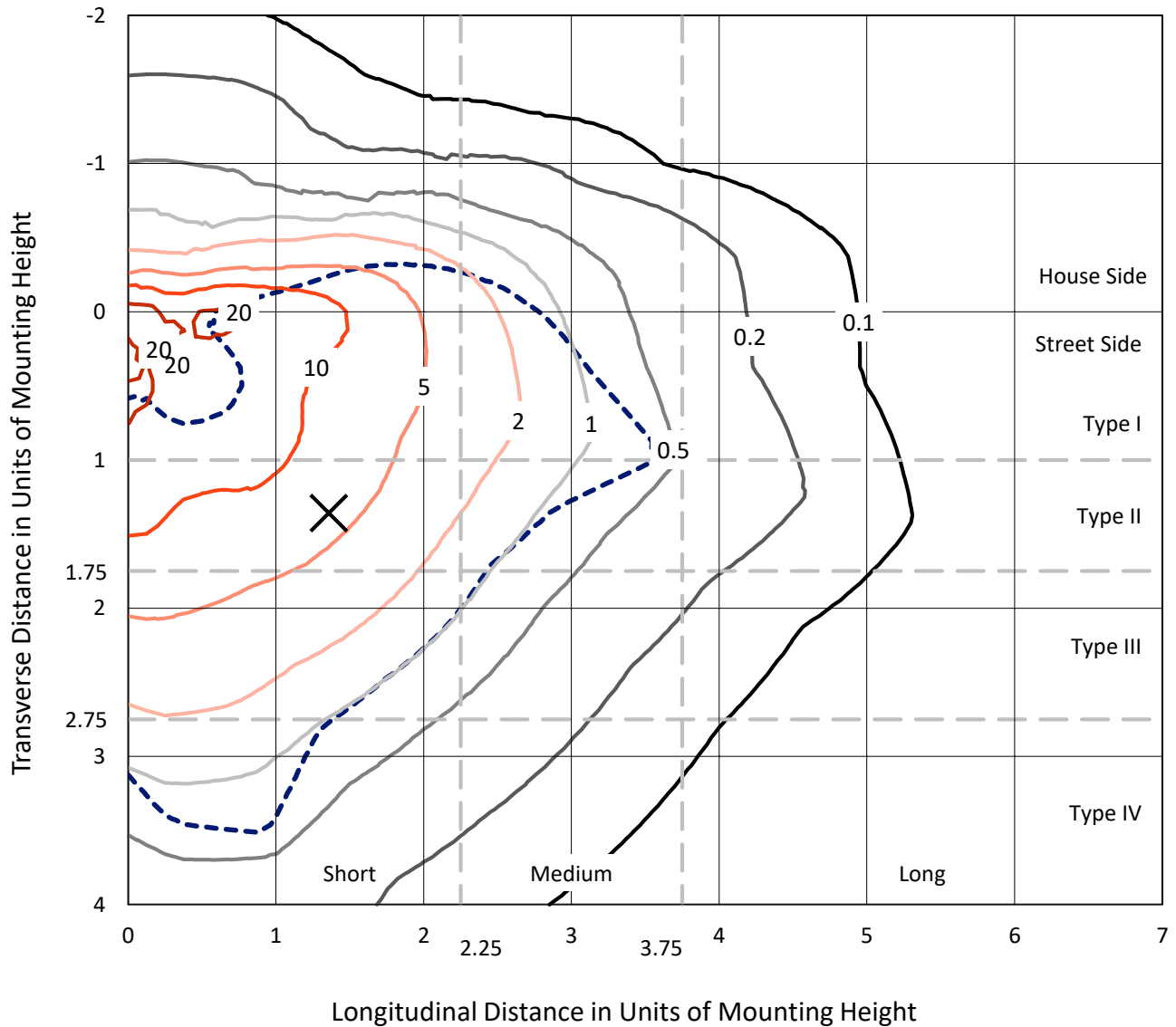


REPORT NUMBER: P269091

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7027-800

Iso-Footcandle Lines of Horizontal Illumination

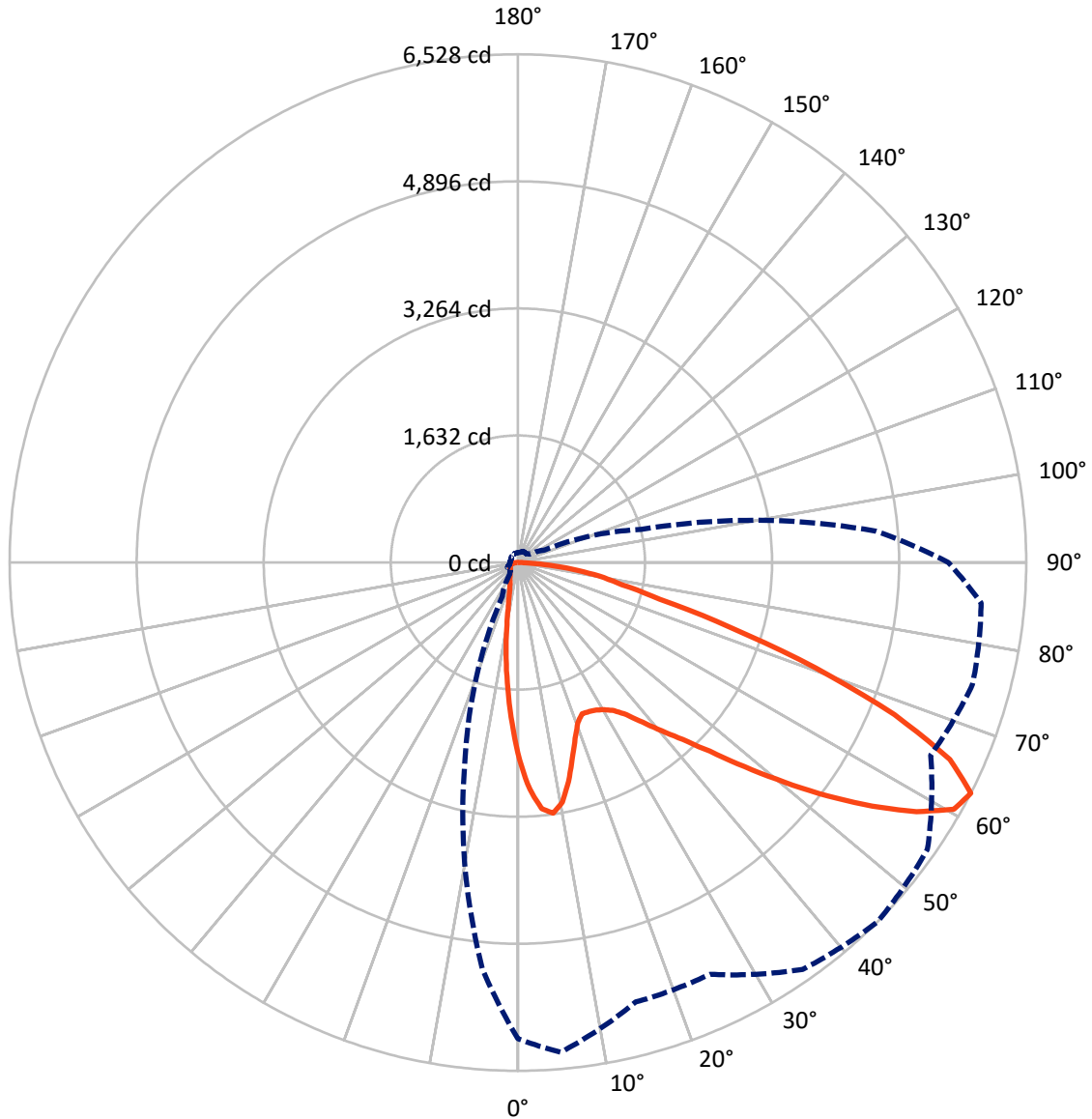
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269091
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7027-800

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P269091

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7027-800

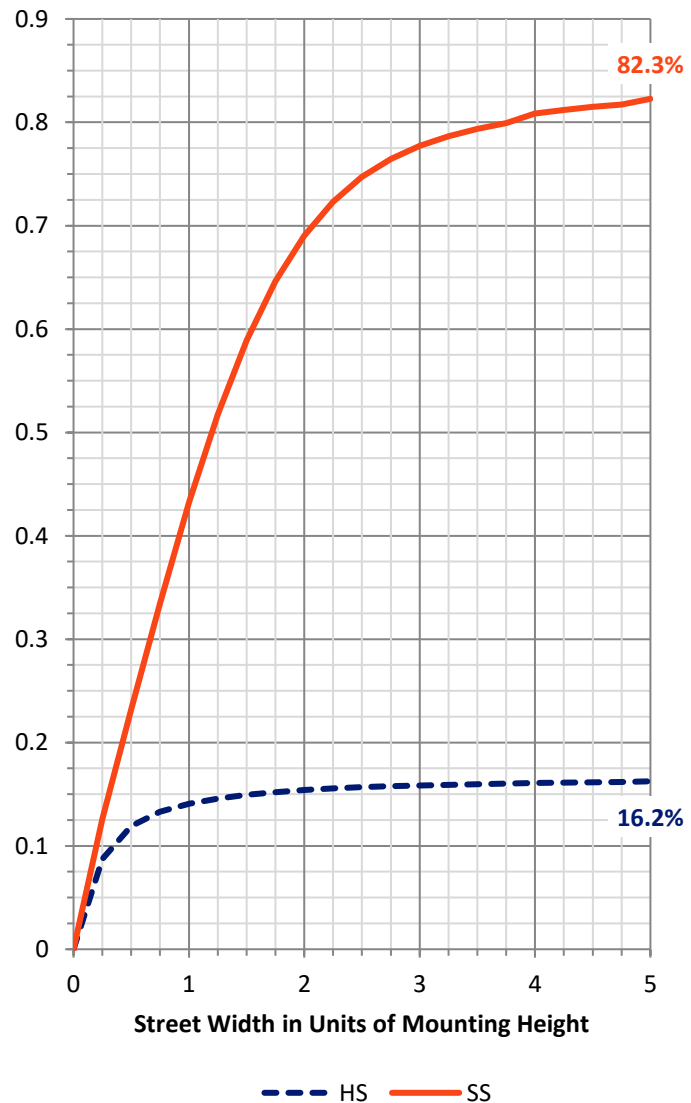
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1243.3	0.0	1243.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6269.9	0.0	6269.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	7513.2	0.0	7513.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	2.5
10°-20°	338.8	4.5
20°-30°	494.0	6.6
30°-40°	760.9	10.1
40°-50°	1119.8	14.9
50°-60°	1642.5	21.9
60°-70°	1836.1	24.4
70°-80°	898.9	12.0
80°-90°	237.3	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°	7513.2	100.0
0°-180°	7513.2	100.0

Coefficient of Utilization



REPORT NUMBER: P269091

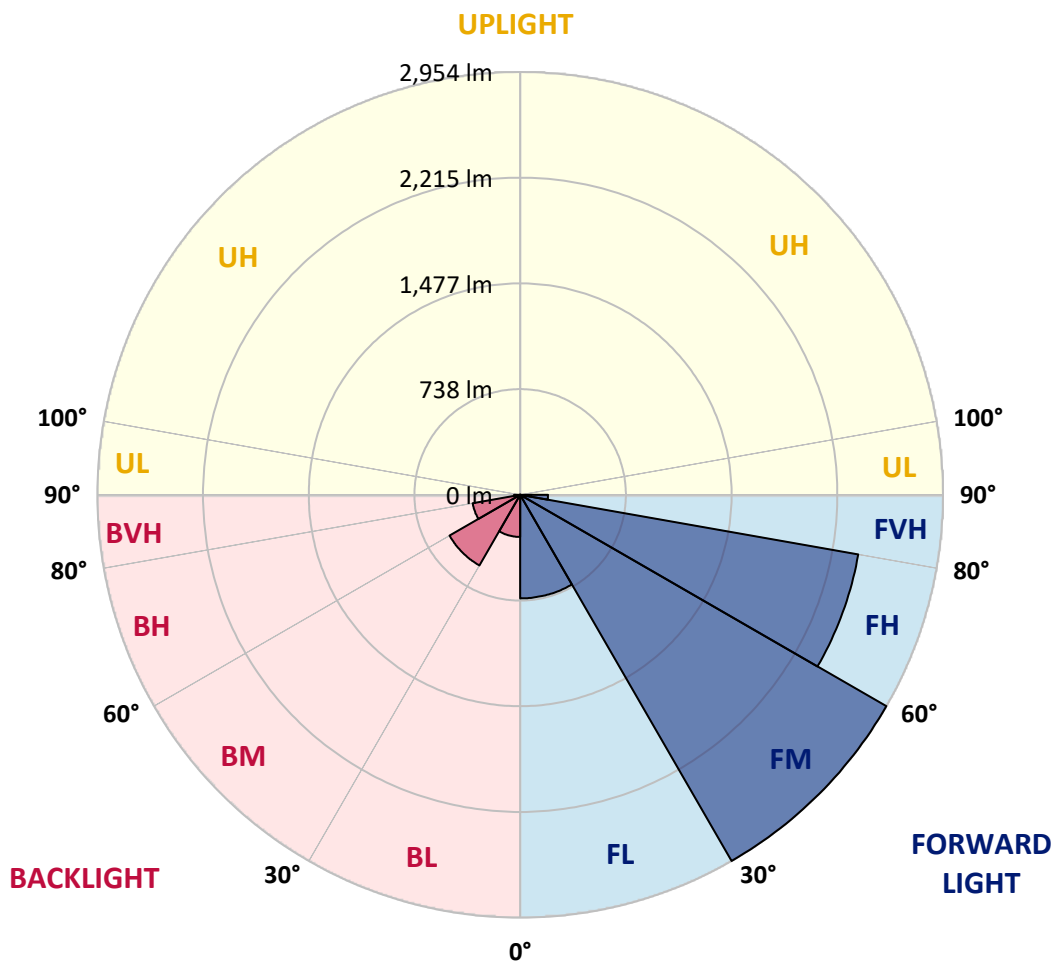
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.5	9.6			
FM (30°-60°)	2953.5	39.3			
FH (60°-80°)	2398.0	31.9			G2/5000
FVH (80°-90°)	194.9	2.6			G2/225
BL (0°-30°)	294.2	3.9	B1/500		
BM (30°-60°)	569.7	7.6	B1/1000		
BH (60°-80°)	337.1	4.5	B1/500		G1/500
BVH (80°-90°)	42.4	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: P269091

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2637.6	2679.6	2761.7	2823.4	2898.1	2915.4	2939.4	2915.9	2874.1	2818.8	2800.6
5°	2480.1	2570.2	2769.7	2945.3	3101.3	3174.0	3194.3	3134.4	3013.4	2854.4	2757.3
7.5°	2227.7	2355.8	2625.9	2884.5	3114.6	3250.3	3247.2	3108.0	2885.3	2626.4	2470.7
10°	2010.1	2156.3	2466.0	2755.2	2999.4	3131.0	3080.3	2902.2	2636.6	2338.5	2169.5
12.5°	1888.2	2031.5	2346.0	2636.3	2840.4	2885.7	2846.9	2672.5	2422.3	2120.8	1972.9
15°	1867.2	2024.6	2298.0	2534.3	2648.7	2608.9	2562.8	2484.7	2307.9	2050.7	1896.5
17.5°	1958.6	2131.9	2352.9	2463.2	2443.7	2374.8	2361.6	2370.3	2327.8	2128.7	1951.1
20°	2133.7	2341.8	2483.9	2429.7	2288.2	2193.1	2196.4	2328.9	2455.0	2326.5	2123.8
22.5°	2379.4	2616.9	2672.5	2447.5	2222.4	2109.7	2136.9	2351.8	2657.7	2615.7	2356.7
25°	2697.4	2913.8	2873.8	2511.9	2229.1	2120.0	2141.9	2430.2	2897.4	2904.7	2644.9
27.5°	3005.5	3206.2	3042.6	2597.4	2256.4	2144.3	2173.3	2553.6	3126.1	3218.5	2974.5
30°	3245.8	3385.4	3109.6	2675.5	2310.0	2191.9	2227.7	2670.9	3230.1	3430.4	3228.1
32.5°	3444.9	3545.3	3216.1	2772.1	2408.6	2266.7	2329.8	2813.4	3380.1	3632.0	3476.4
35°	3699.4	3727.8	3348.7	2880.0	2561.1	2396.7	2475.2	2953.1	3523.1	3835.7	3720.8
37.5°	3997.5	3960.7	3473.8	3027.4	2758.1	2600.4	2665.2	3106.2	3640.7	4066.5	3970.7
40°	4292.5	4204.1	3630.8	3256.1	3045.6	2840.4	2917.2	3269.8	3750.6	4297.9	4214.8
42.5°	4543.2	4412.3	3785.6	3507.7	3313.2	3105.0	3196.7	3434.6	3855.4	4495.2	4426.7
45°	4728.6	4565.8	3933.0	3749.3	3682.1	3456.9	3500.2	3623.4	3969.0	4660.0	4600.9
47.5°	4894.1	4720.4	4100.0	3993.0	4004.6	3914.5	3844.7	3843.0	4102.9	4794.7	4765.8
50°	5115.9	4934.7	4279.3	4244.1	4488.7	4428.7	4274.7	4099.5	4272.2	4947.4	4944.2
52.5°	5421.6	5274.2	4498.2	4514.6	4940.5	4979.8	4788.9	4407.7	4537.3	5228.0	5208.2
55°	5783.0	5697.1	4796.3	4825.6	5494.8	5522.8	5333.2	4792.9	4927.3	5633.9	5579.0
57.5°	6065.0	6046.9	5123.5	5199.0	5908.5	6035.0	5860.6	5239.1	5366.7	5975.9	5837.9
60°	6177.5	6265.4	5471.5	5575.7	6291.4	6431.4	6278.7	5631.0	5756.2	6117.5	5820.2
62.5°	6116.6	6313.3	5842.4	5833.9	6376.9	6527.7	6420.2	5849.0	6044.9	5971.4	5525.7
65°	5836.3	6141.2	6057.7	5767.3	6084.5	6096.8	6062.2	5751.6	6113.0	5509.1	4956.6
67.5°	5225.4	5664.1	5774.3	5197.4	5295.7	5215.1	5156.9	5218.1	5757.9	4816.5	4165.6
70°	4256.1	4916.1	4969.0	4156.9	4112.4	4058.3	3942.2	4278.0	5056.9	3947.6	3305.4
72.5°	3129.3	3823.2	3985.6	3048.8	2842.3	2853.5	2761.7	3223.9	4111.5	2932.3	2467.7
75°	2141.1	2768.4	3118.2	2127.5	1879.7	1884.1	1872.5	2284.4	3274.9	2040.0	1846.6
77.5°	1564.0	1977.9	2351.8	1430.2	1388.5	1363.0	1356.7	1598.4	2510.8	1481.0	1434.0
80°	1255.1	1461.3	1579.8	991.2	1066.0	1064.0	1029.6	1099.0	1639.6	1083.4	1072.5
82.5°	870.6	1123.1	1279.9	776.9	719.5	707.4	715.8	818.5	1159.0	740.6	704.2
85°	459.3	746.0	1267.6	688.6	427.1	340.7	423.7	670.3	1004.0	392.4	343.6
87.5°	58.7	215.7	839.2	274.6	168.5	90.9	201.1	377.5	644.8	80.0	69.8
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: P269091

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7027-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2753.9	2699.0	2627.2	2560.7	2491.7	2423.2	2333.5	2277.4	2238.5	2231.1	2214.6
5°	2687.1	2504.6	2366.6	2247.2	2139.0	1986.2	1901.5	1831.4	1793.7	1790.1	1780.9
7.5°	2378.5	2126.6	1940.2	1771.4	1618.1	1494.7	1358.3	1294.7	1268.8	1275.0	1281.2
10°	2057.7	1775.9	1562.1	1389.4	1254.4	1150.2	1040.7	966.8	915.6	905.3	903.2
12.5°	1823.0	1514.2	1306.3	1184.5	1080.0	982.1	866.1	778.9	712.4	689.7	674.4
15°	1723.8	1386.1	1168.4	1037.1	921.8	797.5	689.7	598.5	537.4	517.6	506.4
17.5°	1745.0	1350.5	1073.5	905.3	757.9	628.2	492.4	414.3	377.5	367.9	367.9
20°	1855.7	1344.0	995.0	784.0	600.1	449.8	338.2	293.7	281.7	280.5	283.8
22.5°	2010.9	1367.1	936.4	678.6	466.3	328.3	263.6	246.9	241.6	242.8	246.6
25°	2242.3	1445.2	893.8	584.8	365.9	268.9	234.9	225.0	222.6	226.0	230.4
27.5°	2516.5	1523.2	867.4	514.2	308.9	245.7	223.5	213.1	214.8	218.8	223.0
30°	2757.3	1587.2	825.6	463.9	291.2	246.9	223.5	209.3	207.8	208.5	209.8
32.5°	2973.3	1630.6	776.9	415.9	251.0	219.2	208.5	206.5	197.4	194.2	194.6
35°	3159.6	1630.6	747.6	387.8	225.0	194.6	177.1	166.8	162.4	162.8	167.3
37.5°	3339.2	1597.9	733.0	372.1	211.0	185.1	169.8	160.6	154.5	153.3	154.1
40°	3497.8	1550.5	716.6	365.5	200.3	179.2	164.7	157.4	150.7	148.7	149.1
42.5°	3625.0	1512.0	698.4	356.8	193.8	175.1	161.4	154.9	147.4	145.3	144.9
45°	3762.6	1499.2	674.4	339.5	197.0	175.4	160.6	153.6	146.2	143.6	142.9
47.5°	3943.9	1539.2	649.7	318.9	204.1	177.5	162.0	153.6	145.7	143.6	142.9
50°	4172.3	1633.5	618.3	288.6	197.0	183.3	161.4	152.4	145.7	143.6	142.1
52.5°	4465.6	1760.7	577.0	254.0	192.9	197.4	160.6	149.9	143.6	140.9	137.9
55°	4821.9	1864.7	527.8	225.6	183.3	193.8	159.4	147.1	140.4	136.4	133.8
57.5°	5083.0	1902.3	464.7	206.9	170.1	187.4	157.7	143.3	136.4	132.9	129.6
60°	5031.3	1829.7	411.3	195.3	162.4	169.3	156.6	140.0	132.6	130.2	127.2
62.5°	4617.8	1639.6	377.1	190.0	157.4	154.5	157.7	136.7	129.3	126.8	125.9
65°	3997.9	1359.2	363.5	188.7	153.3	145.7	146.7	132.9	125.6	123.4	122.7
67.5°	3297.9	1097.0	351.4	192.9	147.9	139.5	135.5	128.0	121.8	119.7	118.1
70°	2600.8	912.4	346.0	190.4	141.3	133.4	128.8	122.7	117.3	115.3	113.9
72.5°	2094.4	770.7	343.2	187.9	132.6	125.1	121.0	115.6	109.9	109.1	107.7
75°	1772.3	605.8	314.2	180.1	122.7	115.3	112.4	107.3	101.6	101.6	100.8
77.5°	1367.1	438.3	261.4	159.4	112.4	104.1	101.6	97.8	91.3	92.5	92.0
80°	1009.9	285.8	204.5	132.2	99.5	91.6	90.5	86.7	79.7	81.3	81.3
82.5°	691.8	187.4	147.1	108.2	85.1	77.7	77.7	73.9	66.0	67.0	69.3
85°	347.4	128.8	109.9	83.8	66.0	62.3	62.3	59.5	51.7	52.0	55.3
87.5°	105.7	77.7	72.8	59.8	47.5	46.7	44.6	42.5	37.5	37.2	39.3
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: P269091

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7027-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2189.3	2165.9	2137.3	2074.5	2053.4	2052.3	2071.2	2051.4	2089.5	2073.3	2091.1
5°	1765.6	1742.5	1710.7	1630.6	1581.8	1548.8	1533.0	1486.9	1520.3	1495.9	1516.2
7.5°	1298.5	1303.9	1282.8	1235.8	1129.6	1076.3	1044.9	1016.8	1041.2	1038.7	1077.5
10°	912.8	927.2	912.4	864.9	778.9	749.6	755.5	766.6	798.4	814.9	874.8
12.5°	657.1	656.3	646.8	604.2	547.6	551.0	574.5	593.9	623.2	640.6	701.7
15°	490.7	483.2	479.1	444.4	412.2	419.1	430.7	432.9	451.4	461.8	511.3
17.5°	370.9	374.7	379.2	354.4	329.9	325.5	316.4	305.2	310.5	312.6	337.5
20°	294.5	309.3	320.4	303.2	278.4	265.2	253.6	246.1	246.1	245.7	252.8
22.5°	257.4	268.1	280.0	268.1	245.7	234.2	227.6	221.8	221.0	221.0	227.6
25°	237.1	244.9	256.5	248.2	231.8	223.0	216.9	209.3	206.5	205.7	210.3
27.5°	227.1	230.4	236.3	228.8	214.8	210.7	208.9	202.4	198.6	196.5	201.1
30°	210.3	209.3	209.8	202.4	191.2	190.8	193.8	194.9	193.8	193.2	200.3
32.5°	194.6	192.9	192.4	185.9	175.4	173.1	175.4	178.0	180.9	185.1	193.2
35°	174.7	178.9	181.3	175.4	163.1	155.6	152.8	148.3	145.7	145.7	155.2
37.5°	159.0	168.5	172.2	166.8	153.3	142.9	137.9	137.1	137.5	139.1	148.3
40°	153.6	160.6	164.0	158.6	144.9	135.5	132.6	131.7	132.6	135.0	144.2
42.5°	150.3	155.2	154.9	148.3	137.1	130.6	128.8	128.0	128.8	131.3	141.3
45°	147.4	150.7	147.4	139.5	129.3	125.9	126.4	125.9	126.8	129.3	138.8
47.5°	144.9	146.2	142.1	134.2	123.4	122.7	124.3	125.6	126.4	128.5	138.3
50°	141.3	141.3	137.5	129.3	118.5	118.9	121.0	123.8	124.3	126.8	134.7
52.5°	136.7	136.4	133.8	125.9	114.4	115.6	115.6	118.9	119.7	122.7	131.0
55°	132.9	132.2	131.0	123.4	110.8	112.7	111.5	112.7	114.9	117.7	126.8
57.5°	129.6	128.0	128.0	121.5	107.7	108.7	105.7	107.3	109.9	112.4	121.8
60°	126.4	124.8	125.6	118.5	103.2	102.4	101.1	104.6	105.3	108.2	117.7
62.5°	122.7	121.5	121.8	115.3	99.9	97.8	97.8	100.8	101.1	105.3	114.4
65°	119.7	118.1	117.7	111.8	96.2	93.8	95.0	96.2	97.0	101.1	109.9
67.5°	116.9	113.5	113.5	109.1	92.0	89.7	92.0	91.6	93.0	96.7	103.7
70°	113.1	108.7	109.1	107.0	87.9	85.1	87.1	86.7	87.6	90.0	97.0
72.5°	107.3	103.7	104.6	103.7	83.8	79.7	80.6	80.6	80.6	82.6	90.0
75°	99.9	97.0	99.5	101.6	79.0	73.1	73.9	73.9	72.8	73.9	83.1
77.5°	90.9	89.2	97.5	94.6	73.1	66.0	66.0	65.2	62.8	64.4	74.3
80°	80.9	79.7	90.0	79.3	66.5	57.4	56.7	54.4	52.0	53.3	63.2
82.5°	70.6	69.3	75.5	60.7	57.4	47.5	45.5	41.7	39.3	40.5	49.5
85°	57.9	57.9	58.2	45.9	43.7	36.3	33.9	28.9	26.1	26.9	35.6
87.5°	41.3	42.5	39.3	31.4	26.1	20.2	18.5	15.7	13.2	15.4	18.5
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: P269091

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7027-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2182.0	2227.3	2279.0	2345.0	2401.7	2494.7	2583.9	2637.6
5°	1631.4	1707.0	1801.1	1922.2	2034.9	2204.3	2372.3	2480.1
7.5°	1167.5	1248.6	1350.2	1501.2	1660.7	1876.6	2098.9	2227.7
10°	966.0	1049.0	1134.6	1236.5	1367.1	1602.0	1864.7	2010.1
12.5°	799.2	888.0	980.1	1087.5	1208.5	1418.2	1721.1	1888.2
15°	611.7	710.7	819.4	955.3	1106.9	1349.3	1685.5	1867.2
17.5°	419.1	529.9	663.3	831.0	1016.4	1326.9	1749.1	1958.6
20°	288.6	369.3	511.8	708.4	931.4	1324.1	1871.3	2133.7
22.5°	241.6	277.5	381.6	595.5	867.4	1359.7	2060.9	2379.4
25°	223.5	244.9	304.9	497.8	820.6	1441.4	2321.9	2697.4
27.5°	212.7	232.1	276.7	433.6	784.0	1536.5	2576.0	3005.5
30°	216.9	236.7	268.9	401.1	733.9	1615.7	2801.5	3245.8
32.5°	195.3	204.1	230.4	372.1	698.1	1682.2	2998.9	3444.9
35°	166.5	181.7	205.7	358.6	698.8	1726.8	3214.0	3699.4
37.5°	158.6	173.9	191.2	353.6	708.4	1774.3	3461.1	3997.5
40°	153.6	167.7	182.5	350.7	717.3	1817.7	3703.1	4292.5
42.5°	150.3	163.1	181.7	340.7	722.0	1856.4	3902.1	4543.2
45°	149.9	163.1	185.1	330.8	729.0	1898.2	4069.1	4728.6
47.5°	150.3	168.5	178.9	318.9	729.0	1967.9	4264.8	4894.1
50°	148.7	177.5	172.2	301.9	712.0	2100.1	4533.2	5115.9
52.5°	147.9	176.3	159.4	275.9	682.7	2310.0	4877.3	5421.6
55°	145.7	170.1	150.3	237.1	648.4	2538.8	5245.7	5783.0
57.5°	143.6	150.7	145.3	203.1	595.5	2699.9	5499.2	6065.0
60°	161.1	131.7	141.3	186.7	524.9	2744.1	5489.4	6177.5
62.5°	149.1	123.4	135.9	183.0	475.4	2620.1	5235.9	6116.6
65°	116.9	118.1	130.6	193.8	462.2	2291.8	4786.3	5836.3
67.5°	107.0	112.7	125.1	207.2	463.3	1835.0	4114.9	5225.4
70°	100.8	107.0	118.9	214.3	466.7	1367.8	3253.3	4256.1
72.5°	93.8	99.2	111.8	215.7	445.2	993.7	2507.3	3129.3
75°	85.5	90.5	102.0	187.9	368.8	689.3	1918.1	2141.1
77.5°	75.9	79.7	89.7	144.9	273.9	441.1	1439.8	1564.0
80°	64.9	67.0	75.2	106.1	187.4	275.9	1139.1	1255.1
82.5°	52.0	52.9	58.2	79.7	121.8	177.1	762.8	870.6
85°	36.8	36.8	40.1	57.9	83.1	112.4	414.3	459.3
87.5°	17.3	17.7	17.7	31.8	43.4	57.0	95.4	58.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)