

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: P191419

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191419  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-T2R-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7285.5 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

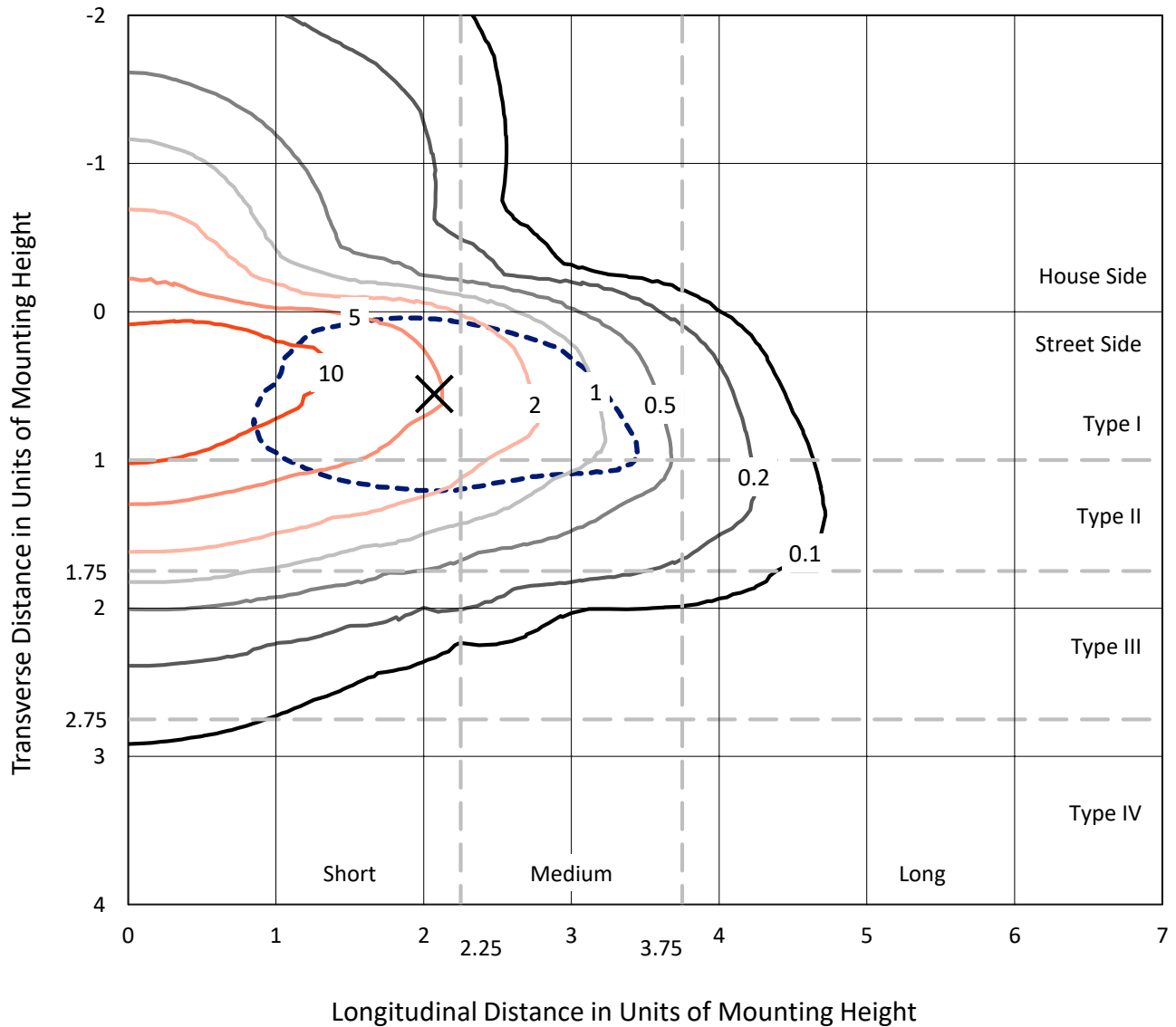
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

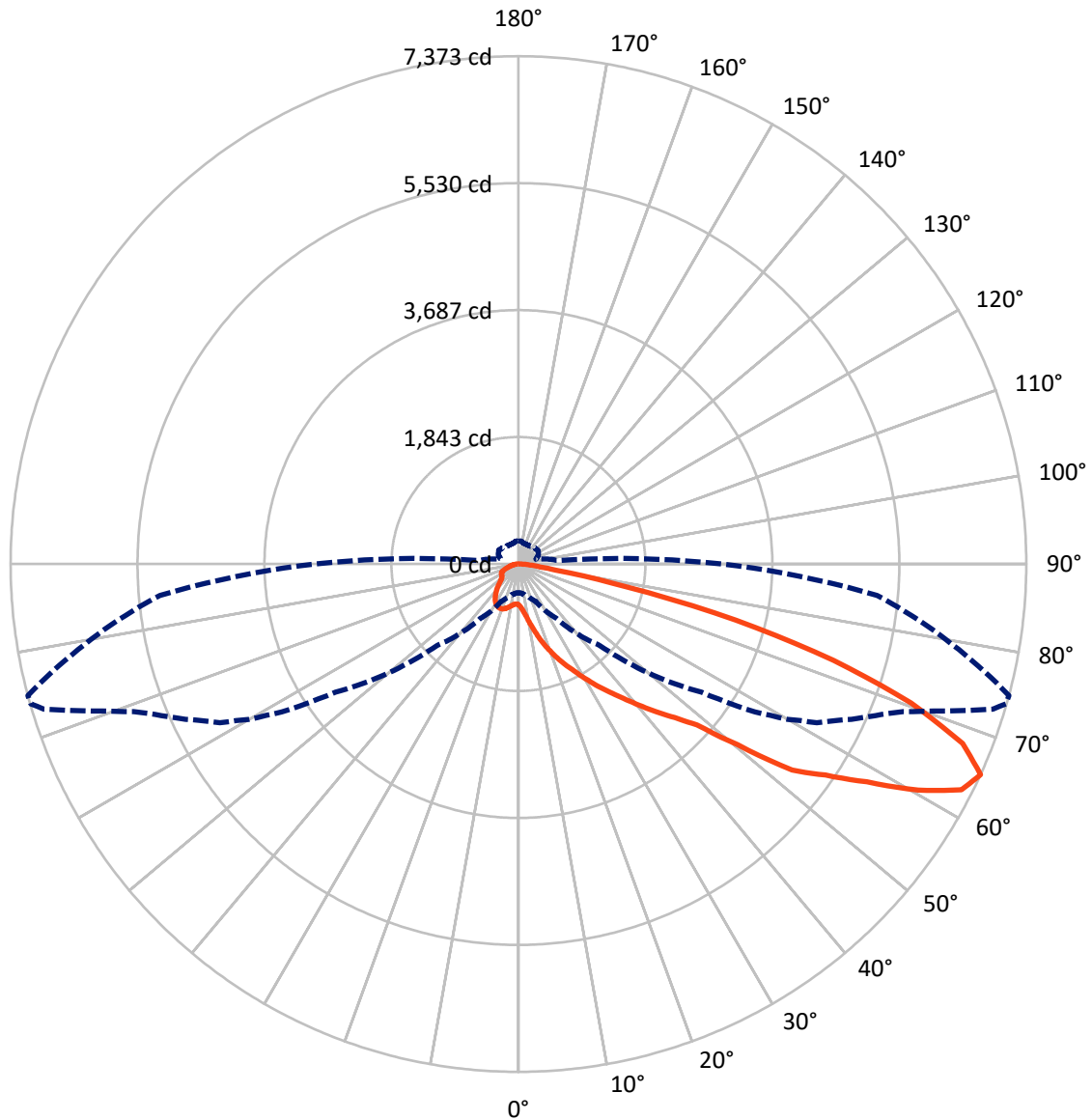
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1123.2	0.0	1123.2
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	6162.2	0.0	6162.2
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	7285.5	0.0	7285.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	1.0
10°-20°	285.9	3.9
20°-30°	586.7	8.1
30°-40°	987.0	13.5
40°-50°	1363.8	18.7
50°-60°	1702.4	23.4
60°-70°	1532.0	21.0
70°-80°	642.2	8.8
80°-90°	112.2	1.5
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°	7285.5	100.0
0°-180°	7285.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P191419

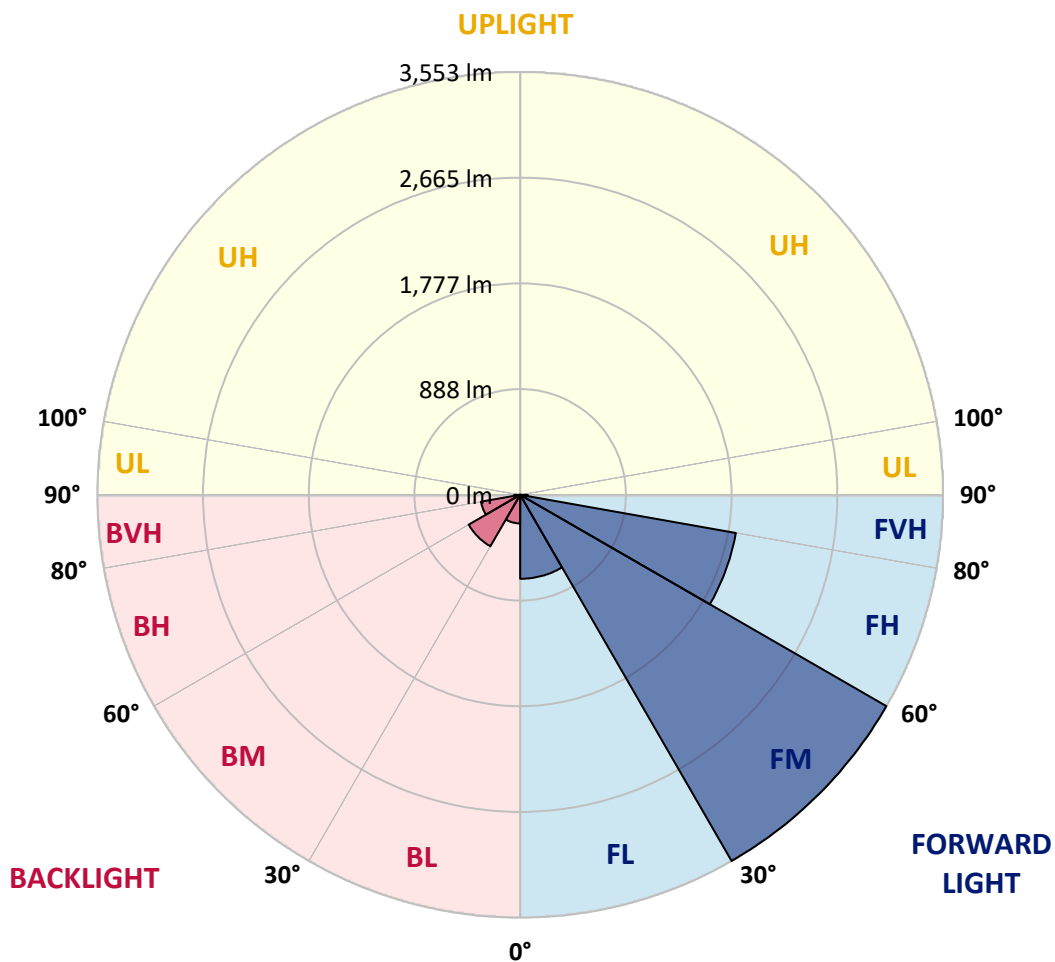
CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	705.6	9.7			
FM	(30°-60°)	3553.3	48.8			
FH	(60°-80°)	1840.3	25.3			G2/5000
FVH	(80°-90°)	63.1	0.9			G1/100
BL	(0°-30°)	240.2	3.3	B1/500		
BM	(30°-60°)	500.0	6.9	B1/1000		
BH	(60°-80°)	333.9	4.6	B1/500		G1/500
BVH	(80°-90°)	49.1	0.7			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 II Short





REPORT NUMBER: P191419  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	751.8	743.5	745.5	731.7	714.8	692.7	668.3	668.0	668.3	665.8	656.9
5°	1042.4	1032.5	1028.7	997.6	952.1	887.3	816.9	809.4	806.2	798.3	780.0
7.5°	1254.5	1249.0	1243.1	1219.7	1178.3	1105.9	1011.4	995.2	979.7	975.9	955.2
10°	1391.4	1390.0	1377.6	1371.4	1345.6	1282.8	1190.7	1175.2	1158.3	1152.5	1130.7
12.5°	1499.6	1499.3	1493.5	1495.2	1472.7	1427.3	1347.9	1333.8	1321.4	1303.4	1288.0
15°	1574.5	1574.8	1583.5	1593.1	1589.7	1559.0	1484.5	1478.3	1467.6	1455.2	1436.9
17.5°	1635.9	1637.6	1646.5	1664.1	1683.2	1680.7	1621.8	1616.6	1607.3	1590.4	1580.8
20°	1774.5	1781.1	1763.9	1763.9	1765.9	1775.2	1746.9	1742.8	1729.7	1720.7	1713.1
22.5°	2008.7	2016.2	1977.3	1937.7	1898.7	1870.4	1842.1	1847.2	1838.3	1832.1	1827.6
25°	2312.8	2318.7	2255.6	2188.7	2109.3	2005.9	1935.9	1932.8	1928.0	1924.2	1922.1
27.5°	2599.0	2601.5	2541.8	2443.8	2351.8	2203.1	2031.1	2027.3	2021.5	2014.2	2008.0
30°	2843.9	2843.2	2781.8	2688.3	2589.7	2425.2	2175.6	2163.8	2146.6	2126.9	2111.8
32.5°	3056.0	3054.9	2987.6	2890.8	2787.3	2645.2	2373.6	2349.4	2322.5	2284.1	2261.1
35°	3222.8	3222.2	3158.7	3057.7	2939.0	2852.5	2600.4	2570.8	2536.6	2485.3	2449.8
37.5°	3285.9	3285.9	3250.4	3181.5	3076.6	3017.3	2852.5	2816.6	2780.1	2721.8	2681.8
40°	3249.0	3249.7	3257.3	3244.6	3193.6	3148.0	3087.7	3066.3	3034.9	2982.5	2940.8
42.5°	3125.2	3129.0	3179.4	3241.1	3266.6	3259.4	3296.3	3286.6	3264.5	3224.2	3191.1
45°	2968.3	2980.1	3035.2	3151.8	3286.9	3355.6	3471.1	3472.1	3468.0	3446.3	3420.7
47.5°	2752.9	2769.3	2842.2	2999.7	3239.4	3449.1	3648.7	3658.0	3666.7	3652.5	3640.8
50°	2466.6	2486.3	2595.2	2804.2	3142.5	3546.0	3984.2	4026.3	4065.6	4060.8	4068.7
52.5°	2160.1	2183.2	2316.6	2549.4	2976.0	3568.4	4198.7	4267.3	4336.0	4392.1	4451.8
55°	1883.5	1871.1	2004.6	2249.7	2702.1	3467.3	4391.5	4474.3	4550.8	4619.7	4690.8
57.5°	1508.6	1529.0	1662.8	1905.2	2339.7	3182.1	4524.2	4645.3	4755.3	4869.5	4970.1
60°	1102.7	1123.1	1268.3	1514.5	1946.3	2749.7	4422.8	4606.3	4782.5	4957.3	5093.9
62.5°	665.8	681.1	808.9	1043.5	1500.8	2237.0	3971.1	4211.8	4471.1	4680.1	4889.4
65°	414.5	423.1	470.4	599.3	963.8	1670.1	3244.6	3507.0	3786.2	4051.5	4269.1
67.5°	339.3	342.4	351.1	378.6	529.3	1089.0	2414.9	2647.3	2899.3	3155.9	3398.0
70°	305.1	303.1	303.1	304.8	339.3	585.5	1581.1	1732.5	1942.5	2165.6	2387.0
72.5°	275.5	273.4	269.6	264.5	276.9	357.2	817.2	931.4	1082.8	1281.0	1493.1
75°	247.6	244.8	240.4	233.8	242.4	269.6	392.4	440.4	514.1	619.7	738.0
77.5°	218.6	215.1	211.0	206.2	217.3	209.7	230.0	247.2	275.5	309.3	353.8
80°	185.9	182.8	181.4	179.0	192.1	159.7	162.4	173.1	189.7	208.0	228.6
82.5°	145.6	145.6	151.0	152.1	166.5	114.9	121.4	130.7	139.3	148.9	158.7
85°	95.9	96.6	115.2	122.4	131.3	77.2	91.0	94.1	101.1	106.6	110.7
87.5°	30.0	32.4	70.4	77.9	75.5	43.8	55.9	57.3	62.1	65.9	69.4
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: P191419  
 CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-1200

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	656.9	652.7	649.0	648.7	645.9	642.1	643.4	637.6	637.9	634.8	631.4
5°	772.4	769.7	755.9	752.1	741.7	735.2	734.2	720.4	718.6	710.7	702.1
7.5°	938.7	929.7	910.3	901.0	883.4	870.3	864.2	845.9	836.9	816.2	806.9
10°	1112.8	1101.4	1077.6	1064.5	1047.6	1026.5	1015.2	988.7	978.2	959.3	936.6
12.5°	1274.2	1262.8	1238.3	1228.3	1205.9	1183.5	1171.1	1141.1	1127.6	1097.2	1079.3
15°	1423.4	1412.1	1390.7	1380.4	1358.0	1339.7	1323.1	1293.5	1277.7	1249.3	1225.9
17.5°	1568.3	1556.2	1537.6	1528.3	1506.6	1488.0	1470.1	1442.1	1425.9	1397.7	1376.6
20°	1702.8	1693.8	1680.4	1667.9	1646.2	1629.4	1608.0	1583.8	1560.4	1539.6	1519.7
22.5°	1820.0	1816.6	1802.1	1796.6	1778.0	1763.5	1744.8	1721.1	1704.1	1677.9	1659.3
25°	1921.1	1920.1	1913.1	1911.4	1898.3	1884.5	1880.4	1860.7	1845.2	1822.1	1802.8
27.5°	2008.0	2009.0	2007.3	2012.1	2008.7	2002.4	2002.8	1996.3	1987.3	1968.0	1951.1
30°	2104.5	2099.0	2102.2	2109.0	2111.1	2111.8	2123.1	2126.9	2126.3	2113.5	2105.2
32.5°	2241.1	2228.0	2215.9	2214.9	2221.7	2224.5	2243.8	2253.9	2262.5	2265.5	2267.0
35°	2415.2	2389.0	2363.8	2350.4	2338.7	2341.7	2355.5	2371.8	2390.7	2403.8	2419.4
37.5°	2634.5	2602.5	2558.0	2526.3	2518.3	2501.1	2510.0	2522.8	2541.4	2561.8	2588.7
40°	2900.4	2851.8	2801.8	2759.7	2737.0	2705.2	2704.9	2702.4	2713.9	2732.8	2770.8
42.5°	3156.3	3113.1	3060.1	3016.0	2986.3	2943.8	2935.3	2912.9	2918.0	2934.5	2971.5
45°	3395.9	3360.4	3328.0	3277.0	3251.8	3205.9	3191.4	3164.9	3150.1	3157.6	3194.6
47.5°	3628.0	3605.3	3571.4	3538.4	3519.1	3478.0	3459.4	3440.4	3421.5	3420.7	3459.4
50°	4080.4	4068.4	4028.4	3993.9	4003.2	3952.9	3956.0	3904.9	3928.0	3930.8	4011.8
52.5°	4505.6	4547.7	4577.4	4613.5	4637.0	4641.5	4657.0	4680.1	4708.0	4763.2	4838.4
55°	4749.0	4801.8	4832.5	4860.1	4905.7	4915.3	4941.2	4971.8	4996.3	5058.4	5122.2
57.5°	5038.4	5136.3	5183.9	5227.7	5289.1	5312.5	5355.7	5389.1	5420.8	5494.3	5571.5
60°	5216.6	5336.0	5432.9	5502.1	5579.1	5634.3	5699.5	5751.8	5826.3	5914.3	6029.5
62.5°	5075.0	5250.1	5378.8	5497.7	5602.2	5707.8	5801.2	5899.2	6012.2	6145.3	6324.0
65°	4510.5	4688.7	4909.0	5032.5	5170.8	5333.6	5475.7	5634.3	5788.4	5982.2	6246.3
67.5°	3631.2	3838.3	4086.0	4210.5	4369.4	4551.1	4710.5	4904.2	5084.3	5319.0	5645.7
70°	2617.3	2885.2	3093.5	3223.5	3409.1	3596.3	3750.1	3975.6	4124.5	4365.2	4702.9
72.5°	1657.3	1868.6	2123.9	2287.6	2452.4	2642.2	2799.4	2993.9	3132.8	3352.1	3658.0
75°	891.1	1046.9	1271.0	1426.6	1603.2	1765.2	1949.3	2079.7	2182.5	2356.0	2604.2
77.5°	417.6	512.4	625.8	745.5	865.2	990.0	1111.4	1216.9	1261.1	1360.4	1506.9
80°	253.5	284.2	317.2	354.1	404.2	444.5	498.0	536.5	539.3	570.7	615.5
82.5°	169.3	180.7	190.7	200.0	212.8	222.8	234.2	247.6	253.1	260.3	274.9
85°	115.5	121.0	123.1	129.0	127.6	131.0	135.5	140.0	142.4	142.1	148.6
87.5°	71.0	73.8	75.2	76.5	75.5	74.2	76.2	78.7	79.3	77.2	77.9
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: P191419  
 CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-1200

**CANDELA DISTRIBUTION (continued):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	632.1	629.0	625.8	623.8	623.1	604.9	596.9	591.8	580.7	571.7	564.5
5°	697.2	690.7	685.6	679.3	675.9	629.6	612.7	601.1	581.8	570.4	560.0
7.5°	802.1	783.8	773.1	761.1	750.7	667.3	639.3	621.0	594.1	579.0	567.2
10°	921.1	902.1	885.2	866.5	850.4	717.3	676.6	648.2	612.7	593.1	577.6
12.5°	1053.8	1035.2	1013.8	990.0	969.3	780.7	724.1	683.8	635.2	609.0	587.3
15°	1210.8	1177.9	1152.0	1124.5	1100.4	856.6	779.7	723.8	659.0	623.5	594.5
17.5°	1356.5	1322.1	1287.0	1262.8	1234.9	941.7	835.5	764.5	678.6	632.8	595.9
20°	1499.0	1461.4	1431.1	1398.7	1369.3	1030.0	895.2	800.4	691.4	633.1	587.3
22.5°	1624.5	1601.0	1567.3	1532.1	1502.4	1118.3	951.0	830.7	696.2	625.2	572.0
25°	1767.2	1742.5	1701.1	1671.4	1638.4	1208.3	1005.9	854.2	693.5	610.4	548.6
27.5°	1919.7	1892.2	1849.7	1818.7	1778.7	1301.7	1056.2	871.0	683.1	586.3	517.2
30°	2078.6	2053.5	2011.7	1980.4	1940.0	1400.7	1112.5	882.4	662.5	552.8	480.7
32.5°	2249.4	2228.3	2187.0	2154.2	2111.1	1507.9	1164.8	885.9	631.1	513.1	442.1
35°	2411.4	2397.0	2362.1	2331.4	2286.6	1609.3	1220.4	884.1	593.8	469.6	406.9
37.5°	2593.9	2585.2	2568.0	2529.0	2474.2	1746.9	1287.0	876.9	548.3	426.6	380.0
40°	2788.4	2789.1	2770.5	2743.9	2692.8	1913.8	1366.3	862.8	498.6	388.6	355.5
42.5°	2994.2	3004.9	2995.9	2977.0	2928.0	2082.1	1461.1	845.6	450.4	351.7	331.4
45°	3230.1	3243.2	3257.0	3229.0	3181.5	2304.2	1585.9	823.2	398.2	321.0	314.9
47.5°	3502.2	3522.8	3535.2	3535.6	3488.1	2579.4	1788.6	809.7	352.1	300.3	306.9
50°	4076.3	4082.9	4112.2	4163.2	4126.7	3216.3	2142.8	801.4	320.7	287.6	301.1
52.5°	4903.5	4975.6	5026.4	5022.9	4973.2	3620.7	2338.0	758.6	302.1	282.7	298.3
55°	5240.5	5330.5	5424.3	5449.1	5410.5	3966.0	2522.5	715.9	293.1	286.2	299.3
57.5°	5689.4	5841.2	5969.8	6024.0	5968.1	4407.7	2765.2	693.5	290.3	295.5	305.9
60°	6213.9	6401.5	6570.5	6667.7	6667.7	4915.3	3017.0	684.1	286.5	309.3	316.9
62.5°	6550.9	6826.4	7081.6	7224.0	7219.8	5268.7	3128.7	652.4	277.9	319.0	332.0
65°	6552.2	6879.9	7204.9	7365.0	7373.2	5225.3	2944.3	576.2	262.1	320.4	347.3
67.5°	6006.1	6355.3	6734.3	6913.3	6954.6	4810.1	2548.7	473.8	236.2	306.6	352.8
70°	5072.5	5413.6	5800.4	5976.4	6049.8	4100.4	2052.8	365.2	203.2	276.2	341.4
72.5°	3996.3	4330.8	4600.1	4728.7	4786.0	3134.2	1494.8	275.9	166.5	232.7	310.7
75°	2829.4	3080.4	3223.5	3252.2	3261.1	1889.4	908.3	205.2	137.3	181.1	262.4
77.5°	1596.9	1704.5	1692.8	1705.6	1599.4	729.4	395.6	146.9	113.1	137.6	203.5
80°	623.5	642.8	603.8	591.8	542.8	271.4	174.5	102.4	90.3	104.1	142.4
82.5°	274.9	283.8	275.5	277.6	265.6	140.0	104.4	74.2	68.9	76.2	94.5
85°	151.4	154.2	153.4	157.9	151.4	55.9	49.6	45.5	48.3	51.8	60.7
87.5°	73.8	74.5	72.1	75.9	73.4	28.2	24.4	25.9	28.2	28.9	28.9
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: P191419

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-1200

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	559.3	556.6	556.9	556.2	554.8	554.8
5°	554.5	551.8	551.8	551.1	549.3	549.6
7.5°	559.3	554.8	553.1	550.7	548.3	548.3
10°	564.9	556.9	552.1	548.0	544.8	544.8
12.5°	569.0	556.6	548.6	543.1	540.0	540.0
15°	570.4	554.1	543.1	536.5	533.8	533.5
17.5°	565.9	544.8	531.4	523.9	520.4	519.4
20°	552.1	527.9	511.8	503.1	498.3	496.5
22.5°	531.4	503.8	484.9	475.9	469.6	468.6
25°	502.5	472.8	454.2	445.5	442.1	441.0
27.5°	468.6	441.0	425.1	419.6	416.5	416.2
30°	436.6	413.1	401.4	397.2	393.4	392.8
32.5°	406.5	391.7	387.3	381.4	372.5	371.4
35°	385.1	383.8	380.7	367.5	356.6	353.4
37.5°	372.0	384.8	369.0	343.1	335.2	334.5
40°	364.5	374.2	346.9	338.0	338.6	338.0
42.5°	347.3	357.2	347.6	343.5	346.2	346.9
45°	330.0	341.1	352.8	350.1	356.6	356.6
47.5°	320.4	336.9	352.4	352.4	362.1	365.5
50°	309.3	333.5	346.9	351.7	359.4	356.6
52.5°	308.6	327.5	339.0	347.6	351.1	347.9
55°	309.6	322.7	331.0	340.7	344.8	345.1
57.5°	311.1	320.0	325.5	330.0	342.4	342.4
60°	314.5	317.6	320.7	323.2	339.3	339.6
62.5°	320.0	315.2	314.5	316.9	337.6	336.2
65°	328.7	311.7	306.6	308.9	335.8	331.7
67.5°	340.3	306.6	296.6	298.3	334.5	325.5
70°	351.1	298.3	284.2	282.4	321.4	305.6
72.5°	352.1	288.7	266.9	261.8	279.4	264.1
75°	334.8	282.0	248.0	232.7	230.7	228.6
77.5°	301.8	278.2	225.9	202.0	197.9	199.3
80°	252.5	264.1	199.3	171.0	193.4	191.1
82.5°	188.6	233.1	169.3	151.4	151.0	133.5
85°	104.9	181.8	137.9	113.4	79.0	76.5
87.5°	29.4	101.1	96.6	64.1	43.8	45.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)