

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: P193933

Luminaire Tested: **GLEON-AF-05-LED-E1-T2R-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193933  
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-05-LED-E1-T2R-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16664 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 162  
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

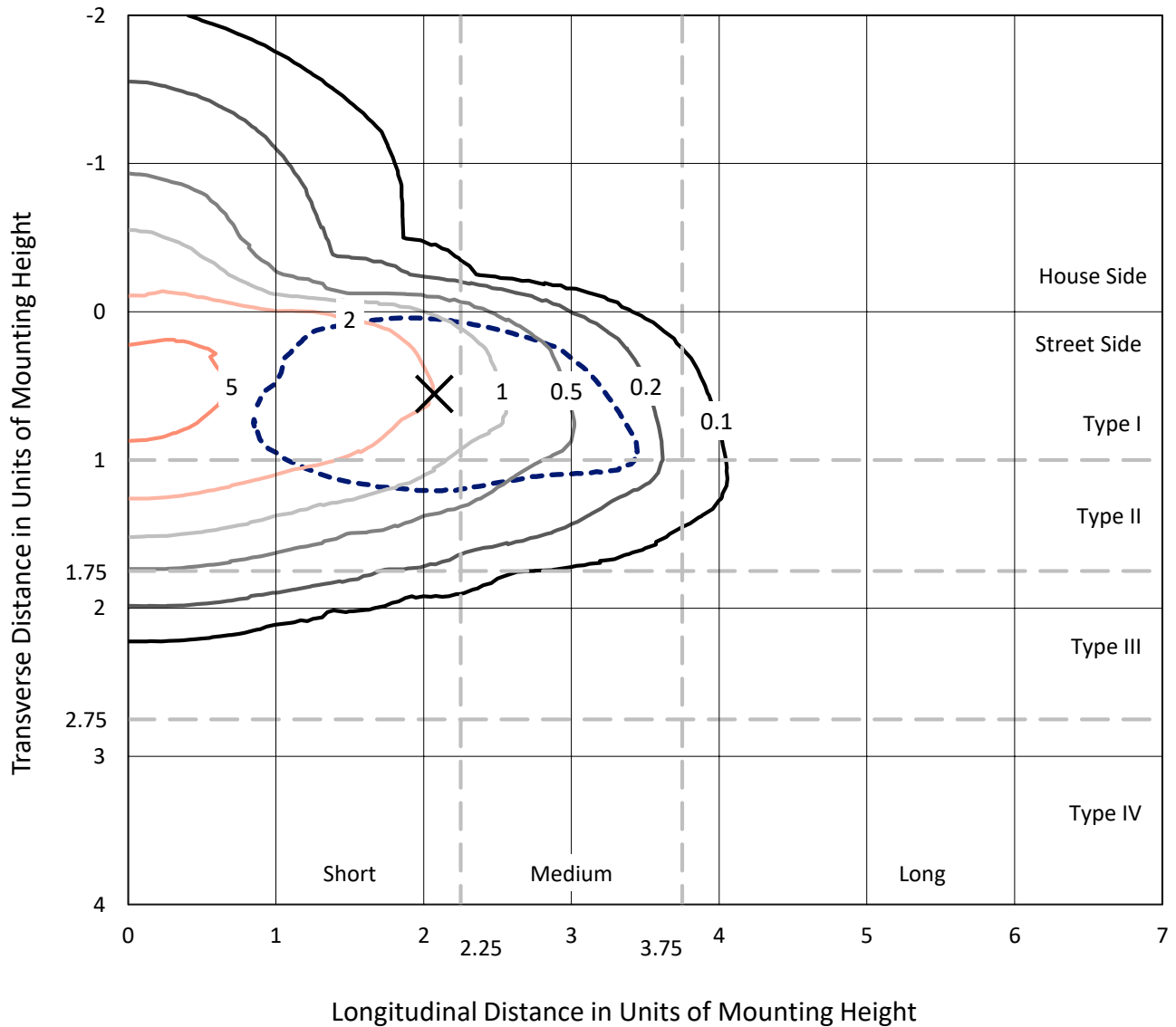


REPORT NUMBER: P193933

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030-600

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

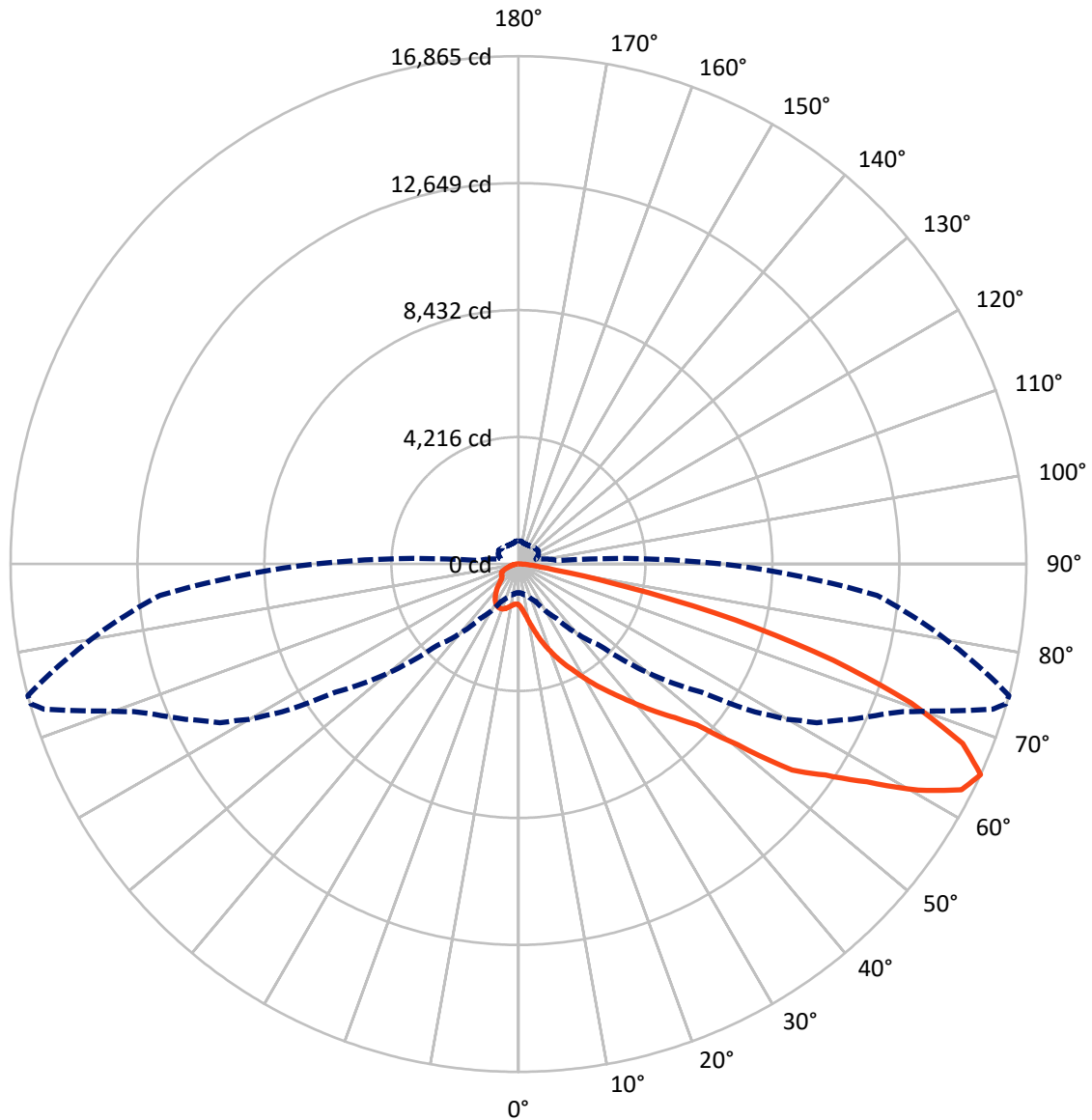


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P193933

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P193933

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2569.2	0.0	2569.2
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	14094.8	0.0	14094.8
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	16664.0	0.0	16664.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.4	1.0
10°-20°	654.0	3.9
20°-30°	1341.9	8.1
30°-40°	2257.6	13.5
40°-50°	3119.4	18.7
50°-60°	3894.0	23.4
60°-70°	3504.2	21.0
70°-80°	1468.9	8.8
80°-90°	256.6	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°	16664.0	100.0
0°-180°	16664.0	100.0



REPORT NUMBER: P193933

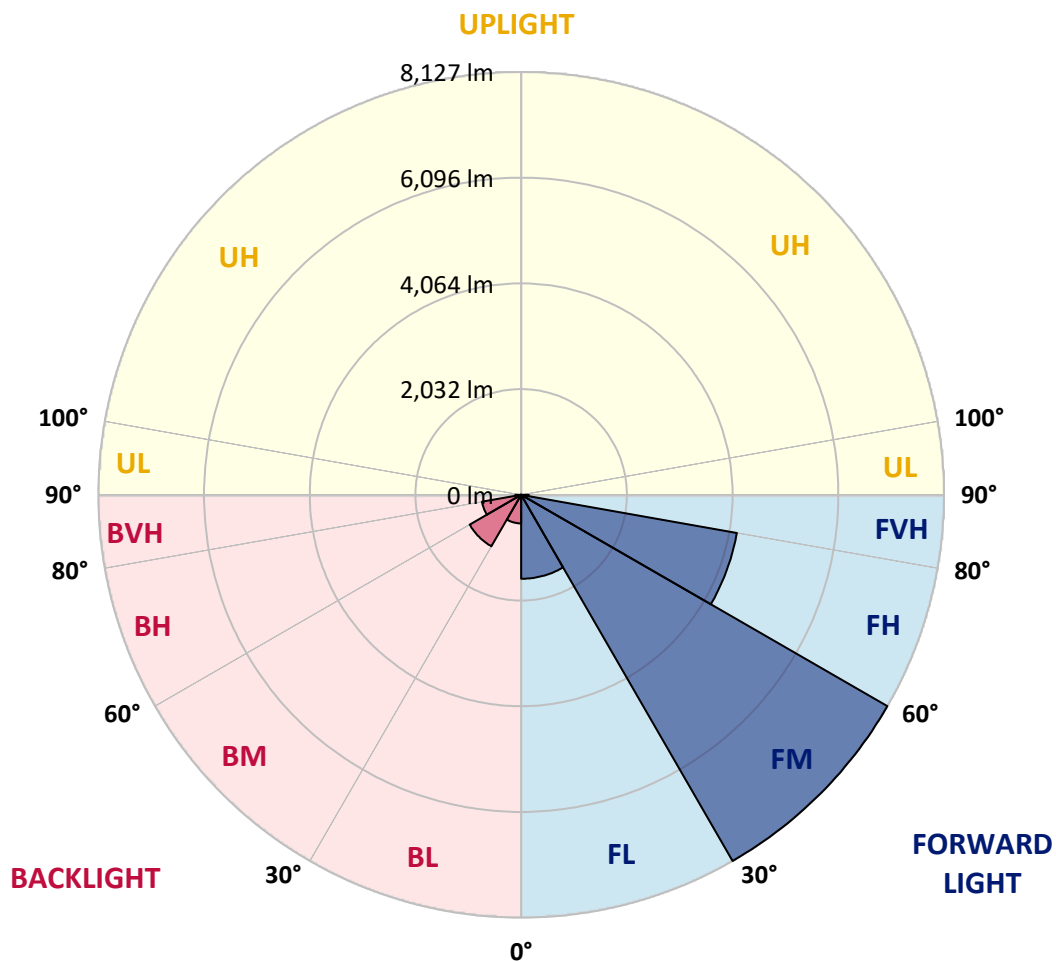
CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030-600

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.9	9.7			
FM (30°-60°)	8127.4	48.8			
FH (60°-80°)	4209.3	25.3			G2/5000
FVH (80°-90°)	144.2	0.9			G2/225
BL (0°-30°)	549.4	3.3	B2/1000		
BM (30°-60°)	1143.6	6.9	B2/2500		
BH (60°-80°)	763.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	112.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P193933

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3
2.5°	1719.5	1700.5	1705.3	1673.7	1635.1	1584.6	1528.6	1527.8	1528.6	1523.1	1502.6
5°	2384.4	2361.5	2352.8	2281.8	2177.7	2029.4	1868.5	1851.2	1844.1	1825.9	1784.1
7.5°	2869.4	2856.8	2843.4	2789.8	2695.1	2529.5	2313.4	2276.3	2240.8	2232.1	2184.8
10°	3182.6	3179.4	3151.0	3136.8	3077.7	2934.1	2723.5	2688.0	2649.4	2636.0	2586.3
12.5°	3430.2	3429.4	3416.0	3420.0	3368.7	3264.6	3083.2	3050.9	3022.5	2981.4	2945.9
15°	3601.4	3602.2	3621.9	3644.0	3636.1	3565.9	3395.5	3381.3	3356.9	3328.5	3286.7
17.5°	3741.8	3745.7	3766.2	3806.5	3849.8	3844.3	3709.5	3697.6	3676.3	3637.7	3615.6
20°	4058.9	4073.8	4034.4	4034.4	4039.1	4060.4	3995.8	3986.3	3956.3	3935.8	3918.5
22.5°	4594.4	4611.8	4522.6	4431.9	4342.8	4278.1	4213.5	4225.3	4204.8	4190.6	4180.3
25°	5290.1	5303.5	5159.2	5006.1	4824.7	4588.1	4428.0	4420.9	4409.9	4401.2	4396.4
27.5°	5944.7	5950.3	5813.8	5589.8	5379.2	5039.3	4645.7	4637.0	4623.6	4607.0	4592.8
30°	6504.7	6503.2	6362.8	6149.0	5923.4	5547.2	4976.2	4949.4	4909.9	4865.0	4830.3
32.5°	6989.8	6987.5	6833.7	6612.0	6375.4	6050.4	5428.9	5373.7	5312.2	5224.6	5171.8
35°	7371.6	7370.0	7224.9	6993.8	6722.4	6524.5	5947.9	5880.1	5802.0	5684.5	5603.2
37.5°	7515.9	7515.9	7434.7	7276.9	7037.1	6901.5	6524.5	6442.4	6358.8	6225.5	6134.0
40°	7431.5	7433.1	7450.5	7421.3	7304.5	7200.4	7062.4	7013.5	6941.7	6821.8	6726.4
42.5°	7148.4	7157.0	7272.2	7413.4	7471.7	7455.2	7539.6	7517.5	7467.0	7374.7	7299.0
45°	6789.5	6816.3	6942.5	7209.1	7518.3	7675.2	7939.5	7941.8	7932.4	7882.7	7824.3
47.5°	6296.5	6334.4	6500.8	6861.3	7409.4	7889.0	8345.7	8367.0	8386.7	8354.3	8327.5
50°	5641.9	5686.8	5936.1	6414.0	7187.8	8110.6	9113.1	9209.3	9299.3	9288.2	9306.4
52.5°	4940.7	4993.5	5298.8	5831.2	6806.8	8161.9	9603.7	9760.7	9917.6	10046.2	10182.6
55°	4308.1	4279.7	4585.0	5145.7	6180.6	7930.8	10044.6	10233.9	10409.0	10566.8	10729.2
57.5°	3450.7	3497.3	3803.3	4357.8	5351.6	7278.5	10348.3	10625.1	10876.7	11137.8	11368.1
60°	2522.4	2568.9	2901.0	3464.2	4451.7	6289.4	10116.4	10536.0	10939.1	11338.9	11651.3
62.5°	1523.1	1557.8	1850.4	2386.7	3432.6	5116.6	9083.1	9633.7	10226.8	10704.8	11183.6
65°	948.1	967.8	1075.8	1370.8	2204.5	3819.9	7421.3	8021.5	8660.4	9266.9	9764.6
67.5°	776.1	783.2	802.9	866.0	1210.7	2490.8	5523.6	6055.2	6631.7	7218.6	7772.3
70°	698.0	693.3	693.3	697.2	776.1	1339.3	3616.4	3962.6	4443.0	4953.3	5459.7
72.5°	630.2	625.5	616.8	605.0	633.4	817.1	1869.3	2130.4	2476.6	2930.2	3415.2
75°	566.3	560.0	549.8	534.8	554.5	616.8	897.6	1007.2	1176.0	1417.4	1687.9
77.5°	500.1	492.2	482.7	471.7	496.9	479.6	526.1	565.5	630.2	707.5	809.2
80°	425.1	418.0	414.9	409.4	439.3	365.2	371.5	395.9	433.8	475.6	522.9
82.5°	332.8	332.8	345.5	347.8	381.0	262.7	277.6	298.9	318.7	340.7	362.8
85°	219.3	220.8	263.4	280.0	300.5	176.7	208.2	215.3	231.1	243.7	253.2
87.5°	68.6	74.1	160.9	178.3	172.7	100.2	127.8	130.9	142.0	150.6	158.5
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: P193933

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030-600

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3
2.5°	1502.6	1493.1	1484.4	1483.6	1477.3	1468.6	1471.8	1458.4	1459.2	1452.1	1444.2
5°	1766.8	1760.5	1728.9	1720.2	1696.6	1681.6	1679.2	1647.7	1643.7	1625.6	1605.9
7.5°	2147.0	2126.4	2082.3	2061.0	2020.8	1990.8	1976.6	1934.8	1914.3	1867.0	1845.7
10°	2545.3	2519.2	2464.8	2434.8	2396.2	2348.1	2322.1	2261.3	2237.7	2194.3	2142.2
12.5°	2914.4	2888.4	2832.4	2809.5	2758.2	2707.0	2678.6	2609.9	2579.2	2509.8	2468.8
15°	3255.9	3229.9	3181.0	3157.3	3106.1	3064.3	3026.4	2958.6	2922.3	2857.6	2804.0
17.5°	3587.2	3559.6	3517.0	3495.7	3446.0	3403.4	3362.4	3298.5	3261.4	3196.8	3148.7
20°	3894.8	3874.3	3843.5	3815.1	3765.5	3726.8	3677.9	3622.7	3569.1	3521.7	3476.0
22.5°	4163.0	4155.1	4122.0	4109.3	4066.7	4033.6	3991.0	3936.6	3898.0	3838.0	3795.4
25°	4394.1	4391.7	4375.9	4372.0	4342.0	4310.5	4301.0	4256.0	4220.6	4167.7	4123.5
27.5°	4592.8	4595.2	4591.3	4602.3	4594.4	4580.2	4581.0	4566.0	4545.5	4501.3	4462.7
30°	4813.7	4801.1	4808.2	4823.9	4828.7	4830.3	4856.3	4865.0	4863.4	4834.2	4815.3
32.5°	5126.0	5096.1	5068.5	5066.1	5081.9	5088.2	5132.3	5155.2	5174.9	5182.0	5185.2
35°	5524.3	5464.4	5406.8	5376.1	5349.2	5356.3	5387.9	5425.0	5468.3	5498.3	5533.8
37.5°	6026.0	5952.6	5850.9	5778.3	5760.2	5720.7	5741.2	5770.4	5813.0	5859.6	5921.1
40°	6634.1	6522.9	6408.5	6312.3	6260.2	6187.7	6186.9	6181.4	6207.4	6250.8	6337.5
42.5°	7219.3	7120.8	6999.3	6898.3	6830.5	6733.5	6713.8	6662.5	6674.3	6712.2	6796.6
45°	7767.5	7686.3	7612.1	7495.4	7437.8	7332.9	7299.8	7239.1	7205.2	7222.5	7306.9
47.5°	8298.3	8246.3	8169.0	8093.3	8049.1	7955.2	7912.7	7869.3	7825.9	7824.3	7912.7
50°	9333.2	9305.6	9214.1	9135.2	9156.5	9041.3	9048.4	8931.7	8984.6	8990.9	9176.2
52.5°	10305.7	10401.9	10469.8	10552.6	10606.2	10616.5	10652.0	10704.8	10768.7	10894.9	11066.8
55°	10862.5	10983.2	11053.4	11116.5	11220.6	11242.7	11301.9	11372.1	11428.1	11570.0	11716.0
57.5°	11524.3	11748.3	11857.1	11957.3	12097.7	12151.3	12249.9	12326.4	12399.0	12567.0	12743.7
60°	11932.1	12205.0	12426.6	12585.2	12761.0	12887.2	13036.3	13156.2	13326.6	13527.7	13791.1
62.5°	11607.9	12008.6	12302.8	12574.9	12813.9	13055.2	13269.0	13493.0	13751.7	14056.2	14464.7
65°	10316.7	10724.5	11228.5	11510.9	11827.2	12199.5	12524.4	12887.2	13239.8	13683.1	14287.3
67.5°	8305.4	8779.5	9345.8	9630.5	9994.1	10409.8	10774.2	11217.5	11629.2	12166.3	12913.3
70°	5986.5	6599.4	7075.8	7373.2	7797.5	8225.8	8577.6	9093.4	9434.1	9984.7	10756.9
72.5°	3790.7	4274.2	4857.9	5232.5	5609.5	6043.3	6403.0	6847.9	7165.7	7667.4	8367.0
75°	2038.1	2394.6	2907.3	3263.0	3666.9	4037.6	4458.8	4756.9	4991.9	5388.7	5956.6
77.5°	955.2	1172.1	1431.6	1705.3	1979.0	2264.5	2542.1	2783.5	2884.4	3111.6	3446.8
80°	579.7	649.9	725.6	810.0	924.4	1016.7	1138.9	1227.3	1233.6	1305.4	1407.9
82.5°	387.3	413.3	436.2	457.5	486.7	509.5	535.6	566.3	578.9	595.5	628.6
85°	264.2	276.8	281.6	295.0	291.8	299.7	310.0	320.2	325.8	325.0	339.9
87.5°	162.5	168.8	171.9	175.1	172.7	169.6	174.3	179.8	181.4	176.7	178.3
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: P193933

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030-600

**CANDELA DISTRIBUTION (continued):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3
2.5°	1445.8	1438.7	1431.6	1426.8	1425.3	1383.5	1365.3	1353.5	1328.2	1307.7	1291.2
5°	1594.8	1579.8	1568.0	1553.8	1545.9	1440.2	1401.6	1374.8	1330.6	1304.6	1280.9
7.5°	1834.6	1792.8	1768.4	1740.8	1717.1	1526.2	1462.3	1420.5	1359.0	1324.3	1297.5
10°	2106.7	2063.3	2024.7	1982.1	1945.0	1640.6	1547.5	1482.8	1401.6	1356.6	1321.1
12.5°	2410.4	2367.8	2318.9	2264.5	2217.2	1785.7	1656.4	1564.1	1452.9	1392.9	1343.2
15°	2769.3	2694.3	2635.2	2572.1	2516.9	1959.2	1783.3	1655.6	1507.3	1426.0	1359.8
17.5°	3102.9	3024.0	2943.6	2888.4	2824.5	2154.1	1911.1	1748.6	1552.2	1447.3	1362.9
20°	3428.7	3342.7	3273.3	3199.1	3132.1	2356.0	2047.6	1830.7	1581.4	1448.1	1343.2
22.5°	3715.8	3621.1	3584.8	3504.4	3436.5	2557.9	2175.3	1900.1	1592.5	1430.0	1308.5
25°	4042.3	3985.5	3890.9	3823.0	3747.3	2763.7	2300.8	1953.7	1586.2	1396.1	1254.9
27.5°	4390.9	4327.8	4230.8	4159.8	4068.3	2977.5	2415.9	1992.4	1562.5	1340.9	1183.1
30°	4754.5	4697.0	4601.5	4529.7	4437.5	3203.9	2544.5	2018.4	1515.2	1264.4	1099.5
32.5°	5145.0	5096.8	5002.2	4927.3	4828.7	3449.2	2664.4	2026.3	1443.4	1173.6	1011.2
35°	5515.7	5482.5	5402.9	5332.7	5230.1	3681.1	2791.4	2022.3	1358.2	1074.3	930.7
37.5°	5932.9	5913.2	5873.8	5784.6	5659.2	3995.8	2943.6	2005.8	1254.1	975.7	869.2
40°	6377.8	6379.3	6336.7	6276.0	6159.3	4377.5	3125.0	1973.4	1140.5	888.9	813.2
42.5°	6848.6	6873.1	6852.6	6809.2	6697.2	4762.4	3341.9	1934.0	1030.1	804.5	758.0
45°	7388.1	7418.1	7449.7	7385.8	7276.9	5270.4	3627.4	1882.7	911.0	734.3	720.1
47.5°	8010.5	8057.8	8086.2	8087.0	7978.1	5899.8	4091.2	1852.0	805.3	687.0	702.0
50°	9323.7	9338.7	9405.7	9522.5	9438.9	7356.6	4901.2	1833.0	733.5	657.8	688.6
52.5°	11215.9	11380.7	11496.7	11488.8	11375.2	8281.8	5347.7	1735.2	690.9	646.8	682.3
55°	11986.5	12192.4	12406.9	12463.7	12375.4	9071.3	5769.6	1637.4	670.4	654.7	684.6
57.5°	13013.4	13360.5	13654.7	13778.5	13650.7	10081.7	6324.9	1586.2	664.1	676.0	699.6
60°	14213.1	14642.2	15028.7	15251.1	15251.1	11242.7	6900.7	1564.9	655.4	707.5	724.9
62.5°	14983.7	15613.9	16197.6	16523.3	16513.9	12051.2	7156.2	1492.3	635.7	729.6	759.6
65°	14986.9	15736.2	16480.0	16845.9	16864.9	11951.8	6734.3	1318.0	599.4	732.7	794.3
67.5°	13737.5	14536.5	15403.3	15812.7	15907.3	11002.2	5829.6	1083.7	540.3	701.2	806.9
70°	11602.4	12382.4	13267.4	13669.7	13837.7	9378.9	4695.4	835.3	464.6	631.8	780.9
72.5°	9140.7	9905.8	10521.8	10816.0	10946.9	7168.9	3419.2	631.0	381.0	532.4	710.7
75°	6471.6	7045.8	7373.2	7438.6	7459.1	4321.5	2077.5	469.3	313.9	414.1	600.2
77.5°	3652.7	3898.7	3871.9	3901.1	3658.2	1668.2	904.7	336.0	258.7	314.7	465.4
80°	1426.0	1470.2	1381.1	1353.5	1241.5	620.7	399.1	234.3	206.7	238.2	325.8
82.5°	628.6	649.1	630.2	634.9	607.3	320.2	239.0	169.6	157.7	174.3	216.1
85°	346.3	352.6	351.0	361.2	346.3	127.8	113.6	104.1	110.4	118.3	138.8
87.5°	168.8	170.4	164.8	173.5	168.0	64.7	56.0	59.2	64.7	66.3	66.3
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: P193933

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030-600

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3
2.5°	1279.3	1273.0	1273.8	1272.2	1269.1	1269.1
5°	1268.3	1262.0	1262.0	1260.4	1256.5	1257.3
7.5°	1279.3	1269.1	1265.1	1259.6	1254.1	1254.1
10°	1292.0	1273.8	1262.8	1253.3	1246.2	1246.2
12.5°	1301.4	1273.0	1254.9	1242.3	1235.2	1235.2
15°	1304.6	1267.5	1242.3	1227.3	1221.0	1220.2
17.5°	1294.3	1246.2	1215.5	1198.1	1190.2	1187.8
20°	1262.8	1207.6	1170.5	1150.8	1139.7	1135.8
22.5°	1215.5	1152.4	1109.0	1088.5	1074.3	1071.9
25°	1149.2	1081.4	1038.8	1019.1	1011.2	1008.8
27.5°	1071.9	1008.8	972.5	959.9	952.8	952.0
30°	998.5	944.9	918.1	908.6	900.0	898.4
32.5°	929.9	896.0	885.8	872.3	851.8	849.5
35°	881.0	877.9	870.8	840.8	815.6	808.5
37.5°	851.1	880.2	844.0	784.8	766.7	765.1
40°	833.7	855.8	793.5	773.0	774.5	773.0
42.5°	794.3	817.1	795.1	785.6	791.9	793.5
45°	754.8	780.1	806.9	800.6	815.6	815.6
47.5°	732.7	770.6	806.1	806.1	828.2	836.1
50°	707.5	762.7	793.5	804.5	821.9	815.6
52.5°	705.9	749.3	775.3	795.1	802.9	795.8
55°	708.3	738.3	757.2	779.3	788.7	789.5
57.5°	711.4	732.0	744.6	754.8	783.2	783.2
60°	719.3	726.4	733.5	739.1	776.1	776.9
62.5°	732.0	720.9	719.3	724.9	772.2	769.0
65°	751.7	713.0	701.2	706.7	768.2	758.8
67.5°	778.5	701.2	678.3	682.3	765.1	744.6
70°	802.9	682.3	649.9	646.0	735.1	698.8
72.5°	805.3	660.2	610.5	598.7	638.9	604.2
75°	765.9	645.2	567.1	532.4	527.7	522.9
77.5°	690.1	636.5	516.6	462.2	452.7	455.9
80°	577.4	604.2	455.9	391.2	442.5	437.0
82.5°	431.4	533.2	387.3	346.3	345.5	305.2
85°	239.8	415.7	315.5	259.5	180.6	175.1
87.5°	67.0	231.1	220.8	146.7	100.2	104.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)