

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: P269024

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269024  
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-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 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: 6187.3 lumens  
Efficiency: N/A  
Efficacy: 92.3 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 - G1

Input Watts (W): 67  
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

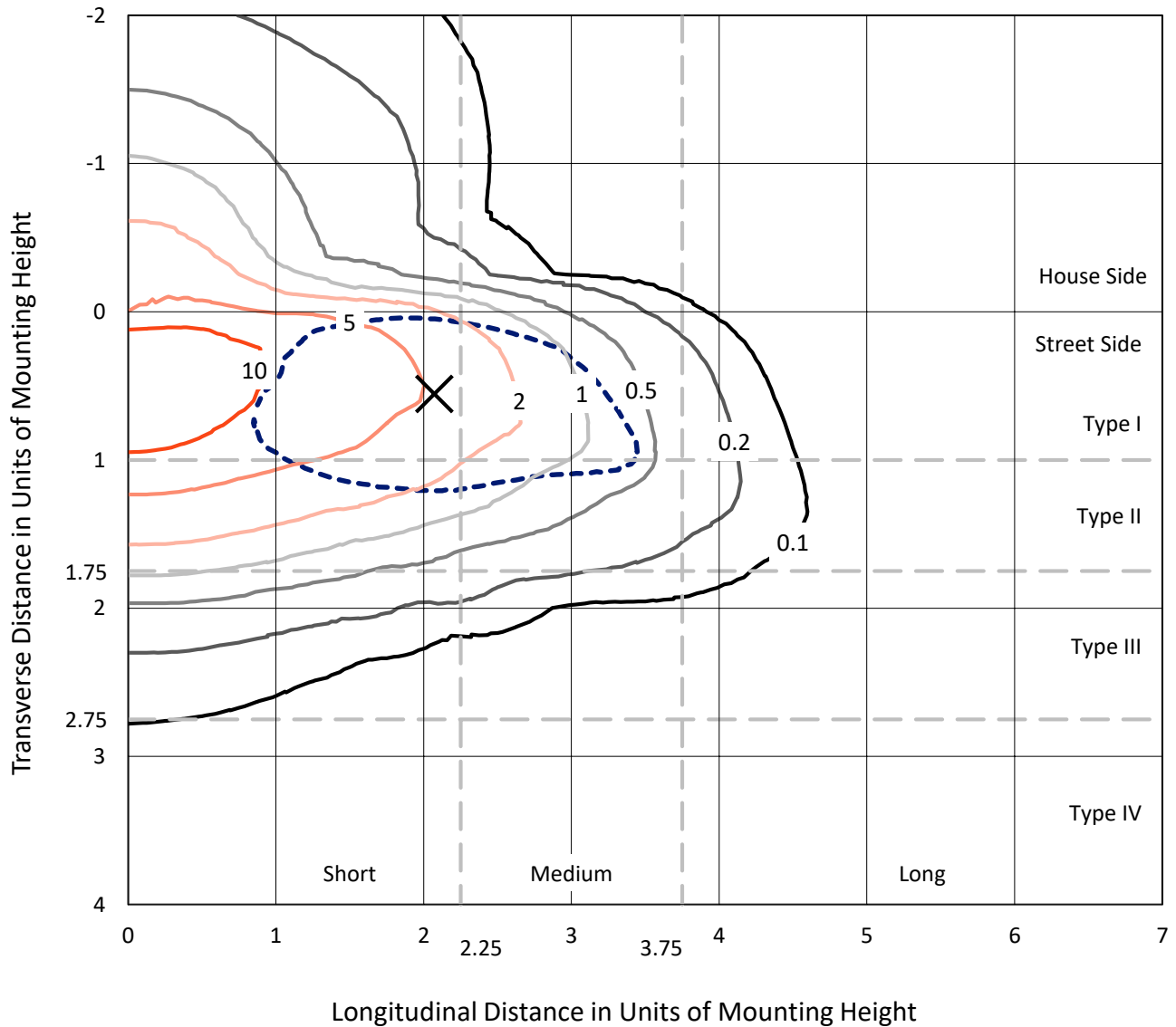


REPORT NUMBER: P269024

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-7027-1200

### Iso-Footcandle Lines of Horizontal Illumination

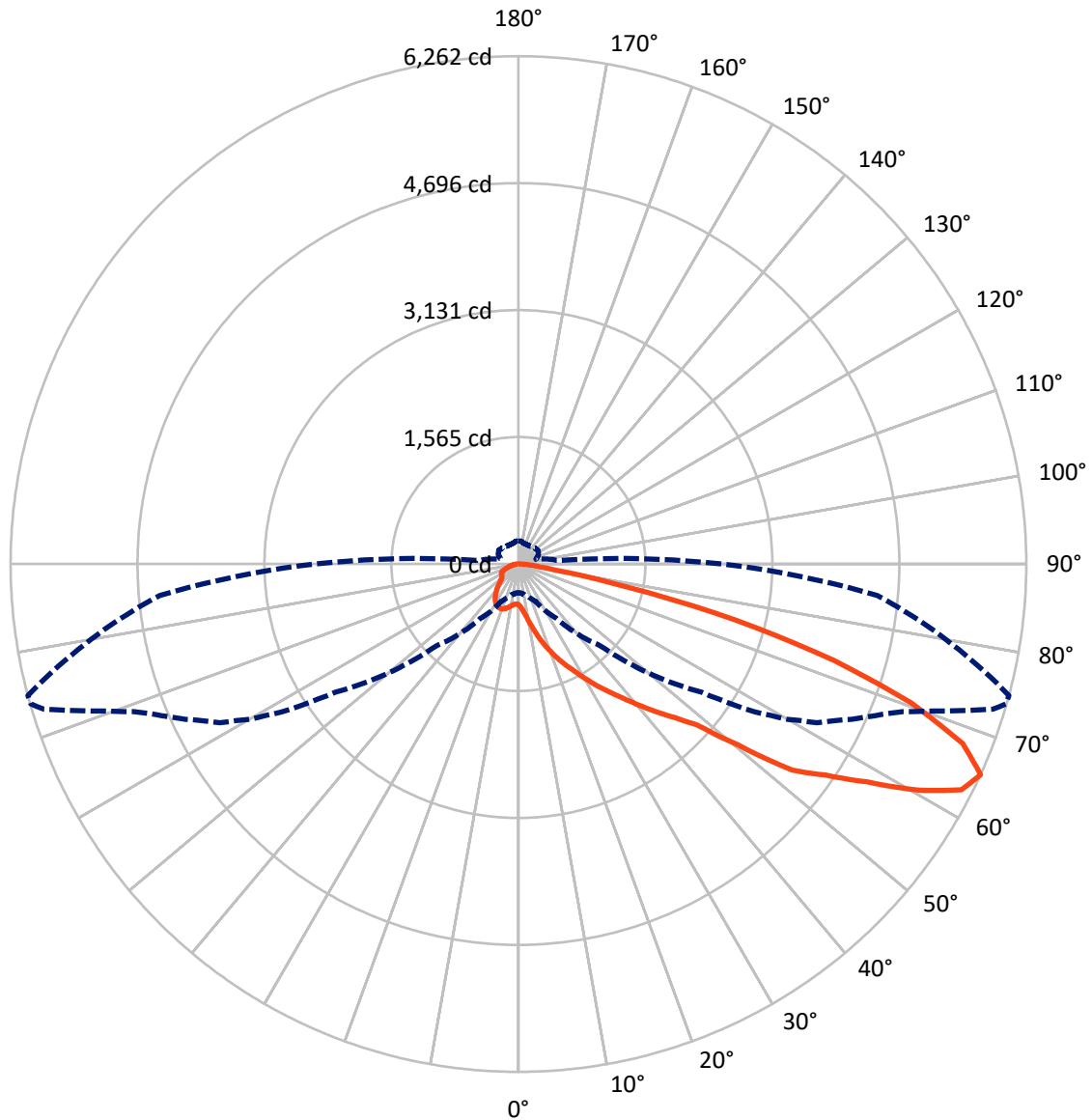
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P269024  
CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-7027-1200

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269024

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-7027-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	953.9	0.0	953.9
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	5233.3	0.0	5233.3
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	6187.3	0.0	6187.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.2	1.0
10°-20°	242.8	3.9
20°-30°	498.2	8.1
30°-40°	838.3	13.5
40°-50°	1158.2	18.7
50°-60°	1445.8	23.4
60°-70°	1301.1	21.0
70°-80°	545.4	8.8
80°-90°	95.3	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°	6187.3	100.0
0°-180°	6187.3	100.0



REPORT NUMBER: P269024

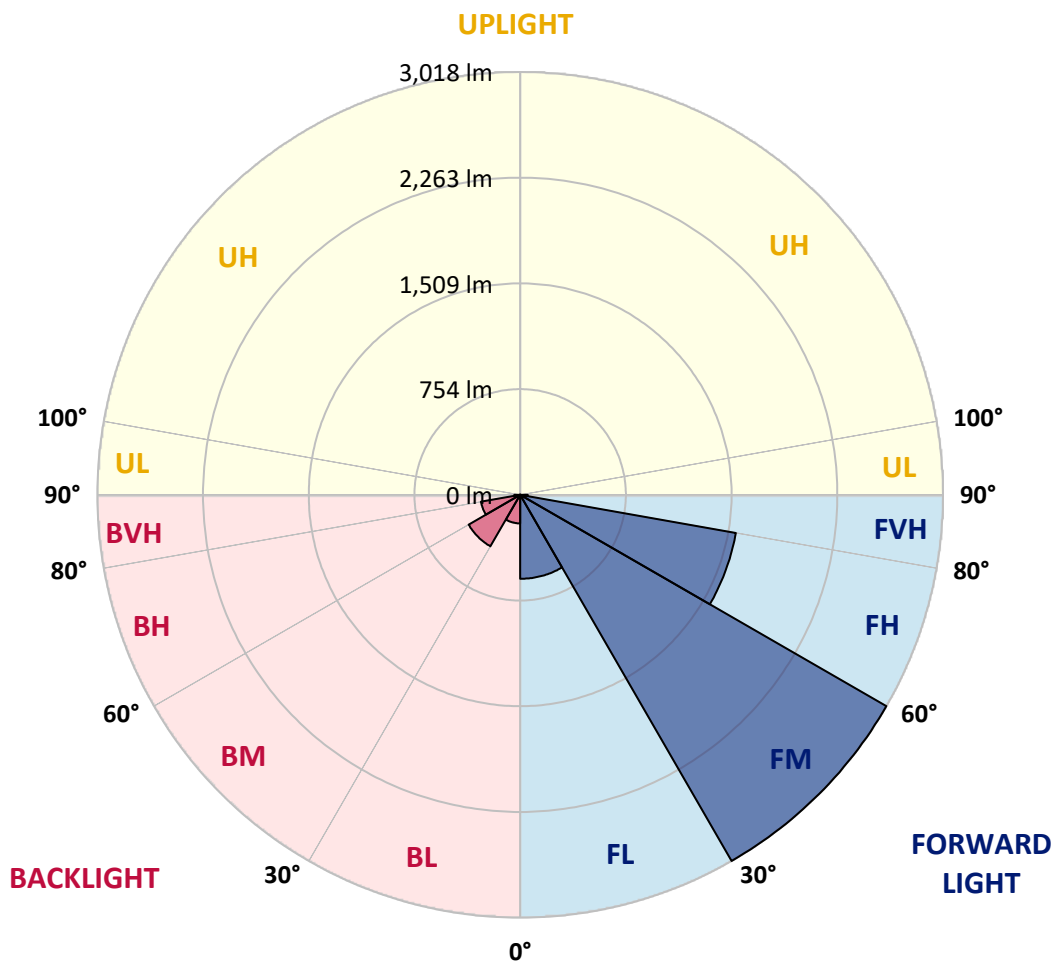
CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-7027-1200

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.2	9.7			
FM (30°-60°)	3017.7	48.8			
FH (60°-80°)	1562.9	25.3			G1/1800
FVH (80°-90°)	53.5	0.9			G1/100
BL (0°-30°)	204.0	3.3	B1/500		
BM (30°-60°)	424.6	6.9	B1/1000		
BH (60°-80°)	283.6	4.6	B1/500		G1/500
BVH (80°-90°)	41.7	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-G1**

Type II Short





REPORT NUMBER: P269024

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-7027-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	638.4	631.4	633.1	621.4	607.1	588.3	567.5	567.3	567.5	565.6	557.8
5°	885.3	876.8	873.6	847.2	808.6	753.5	693.9	687.4	684.7	678.0	662.4
7.5°	1065.4	1060.7	1055.8	1035.8	1000.7	939.2	859.0	845.1	832.0	828.7	811.2
10°	1181.7	1180.6	1170.0	1164.7	1142.7	1089.5	1011.2	998.0	983.7	978.8	960.3
12.5°	1273.6	1273.3	1268.3	1269.8	1250.8	1212.2	1144.8	1132.8	1122.3	1107.0	1093.9
15°	1337.1	1337.4	1344.9	1352.9	1350.1	1324.0	1260.7	1255.6	1246.4	1235.9	1220.3
17.5°	1389.3	1390.8	1398.4	1413.4	1429.5	1427.3	1377.3	1372.9	1365.1	1350.6	1342.4
20°	1507.0	1512.6	1498.0	1498.0	1499.7	1507.6	1483.6	1480.0	1469.0	1461.4	1455.0
22.5°	1705.9	1712.3	1679.2	1645.5	1612.5	1588.5	1564.5	1568.8	1561.3	1556.0	1552.1
25°	1964.1	1969.2	1915.5	1858.8	1791.4	1703.5	1644.1	1641.5	1637.3	1634.1	1632.4
27.5°	2207.2	2209.3	2158.6	2075.4	1997.3	1871.1	1724.9	1721.7	1716.8	1710.6	1705.3
30°	2415.3	2414.6	2362.5	2283.1	2199.3	2059.6	1847.6	1837.7	1823.0	1806.3	1793.5
32.5°	2595.4	2594.5	2537.4	2455.0	2367.2	2246.5	2015.7	1995.2	1972.4	1939.9	1920.2
35°	2737.0	2736.4	2682.6	2596.7	2496.0	2422.5	2208.5	2183.2	2154.2	2110.6	2080.5
37.5°	2790.7	2790.7	2760.4	2701.9	2612.9	2562.4	2422.5	2392.0	2360.9	2311.5	2277.6
40°	2759.2	2759.9	2766.3	2755.6	2712.2	2673.4	2622.2	2604.0	2577.4	2533.0	2497.5
42.5°	2654.1	2657.4	2700.1	2752.5	2774.2	2768.0	2799.4	2791.3	2772.4	2738.3	2710.0
45°	2521.0	2530.9	2577.7	2676.7	2791.6	2849.8	2947.9	2948.7	2945.3	2926.8	2905.1
47.5°	2337.8	2351.9	2413.7	2547.6	2751.1	2929.2	3098.8	3106.6	3114.0	3101.9	3092.0
50°	2094.8	2111.5	2204.0	2381.4	2668.8	3011.5	3383.6	3419.4	3452.7	3448.7	3455.4
52.5°	1834.5	1854.1	1967.4	2165.1	2527.3	3030.4	3565.8	3624.1	3682.3	3730.1	3780.7
55°	1599.6	1589.0	1702.4	1910.5	2294.8	2944.6	3729.6	3799.8	3864.8	3923.3	3983.8
57.5°	1281.3	1298.5	1412.1	1618.0	1987.1	2702.6	3842.3	3945.0	4038.5	4135.3	4221.0
60°	936.6	953.8	1077.1	1286.3	1652.9	2335.2	3756.2	3911.9	4061.5	4210.0	4326.1
62.5°	565.6	578.4	687.1	886.2	1274.5	1899.7	3372.5	3577.0	3797.1	3974.6	4152.3
65°	352.0	359.3	399.4	509.0	818.5	1418.3	2755.6	2978.3	3215.6	3440.8	3625.6
67.5°	288.1	290.8	298.1	321.6	449.5	924.9	2050.9	2248.3	2462.3	2680.3	2885.7
70°	259.3	257.5	257.5	258.9	288.1	497.3	1342.7	1471.3	1649.6	1839.1	2027.1
72.5°	234.0	232.2	229.0	224.7	235.1	303.4	694.1	791.0	919.5	1087.9	1268.0
75°	210.3	208.0	204.2	198.5	205.9	229.0	333.4	374.0	436.7	526.2	626.7
77.5°	185.7	182.7	179.2	175.1	184.5	178.0	195.3	209.9	234.0	262.7	300.5
80°	157.8	155.1	154.0	152.1	163.1	135.6	137.9	147.1	161.1	176.5	194.2
82.5°	123.5	123.5	128.3	129.1	141.5	97.6	103.0	111.0	118.2	126.5	134.7
85°	81.3	81.9	97.8	103.9	111.6	65.5	77.3	79.9	85.8	90.5	94.1
87.5°	25.5	27.5	59.7	66.1	64.0	37.2	47.4	48.6	52.7	56.0	58.8
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: P269024

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-7027-1200

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	557.8	554.3	551.2	550.9	548.5	545.4	546.4	541.5	541.8	539.2	536.2
5°	656.0	653.6	642.0	638.8	629.9	624.3	623.6	611.7	610.3	603.7	596.3
7.5°	797.2	789.5	773.1	765.3	750.4	739.1	733.8	718.4	710.7	693.2	685.2
10°	945.0	935.3	915.2	904.1	889.7	871.9	862.2	839.6	830.8	814.8	795.4
12.5°	1082.1	1072.4	1051.6	1043.1	1024.1	1005.1	994.6	969.0	957.7	931.8	916.6
15°	1208.8	1199.2	1181.1	1172.3	1153.2	1137.8	1123.7	1098.4	1085.1	1061.0	1041.0
17.5°	1331.8	1321.6	1305.9	1298.0	1279.5	1263.6	1248.5	1224.7	1210.9	1186.9	1169.1
20°	1446.1	1438.5	1427.0	1416.5	1398.1	1383.7	1365.7	1345.1	1325.2	1307.7	1290.7
22.5°	1545.8	1542.7	1530.4	1525.9	1510.1	1497.7	1481.8	1461.6	1447.3	1425.0	1409.3
25°	1631.5	1630.7	1624.8	1623.2	1612.2	1600.5	1596.9	1580.3	1567.1	1547.4	1531.0
27.5°	1705.3	1706.2	1704.8	1708.8	1705.9	1700.6	1700.9	1695.3	1687.7	1671.3	1657.0
30°	1787.3	1782.5	1785.2	1791.1	1792.8	1793.5	1803.1	1806.3	1805.8	1795.0	1787.8
32.5°	1903.2	1892.1	1881.9	1881.1	1886.9	1889.2	1905.7	1914.1	1921.5	1924.1	1925.2
35°	2051.2	2028.9	2007.5	1996.2	1986.2	1988.8	2000.4	2014.3	2030.3	2041.5	2054.7
37.5°	2237.4	2210.2	2172.5	2145.4	2138.8	2124.1	2131.7	2142.5	2158.4	2175.7	2198.4
40°	2463.2	2421.9	2379.4	2343.7	2324.5	2297.4	2297.1	2295.1	2304.8	2321.0	2353.1
42.5°	2680.5	2643.9	2598.7	2561.2	2536.2	2500.2	2492.7	2473.8	2478.2	2492.2	2523.6
45°	2884.1	2853.8	2826.3	2782.9	2761.6	2722.8	2710.4	2687.8	2675.2	2681.7	2713.1
47.5°	3081.1	3061.9	3033.0	3005.0	2988.7	2953.7	2937.9	2921.7	2905.7	2905.1	2937.9
50°	3465.3	3455.2	3421.1	3391.9	3399.7	3357.0	3359.7	3316.4	3335.9	3338.2	3407.1
52.5°	3826.4	3862.3	3887.3	3918.0	3938.0	3941.9	3955.0	3974.6	3998.4	4045.2	4109.0
55°	4033.2	4078.0	4104.0	4127.5	4166.2	4174.3	4196.3	4222.5	4243.1	4296.0	4350.1
57.5°	4278.8	4362.1	4402.6	4439.8	4491.9	4511.7	4548.4	4576.8	4603.8	4666.1	4731.6
60°	4430.4	4531.7	4614.0	4672.9	4738.1	4785.0	4840.2	4884.9	4948.0	5022.8	5120.6
62.5°	4310.0	4458.7	4568.1	4669.0	4757.8	4847.3	4926.8	5009.8	5106.0	5219.1	5370.6
65°	3830.6	3981.9	4169.2	4274.0	4391.4	4529.7	4650.3	4785.0	4915.9	5080.5	5304.9
67.5°	3083.8	3259.8	3470.1	3575.8	3710.8	3865.0	4000.4	4165.0	4317.9	4517.2	4794.7
70°	2222.8	2450.3	2627.3	2737.7	2895.1	3054.1	3184.9	3376.3	3502.9	3707.2	3994.0
72.5°	1407.5	1586.9	1803.6	1942.9	2082.8	2243.8	2377.5	2542.6	2660.6	2846.9	3106.6
75°	756.7	889.1	1079.5	1211.5	1361.6	1499.1	1655.4	1766.2	1853.6	2000.7	2211.6
77.5°	354.7	435.1	531.5	633.1	734.8	840.9	943.8	1033.5	1071.0	1155.3	1279.7
80°	215.2	241.4	269.4	300.8	343.2	377.5	422.9	455.7	458.0	484.6	522.8
82.5°	143.8	153.5	162.0	169.9	180.6	189.3	198.9	210.3	215.0	221.2	233.4
85°	98.2	102.8	104.6	109.6	108.3	111.3	115.2	118.8	120.9	120.6	126.2
87.5°	60.4	62.7	63.8	64.9	64.0	63.1	64.7	66.7	67.4	65.5	66.1
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: P269024

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-7027-1200

**CANDELA DISTRIBUTION (continued):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	536.7	534.1	531.5	529.8	529.2	513.7	507.0	502.5	493.2	485.5	479.4
5°	592.2	586.7	582.2	576.9	573.9	534.8	520.4	510.4	494.1	484.4	475.7
7.5°	681.2	665.6	656.7	646.3	637.5	566.7	542.9	527.5	504.6	491.7	481.8
10°	782.2	766.2	751.7	735.9	722.1	609.1	574.6	550.7	520.4	503.7	490.6
12.5°	895.0	879.1	860.9	840.9	823.1	662.9	615.0	580.8	539.4	517.2	498.6
15°	1028.2	1000.4	978.4	955.0	934.4	727.4	662.1	614.7	559.6	529.6	504.8
17.5°	1152.0	1122.8	1093.0	1072.4	1048.7	799.9	709.7	649.3	576.4	537.4	506.0
20°	1273.1	1241.1	1215.3	1187.7	1162.9	874.8	760.2	679.7	587.2	537.6	498.6
22.5°	1379.6	1359.8	1331.0	1301.1	1276.0	949.8	807.7	705.4	591.3	531.0	485.9
25°	1500.9	1479.8	1444.7	1419.5	1391.4	1026.1	854.3	725.4	588.8	518.3	466.0
27.5°	1630.3	1606.9	1570.9	1544.5	1510.6	1105.5	897.0	739.8	580.1	497.8	439.4
30°	1765.3	1744.0	1708.5	1681.8	1647.6	1189.5	944.7	749.5	562.6	469.5	408.2
32.5°	1910.2	1892.4	1857.2	1829.5	1792.8	1280.7	989.3	752.3	535.8	435.8	375.4
35°	2048.0	2035.6	2006.1	1980.0	1942.0	1366.7	1036.5	750.9	504.3	398.8	345.6
37.5°	2202.9	2195.5	2180.8	2147.8	2101.2	1483.6	1093.0	744.8	465.6	362.2	322.8
40°	2368.0	2368.7	2352.8	2330.3	2286.9	1625.4	1160.3	732.7	423.6	330.0	301.9
42.5°	2542.8	2551.9	2544.3	2528.2	2486.7	1768.3	1240.7	718.0	382.5	298.6	281.3
45°	2743.2	2754.4	2766.1	2742.3	2701.9	1956.9	1346.9	699.1	338.2	272.6	267.3
47.5°	2974.3	2991.9	3002.3	3002.7	2962.3	2190.5	1519.0	687.7	299.0	255.1	260.7
50°	3461.9	3467.4	3492.3	3535.6	3504.6	2731.4	1819.7	680.6	272.4	244.2	255.7
52.5°	4164.5	4225.5	4268.7	4265.7	4223.7	3075.0	1985.6	644.3	256.6	240.1	253.3
55°	4450.6	4527.0	4606.6	4627.7	4594.9	3368.1	2142.3	608.0	248.9	243.1	254.2
57.5°	4831.9	4960.7	5069.9	5115.8	5068.4	3743.2	2348.3	588.8	246.6	250.9	259.8
60°	5277.3	5436.5	5580.1	5662.6	5662.6	4174.3	2562.1	581.1	243.4	262.7	269.1
62.5°	5563.4	5797.4	6014.2	6135.1	6131.6	4474.5	2657.0	554.1	236.1	270.8	282.0
65°	5564.6	5842.8	6119.0	6254.8	6261.8	4437.6	2500.4	489.3	222.6	272.0	295.0
67.5°	5100.7	5397.3	5719.1	5871.1	5906.4	4085.0	2164.5	402.4	200.6	260.4	299.6
70°	4307.9	4597.5	4926.1	5075.5	5137.9	3482.4	1743.4	310.2	172.5	234.5	290.0
72.5°	3393.8	3678.0	3906.6	4016.0	4064.6	2661.8	1269.6	234.3	141.5	197.6	263.8
75°	2402.8	2616.0	2737.7	2761.8	2769.6	1604.6	771.4	174.2	116.6	153.8	222.9
77.5°	1356.3	1447.6	1437.6	1448.4	1358.2	619.4	335.8	124.8	96.1	116.9	172.7
80°	529.6	545.9	512.8	502.5	461.0	230.4	148.2	87.0	76.7	88.5	120.9
82.5°	233.4	241.0	234.0	235.7	225.6	118.8	88.8	63.1	58.6	64.7	80.3
85°	128.5	131.0	130.3	134.1	128.5	47.4	42.2	38.6	41.1	43.9	51.6
87.5°	62.7	63.3	61.3	64.4	62.4	24.1	20.8	22.0	24.1	24.7	24.7
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: P269024

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-7027-1200

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	475.1	472.7	473.0	472.4	471.3	471.3
5°	470.9	468.6	468.6	467.9	466.5	466.8
7.5°	475.1	471.3	469.8	467.7	465.6	465.6
10°	479.6	473.0	468.8	465.3	462.6	462.6
12.5°	483.2	472.7	466.0	461.3	458.7	458.7
15°	484.4	470.6	461.3	455.7	453.4	453.0
17.5°	480.6	462.6	451.3	444.8	442.0	441.1
20°	468.8	448.3	434.6	427.2	423.2	421.8
22.5°	451.3	427.9	411.8	404.1	398.8	397.9
25°	426.6	401.5	385.7	378.4	375.4	374.6
27.5°	397.9	374.6	361.1	356.4	353.8	353.5
30°	370.8	350.9	340.8	337.4	334.2	333.6
32.5°	345.3	332.7	328.9	323.8	316.4	315.5
35°	327.2	325.9	323.3	312.3	302.8	300.2
37.5°	316.1	326.9	313.4	291.4	284.7	284.0
40°	309.6	317.7	294.6	287.0	287.5	287.0
42.5°	295.0	303.4	295.3	291.7	294.0	294.6
45°	280.4	289.7	299.6	297.2	302.8	302.8
47.5°	272.0	286.1	299.2	299.2	307.5	310.5
50°	262.7	283.1	294.6	298.6	305.2	302.8
52.5°	262.1	278.3	287.8	295.3	298.1	295.5
55°	262.9	274.2	281.1	289.3	292.8	293.1
57.5°	264.1	271.7	276.5	280.4	290.8	290.8
60°	267.1	269.8	272.4	274.4	288.1	288.4
62.5°	271.7	267.6	267.1	269.1	286.6	285.5
65°	279.2	264.7	260.4	262.3	285.2	281.7
67.5°	289.1	260.4	251.9	253.3	284.0	276.5
70°	298.1	253.3	241.4	239.8	272.9	259.5
72.5°	299.0	245.1	226.6	222.3	237.2	224.3
75°	284.4	239.6	210.6	197.6	195.9	194.2
77.5°	256.2	236.3	191.8	171.7	168.2	169.3
80°	214.3	224.3	169.3	145.3	164.3	162.2
82.5°	160.2	197.9	143.8	128.5	128.3	113.4
85°	89.0	154.2	117.1	96.4	67.1	64.9
87.5°	25.0	85.8	81.9	54.4	37.2	38.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)