

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: P191348

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191348  
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-10-LED-E1-SLR-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58101.6 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G5

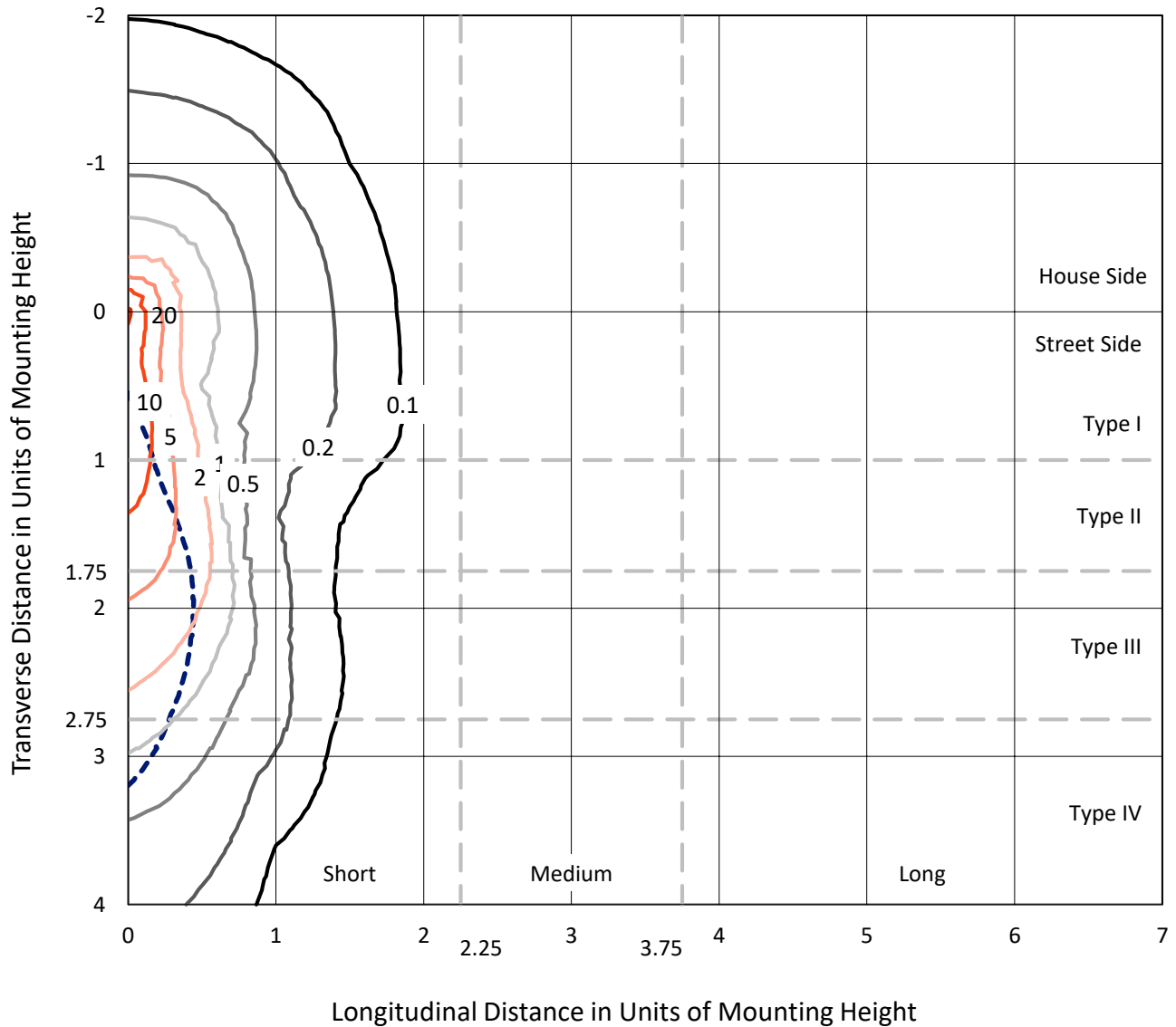
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

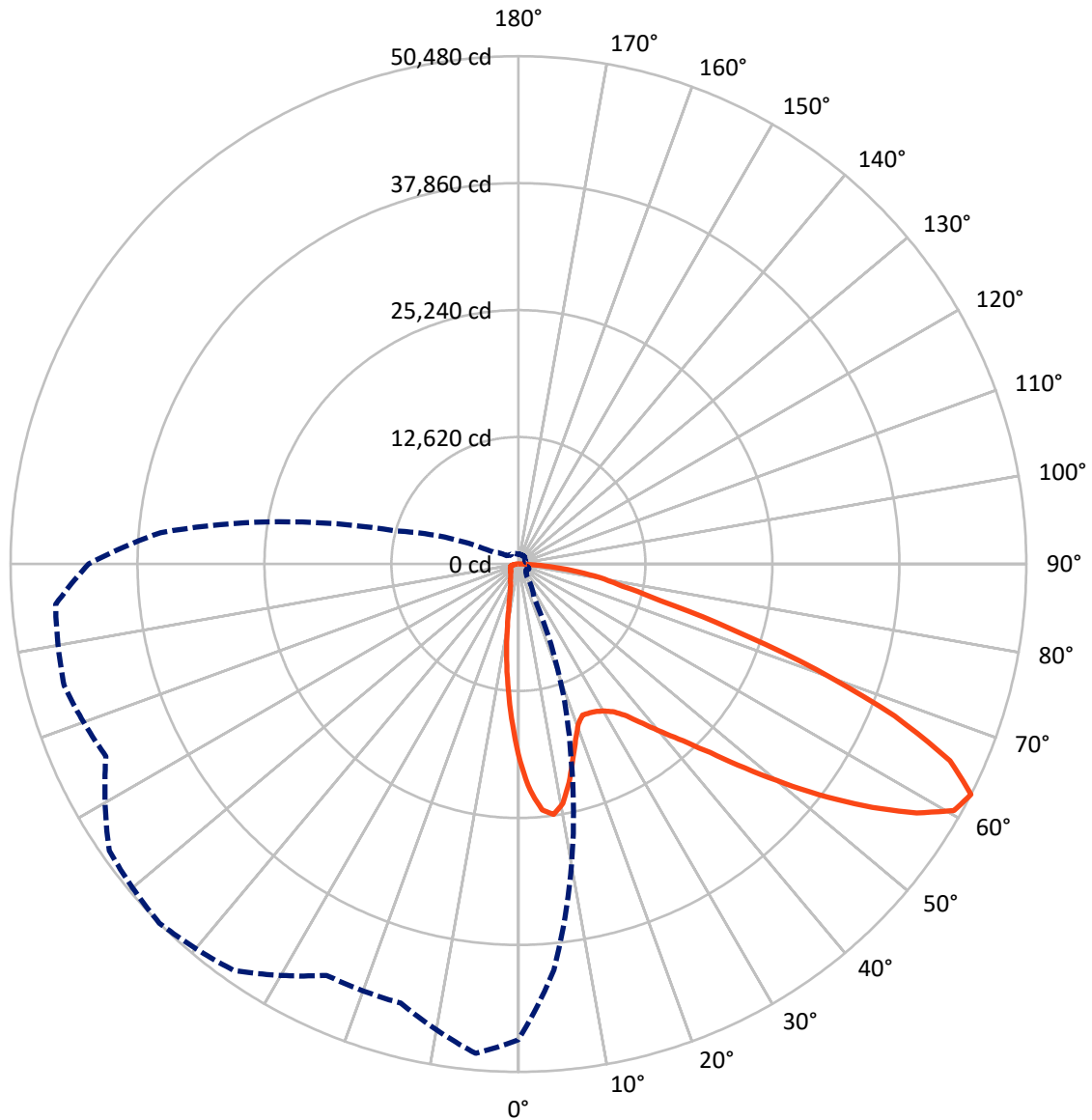
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 21.8 fc  
 Type IV - Short - Non-Cutoff

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CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9615.0	0.0	9615.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	48486.6	0.0	48486.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	58101.6	0.0	58101.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1429.0	2.5
10°-20°	2620.3	4.5
20°-30°	3820.4	6.6
30°-40°	5884.0	10.1
40°-50°	8659.7	14.9
50°-60°	12702.0	21.9
60°-70°	14199.0	24.4
70°-80°	6951.6	12.0
80°-90°	1835.4	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°	58101.6	100.0
0°-180°	58101.6	100.0



REPORT NUMBER: P191348

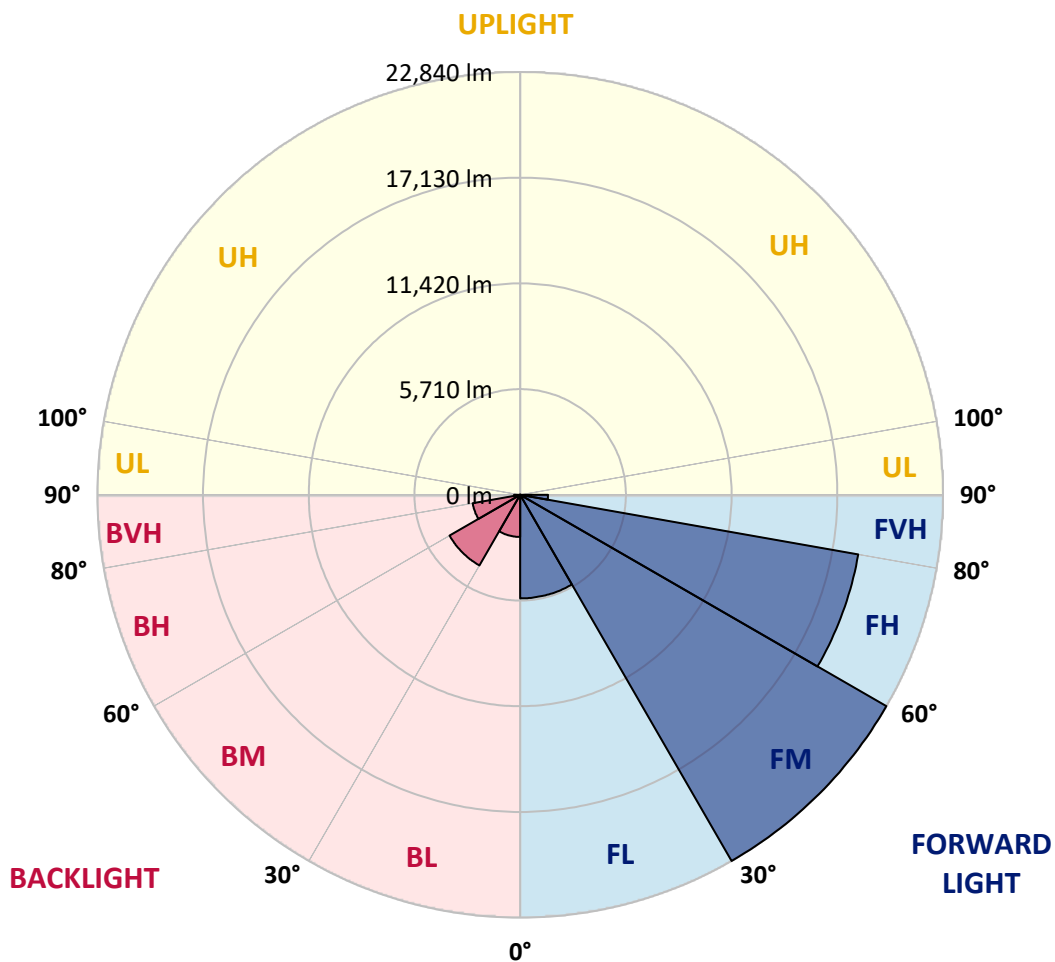
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-1200

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5595.0	9.6			
FM (30°-60°)	22840.2	39.3			
FH (60°-80°)	18544.0	31.9			G5
FVH (80°-90°)	1507.3	2.6			G5
BL (0°-30°)	2274.8	3.9	B3/2500		
BM (30°-60°)	4405.5	7.6	B3/5000		
BH (60°-80°)	2606.6	4.5	B4/5000		G4/5000
BVH (80°-90°)	328.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





REPORT NUMBER: P191348  
 CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8
2.5°	20396.4	19981.2	19291.3	18572.7	18135.1	17624.0	17224.9	16873.5	16170.8	16033.5	16158.0
5°	19179.5	18345.9	17045.9	15736.5	14864.5	13928.7	13200.5	12616.0	11724.9	11568.3	11756.8
7.5°	17228.0	16231.5	14513.2	12842.7	11609.9	10441.0	9655.2	9029.2	8333.0	8032.7	8051.9
10°	15544.9	14420.5	12389.3	10571.9	9562.6	8773.7	8112.5	7470.6	6764.8	6301.6	6173.8
12.5°	14602.6	13309.1	10967.9	9345.4	8409.6	7579.1	6867.0	6180.3	5426.4	4953.7	4819.6
15°	14439.7	13034.4	10434.5	8559.7	7387.5	6336.8	5496.7	4730.2	3954.1	3570.8	3490.9
17.5°	15145.6	13526.3	10262.0	7860.3	6426.2	5129.5	4097.8	3241.8	2609.4	2417.8	2401.8
20°	16499.8	14471.7	10239.7	7202.3	5477.6	3957.3	2855.4	2232.6	1954.7	1900.3	1903.6
22.5°	18400.2	15937.7	10514.4	6707.3	4605.6	2951.2	2146.4	1868.4	1759.9	1708.7	1708.7
25°	20859.5	17956.3	11146.8	6346.3	3848.6	2357.1	1894.0	1727.9	1625.7	1590.6	1596.9
27.5°	23242.2	19920.4	11881.4	6062.1	3353.6	2139.9	1795.0	1644.9	1555.4	1520.3	1536.3
30°	25101.1	21664.4	12494.6	5675.6	3101.3	2079.2	1830.2	1676.8	1549.1	1494.7	1497.9
32.5°	26640.5	23191.0	13008.9	5397.7	2877.8	1782.2	1577.8	1510.7	1494.7	1430.9	1399.0
35°	28607.9	24855.0	13353.8	5404.1	2772.3	1590.6	1405.3	1287.2	1200.9	1127.5	1127.5
37.5°	30914.0	26765.1	13721.0	5477.6	2734.0	1478.8	1344.7	1226.4	1146.6	1076.3	1063.6
40°	33194.4	28636.7	14056.5	5547.9	2711.6	1411.7	1296.7	1188.2	1114.7	1044.4	1025.2
42.5°	35133.1	30176.1	14356.7	5583.0	2635.0	1405.3	1261.6	1162.6	1092.3	1015.7	996.5
45°	36567.2	31466.5	14679.2	5637.3	2558.3	1430.9	1261.6	1159.4	1073.2	999.7	980.5
47.5°	37848.0	32980.4	15219.1	5637.3	2465.7	1382.9	1303.1	1162.6	1070.0	993.3	977.3
50°	39563.1	35056.5	16241.1	5506.3	2334.8	1331.9	1373.4	1149.8	1041.3	980.5	961.4
52.5°	41926.6	37717.0	17863.6	5279.6	2133.6	1232.9	1363.8	1143.5	1012.5	948.6	926.3
55°	44721.3	40566.0	19633.0	5014.5	1833.3	1162.6	1315.9	1127.5	980.5	910.2	887.9
57.5°	46902.7	42527.0	20878.6	4605.6	1571.5	1124.2	1165.8	1111.4	942.2	868.8	849.6
60°	47771.5	42450.4	21220.4	4059.5	1443.7	1092.3	1018.9	1245.6	910.2	836.8	814.5
62.5°	47302.0	40489.3	20262.2	3676.2	1414.9	1050.8	955.0	1153.0	884.8	814.5	782.6
65°	45133.3	37014.4	17723.0	3574.0	1497.9	1009.2	913.5	903.9	849.6	782.6	750.5
67.5°	40409.5	31821.0	14190.6	3583.6	1603.4	967.7	872.0	827.3	801.7	747.4	718.6
70°	32913.3	25158.6	10578.2	3609.2	1657.7	919.8	827.3	779.3	750.5	696.3	677.1
72.5°	24200.4	19390.3	7684.6	3443.0	1667.2	865.5	766.5	725.1	696.3	638.8	622.8
75°	16557.3	14832.6	5330.7	2852.2	1453.2	788.9	699.5	661.1	642.0	571.7	562.1
77.5°	12095.4	11134.0	3411.1	2117.6	1121.1	693.0	616.4	587.7	574.9	498.3	485.5
80°	9706.4	8808.8	2133.6	1450.0	820.8	581.3	517.4	501.5	488.7	412.0	402.4
82.5°	6732.8	5899.2	1370.2	942.2	616.4	450.3	408.8	402.4	383.3	313.0	303.4
85°	3551.7	3203.5	868.8	642.0	447.1	309.9	284.3	284.3	274.7	207.6	201.2
87.5°	453.6	737.8	440.8	335.3	245.9	137.4	137.4	134.1	143.7	118.2	102.2
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: P191348

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-1200

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8
2.5°	15864.2	16017.5	15870.6	15880.2	16043.0	16528.5	16748.9	16931.0	17125.8	17253.6	17311.1
5°	11498.1	11855.8	11977.2	12232.8	12609.6	13229.2	13475.1	13654.0	13772.2	13842.5	13871.2
7.5°	7863.4	8080.6	8323.3	8735.4	9556.2	9920.3	10083.2	10041.7	9907.6	9859.6	9811.7
10°	5927.9	5841.7	5797.0	6023.7	6688.1	7055.4	7170.4	7058.6	6985.1	7001.1	7081.0
12.5°	4592.8	4442.8	4260.7	4235.1	4672.7	5001.7	5075.2	5081.5	5215.7	5333.9	5509.5
15°	3347.2	3331.2	3241.8	3187.5	3436.7	3704.9	3736.8	3794.3	3915.8	4002.0	4155.3
17.5°	2360.4	2446.6	2516.8	2552.0	2740.4	2932.0	2896.9	2868.1	2845.7	2845.7	2919.2
20°	1903.6	1961.1	2050.5	2152.7	2344.3	2478.5	2392.3	2277.3	2194.2	2168.7	2178.3
22.5°	1715.2	1759.9	1810.9	1900.3	2072.8	2165.5	2072.8	1989.8	1906.8	1878.0	1868.4
25°	1619.3	1676.8	1724.7	1791.8	1919.6	1983.4	1894.0	1833.3	1782.2	1747.1	1721.5
27.5°	1565.0	1616.2	1628.9	1660.9	1769.4	1826.9	1782.2	1756.6	1724.7	1692.8	1660.9
30°	1507.5	1497.9	1475.6	1478.8	1565.0	1622.5	1619.3	1625.7	1622.5	1612.9	1606.5
32.5°	1376.6	1357.5	1338.2	1357.5	1437.2	1488.4	1491.6	1504.4	1504.4	1501.2	1526.7
35°	1146.6	1181.7	1204.1	1261.6	1357.5	1402.2	1382.9	1351.0	1293.5	1258.4	1255.2
37.5°	1060.4	1066.7	1105.1	1185.0	1290.4	1331.9	1303.1	1229.7	1191.3	1185.0	1194.5
40°	1018.9	1025.2	1047.6	1121.1	1226.4	1267.9	1242.5	1188.2	1153.0	1149.8	1165.8
42.5°	990.1	996.5	1009.2	1060.4	1146.6	1197.7	1200.9	1162.6	1121.1	1124.2	1140.2
45°	974.2	977.3	974.2	999.7	1079.5	1140.2	1165.8	1140.2	1105.1	1111.4	1130.7
47.5°	971.0	961.4	948.6	955.0	1038.0	1098.8	1130.7	1121.1	1105.1	1111.4	1127.5
50°	958.2	935.8	919.8	916.7	999.7	1063.6	1092.3	1092.3	1098.8	1111.4	1127.5
52.5°	919.8	894.3	894.3	884.8	974.2	1034.8	1053.9	1057.2	1066.7	1089.1	1111.4
55°	872.0	862.3	872.0	856.0	955.0	1012.5	1022.0	1028.5	1034.8	1053.9	1086.0
57.5°	830.4	817.6	840.0	833.6	939.0	990.1	990.1	1002.9	1002.9	1028.5	1053.9
60°	808.0	782.6	792.1	798.5	916.7	971.0	964.5	977.3	983.8	1006.1	1025.2
62.5°	779.3	757.0	757.0	772.9	891.1	942.2	939.0	948.6	974.2	980.5	999.7
65°	744.2	734.6	725.1	744.2	865.5	910.2	913.5	926.3	948.6	955.0	971.0
67.5°	709.0	712.3	693.0	712.3	843.2	878.3	878.3	903.9	913.5	926.3	942.2
70°	670.7	673.9	658.0	680.3	827.3	843.2	840.0	875.1	881.5	891.1	907.1
72.5°	622.8	622.8	616.4	648.3	801.7	808.0	801.7	830.4	833.6	843.2	849.6
75°	571.7	571.7	565.3	610.1	785.7	769.8	750.5	772.9	779.3	785.7	785.7
77.5°	504.6	511.1	511.1	565.3	731.4	753.8	689.9	702.7	712.3	715.5	705.8
80°	421.6	437.5	444.0	514.2	613.3	696.3	616.4	626.0	629.2	629.2	616.4
82.5°	322.5	351.3	367.3	444.0	469.5	584.5	536.5	546.2	536.5	517.4	511.1
85°	223.6	261.9	281.1	338.6	354.6	450.3	447.1	447.1	428.0	402.4	399.3
87.5°	121.3	143.7	156.5	201.2	242.7	303.4	329.0	319.4	303.4	287.4	290.6
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: P191348  
 CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-1200

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8
2.5°	17611.3	18045.7	18738.7	19268.9	19802.3	20316.5	20872.3	21297.0	21658.0	21798.5	22226.5
5°	14161.8	14704.8	15359.6	16541.3	17378.1	18301.2	19367.9	20779.6	21322.6	22073.2	23302.8
7.5°	10012.9	10504.8	11558.8	12513.8	13698.7	15005.1	16445.5	18393.8	19106.1	20310.2	22312.7
10°	7477.0	8048.7	8895.1	9699.9	10744.4	12079.4	13733.8	15912.1	16777.6	18083.9	20390.0
12.5°	6023.7	6697.7	7595.1	8352.1	9160.1	10102.4	11708.9	14098.0	15257.3	16400.8	18732.4
15°	4628.0	5333.9	6167.5	7128.8	8019.9	9035.6	10718.8	13331.4	14666.5	15857.8	17847.6
17.5°	3203.5	3807.1	4858.0	5860.9	7001.1	8301.0	10444.1	13494.4	15088.1	16461.4	18001.0
20°	2270.8	2615.8	3478.1	4640.7	6062.1	7694.1	10393.0	14350.3	16423.2	17991.4	18984.6
22.5°	1910.0	2037.7	2539.2	3605.9	5247.6	7240.7	10571.9	15551.2	18224.5	20227.1	20552.9
25°	1740.7	1817.4	2079.2	2829.8	4522.6	6911.7	11175.5	17339.8	20453.9	22462.9	22405.4
27.5°	1648.1	1727.9	1900.3	2389.1	3976.4	6707.3	11779.2	19460.5	23002.6	24890.2	24174.8
30°	1619.3	1727.9	1910.0	2251.7	3586.8	6384.6	12274.3	21322.6	24963.7	26528.7	24979.6
32.5°	1596.9	1612.9	1696.0	1941.9	3216.3	6007.8	12609.6	22993.1	26883.2	28087.4	26139.1
35°	1290.4	1370.2	1504.4	1740.7	2999.1	5781.0	12609.6	24433.5	28774.1	29661.9	27244.1
37.5°	1242.5	1312.7	1430.9	1632.1	2877.8	5669.2	12357.2	25822.9	30706.3	31447.3	28154.4
40°	1216.9	1274.4	1386.2	1549.1	2826.6	5541.4	11990.0	27049.3	32594.0	33236.0	29004.0
42.5°	1197.7	1248.8	1354.2	1497.9	2759.5	5400.9	11692.9	28033.0	34232.4	34762.6	29815.2
45°	1188.2	1242.5	1357.5	1523.5	2625.4	5215.7	11593.9	29096.6	35580.3	36037.0	30693.5
47.5°	1188.2	1252.0	1373.4	1577.8	2465.7	5024.0	11903.8	30498.8	36854.7	37078.2	31728.5
50°	1178.5	1248.8	1418.1	1523.5	2232.6	4781.3	12631.9	32265.0	38234.4	38260.0	33037.9
52.5°	1159.4	1242.5	1526.7	1491.6	1964.3	4461.9	13615.7	34532.7	40275.3	40428.7	35088.4
55°	1137.0	1232.9	1497.9	1418.1	1743.9	4081.9	14420.5	37289.0	43143.5	43568.3	38103.5
57.5°	1108.3	1220.1	1450.0	1315.9	1600.2	3593.1	14711.2	39307.6	45146.1	46212.8	41501.8
60°	1082.7	1210.5	1309.5	1255.2	1510.7	3181.2	14149.0	38908.3	45008.7	47308.3	44513.7
62.5°	1057.2	1220.1	1194.5	1216.9	1469.2	2916.0	12679.9	35711.2	42731.4	46177.7	46746.2
65°	1028.5	1133.8	1127.5	1185.0	1459.6	2810.7	10511.2	30917.2	38330.3	42603.8	47273.2
67.5°	990.1	1047.6	1079.5	1143.5	1491.6	2718.0	8483.0	25503.5	32213.8	37247.5	44526.5
70°	948.6	996.5	1031.6	1092.3	1472.4	2676.6	7055.4	20112.1	25561.0	30527.5	39106.4
72.5°	894.3	935.8	967.7	1025.2	1453.2	2654.1	5959.8	16196.4	19083.7	22676.9	31795.5
75°	830.4	868.8	891.1	948.6	1392.5	2430.5	4685.5	13705.1	14280.0	15774.8	25324.6
77.5°	757.0	785.7	804.9	868.8	1232.9	2021.8	3388.7	10571.9	11089.3	11453.4	19415.8
80°	670.7	699.5	709.0	769.8	1022.0	1581.0	2210.2	7809.1	8294.6	8377.7	12679.9
82.5°	571.7	600.5	600.5	658.0	836.8	1137.0	1450.0	5349.8	5445.7	5726.7	8962.2
85°	459.9	482.3	482.3	511.1	648.3	849.6	996.5	2686.1	2657.3	3034.2	7764.4
87.5°	329.0	344.9	360.9	367.3	463.1	562.1	600.5	817.6	539.8	619.6	4985.8
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: P191348  
 CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-1200

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8	19629.8
2.5°	22549.1	22731.1	22545.8	22411.7	21833.7	21357.8	20722.1	20396.4
5°	24238.6	24701.8	24545.3	23983.2	22775.9	21418.4	19875.7	19179.5
7.5°	24034.2	25110.6	25136.2	24085.4	22306.4	20306.9	18218.1	17228.0
10°	22443.6	23820.2	24213.1	23194.3	21306.6	19070.9	16675.4	15544.9
12.5°	20667.9	22015.7	22315.9	21964.6	20386.8	18141.4	15710.9	14602.6
15°	19214.6	19818.2	20176.0	20482.6	19597.9	17771.0	15656.6	14439.7
17.5°	18329.9	18262.8	18365.0	18898.4	19048.6	18195.7	16487.0	15145.6
20°	18010.5	16985.3	16959.7	17694.3	18789.9	19208.3	18109.5	16499.8
22.5°	18186.2	16525.4	16314.5	17186.5	18927.1	20667.9	20236.7	18400.2
25°	18793.0	16563.7	16394.4	17237.5	19425.4	22223.3	22533.2	20859.5
27.5°	19748.0	16806.4	16582.9	17448.4	20086.6	23529.6	24794.4	23242.2
30°	20655.1	17228.0	16950.1	17863.6	20690.2	24047.0	26180.6	25101.1
32.5°	21757.0	18016.9	17528.3	18626.9	21437.6	24871.1	27416.6	26640.5
35°	22836.6	19141.1	18534.3	19805.5	22271.2	25896.3	28828.3	28607.9
37.5°	24021.4	20610.4	20109.0	21329.0	23411.5	26864.0	30629.7	30914.0
40°	25286.3	22558.6	21964.6	23552.0	25180.9	28077.7	32510.9	33194.4
42.5°	26560.6	24720.9	24011.9	25621.6	27126.0	29275.5	34120.6	35133.1
45°	28020.3	27068.5	26733.1	28473.8	28994.4	30415.7	35308.8	36567.2
47.5°	29719.5	29732.2	30272.0	30968.3	30878.8	31706.1	36503.3	37848.0
50°	31702.9	33057.1	34248.4	34711.5	32820.8	33092.3	38161.0	39563.1
52.5°	34085.5	37033.5	38509.1	38205.7	34912.7	34785.0	40786.4	41926.6
55°	37065.5	41243.1	42709.1	42491.9	37317.8	37091.0	44057.0	44721.3
57.5°	40514.9	45321.7	46669.6	45692.2	40205.0	39620.6	46762.2	46902.7
60°	43545.9	48554.0	49735.8	48653.0	43117.9	42313.0	48451.8	47771.5
62.5°	45232.3	49649.5	50480.0	49314.1	45114.2	45181.2	48822.3	47302.0
65°	44478.5	46880.4	47148.6	47052.9	44599.9	46845.2	47490.4	45133.3
67.5°	40352.0	39879.3	40329.6	40952.4	40192.2	44654.2	43801.4	40409.5
70°	33082.6	30486.0	31383.4	31801.9	32146.8	38426.0	38017.3	32913.3
72.5°	24931.8	21357.8	22066.8	21980.6	23577.5	30821.3	29566.1	24200.4
75°	17665.5	14481.2	14570.7	14535.5	16451.9	24114.1	21408.8	16557.3
77.5°	12360.5	10492.0	10540.0	10737.9	11060.6	18186.2	15295.7	12095.4
80°	8499.0	7962.4	8227.5	8243.6	7665.4	12216.8	11300.1	9706.4
82.5°	6330.3	5535.1	5471.2	5563.8	6007.8	9898.0	8684.2	6732.8
85°	5183.7	3276.9	2635.0	3302.5	5324.3	9802.1	5768.2	3551.7
87.5°	2919.2	1555.4	702.7	1303.1	2124.0	6490.0	1667.2	453.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)