

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: P191346

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191346
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-08-LED-E1-SLR-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 47045.5 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

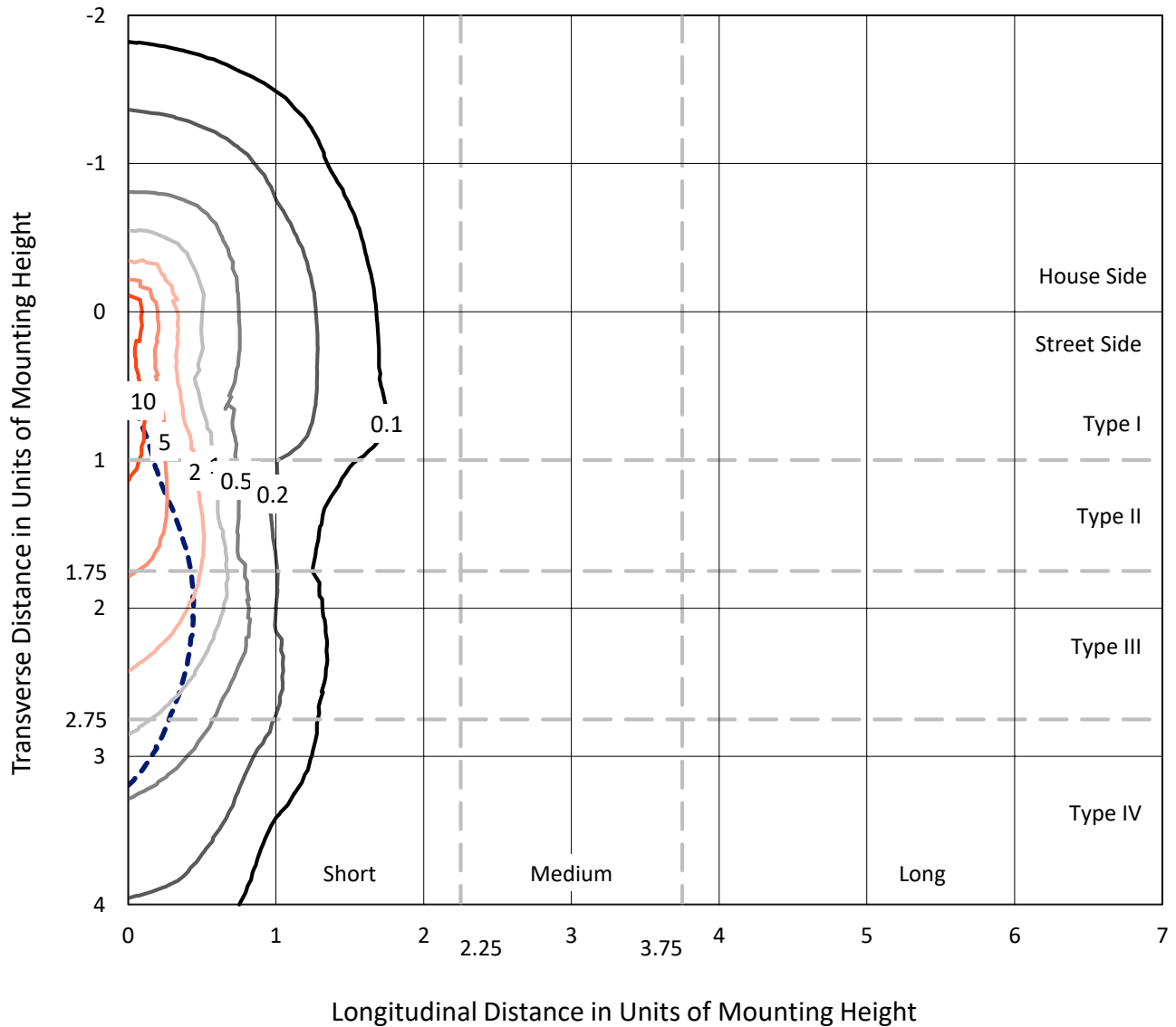
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191346
 CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-1200

Iso-Footcandle Lines of Horizontal Illumination

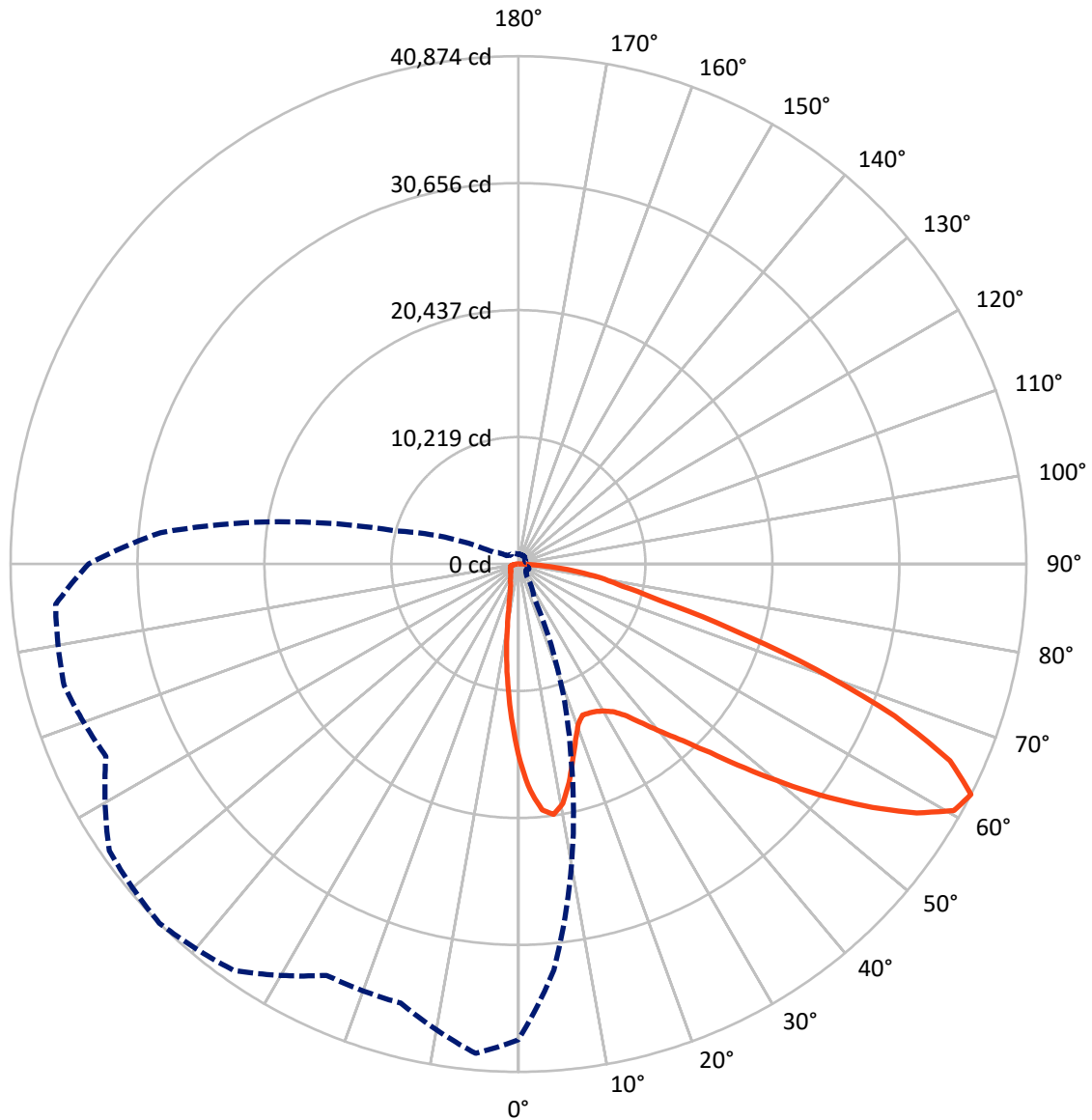
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191346
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191346

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7785.4	0.0	7785.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	39260.1	0.0	39260.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	47045.5	0.0	47045.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1157.1	2.5
10°-20°	2121.7	4.5
20°-30°	3093.5	6.6
30°-40°	4764.4	10.1
40°-50°	7011.9	14.9
50°-60°	10285.0	21.9
60°-70°	11497.1	24.4
70°-80°	5628.8	12.0
80°-90°	1486.2	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°	47045.5	100.0
0°-180°	47045.5	100.0



REPORT NUMBER: P191346

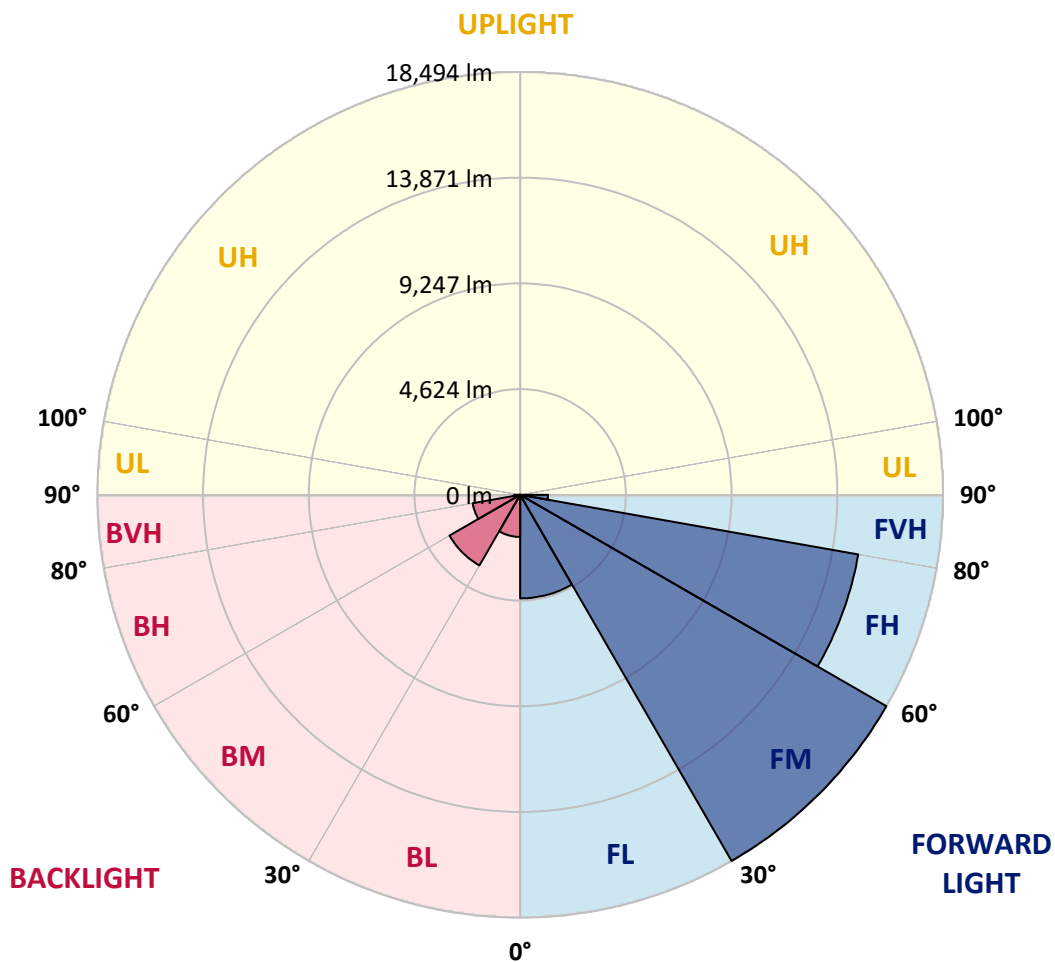
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4530.3	9.6			
FM	(30°-60°)	18494.0	39.3			
FH	(60°-80°)	15015.3	31.9			G5
FVH	(80°-90°)	1220.5	2.6			G5
BL	(0°-30°)	1841.9	3.9	B3/2500		
BM	(30°-60°)	3567.2	7.6	B3/5000		
BH	(60°-80°)	2110.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	265.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P191346

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5
2.5°	16515.2	16179.0	15620.4	15038.5	14684.2	14270.4	13947.1	13662.6	13093.7	12982.5	13083.3
5°	15529.8	14854.9	13802.3	12742.0	12035.9	11278.2	10688.6	10215.3	9493.8	9367.1	9519.7
7.5°	13949.7	13142.9	11751.5	10398.9	9400.7	8454.2	7817.9	7311.0	6747.3	6504.2	6519.7
10°	12586.8	11676.5	10031.7	8560.2	7742.9	7104.2	6568.9	6049.0	5477.5	5102.5	4999.1
12.5°	11823.9	10776.5	8880.8	7567.1	6809.4	6137.0	5560.2	5004.2	4393.9	4011.1	3902.6
15°	11692.0	10554.1	8449.0	6930.9	5981.8	5130.9	4450.8	3830.1	3201.6	2891.4	2826.6
17.5°	12263.5	10952.3	8309.3	6364.5	5203.3	4153.4	3318.0	2625.0	2112.9	1957.7	1944.8
20°	13360.0	11717.9	8291.2	5831.7	4435.2	3204.3	2312.1	1807.8	1582.7	1538.7	1541.4
22.5°	14898.9	12904.9	8513.6	5430.9	3729.3	2389.6	1737.9	1512.9	1425.0	1383.6	1383.6
25°	16890.1	14539.4	9025.7	5138.7	3116.3	1908.6	1533.6	1399.1	1316.3	1287.9	1293.1
27.5°	18819.4	16129.9	9620.5	4908.5	2715.4	1732.7	1453.4	1331.9	1259.5	1231.0	1243.9
30°	20324.6	17541.9	10117.1	4595.6	2511.1	1683.6	1481.8	1357.8	1254.2	1210.4	1212.9
32.5°	21571.1	18778.1	10533.4	4370.6	2330.1	1443.1	1277.6	1223.2	1210.4	1158.6	1132.7
35°	23164.2	20125.4	10812.7	4375.8	2244.8	1287.9	1137.9	1042.2	972.4	912.9	912.9
37.5°	25031.4	21671.9	11110.2	4435.2	2213.8	1197.4	1088.7	993.1	928.4	871.6	861.2
40°	26877.9	23187.4	11381.7	4492.2	2195.7	1143.0	1050.0	962.1	902.5	845.7	830.1
42.5°	28447.8	24434.0	11624.8	4520.6	2133.6	1137.9	1021.5	941.3	884.4	822.4	806.9
45°	29608.9	25478.8	11886.0	4564.6	2071.5	1158.6	1021.5	938.8	869.0	809.5	793.9
47.5°	30646.0	26704.6	12323.0	4564.6	1996.5	1119.8	1055.2	941.3	866.3	804.2	791.4
50°	32034.7	28385.7	13150.6	4458.5	1890.5	1078.4	1112.0	931.0	843.1	793.9	778.5
52.5°	33948.5	30539.9	14464.3	4274.9	1727.6	998.3	1104.3	925.9	819.8	768.1	750.0
55°	36211.3	32846.7	15897.1	4060.3	1484.4	941.3	1065.5	912.9	793.9	737.0	718.9
57.5°	37977.7	34434.7	16905.7	3729.3	1272.3	910.3	944.0	900.0	762.9	703.5	687.9
60°	38681.1	34372.6	17182.4	3287.0	1168.9	884.4	825.0	1008.6	737.0	677.6	659.5
62.5°	38300.9	32784.7	16406.6	2976.7	1145.7	850.9	773.2	933.6	716.4	659.5	633.6
65°	36544.9	29970.9	14350.6	2893.9	1212.9	817.2	739.6	731.9	687.9	633.6	607.7
67.5°	32720.0	25765.9	11490.3	2901.7	1298.2	783.6	706.0	669.8	649.2	605.2	581.9
70°	26650.3	20371.1	8565.4	2922.4	1342.2	744.8	669.8	631.1	607.7	563.7	548.3
72.5°	19595.3	15700.6	6222.3	2787.8	1350.0	700.8	620.7	587.1	563.7	517.2	504.3
75°	13406.6	12010.1	4316.3	2309.4	1176.7	638.7	566.4	535.3	519.9	462.9	455.2
77.5°	9793.7	9015.4	2762.0	1714.7	907.8	561.2	499.1	475.9	465.5	403.5	393.1
80°	7859.3	7132.6	1727.6	1174.1	664.6	470.7	419.0	406.0	395.7	333.6	325.8
82.5°	5451.6	4776.7	1109.5	762.9	499.1	364.7	331.0	325.8	310.4	253.5	245.7
85°	2875.8	2593.9	703.5	519.9	362.0	250.8	230.2	230.2	222.4	168.1	163.0
87.5°	367.2	597.4	356.9	271.6	199.2	111.2	111.2	108.6	116.4	95.6	82.8
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: P191346

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5
2.5°	12845.4	12969.6	12850.6	12858.4	12990.2	13383.4	13561.8	13709.2	13866.9	13970.4	14017.0
5°	9310.2	9599.8	9698.1	9904.9	10210.2	10711.8	10911.0	11055.8	11151.5	11208.4	11231.7
7.5°	6367.2	6543.0	6739.5	7073.1	7737.8	8032.6	8164.5	8130.8	8022.3	7983.4	7944.6
10°	4799.9	4730.1	4693.9	4877.5	5415.4	5712.8	5806.0	5715.4	5655.9	5668.9	5733.5
12.5°	3718.9	3597.3	3449.9	3429.2	3783.6	4050.0	4109.4	4114.6	4223.2	4318.9	4461.1
15°	2710.3	2697.3	2625.0	2581.0	2782.7	2999.9	3025.8	3072.3	3170.6	3240.4	3364.6
17.5°	1911.2	1980.9	2037.9	2066.4	2218.9	2374.1	2345.6	2322.4	2304.3	2304.3	2363.7
20°	1541.4	1587.9	1660.4	1743.1	1898.2	2006.8	1937.1	1844.0	1776.7	1756.0	1763.8
22.5°	1388.8	1425.0	1466.4	1538.7	1678.5	1753.4	1678.5	1611.1	1543.9	1520.6	1512.9
25°	1311.2	1357.8	1396.5	1450.9	1554.3	1606.0	1533.6	1484.4	1443.1	1414.6	1394.0
27.5°	1267.2	1308.6	1318.9	1344.8	1432.7	1479.3	1443.1	1422.4	1396.5	1370.7	1344.8
30°	1220.7	1212.9	1194.8	1197.4	1267.2	1313.8	1311.2	1316.3	1313.8	1306.0	1300.9
32.5°	1114.6	1099.2	1083.6	1099.2	1163.8	1205.1	1207.7	1218.1	1218.1	1215.5	1236.1
35°	928.4	956.9	975.0	1021.5	1099.2	1135.3	1119.8	1093.9	1047.4	1019.0	1016.4
37.5°	858.6	863.8	894.8	959.4	1044.8	1078.4	1055.2	995.6	964.6	959.4	967.2
40°	825.0	830.1	848.2	907.8	993.1	1026.7	1006.0	962.1	933.6	931.0	944.0
42.5°	801.7	806.9	817.2	858.6	928.4	969.8	972.4	941.3	907.8	910.3	923.2
45°	788.8	791.4	788.8	809.5	874.1	923.2	944.0	923.2	894.8	900.0	915.5
47.5°	786.2	778.5	768.1	773.2	840.5	889.7	915.5	907.8	894.8	900.0	912.9
50°	775.8	757.7	744.8	742.3	809.5	861.2	884.4	884.4	889.7	900.0	912.9
52.5°	744.8	724.1	724.1	716.4	788.8	837.9	853.4	856.0	863.8	881.9	900.0
55°	706.0	698.3	706.0	693.0	773.2	819.8	827.6	832.8	837.9	853.4	879.3
57.5°	672.4	662.1	680.2	674.9	760.4	801.7	801.7	812.0	812.0	832.8	853.4
60°	654.3	633.6	641.4	646.5	742.3	786.2	781.0	791.4	796.6	814.7	830.1
62.5°	631.1	613.0	613.0	625.8	721.5	762.9	760.4	768.1	788.8	793.9	809.5
65°	602.6	594.8	587.1	602.6	700.8	737.0	739.6	750.0	768.1	773.2	786.2
67.5°	574.1	576.7	561.2	576.7	682.7	711.2	711.2	731.9	739.6	750.0	762.9
70°	543.1	545.6	532.8	550.9	669.8	682.7	680.2	708.6	713.8	721.5	734.5
72.5°	504.3	504.3	499.1	525.0	649.2	654.3	649.2	672.4	674.9	682.7	687.9
75°	462.9	462.9	457.8	494.0	636.2	623.3	607.7	625.8	631.1	636.2	636.2
77.5°	408.6	413.8	413.8	457.8	592.2	610.3	558.6	569.0	576.7	579.3	571.5
80°	341.4	354.4	359.5	416.3	496.5	563.7	499.1	506.9	509.4	509.4	499.1
82.5°	261.2	284.5	297.4	359.5	380.1	473.2	434.4	442.2	434.4	419.0	413.8
85°	181.1	212.1	227.6	274.2	287.0	364.7	362.0	362.0	346.6	325.8	323.3
87.5°	98.3	116.4	126.7	163.0	196.5	245.7	266.4	258.6	245.7	232.7	235.4
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: P191346
 CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5
2.5°	14260.0	14611.7	15173.0	15602.3	16034.1	16450.5	16900.5	17244.5	17536.8	17650.5	17997.1
5°	11467.0	11906.6	12436.8	13393.7	14071.3	14818.7	15682.4	16825.5	17265.2	17872.9	18868.6
7.5°	8107.6	8505.8	9359.3	10132.5	11092.1	12149.8	13316.2	14893.7	15470.4	16445.4	18066.8
10°	6054.2	6517.1	7202.4	7854.1	8699.8	9780.8	11120.5	12884.3	13585.1	14642.8	16510.0
12.5°	4877.5	5423.2	6149.9	6762.8	7417.1	8180.0	9480.8	11415.3	12354.1	13279.9	15167.8
15°	3747.4	4318.9	4993.8	5772.3	6493.8	7316.2	8679.1	10794.6	11875.6	12840.3	14451.4
17.5°	2593.9	3082.7	3933.6	4745.6	5668.9	6721.4	8456.7	10926.5	12217.0	13329.0	14575.6
20°	1838.8	2118.0	2816.3	3757.7	4908.5	6230.1	8415.3	11619.6	13298.1	14567.8	15372.1
22.5°	1546.5	1649.9	2056.0	2919.8	4249.0	5862.8	8560.2	12592.0	14756.6	16378.2	16641.9
25°	1409.4	1471.5	1683.6	2291.3	3662.0	5596.5	9048.9	14040.2	16561.8	18188.5	18141.8
27.5°	1334.4	1399.1	1538.7	1934.4	3219.7	5430.9	9537.8	15757.4	18625.5	20153.9	19574.6
30°	1311.2	1399.1	1546.5	1823.2	2904.3	5169.7	9938.6	17265.2	20213.4	21480.6	20226.3
32.5°	1293.1	1306.0	1373.2	1572.4	2604.2	4864.5	10210.2	18617.7	21767.7	22742.7	21165.1
35°	1044.8	1109.5	1218.1	1409.4	2428.4	4680.9	10210.2	19784.1	23298.6	24017.7	22059.9
37.5°	1006.0	1062.9	1158.6	1321.6	2330.1	4590.4	10005.8	20909.0	24863.3	25463.3	22797.0
40°	985.3	1031.9	1122.4	1254.2	2288.8	4487.0	9708.4	21902.2	26391.7	26911.5	23484.9
42.5°	969.8	1011.2	1096.5	1212.9	2234.4	4373.2	9467.9	22698.7	27718.4	28147.7	24141.7
45°	962.1	1006.0	1099.2	1233.6	2125.8	4223.2	9387.7	23559.9	28809.8	29179.6	24852.9
47.5°	962.1	1013.7	1112.0	1277.6	1996.5	4068.1	9638.5	24695.2	29841.6	30022.7	25690.9
50°	954.3	1011.2	1148.3	1233.6	1807.8	3871.5	10228.3	26125.3	30958.9	30979.6	26751.2
52.5°	938.8	1006.0	1236.1	1207.7	1590.5	3612.9	11024.8	27961.5	32611.4	32735.6	28411.5
55°	920.7	998.3	1212.9	1148.3	1412.1	3305.2	11676.5	30193.3	34933.8	35277.7	30852.8
57.5°	897.4	987.9	1174.1	1065.5	1295.7	2909.4	11911.9	31827.8	36555.2	37419.0	33604.4
60°	876.7	980.2	1060.3	1016.4	1223.2	2575.8	11456.6	31504.5	36444.1	38306.1	36043.3
62.5°	856.0	987.9	967.2	985.3	1189.6	2361.2	10267.1	28915.8	34600.2	37390.6	37850.9
65°	832.8	918.1	912.9	959.4	1181.9	2275.9	8511.1	25034.0	31036.4	34496.8	38277.7
67.5°	801.7	848.2	874.1	925.9	1207.7	2200.8	6868.8	20650.4	26083.9	30159.8	36053.6
70°	768.1	806.9	835.3	884.4	1192.2	2167.2	5712.8	16285.0	20697.0	24718.5	31664.8
72.5°	724.1	757.7	783.6	830.1	1176.7	2149.1	4825.8	13114.4	15452.3	18361.7	25745.2
75°	672.4	703.5	721.5	768.1	1127.6	1968.1	3793.9	11097.2	11562.7	12773.0	20505.7
77.5°	613.0	636.2	651.7	703.5	998.3	1637.0	2743.9	8560.2	8979.2	9274.0	15721.2
80°	543.1	566.4	574.1	623.3	827.6	1280.1	1789.7	6323.2	6716.3	6783.5	10267.1
82.5°	462.9	486.2	486.2	532.8	677.6	920.7	1174.1	4331.8	4409.4	4636.9	7256.7
85°	372.5	390.5	390.5	413.8	525.0	687.9	806.9	2175.0	2151.7	2456.8	6287.0
87.5°	266.4	279.3	292.3	297.4	375.0	455.2	486.2	662.1	437.1	501.8	4037.0
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: P191346

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5	15894.5
2.5°	18258.2	18405.6	18255.7	18147.0	17678.9	17293.6	16779.0	16515.2
5°	19626.3	20001.3	19874.6	19419.4	18441.9	17342.8	16093.7	15529.8
7.5°	19460.8	20332.4	20353.0	19502.1	18061.7	16442.8	14751.5	13949.7
10°	18172.9	19287.5	19605.7	18780.7	17252.3	15442.0	13502.3	12586.8
12.5°	16735.0	17826.4	18069.5	17785.0	16507.5	14689.4	12721.3	11823.9
15°	15558.3	16047.1	16336.7	16585.0	15868.6	14389.3	12677.3	11692.0
17.5°	14841.9	14787.7	14870.4	15302.3	15423.8	14733.4	13349.7	12263.5
20°	14583.3	13753.2	13732.5	14327.3	15214.3	15553.1	14663.5	13360.0
22.5°	14725.6	13380.8	13210.1	13916.1	15325.5	16735.0	16385.8	14898.9
25°	15216.9	13411.8	13274.7	13957.4	15729.0	17994.4	18245.4	16890.1
27.5°	15990.2	13608.3	13427.4	14128.2	16264.3	19052.2	20076.3	18819.4
30°	16724.6	13949.7	13724.7	14464.3	16753.1	19471.2	21198.7	20324.6
32.5°	17616.8	14588.5	14192.8	15082.5	17358.2	20138.4	22199.6	21571.1
35°	18491.0	15498.8	15007.5	16036.7	18033.3	20968.5	23342.6	23164.2
37.5°	19450.5	16688.4	16282.4	17270.4	18956.5	21752.1	24801.2	25031.4
40°	20474.6	18266.0	17785.0	19070.3	20389.3	22734.9	26324.5	26877.9
42.5°	21506.4	20016.8	19442.7	20746.2	21964.2	23704.7	27627.9	28447.8
45°	22688.3	21917.6	21646.2	23055.6	23477.1	24628.0	28589.9	29608.9
47.5°	24064.2	24074.5	24511.5	25075.4	25003.0	25672.8	29557.1	30646.0
50°	25670.1	26766.7	27731.4	28106.3	26575.3	26795.2	30899.4	32034.7
52.5°	27599.4	29986.5	31181.3	30935.6	28269.2	28165.8	33025.1	33948.5
55°	30012.4	33395.0	34582.1	34406.2	30216.6	30033.0	35673.5	36211.3
57.5°	32805.4	36697.5	37788.9	36997.6	32554.5	32081.3	37863.9	37977.7
60°	35259.7	39314.8	40271.6	39394.9	34913.1	34261.4	39232.0	38681.1
62.5°	36625.1	40201.8	40874.1	39930.3	36529.5	36583.8	39531.9	38300.9
65°	36014.8	37959.6	38176.8	38099.2	36113.0	37931.1	38453.5	36544.9
67.5°	32673.5	32290.8	32655.4	33159.7	32544.2	36157.0	35466.5	32720.0
70°	26787.4	24684.8	25411.5	25750.3	26029.6	31114.1	30783.0	26650.3
72.5°	20187.5	17293.6	17867.8	17797.9	19091.0	24956.4	23940.0	19595.3
75°	14304.0	11725.7	11798.0	11769.6	13321.3	19525.5	17335.0	13406.6
77.5°	10008.4	8495.5	8534.3	8694.7	8955.8	14725.6	12385.1	9793.7
80°	6881.8	6447.2	6662.0	6674.9	6206.8	9892.0	9149.8	7859.3
82.5°	5125.8	4481.9	4430.1	4505.1	4864.5	8014.5	7031.8	5451.6
85°	4197.4	2653.4	2133.6	2674.1	4311.1	7936.9	4670.6	2875.8
87.5°	2363.7	1259.5	569.0	1055.2	1719.8	5255.1	1350.0	367.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)