

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: P191327

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191327
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-09-LED-E1-SLR-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA 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: 38651.2 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

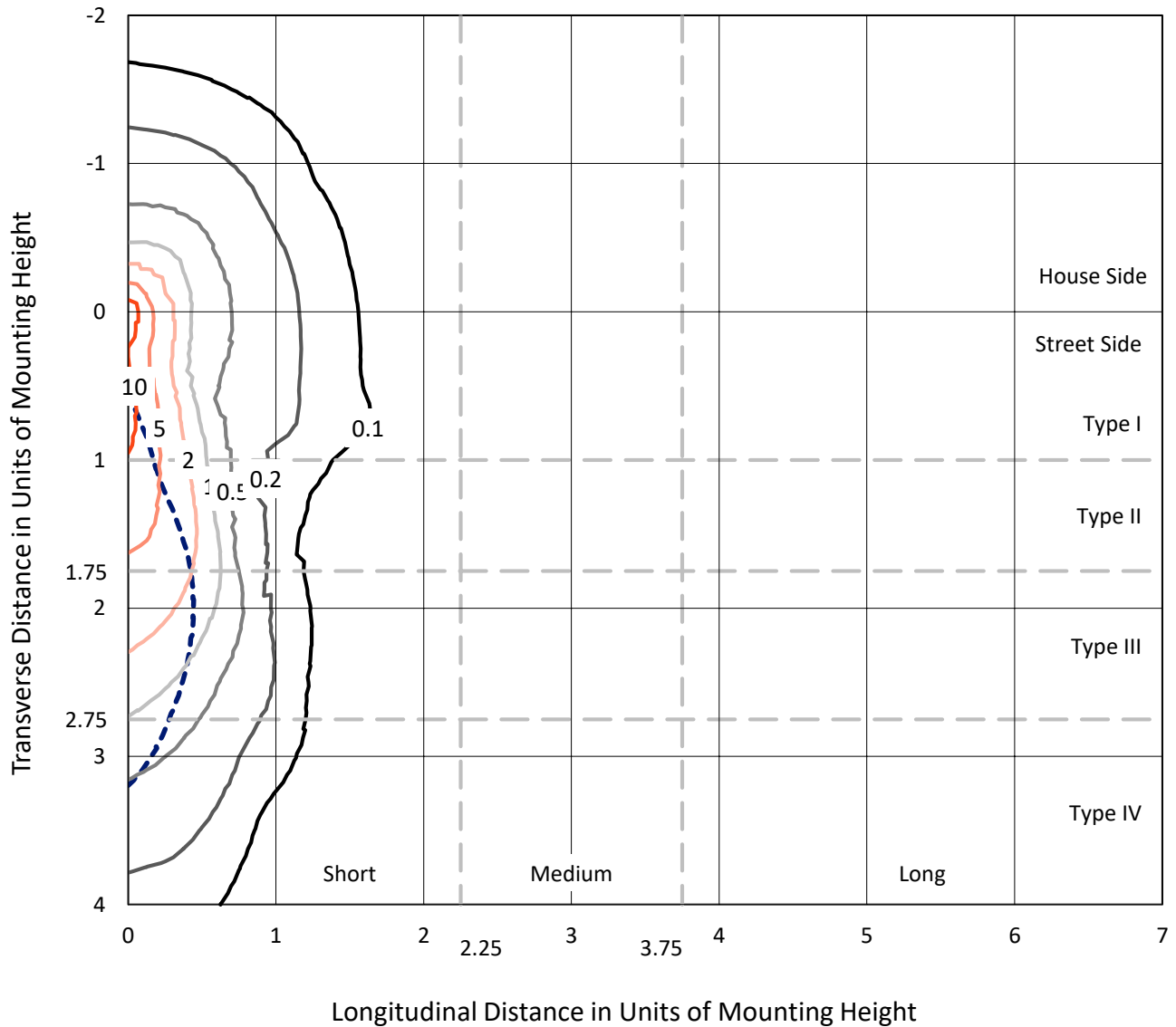


REPORT NUMBER: P191327

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

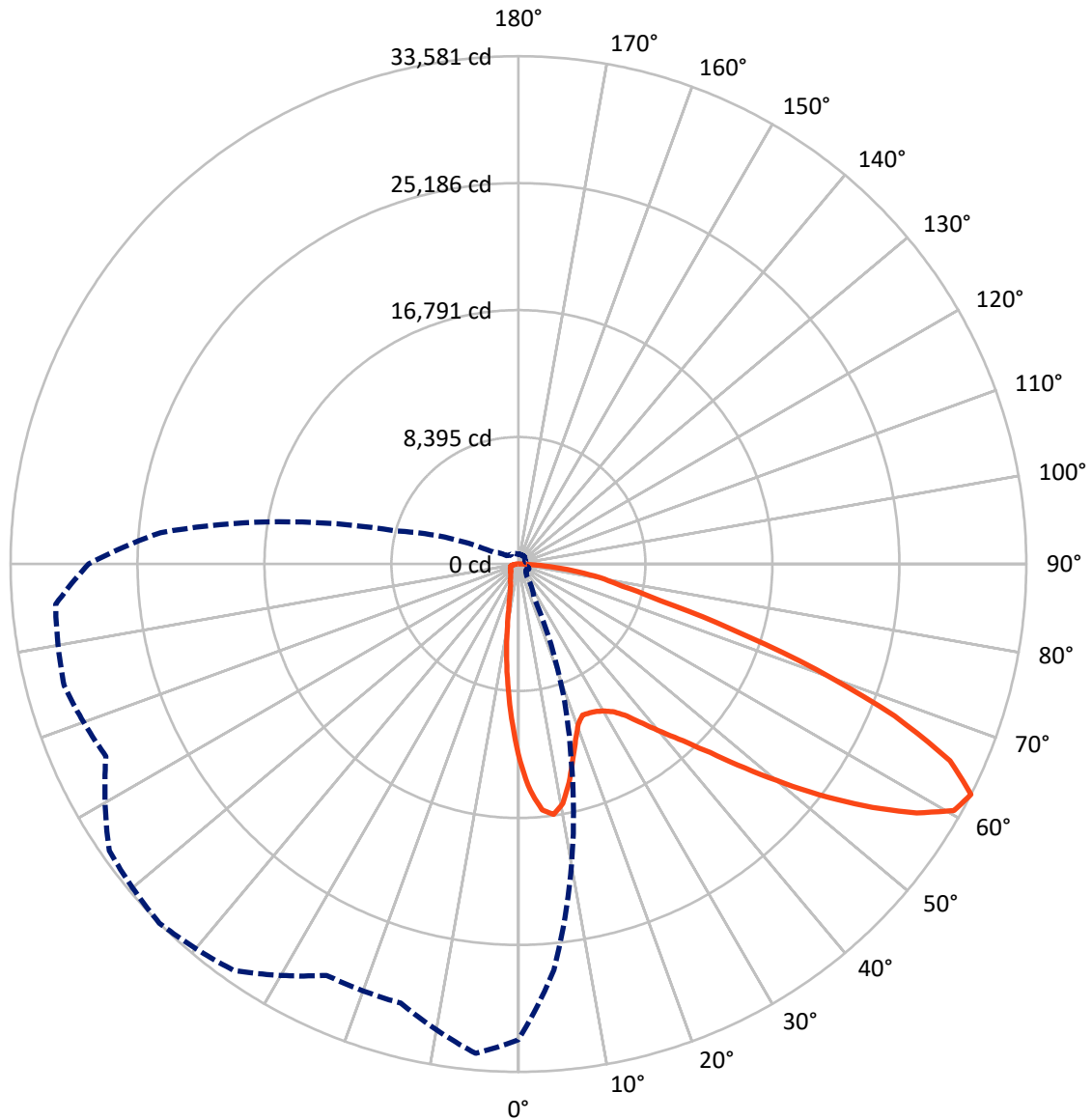


Based on 30 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191327

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191327

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6396.2	0.0	6396.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	32254.9	0.0	32254.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	38651.2	0.0	38651.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	950.6	2.5
10°-20°	1743.1	4.5
20°-30°	2541.5	6.6
30°-40°	3914.3	10.1
40°-50°	5760.8	14.9
50°-60°	8449.8	21.9
60°-70°	9445.7	24.4
70°-80°	4624.5	12.0
80°-90°	1221.0	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°	38651.2	100.0
0°-180°	38651.2	100.0



REPORT NUMBER: P191327

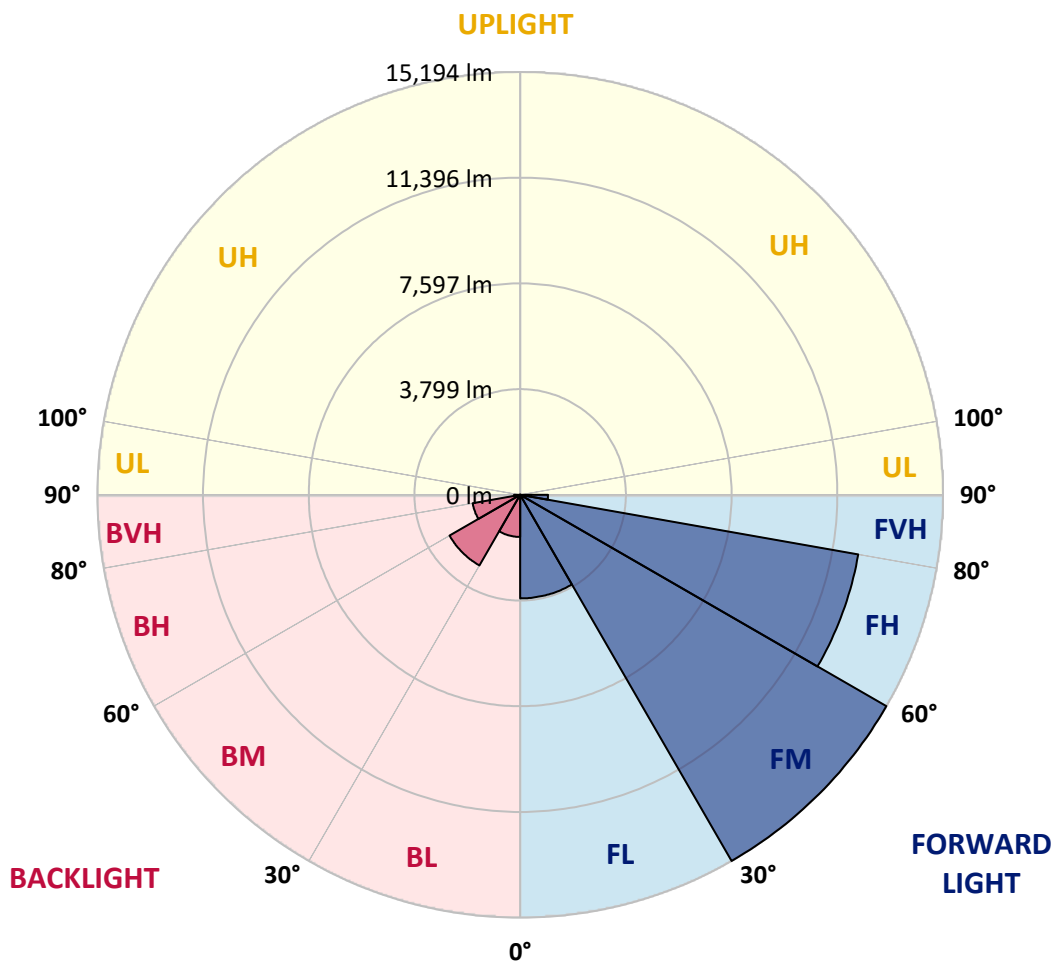
CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3722.0	9.6			
FM (30°-60°)	15194.1	39.3			
FH (60°-80°)	12336.1	31.9			G5
FVH (80°-90°)	1002.7	2.6			G5
BL (0°-30°)	1513.2	3.9	B3/2500		
BM (30°-60°)	2930.7	7.6	B3/5000		
BH (60°-80°)	1734.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	218.3	0.6			G2/225
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: P191327

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5
2.5°	13568.4	13292.1	12833.2	12355.2	12064.1	11724.1	11458.6	11224.8	10757.4	10666.0	10748.9
5°	12758.9	12204.3	11339.5	10468.5	9888.4	9265.9	8781.4	8392.6	7799.8	7695.7	7821.1
7.5°	11460.6	10797.8	9654.7	8543.5	7723.3	6945.6	6423.0	6006.6	5543.4	5343.6	5356.4
10°	10340.9	9593.0	8241.7	7032.8	6361.3	5836.5	5396.8	4969.7	4500.2	4192.1	4107.0
12.5°	9714.1	8853.6	7296.2	6216.9	5594.3	5041.9	4568.1	4111.3	3609.9	3295.4	3206.1
15°	9605.8	8670.9	6941.4	5694.3	4914.5	4215.4	3656.6	3146.7	2630.4	2375.4	2322.3
17.5°	10075.3	8998.2	6826.7	5228.9	4274.9	3412.3	2726.0	2156.6	1735.8	1608.4	1597.7
20°	10976.3	9627.1	6811.8	4791.2	3643.9	2632.5	1899.5	1485.1	1300.3	1264.2	1266.3
22.5°	12240.4	10602.3	6994.5	4461.9	3063.8	1963.2	1427.8	1243.0	1170.7	1136.7	1136.7
25°	13876.4	11945.1	7415.3	4221.8	2560.2	1568.1	1260.0	1149.5	1081.5	1058.1	1062.3
27.5°	15461.5	13251.8	7903.9	4032.7	2231.0	1423.5	1194.1	1094.3	1034.7	1011.4	1022.0
30°	16698.0	14411.8	8311.9	3775.6	2063.1	1383.2	1217.4	1115.4	1030.5	994.4	996.5
32.5°	17722.2	15427.5	8654.0	3590.8	1914.4	1185.6	1049.6	1004.9	994.4	951.9	930.6
35°	19031.0	16534.5	8883.4	3595.0	1844.3	1058.1	934.9	856.2	798.9	750.0	750.0
37.5°	20565.0	17805.1	9127.8	3643.9	1818.7	983.8	894.5	815.9	762.8	716.1	707.6
40°	22082.0	19050.1	9350.8	3690.6	1803.9	939.2	862.7	790.4	741.5	694.8	682.0
42.5°	23371.8	20074.2	9550.6	3714.0	1752.9	934.9	839.2	773.4	726.6	675.7	662.9
45°	24325.8	20932.6	9765.2	3750.1	1701.9	951.9	839.2	771.3	713.9	665.0	652.3
47.5°	25177.8	21939.7	10124.2	3750.1	1640.3	920.0	866.8	773.4	711.8	660.8	650.2
50°	26318.8	23320.8	10804.1	3663.0	1553.1	886.0	913.6	764.9	692.6	652.3	639.5
52.5°	27891.1	25090.6	11883.5	3512.1	1419.3	820.1	907.3	760.7	673.5	631.1	616.1
55°	29750.2	26985.9	13060.5	3335.7	1219.6	773.4	875.3	750.0	652.3	605.6	590.7
57.5°	31201.3	28290.5	13889.2	3063.8	1045.4	747.9	775.5	739.4	626.8	578.0	565.2
60°	31779.2	28239.5	14116.5	2700.5	960.3	726.6	677.8	628.6	605.6	556.7	541.8
62.5°	31466.9	26934.9	13479.1	2445.6	941.2	699.0	635.3	767.0	588.5	541.8	520.6
65°	30024.2	24623.2	11790.0	2377.5	996.5	671.4	607.6	601.3	565.2	520.6	499.3
67.5°	26881.8	21168.4	9440.1	2383.9	1066.6	643.7	580.0	550.3	533.3	497.2	478.0
70°	21895.1	16736.3	7037.0	2401.0	1102.7	611.9	550.3	518.4	499.3	463.2	450.4
72.5°	16098.9	12899.1	5112.1	2290.4	1109.1	575.8	509.9	482.3	463.2	424.9	414.3
75°	11014.5	9867.2	3546.2	1897.4	966.8	524.8	465.3	439.8	427.1	380.3	374.0
77.5°	8046.2	7406.8	2269.2	1408.7	745.7	461.0	410.1	391.0	382.5	331.4	322.9
80°	6457.0	5860.0	1419.3	964.6	546.1	386.7	344.2	333.6	325.1	274.0	267.7
82.5°	4478.9	3924.3	911.4	626.8	410.1	299.6	272.0	267.7	254.9	208.2	201.8
85°	2362.7	2131.1	578.0	427.1	297.5	206.1	189.1	189.1	182.7	138.1	133.9
87.5°	301.7	490.8	293.2	223.1	163.6	91.3	91.3	89.2	95.6	78.7	68.0
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: P191327

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5
2.5°	10553.4	10655.4	10557.7	10564.0	10672.4	10995.4	11142.0	11263.1	11392.7	11477.7	11515.9
5°	7648.9	7887.0	7967.7	8137.7	8388.3	8800.5	8964.1	9083.1	9161.8	9208.5	9227.6
7.5°	5231.1	5375.5	5537.0	5811.1	6357.1	6599.4	6707.7	6680.1	6590.9	6559.0	6527.1
10°	3943.5	3886.1	3856.3	4007.2	4449.1	4693.5	4769.9	4695.7	4646.8	4657.4	4710.5
12.5°	3055.3	2955.5	2834.4	2817.4	3108.4	3327.2	3376.1	3380.4	3469.6	3548.3	3665.1
15°	2226.7	2216.0	2156.6	2120.5	2286.2	2464.7	2485.9	2524.1	2604.8	2662.2	2764.2
17.5°	1570.1	1627.5	1674.3	1697.7	1823.0	1950.5	1927.1	1908.0	1893.1	1893.1	1942.0
20°	1266.3	1304.6	1364.1	1432.0	1559.5	1648.8	1591.4	1514.9	1459.6	1442.7	1449.0
22.5°	1141.0	1170.7	1204.7	1264.2	1378.9	1440.5	1378.9	1323.7	1268.5	1249.3	1243.0
25°	1077.3	1115.4	1147.3	1191.9	1276.9	1319.4	1260.0	1219.6	1185.6	1162.2	1145.2
27.5°	1041.1	1075.1	1083.6	1104.9	1177.1	1215.4	1185.6	1168.6	1147.3	1126.1	1104.9
30°	1002.9	996.5	981.6	983.8	1041.1	1079.3	1077.3	1081.5	1079.3	1073.0	1068.7
32.5°	915.7	903.0	890.3	903.0	956.2	990.1	992.3	1000.8	1000.8	998.6	1015.6
35°	762.8	786.1	801.0	839.2	903.0	932.7	920.0	898.8	860.5	837.2	835.0
37.5°	705.4	709.6	735.2	788.3	858.4	886.0	866.8	818.1	792.5	788.3	794.6
40°	677.8	682.0	696.9	745.7	815.9	843.5	826.5	790.4	767.0	764.9	775.5
42.5°	658.7	662.9	671.4	705.4	762.8	796.8	798.9	773.4	745.7	747.9	758.5
45°	648.0	650.2	648.0	665.0	718.1	758.5	775.5	758.5	735.2	739.4	752.2
47.5°	645.9	639.5	631.1	635.3	690.5	730.9	752.2	745.7	735.2	739.4	750.0
50°	637.4	622.6	611.9	609.8	665.0	707.6	726.6	726.6	730.9	739.4	750.0
52.5°	611.9	594.9	594.9	588.5	648.0	688.4	701.1	703.3	709.6	724.6	739.4
55°	580.0	573.7	580.0	569.4	635.3	673.5	680.0	684.1	688.4	701.1	722.4
57.5°	552.4	543.9	558.8	554.5	624.6	658.7	658.7	667.2	667.2	684.1	701.1
60°	537.6	520.6	526.9	531.2	609.8	645.9	641.7	650.2	654.4	669.3	682.0
62.5°	518.4	503.6	503.6	514.1	592.8	626.8	624.6	631.1	648.0	652.3	665.0
65°	495.0	488.7	482.3	495.0	575.8	605.6	607.6	616.1	631.1	635.3	645.9
67.5°	471.7	473.8	461.0	473.8	560.9	584.3	584.3	601.3	607.6	616.1	626.8
70°	446.2	448.4	437.7	452.6	550.3	560.9	558.8	582.2	586.5	592.8	603.4
72.5°	414.3	414.3	410.1	431.3	533.3	537.6	533.3	552.4	554.5	560.9	565.2
75°	380.3	380.3	376.0	405.8	522.7	512.1	499.3	514.1	518.4	522.7	522.7
77.5°	335.7	339.9	339.9	376.0	486.5	501.5	458.9	467.4	473.8	476.0	469.5
80°	280.5	291.1	295.3	342.1	408.0	463.2	410.1	416.4	418.6	418.6	410.1
82.5°	214.6	233.7	244.4	295.3	312.3	388.8	356.9	363.4	356.9	344.2	339.9
85°	148.7	174.2	187.0	225.3	235.9	299.6	297.5	297.5	284.7	267.7	265.6
87.5°	80.7	95.6	104.1	133.9	161.5	201.8	218.8	212.5	201.8	191.2	193.3
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: P191327

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5
2.5°	11715.7	12004.6	12465.7	12818.4	13173.2	13515.2	13884.9	14167.6	14407.6	14501.1	14785.8
5°	9421.0	9782.2	10217.7	11003.9	11560.6	12174.5	12884.3	13823.3	14184.5	14683.8	15501.9
7.5°	6660.9	6988.2	7689.3	8324.6	9112.9	9981.9	10940.2	12236.2	12710.0	13511.0	14843.2
10°	4973.9	5354.2	5917.3	6452.8	7147.6	8035.7	9136.3	10585.3	11161.1	12030.1	13564.1
12.5°	4007.2	4455.5	5052.6	5556.2	6093.6	6720.5	7789.2	9378.4	10149.7	10910.4	12461.4
15°	3078.7	3548.3	4102.9	4742.3	5335.1	6010.8	7130.5	8868.6	9756.7	10549.2	11872.9
17.5°	2131.1	2532.6	3231.7	3898.9	4657.4	5522.1	6947.8	8976.9	10037.1	10950.7	11974.9
20°	1510.7	1740.1	2313.8	3087.2	4032.7	5118.4	6913.8	9546.3	10925.2	11968.5	12629.2
22.5°	1270.6	1355.5	1689.1	2398.8	3490.9	4816.7	7032.8	10345.2	12123.6	13455.8	13672.5
25°	1158.0	1208.9	1383.2	1882.5	3008.6	4597.9	7434.4	11535.0	13606.6	14943.1	14904.8
27.5°	1096.4	1149.5	1264.2	1589.3	2645.2	4461.9	7835.9	12945.9	15302.1	16557.9	16081.9
30°	1077.3	1149.5	1270.6	1497.9	2386.0	4247.3	8165.3	14184.5	16606.7	17647.8	16617.3
32.5°	1062.3	1073.0	1128.2	1291.8	2139.6	3996.6	8388.3	15295.8	17883.6	18684.7	17388.6
35°	858.4	911.4	1000.8	1158.0	1995.1	3845.7	8388.3	16254.0	19141.5	19732.1	18123.7
37.5°	826.5	873.3	951.9	1085.8	1914.4	3771.3	8220.5	17178.2	20426.9	20919.9	18729.3
40°	809.6	847.7	922.1	1030.5	1880.4	3686.4	7976.2	17994.1	21682.7	22109.6	19294.5
42.5°	796.8	830.7	900.9	996.5	1835.8	3592.9	7778.5	18648.6	22772.6	23125.3	19834.1
45°	790.4	826.5	903.0	1013.4	1746.5	3469.6	7712.6	19356.1	23669.2	23973.1	20418.4
47.5°	790.4	832.9	913.6	1049.6	1640.3	3342.2	7918.8	20288.8	24517.0	24665.7	21106.9
50°	784.0	830.7	943.4	1013.4	1485.1	3180.7	8403.2	21463.8	25434.9	25451.8	21978.0
52.5°	771.3	826.5	1015.6	992.3	1306.7	2968.2	9057.6	22972.3	26792.5	26894.5	23342.0
55°	756.4	820.1	996.5	943.4	1160.1	2715.4	9593.0	24805.9	28700.5	28983.2	25347.8
57.5°	737.2	811.6	964.6	875.3	1064.5	2390.3	9786.4	26148.8	30032.7	30742.4	27608.4
60°	720.3	805.3	871.1	835.0	1004.9	2116.2	9412.5	25883.2	29941.4	31471.2	29612.1
62.5°	703.3	811.6	794.6	809.6	977.3	1939.8	8435.0	23756.4	28426.5	30719.0	31097.2
65°	684.1	754.2	750.0	788.3	971.0	1869.7	6992.4	20567.1	25498.6	28341.5	31447.8
67.5°	658.7	696.9	718.1	760.7	992.3	1808.2	5643.2	16965.7	21429.8	24778.3	29620.6
70°	631.1	662.9	686.3	726.6	979.5	1780.5	4693.5	13379.3	17004.0	20307.9	26014.9
72.5°	594.9	622.6	643.7	682.0	966.8	1765.6	3964.8	10774.4	12695.1	15085.5	21151.5
75°	552.4	578.0	592.8	631.1	926.4	1616.9	3116.9	9117.2	9499.5	10493.9	16846.8
77.5°	503.6	522.7	535.4	578.0	820.1	1345.0	2254.3	7032.8	7377.0	7619.2	12916.1
80°	446.2	465.3	471.7	512.1	680.0	1051.7	1470.3	5195.0	5517.9	5573.1	8435.0
82.5°	380.3	399.5	399.5	437.7	556.7	756.4	964.6	3558.8	3622.6	3809.6	5962.0
85°	306.0	320.8	320.8	339.9	431.3	565.2	662.9	1786.9	1767.8	2018.5	5165.2
87.5°	218.8	229.4	240.1	244.4	308.1	374.0	399.5	543.9	359.1	412.1	3316.7
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: P191327

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5	13058.5
2.5°	15000.4	15121.6	14998.3	14909.1	14524.5	14207.9	13785.1	13568.4
5°	16124.4	16432.5	16328.3	15954.5	15151.3	14248.3	13222.0	12758.9
7.5°	15988.4	16704.5	16721.5	16022.4	14838.9	13508.9	12119.3	11460.6
10°	14930.3	15846.0	16107.4	15429.6	14173.9	12686.6	11093.1	10340.9
12.5°	13749.0	14645.6	14845.4	14611.6	13562.0	12068.4	10451.4	9714.1
15°	12782.3	13183.8	13421.7	13625.7	13037.2	11821.8	10415.3	9605.8
17.5°	12193.7	12149.1	12217.1	12571.9	12671.7	12104.5	10967.8	10075.3
20°	11981.2	11299.2	11282.2	11770.9	12499.6	12778.0	12047.1	10976.3
22.5°	12098.0	10993.2	10853.0	11433.0	12591.0	13749.0	13462.1	12240.4
25°	12501.8	11018.7	10906.1	11467.1	12922.4	14783.7	14989.8	13876.4
27.5°	13137.0	11180.2	11031.5	11607.3	13362.3	15652.7	16494.1	15461.5
30°	13740.5	11460.6	11275.8	11883.5	13763.8	15996.9	17416.2	16698.0
32.5°	14473.5	11985.5	11660.4	12391.3	14261.1	16545.1	18238.5	17722.2
35°	15191.6	12733.4	12329.6	13175.3	14815.6	17227.1	19177.6	19031.0
37.5°	15979.9	13710.7	13377.1	14188.8	15574.1	17871.0	20376.0	20565.0
40°	16821.3	15006.8	14611.6	15667.6	16751.2	18678.3	21627.4	22082.0
42.5°	17669.0	16445.3	15973.6	17044.4	18045.2	19475.0	22698.3	23371.8
45°	18640.0	18006.9	17783.8	18941.8	19288.0	20233.6	23488.6	24325.8
47.5°	19770.4	19778.9	20138.0	20601.2	20541.7	21091.9	24283.3	25177.8
50°	21089.9	21990.7	22783.3	23091.3	21833.5	22014.1	25386.0	26318.8
52.5°	22674.8	24635.9	25617.6	25415.7	23225.2	23140.2	27132.5	27891.1
55°	24657.2	27436.4	28411.5	28267.1	24825.1	24674.2	29308.3	29750.2
57.5°	26951.9	30149.6	31046.3	30396.1	26745.8	26356.9	31107.8	31201.3
60°	28968.2	32299.8	33085.9	32365.7	28683.5	28148.1	32231.9	31779.2
62.5°	30090.1	33028.5	33581.0	32805.5	30011.5	30056.1	32478.3	31466.9
65°	29588.6	31186.5	31364.9	31301.2	29669.4	31163.1	31592.3	30024.2
67.5°	26843.6	26529.1	26828.6	27243.0	26737.3	29705.6	29138.2	26881.8
70°	22007.8	20280.3	20877.4	21155.7	21385.2	25562.3	25290.4	21895.1
72.5°	16585.5	14207.9	14679.5	14622.3	15684.6	20503.4	19668.4	16098.9
75°	11751.8	9633.4	9692.9	9669.5	10944.3	16041.5	14241.9	11014.5
77.5°	8222.6	6979.7	7011.5	7143.3	7357.9	12098.0	10175.2	8046.2
80°	5653.8	5296.9	5473.2	5483.8	5099.3	8127.0	7517.3	6457.0
82.5°	4211.2	3682.1	3639.7	3701.2	3996.6	6584.4	5777.1	4478.9
85°	3448.4	2179.9	1752.9	2197.0	3541.9	6520.7	3837.2	2362.7
87.5°	1942.0	1034.7	467.4	866.8	1412.9	4317.4	1109.1	301.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)