

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: P191345

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191345
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-07-LED-E1-SLR-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 41520.5 lumens
Efficiency: N/A
Efficacy: 92.7 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

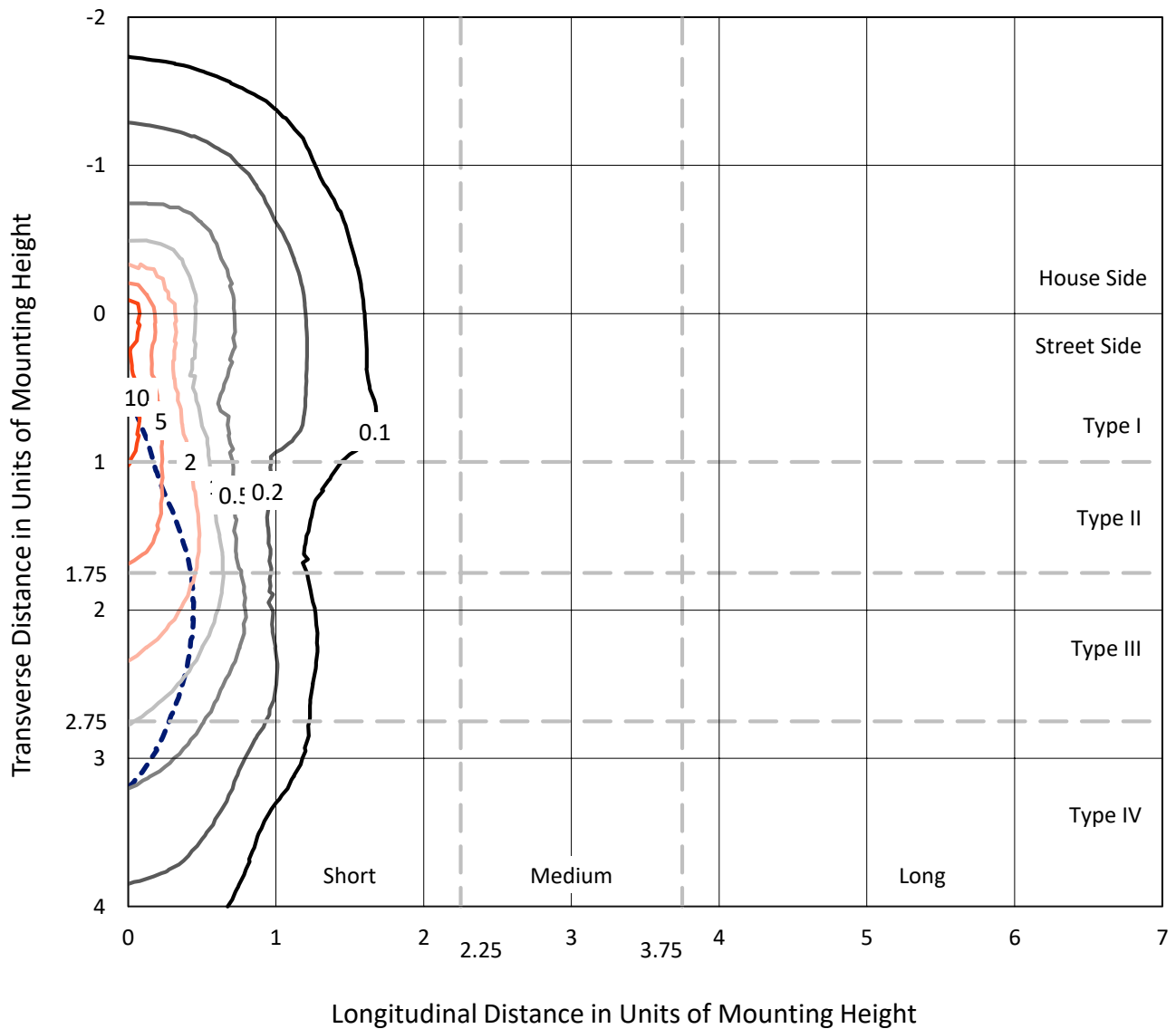
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191345
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Iso-Footcandle Lines of Horizontal Illumination

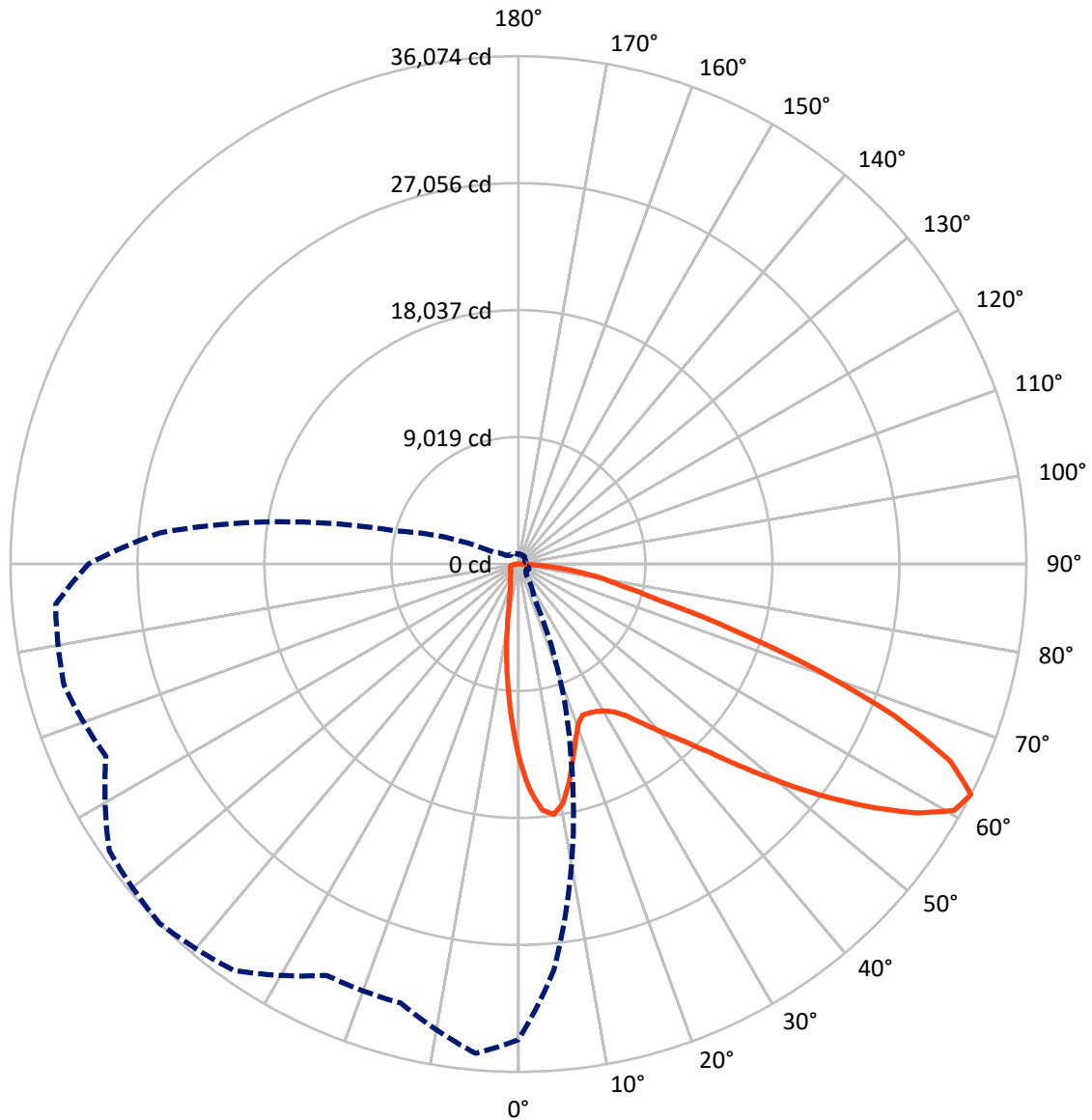
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191345
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191345

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6871.1	0.0	6871.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	34649.5	0.0	34649.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	41520.5	0.0	41520.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1021.2	2.5
10°-20°	1872.5	4.5
20°-30°	2730.2	6.6
30°-40°	4204.8	10.1
40°-50°	6188.4	14.9
50°-60°	9077.1	21.9
60°-70°	10146.9	24.4
70°-80°	4967.8	12.0
80°-90°	1311.6	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°	41520.5	100.0
0°-180°	41520.5	100.0



REPORT NUMBER: P191345

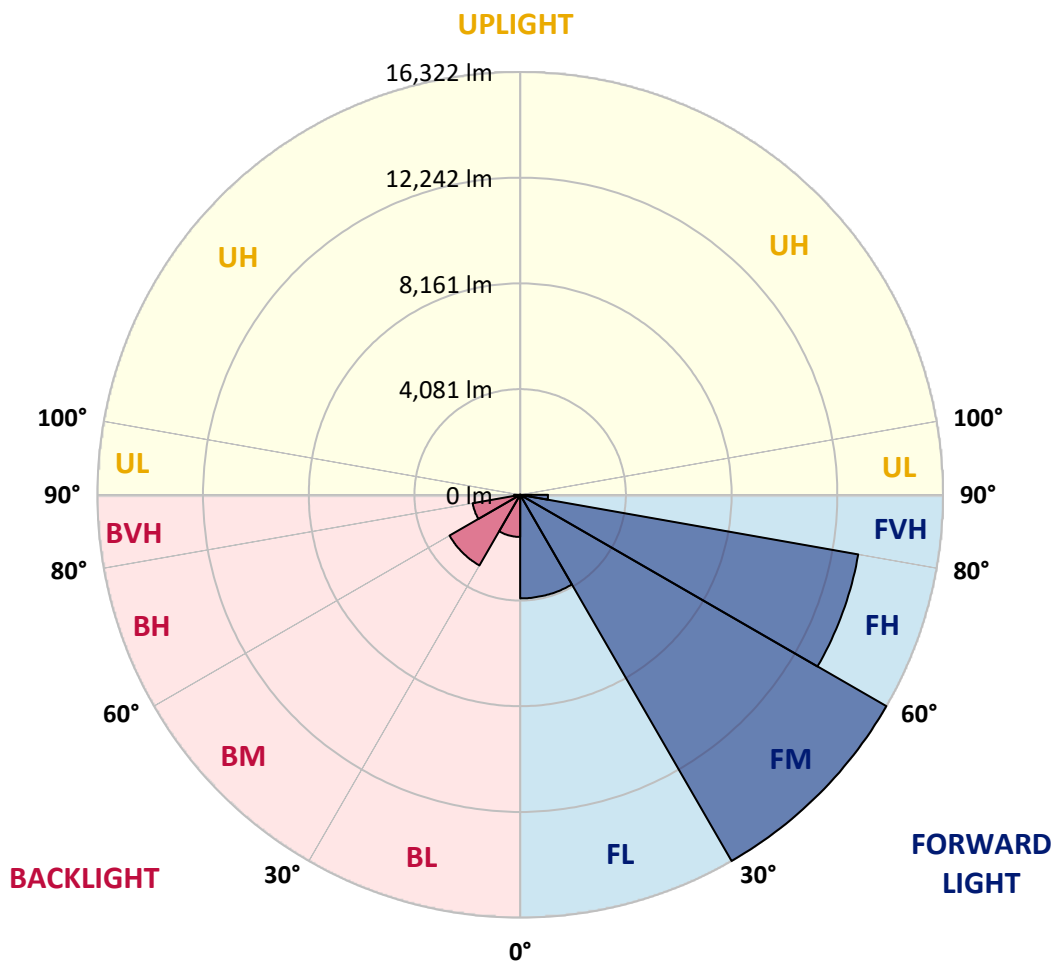
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3998.3	9.6			
FM	(30°-60°)	16322.1	39.3			
FH	(60°-80°)	13251.9	31.9			G5
FVH	(80°-90°)	1077.2	2.6			G5
BL	(0°-30°)	1625.6	3.9	B3/2500		
BM	(30°-60°)	3148.3	7.6	B3/5000		
BH	(60°-80°)	1862.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	234.5	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: P191345
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9
2.5°	14575.6	14279.0	13785.9	13272.4	12959.7	12594.5	12309.2	12058.1	11556.0	11457.9	11546.9
5°	13706.0	13110.3	12181.4	11245.6	10622.5	9953.7	9433.3	9015.7	8378.9	8267.0	8401.7
7.5°	12311.5	11599.3	10371.4	9177.7	8296.6	7461.3	6899.8	6452.5	5954.9	5740.3	5754.0
10°	11108.6	10305.2	8853.5	7554.9	6833.6	6269.9	5797.4	5338.7	4834.2	4503.2	4412.0
12.5°	10435.3	9510.9	7837.8	6678.4	6009.6	5416.2	4907.2	4416.5	3877.9	3540.0	3444.2
15°	10318.9	9314.7	7456.7	6116.9	5279.2	4528.4	3928.0	3380.3	2825.7	2551.8	2494.7
17.5°	10823.3	9666.2	7333.4	5617.1	4592.2	3665.6	2928.4	2316.7	1864.7	1727.8	1716.4
20°	11791.0	10341.7	7317.5	5146.9	3914.4	2827.9	2040.5	1595.4	1396.8	1358.1	1360.3
22.5°	13149.1	11389.3	7513.8	4793.1	3291.2	2109.0	1533.8	1335.3	1257.6	1221.1	1221.1
25°	14906.6	12831.9	7965.7	4535.3	2750.3	1684.4	1353.5	1234.8	1161.8	1136.7	1141.2
27.5°	16609.3	14235.6	8490.7	4332.1	2396.6	1529.2	1282.8	1175.5	1111.5	1086.5	1097.8
30°	17937.7	15481.7	8928.9	4055.9	2216.2	1485.8	1307.8	1198.3	1106.9	1068.2	1070.4
32.5°	19037.8	16572.8	9296.4	3857.3	2056.4	1273.6	1127.5	1079.6	1068.2	1022.5	999.7
35°	20443.8	17761.9	9542.9	3861.8	1981.1	1136.7	1004.2	919.8	858.2	805.7	805.7
37.5°	22091.7	19126.8	9805.4	3914.4	1953.7	1056.8	960.9	876.5	819.4	769.2	760.1
40°	23721.4	20464.3	10045.1	3964.5	1937.8	1008.8	926.7	849.0	796.6	746.3	732.6
42.5°	25106.8	21564.5	10259.6	3989.7	1883.0	1004.2	901.5	830.8	780.6	725.8	712.1
45°	26131.7	22486.6	10490.1	4028.5	1828.2	1022.5	901.5	828.5	766.9	714.4	700.7
47.5°	27046.9	23568.5	10875.8	4028.5	1762.0	988.3	931.2	830.8	764.7	709.8	698.5
50°	28272.6	25052.1	11606.2	3934.9	1668.4	951.8	981.4	821.6	744.1	700.7	687.0
52.5°	29961.6	26953.3	12765.7	3772.8	1524.7	881.1	974.6	817.1	723.5	677.9	662.0
55°	31958.7	28989.3	14030.2	3583.4	1310.1	830.8	940.4	805.7	700.7	650.5	634.5
57.5°	33517.6	30390.7	14920.4	3291.2	1123.0	803.4	833.1	794.3	673.3	620.8	607.1
60°	34138.4	30335.9	15164.5	2901.0	1031.6	780.6	728.1	890.2	650.5	598.0	582.1
62.5°	33802.9	28934.5	14479.8	2627.0	1011.1	750.9	682.4	824.0	632.3	582.1	559.2
65°	32253.1	26451.2	12665.3	2554.0	1070.4	721.3	652.7	645.9	607.1	559.2	536.3
67.5°	28877.4	22740.0	10140.9	2560.9	1145.8	691.6	623.1	591.2	572.9	534.1	513.5
70°	23520.5	17978.8	7559.4	2579.2	1184.6	657.3	591.2	556.9	536.3	497.6	483.9
72.5°	17294.0	13856.7	5491.5	2460.5	1191.4	618.6	547.8	518.1	497.6	456.4	445.1
75°	11832.2	10599.6	3809.4	2038.2	1038.5	563.7	499.8	472.5	458.8	408.6	401.7
77.5°	8643.6	7956.6	2437.7	1513.3	801.2	495.3	440.5	419.9	410.8	356.1	346.9
80°	6936.3	6294.9	1524.7	1036.2	586.6	415.4	369.8	358.3	349.2	294.4	287.6
82.5°	4811.3	4215.7	979.2	673.3	440.5	321.8	292.2	287.6	273.8	223.7	216.9
85°	2538.0	2289.3	620.8	458.8	319.6	221.4	203.2	203.2	196.3	148.3	143.8
87.5°	324.1	527.2	315.0	239.7	175.7	98.1	98.1	95.9	102.7	84.5	73.0
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: P191345
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9
2.5°	11336.9	11446.4	11341.5	11348.3	11464.7	11811.6	11969.1	12099.3	12238.5	12329.7	12370.9
5°	8216.8	8472.4	8559.1	8741.7	9011.1	9453.9	9629.6	9757.4	9841.9	9892.1	9912.6
7.5°	5619.4	5774.6	5948.0	6242.5	6829.0	7089.3	7205.7	7176.0	7080.1	7045.9	7011.6
10°	4236.2	4174.6	4142.6	4304.7	4779.4	5041.9	5124.1	5044.2	4991.7	5003.2	5060.1
12.5°	3282.1	3174.8	3044.8	3026.5	3339.2	3574.3	3626.8	3631.4	3727.2	3811.7	3937.2
15°	2392.0	2380.6	2316.7	2277.9	2455.9	2647.6	2670.4	2711.5	2798.3	2859.9	2969.4
17.5°	1686.7	1748.3	1798.6	1823.7	1958.3	2095.3	2070.1	2049.6	2033.6	2033.6	2086.1
20°	1360.3	1401.4	1465.4	1538.4	1675.3	1771.1	1709.6	1627.4	1568.1	1549.8	1556.6
22.5°	1225.7	1257.6	1294.1	1358.1	1481.3	1547.5	1481.3	1422.0	1362.6	1342.1	1335.3
25°	1157.2	1198.3	1232.6	1280.4	1371.8	1417.4	1353.5	1310.1	1273.6	1248.5	1230.2
27.5°	1118.4	1154.9	1164.0	1186.8	1264.5	1305.6	1273.6	1255.4	1232.6	1209.7	1186.8
30°	1077.3	1070.4	1054.5	1056.8	1118.4	1159.5	1157.2	1161.8	1159.5	1152.7	1148.1
32.5°	983.8	970.1	956.4	970.1	1027.1	1063.7	1065.9	1075.0	1075.0	1072.8	1091.0
35°	819.4	844.5	860.5	901.5	970.1	1002.0	988.3	965.5	924.3	899.3	897.0
37.5°	757.8	762.3	789.7	846.8	922.1	951.8	931.2	878.7	851.3	846.8	853.7
40°	728.1	732.6	748.6	801.2	876.5	906.1	887.8	849.0	824.0	821.6	833.1
42.5°	707.6	712.1	721.3	757.8	819.4	855.9	858.2	830.8	801.2	803.4	814.8
45°	696.1	698.5	696.1	714.4	771.5	814.8	833.1	814.8	789.7	794.3	808.0
47.5°	693.9	687.0	677.9	682.4	741.8	785.1	808.0	801.2	789.7	794.3	805.7
50°	684.8	668.8	657.3	655.1	714.4	760.1	780.6	780.6	785.1	794.3	805.7
52.5°	657.3	639.0	639.0	632.3	696.1	739.5	753.2	755.4	762.3	778.4	794.3
55°	623.1	616.2	623.1	611.7	682.4	723.5	730.4	735.0	739.5	753.2	776.0
57.5°	593.4	584.3	600.3	595.8	671.1	707.6	707.6	716.7	716.7	735.0	753.2
60°	577.5	559.2	566.0	570.6	655.1	693.9	689.3	698.5	703.0	718.9	732.6
62.5°	556.9	540.9	540.9	552.4	636.8	673.3	671.1	677.9	696.1	700.7	714.4
65°	531.8	525.0	518.1	531.8	618.6	650.5	652.7	662.0	677.9	682.4	693.9
67.5°	506.7	509.0	495.3	509.0	602.5	627.7	627.7	645.9	652.7	662.0	673.3
70°	479.4	481.6	470.1	486.2	591.2	602.5	600.3	625.4	629.9	636.8	648.2
72.5°	445.1	445.1	440.5	463.3	572.9	577.5	572.9	593.4	595.8	602.5	607.1
75°	408.6	408.6	404.0	436.0	561.5	550.0	536.3	552.4	556.9	561.5	561.5
77.5°	360.6	365.2	365.2	404.0	522.7	538.7	493.0	502.2	509.0	511.3	504.4
80°	301.3	312.7	317.2	367.4	438.2	497.6	440.5	447.3	449.7	449.7	440.5
82.5°	230.6	251.0	262.5	317.2	335.5	417.7	383.4	390.3	383.4	369.8	365.2
85°	159.8	187.2	200.8	241.9	253.4	321.8	319.6	319.6	305.9	287.6	285.3
87.5°	86.7	102.7	111.8	143.8	173.5	216.9	235.1	228.2	216.9	205.4	207.7
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: P191345
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9
2.5°	12585.4	12895.8	13391.0	13769.9	14151.1	14518.6	14915.7	15219.4	15477.2	15577.7	15883.5
5°	10120.4	10508.4	10976.3	11820.7	12418.7	13078.4	13840.7	14849.6	15237.6	15773.9	16652.7
7.5°	7155.4	7506.9	8260.1	8942.6	9789.4	10722.9	11752.3	13144.6	13653.5	14514.0	15945.1
10°	5343.2	5751.7	6356.6	6931.8	7678.2	8632.2	9814.5	11371.1	11989.7	12923.1	14571.1
12.5°	4304.7	4786.3	5427.7	5968.6	6546.1	7219.4	8367.4	10074.7	10903.2	11720.4	13386.5
15°	3307.3	3811.7	4407.4	5094.4	5731.2	6457.1	7659.9	9526.9	10480.9	11332.4	12754.3
17.5°	2289.3	2720.6	3471.6	4188.3	5003.2	5932.1	7463.6	9643.4	10782.2	11763.7	12863.8
20°	1622.8	1869.3	2485.6	3316.4	4332.1	5498.4	7427.0	10255.0	11736.3	12857.0	13566.8
22.5°	1364.9	1456.2	1814.5	2576.9	3750.0	5174.3	7554.9	11113.2	13023.6	14454.7	14687.5
25°	1243.9	1298.7	1485.8	2022.3	3231.9	4939.2	7986.3	12391.4	14616.7	16052.5	16011.3
27.5°	1177.7	1234.8	1358.1	1707.3	2841.7	4793.1	8417.7	13906.9	16438.1	17787.1	17275.8
30°	1157.2	1234.8	1364.9	1609.1	2563.2	4562.6	8771.4	15237.6	17839.5	18957.9	17851.0
32.5°	1141.2	1152.7	1212.0	1387.7	2298.5	4293.2	9011.1	16431.2	19211.3	20071.8	18679.5
35°	922.1	979.2	1075.0	1243.9	2143.2	4131.2	9011.1	17460.6	20562.5	21197.0	19469.2
37.5°	887.8	938.0	1022.5	1166.4	2056.4	4051.3	8830.7	18453.5	21943.4	22472.9	20119.7
40°	869.6	910.7	990.6	1106.9	2019.9	3960.0	8568.2	19330.0	23292.3	23751.1	20726.8
42.5°	855.9	892.4	967.7	1070.4	1972.0	3859.6	8356.0	20033.0	24463.2	24842.1	21306.5
45°	849.0	887.8	970.1	1088.7	1876.2	3727.2	8285.3	20793.0	25426.4	25752.8	21934.2
47.5°	849.0	894.7	981.4	1127.5	1762.0	3590.3	8506.7	21795.0	26337.1	26496.9	22673.8
50°	842.2	892.4	1013.4	1088.7	1595.4	3416.9	9027.0	23057.2	27323.1	27341.3	23609.6
52.5°	828.5	887.8	1091.0	1065.9	1403.7	3188.5	9730.0	24677.8	28781.5	28891.1	25074.9
55°	812.5	881.1	1070.4	1013.4	1246.3	2916.9	10305.2	26647.5	30831.2	31134.7	27229.5
57.5°	792.0	871.9	1036.2	940.4	1143.5	2567.7	10513.0	28090.0	32262.3	33024.6	29658.0
60°	773.8	865.0	935.8	897.0	1079.6	2273.3	10111.3	27804.7	32164.1	33807.5	31810.4
62.5°	755.4	871.9	853.7	869.6	1050.0	2083.9	9061.3	25520.0	30536.8	32999.5	33405.8
65°	735.0	810.3	805.7	846.8	1043.1	2008.6	7511.5	22094.0	27391.6	30445.5	33782.4
67.5°	707.6	748.6	771.5	817.1	1065.9	1942.4	6062.2	18225.3	23020.7	26617.8	31819.5
70°	677.9	712.1	737.2	780.6	1052.2	1912.7	5041.9	14372.6	18266.3	21815.6	27946.2
72.5°	639.0	668.8	691.6	732.6	1038.5	1896.8	4259.1	11574.3	13637.6	16205.3	22721.7
75°	593.4	620.8	636.8	677.9	995.1	1737.0	3348.3	9793.9	10204.8	11273.0	18097.4
77.5°	540.9	561.5	575.2	620.8	881.1	1444.8	2421.6	7554.9	7924.6	8184.8	13875.0
80°	479.4	499.8	506.7	550.0	730.4	1129.8	1579.4	5580.6	5927.5	5986.8	9061.3
82.5°	408.6	429.1	429.1	470.1	598.0	812.5	1036.2	3823.1	3891.6	4092.4	6404.5
85°	328.7	344.6	344.6	365.2	463.3	607.1	712.1	1919.6	1899.0	2168.3	5548.6
87.5°	235.1	246.5	257.9	262.5	330.9	401.7	429.1	584.3	385.8	442.8	3562.9
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: P191345
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9
2.5°	16114.0	16244.2	16111.8	16015.9	15602.8	15262.6	14808.4	14575.6
5°	17321.4	17652.3	17540.5	17138.8	16276.1	15306.0	14203.7	13706.0
7.5°	17175.3	17944.5	17962.8	17211.9	15940.5	14511.8	13019.0	12311.5
10°	16038.7	17022.4	17303.2	16575.1	15226.1	13628.5	11916.7	11108.6
12.5°	14769.7	15732.9	15947.4	15696.4	14568.9	12964.3	11227.3	10435.3
15°	13731.2	14162.5	14418.2	14637.3	14005.0	12699.5	11188.5	10318.9
17.5°	13098.9	13051.0	13124.0	13505.2	13612.5	13003.0	11781.9	10823.3
20°	12870.7	12138.0	12119.7	12644.7	13427.6	13726.6	12941.5	11791.0
22.5°	12996.2	11809.4	11658.7	12281.9	13525.8	14769.7	14461.6	13149.1
25°	13429.9	11836.8	11715.8	12318.4	13881.9	15881.2	16102.6	14906.6
27.5°	14112.3	12010.2	11850.5	12469.0	14354.3	16814.8	17718.6	16609.3
30°	14760.6	12311.5	12112.9	12765.7	14785.6	17184.4	18709.2	17937.7
32.5°	15548.0	12875.3	12526.0	13311.1	15319.7	17773.4	19592.5	19037.8
35°	16319.4	13678.7	13245.0	14153.4	15915.5	18506.0	20601.3	20443.8
37.5°	17166.2	14728.5	14370.2	15242.2	16730.3	19197.6	21888.6	22091.7
40°	18070.1	16120.9	15696.4	16830.7	17994.7	20065.0	23233.0	23721.4
42.5°	18980.8	17666.1	17159.4	18309.7	19384.8	20920.9	24383.3	25106.8
45°	20023.9	19343.7	19104.0	20347.9	20720.0	21735.7	25232.4	26131.7
47.5°	21238.1	21247.2	21633.0	22130.5	22066.6	22657.7	26086.0	27046.9
50°	22655.5	23623.2	24474.6	24805.5	23454.3	23648.4	27270.6	28272.6
52.5°	24358.2	26464.9	27519.4	27302.6	24949.4	24858.0	29146.7	29961.6
55°	26487.7	29473.2	30520.8	30365.6	26668.0	26506.0	31484.0	31958.7
57.5°	28952.8	32387.9	33351.1	32652.6	28731.3	28313.6	33417.2	33517.6
60°	31118.8	34697.7	35542.1	34768.5	30812.9	30237.8	34624.6	34138.4
62.5°	32323.9	35480.5	36074.0	35240.9	32239.4	32287.4	34889.4	33802.9
65°	31785.2	33501.6	33693.3	33624.9	31872.0	33476.6	33937.6	32253.1
67.5°	28836.4	28498.6	28820.4	29265.5	28722.2	31910.8	31301.4	28877.4
70°	23641.5	21785.9	22427.3	22726.3	22972.7	27460.0	27167.9	23520.5
72.5°	17816.7	15262.6	15769.4	15707.7	16849.0	22025.6	21128.5	17294.0
75°	12624.1	10348.6	10412.5	10387.3	11756.9	17232.4	15299.2	11832.2
77.5°	8833.1	7497.8	7532.1	7673.6	7904.1	12996.2	10930.6	8643.6
80°	6073.6	5690.2	5879.6	5891.0	5477.9	8730.4	8075.3	6936.3
82.5°	4523.8	3955.4	3909.8	3976.0	4293.2	7073.3	6205.9	4811.3
85°	3704.4	2341.7	1883.0	2360.0	3804.9	7004.9	4122.1	2538.0
87.5°	2086.1	1111.5	502.2	931.2	1517.9	4638.0	1191.4	324.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)