

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: P191329

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191329
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-01-LED-E1-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5603.7 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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

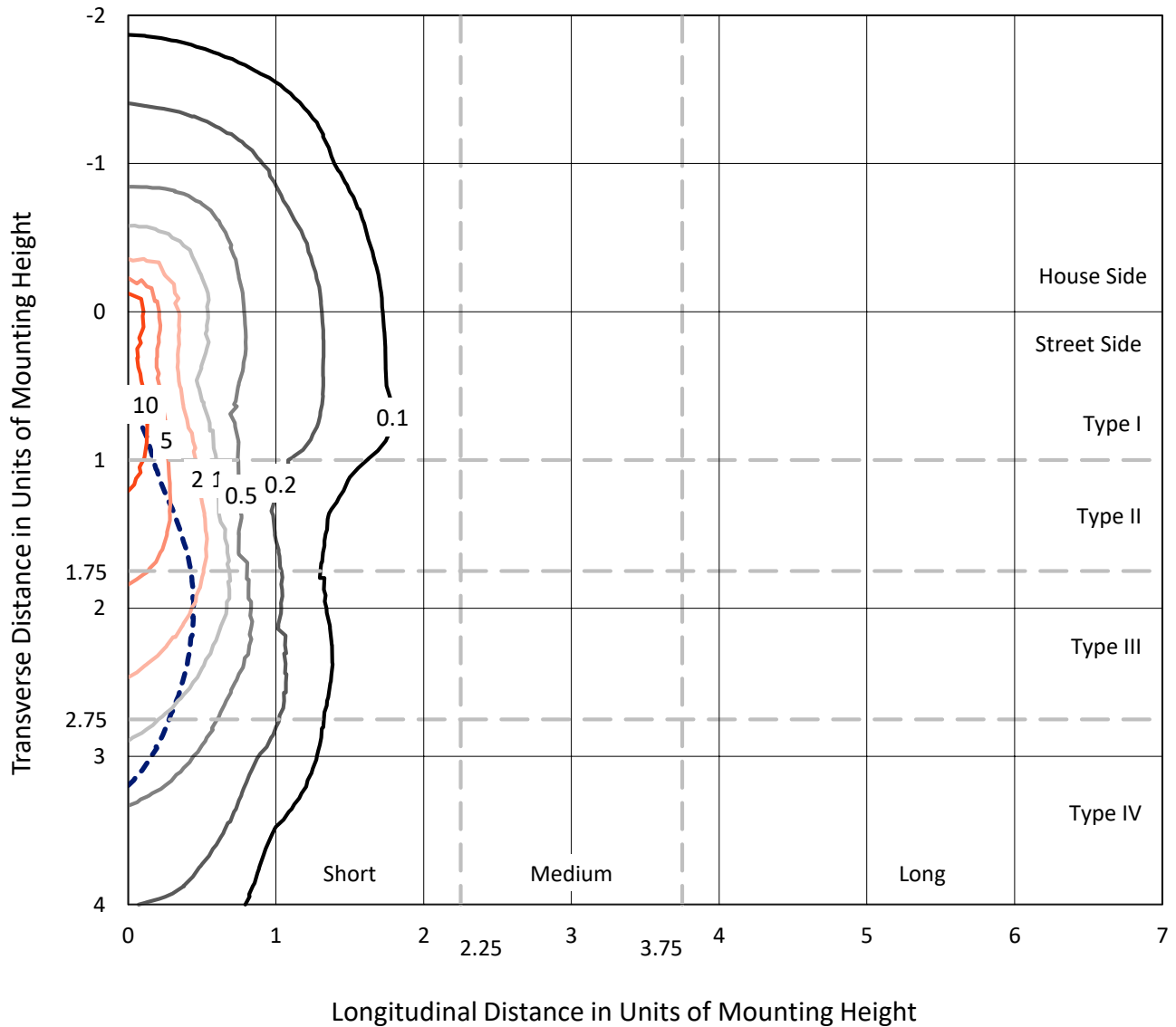


REPORT NUMBER: P191329

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

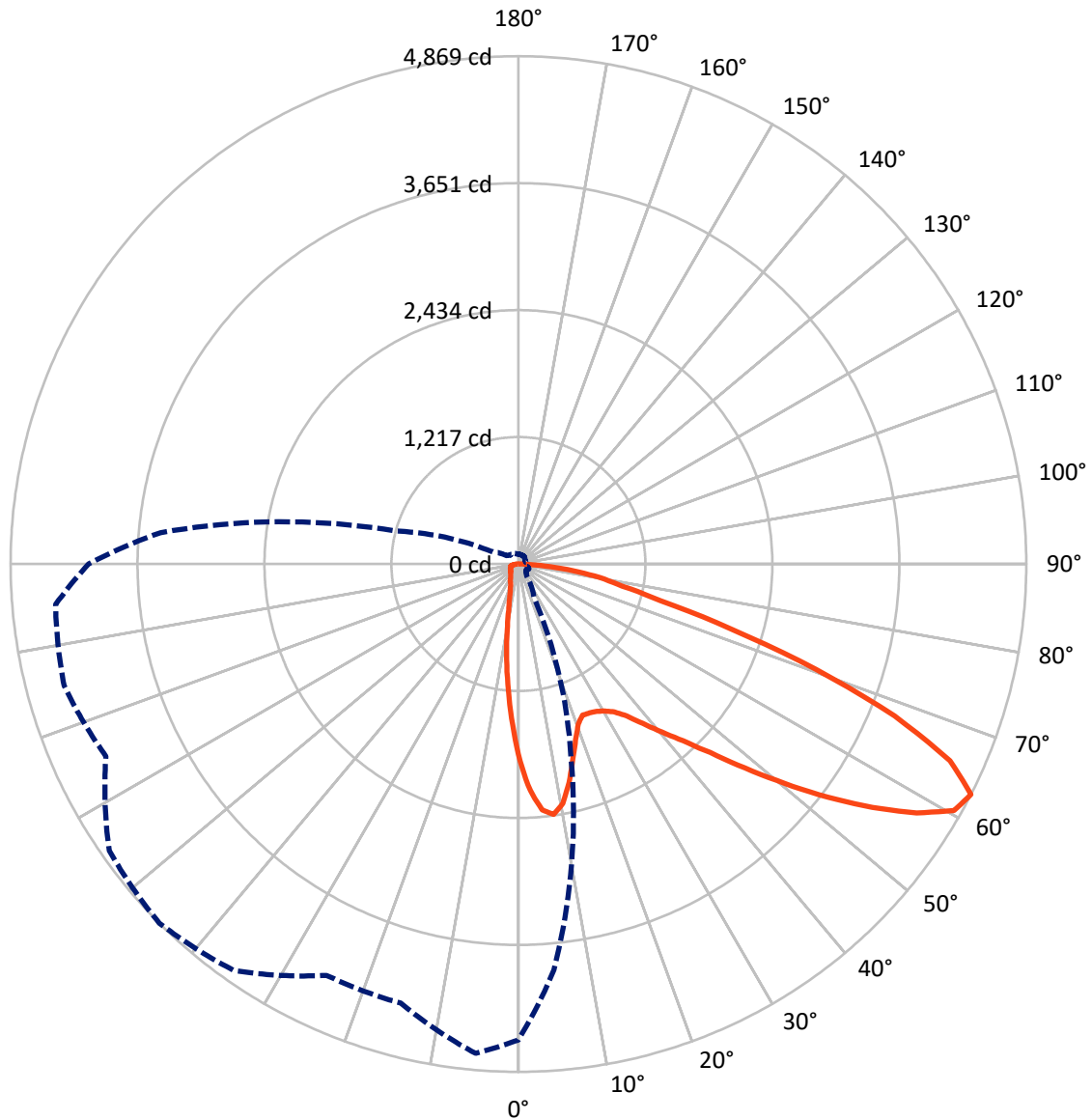


Based on 10 foot mounting height. Maximum calculated value = 18.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191329

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191329

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	927.3	0.0	927.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4676.4	0.0	4676.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	5603.7	0.0	5603.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	2.5
10°-20°	252.7	4.5
20°-30°	368.5	6.6
30°-40°	567.5	10.1
40°-50°	835.2	14.9
50°-60°	1225.1	21.9
60°-70°	1369.4	24.4
70°-80°	670.5	12.0
80°-90°	177.0	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°	5603.7	100.0
0°-180°	5603.7	100.0



REPORT NUMBER: P191329

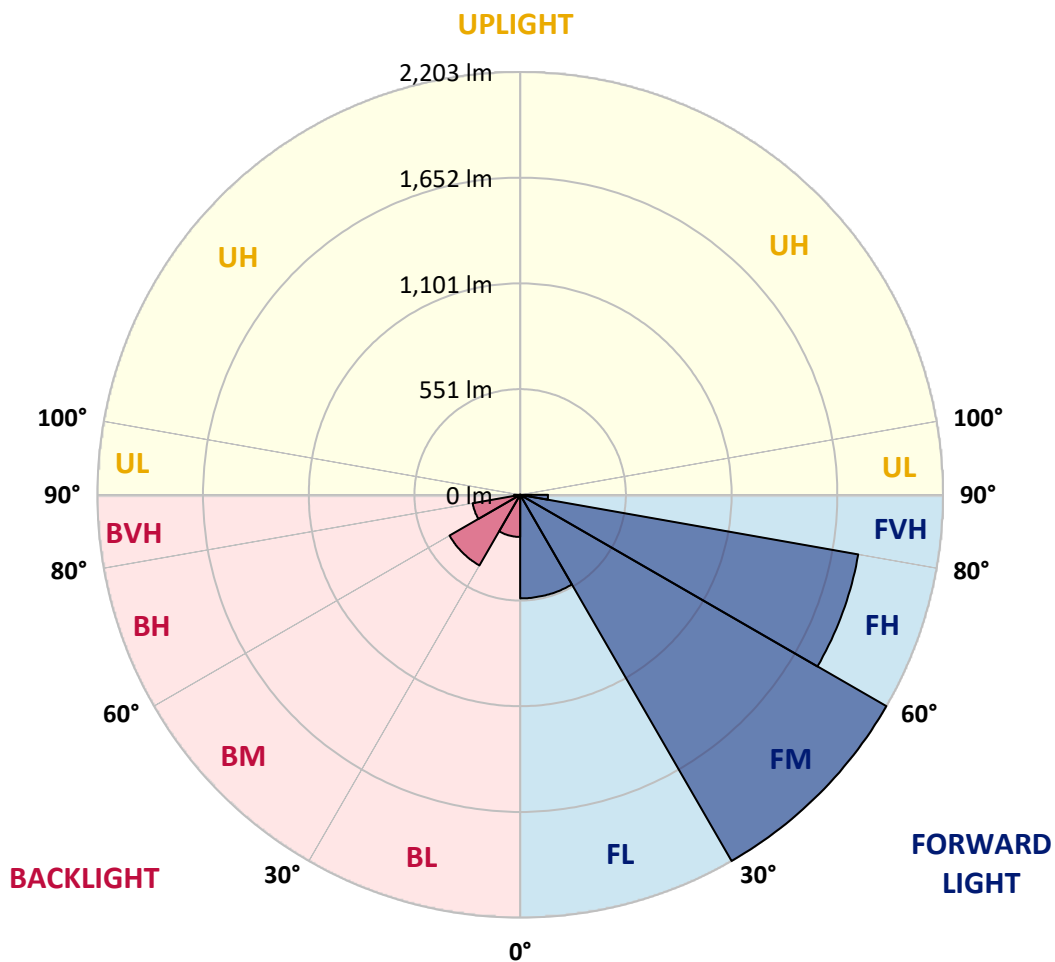
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.6	9.6			
FM	(30°-60°)	2202.9	39.3			
FH	(60°-80°)	1788.5	31.9			G1/1800
FVH	(80°-90°)	145.4	2.6			G2/225
BL	(0°-30°)	219.4	3.9	B1/500		
BM	(30°-60°)	424.9	7.6	B1/1000		
BH	(60°-80°)	251.4	4.5	B1/500		G1/500
BVH	(80°-90°)	31.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P191329

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	1967.1	1927.1	1860.5	1791.3	1749.0	1699.8	1661.3	1627.4	1559.6	1546.4	1558.4
5°	1849.8	1769.4	1644.0	1517.8	1433.7	1343.3	1273.2	1216.8	1130.9	1115.7	1133.9
7.5°	1661.6	1565.5	1399.7	1238.7	1119.7	1007.0	931.2	870.8	803.7	774.7	776.6
10°	1499.2	1390.8	1194.9	1019.7	922.3	846.2	782.5	720.6	652.4	607.7	595.5
12.5°	1408.4	1283.6	1057.8	901.3	811.1	731.0	662.3	596.1	523.3	477.8	464.8
15°	1392.6	1257.1	1006.4	825.5	712.5	611.1	530.1	456.2	381.4	344.4	336.7
17.5°	1460.8	1304.6	989.7	758.1	619.8	494.7	395.3	312.7	251.6	233.2	231.7
20°	1591.4	1395.7	987.6	694.7	528.3	381.7	275.4	215.3	188.5	183.3	183.6
22.5°	1774.6	1537.2	1014.1	646.9	444.2	284.6	207.0	180.2	169.7	164.8	164.8
25°	2011.8	1731.9	1075.1	612.1	371.2	227.3	182.7	166.6	156.8	153.4	154.1
27.5°	2241.6	1921.3	1145.9	584.7	323.5	206.4	173.1	158.7	150.1	146.6	148.1
30°	2420.9	2089.5	1205.0	547.4	299.1	200.5	176.5	161.7	149.4	144.1	144.4
32.5°	2569.4	2236.7	1254.6	520.6	277.5	171.9	152.2	145.7	144.1	138.0	134.9
35°	2759.1	2397.2	1287.9	521.2	267.4	153.4	135.5	124.2	115.8	108.7	108.7
37.5°	2981.6	2581.4	1323.4	528.3	263.7	142.6	129.7	118.3	110.6	103.8	102.6
40°	3201.5	2762.0	1355.7	535.1	261.6	136.2	125.1	114.6	107.5	100.8	98.9
42.5°	3388.5	2910.4	1384.7	538.5	254.1	135.5	121.6	112.1	105.4	98.0	96.2
45°	3526.8	3034.9	1415.8	543.7	246.7	138.0	121.6	111.8	103.5	96.5	94.5
47.5°	3650.3	3180.9	1467.8	543.7	237.8	133.4	125.7	112.1	103.2	95.9	94.2
50°	3815.7	3381.1	1566.4	531.1	225.2	128.5	132.5	110.9	100.5	94.5	92.7
52.5°	4043.7	3637.7	1722.9	509.2	205.8	118.9	131.6	110.3	97.7	91.5	89.3
55°	4313.3	3912.5	1893.6	483.7	176.9	112.1	126.9	108.7	94.5	87.8	85.6
57.5°	4523.6	4101.6	2013.7	444.2	151.6	108.4	112.4	107.2	90.8	83.8	81.9
60°	4607.4	4094.3	2046.6	391.5	139.2	105.4	98.3	120.1	87.8	80.7	78.6
62.5°	4562.2	3905.1	1954.2	354.6	136.5	101.4	92.1	111.2	85.3	78.6	75.5
65°	4353.0	3569.9	1709.4	344.7	144.4	97.4	88.1	87.2	81.9	75.5	72.4
67.5°	3897.3	3069.1	1368.6	345.7	154.7	93.3	84.1	79.8	77.3	72.1	69.4
70°	3174.4	2426.4	1020.3	348.1	159.9	88.7	79.8	75.2	72.4	67.1	65.3
72.5°	2334.1	1870.2	741.1	332.0	160.8	83.5	74.0	70.0	67.1	61.6	60.0
75°	1596.9	1430.6	514.1	275.1	140.1	76.1	67.4	63.7	61.9	55.1	54.2
77.5°	1166.6	1073.8	329.0	204.3	108.1	66.8	59.4	56.7	55.4	48.1	46.9
80°	936.1	849.6	205.8	139.8	79.2	56.1	49.9	48.4	47.2	39.7	38.8
82.5°	649.4	569.0	132.2	90.8	59.4	43.5	39.4	38.8	36.9	30.2	29.3
85°	342.6	308.9	83.8	61.9	43.2	29.9	27.4	27.4	26.5	20.0	19.4
87.5°	43.8	71.2	42.6	32.3	23.7	13.2	13.2	12.9	13.9	11.4	9.8
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: P191329

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	1530.0	1544.9	1530.6	1531.6	1547.3	1594.2	1615.3	1632.9	1651.8	1664.0	1669.6
5°	1109.0	1143.5	1155.1	1179.8	1216.2	1275.9	1299.7	1316.8	1328.3	1335.1	1337.8
7.5°	758.4	779.4	802.8	842.5	921.7	956.8	972.5	968.5	955.5	950.9	946.3
10°	571.7	563.4	559.1	580.9	645.1	680.5	691.5	680.8	673.7	675.2	682.9
12.5°	442.9	428.5	410.9	408.5	450.7	482.4	489.5	490.1	503.1	514.4	531.4
15°	322.8	321.3	312.7	307.4	331.4	357.3	360.4	365.9	377.7	386.0	400.8
17.5°	227.6	236.0	242.7	246.1	264.3	282.7	279.4	276.6	274.5	274.5	281.5
20°	183.6	189.1	197.7	207.7	226.1	239.1	230.7	219.6	211.6	209.2	210.1
22.5°	165.4	169.7	174.6	183.3	199.9	208.9	199.9	191.9	183.9	181.2	180.2
25°	156.2	161.7	166.3	172.8	185.2	191.3	182.7	176.9	171.9	168.5	166.0
27.5°	151.0	155.9	157.1	160.2	170.6	176.2	171.9	169.4	166.3	163.3	160.2
30°	145.4	144.4	142.3	142.6	151.0	156.5	156.2	156.8	156.5	155.6	155.0
32.5°	132.8	130.9	129.1	130.9	138.6	143.5	143.8	145.1	145.1	144.7	147.2
35°	110.6	114.0	116.1	121.6	130.9	135.2	133.4	130.3	124.8	121.3	121.0
37.5°	102.3	102.9	106.6	114.3	124.5	128.5	125.7	118.6	114.9	114.3	115.2
40°	98.3	98.9	101.1	108.1	118.3	122.2	119.8	114.6	111.2	110.9	112.4
42.5°	95.5	96.2	97.4	102.3	110.6	115.5	115.8	112.1	108.1	108.4	110.0
45°	93.9	94.2	93.9	96.5	104.1	110.0	112.4	110.0	106.6	107.2	109.0
47.5°	93.6	92.7	91.5	92.1	100.1	106.0	109.0	108.1	106.6	107.2	108.7
50°	92.4	90.2	88.7	88.4	96.5	102.6	105.4	105.4	106.0	107.2	108.7
52.5°	88.7	86.2	86.2	85.3	93.9	99.8	101.7	102.0	102.9	105.1	107.2
55°	84.1	83.2	84.1	82.6	92.1	97.7	98.6	99.2	99.8	101.7	104.8
57.5°	80.1	78.9	81.0	80.4	90.5	95.5	95.5	96.8	96.8	99.2	101.7
60°	77.9	75.5	76.4	77.0	88.4	93.6	93.0	94.2	94.8	97.1	98.9
62.5°	75.2	73.0	73.0	74.6	85.9	90.8	90.5	91.5	93.9	94.5	96.5
65°	71.8	70.9	70.0	71.8	83.5	87.8	88.1	89.3	91.5	92.1	93.6
67.5°	68.4	68.7	66.8	68.7	81.3	84.7	84.7	87.2	88.1	89.3	90.8
70°	64.7	65.0	63.4	65.6	79.8	81.3	81.0	84.4	85.0	85.9	87.5
72.5°	60.0	60.0	59.4	62.5	77.3	77.9	77.3	80.1	80.4	81.3	81.9
75°	55.1	55.1	54.5	58.8	75.8	74.3	72.4	74.6	75.2	75.8	75.8
77.5°	48.7	49.3	49.3	54.5	70.6	72.7	66.5	67.7	68.7	69.0	68.1
80°	40.6	42.2	42.9	49.6	59.1	67.1	59.4	60.4	60.7	60.7	59.4
82.5°	31.1	33.9	35.4	42.9	45.3	56.4	51.8	52.7	51.8	49.9	49.3
85°	21.6	25.3	27.1	32.6	34.2	43.5	43.2	43.2	41.3	38.8	38.5
87.5°	11.7	13.9	15.1	19.4	23.4	29.3	31.7	30.8	29.3	27.7	28.0
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: P191329

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	1698.5	1740.4	1807.2	1858.4	1909.8	1959.5	2013.1	2054.1	2088.9	2102.4	2143.7
5°	1365.8	1418.2	1481.3	1595.4	1676.1	1765.1	1868.0	2004.2	2056.5	2128.9	2247.5
7.5°	965.8	1013.1	1114.8	1206.9	1321.2	1447.2	1586.1	1774.0	1842.7	1958.8	2152.0
10°	721.2	776.3	857.9	935.5	1036.2	1165.0	1324.6	1534.6	1618.2	1744.1	1966.5
12.5°	580.9	646.0	732.5	805.6	883.4	974.4	1129.3	1359.7	1471.5	1581.8	1806.6
15°	446.3	514.4	594.8	687.5	773.5	871.5	1033.8	1285.7	1414.5	1529.4	1721.3
17.5°	308.9	367.2	468.5	565.3	675.2	800.6	1007.3	1301.5	1455.2	1587.6	1736.2
20°	219.0	252.3	335.4	447.5	584.7	742.0	1002.4	1384.1	1583.9	1735.2	1831.0
22.5°	184.2	196.5	244.9	347.8	506.2	698.4	1019.7	1499.9	1757.7	1950.9	1982.3
25°	167.9	175.2	200.5	272.9	436.2	666.7	1077.9	1672.4	1972.8	2166.5	2160.9
27.5°	159.0	166.6	183.3	230.4	383.5	646.9	1136.1	1876.9	2218.6	2400.6	2331.6
30°	156.2	166.6	184.2	217.2	346.0	615.8	1183.9	2056.5	2407.7	2558.6	2409.3
32.5°	154.1	155.6	163.6	187.3	310.2	579.4	1216.2	2217.7	2592.8	2709.0	2521.1
35°	124.5	132.2	145.1	167.9	289.3	557.6	1216.2	2356.6	2775.2	2860.8	2627.7
37.5°	119.8	126.6	138.0	157.4	277.5	546.8	1191.8	2490.6	2961.5	3033.0	2715.4
40°	117.3	123.0	133.7	149.4	272.6	534.5	1156.4	2608.8	3143.6	3205.5	2797.4
42.5°	115.5	120.4	130.6	144.4	266.2	520.9	1127.7	2703.7	3301.6	3352.7	2875.6
45°	114.6	119.8	130.9	146.9	253.2	503.1	1118.2	2806.3	3431.6	3475.7	2960.3
47.5°	114.6	120.7	132.5	152.2	237.8	484.6	1148.1	2941.5	3554.5	3576.1	3060.2
50°	113.6	120.4	136.8	146.9	215.3	461.1	1218.3	3111.8	3687.6	3690.1	3186.4
52.5°	111.8	119.8	147.2	143.8	189.5	430.4	1313.2	3330.6	3884.5	3899.2	3384.1
55°	109.7	118.9	144.4	136.8	168.2	393.6	1390.8	3596.4	4161.1	4202.1	3675.0
57.5°	106.9	117.6	139.8	126.9	154.4	346.6	1418.8	3791.1	4354.2	4457.1	4002.7
60°	104.4	116.7	126.3	121.0	145.7	306.8	1364.6	3752.6	4341.0	4562.8	4293.2
62.5°	102.0	117.6	115.2	117.3	141.7	281.2	1222.9	3444.3	4121.4	4453.7	4508.6
65°	99.2	109.4	108.7	114.3	140.8	271.1	1013.7	2981.9	3696.8	4109.0	4559.4
67.5°	95.5	101.1	104.1	110.3	143.8	262.2	818.2	2459.7	3106.9	3592.4	4294.4
70°	91.5	96.2	99.5	105.4	142.0	258.1	680.5	1939.7	2465.3	2944.3	3771.7
72.5°	86.2	90.2	93.3	98.9	140.1	255.9	574.8	1562.0	1840.6	2187.1	3066.6
75°	80.1	83.8	85.9	91.5	134.3	234.5	451.9	1321.9	1377.3	1521.4	2442.5
77.5°	73.0	75.8	77.6	83.8	118.9	195.0	326.8	1019.7	1069.5	1104.7	1872.6
80°	64.7	67.4	68.4	74.3	98.6	152.5	213.2	753.2	799.9	808.0	1222.9
82.5°	55.1	57.9	57.9	63.4	80.7	109.7	139.8	516.0	525.2	552.3	864.4
85°	44.4	46.5	46.5	49.3	62.5	81.9	96.2	259.1	256.2	292.7	748.9
87.5°	31.7	33.2	34.8	35.4	44.7	54.2	57.9	78.9	52.1	59.7	480.9
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: P191329

CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	2174.8	2192.4	2174.5	2161.6	2105.7	2059.9	1998.6	1967.1
5°	2337.7	2382.5	2367.3	2313.1	2196.7	2065.7	1917.0	1849.8
7.5°	2318.0	2421.8	2424.3	2322.9	2151.4	1958.5	1757.1	1661.6
10°	2164.7	2297.3	2335.3	2237.0	2055.0	1839.4	1608.3	1499.2
12.5°	1993.3	2123.3	2152.3	2118.4	1966.2	1749.7	1515.3	1408.4
15°	1853.2	1911.4	1946.0	1975.5	1890.2	1714.0	1510.1	1392.6
17.5°	1767.9	1761.4	1771.2	1822.7	1837.2	1755.0	1590.1	1460.8
20°	1737.1	1638.2	1635.7	1706.6	1812.3	1852.6	1746.6	1591.4
22.5°	1754.1	1593.9	1573.5	1657.6	1825.5	1993.3	1951.8	1774.6
25°	1812.6	1597.5	1581.2	1662.5	1873.5	2143.4	2173.3	2011.8
27.5°	1904.6	1621.0	1599.4	1682.9	1937.3	2269.3	2391.4	2241.6
30°	1992.1	1661.6	1634.8	1722.9	1995.5	2319.2	2525.1	2420.9
32.5°	2098.4	1737.7	1690.5	1796.5	2067.6	2398.7	2644.2	2569.4
35°	2202.5	1846.1	1787.6	1910.2	2148.0	2497.6	2780.4	2759.1
37.5°	2316.8	1987.8	1939.4	2057.2	2258.0	2590.9	2954.2	2981.6
40°	2438.8	2175.7	2118.4	2271.6	2428.6	2708.1	3135.5	3201.5
42.5°	2561.7	2384.3	2315.9	2471.1	2616.2	2823.5	3290.8	3388.5
45°	2702.4	2610.7	2578.3	2746.2	2796.4	2933.5	3405.4	3526.8
47.5°	2866.3	2867.5	2919.6	2986.8	2978.2	3057.9	3520.6	3650.3
50°	3057.6	3188.2	3303.1	3347.8	3165.4	3191.6	3680.5	3815.7
52.5°	3287.5	3571.7	3714.1	3684.9	3367.2	3354.9	3933.8	4043.7
55°	3574.8	3977.7	4119.2	4098.2	3599.2	3577.4	4249.1	4313.3
57.5°	3907.6	4371.2	4501.2	4406.9	3877.7	3821.3	4510.1	4523.6
60°	4199.8	4682.9	4796.8	4692.5	4158.6	4081.0	4673.0	4607.4
62.5°	4362.5	4788.5	4868.6	4756.2	4351.1	4357.6	4708.7	4562.2
65°	4289.8	4521.4	4547.3	4538.1	4301.5	4518.1	4580.3	4353.0
67.5°	3891.8	3846.2	3889.7	3949.7	3876.5	4306.7	4224.5	3897.3
70°	3190.7	2940.3	3026.8	3067.2	3100.5	3706.0	3666.7	3174.4
72.5°	2404.5	2059.9	2128.2	2120.0	2274.0	2972.6	2851.6	2334.1
75°	1703.8	1396.6	1405.3	1402.0	1586.7	2325.8	2064.8	1596.9
77.5°	1192.1	1011.9	1016.5	1035.6	1066.7	1754.1	1475.2	1166.6
80°	819.7	767.9	793.5	795.0	739.3	1178.2	1089.9	936.1
82.5°	610.5	533.9	527.6	536.6	579.4	954.6	837.6	649.4
85°	499.9	316.1	254.1	318.5	513.5	945.4	556.3	342.6
87.5°	281.5	150.1	67.7	125.7	204.9	625.9	160.8	43.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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