

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: P193888

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193888
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 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: 46347 lumens
Efficiency: N/A
Efficacy: 72.4 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): 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

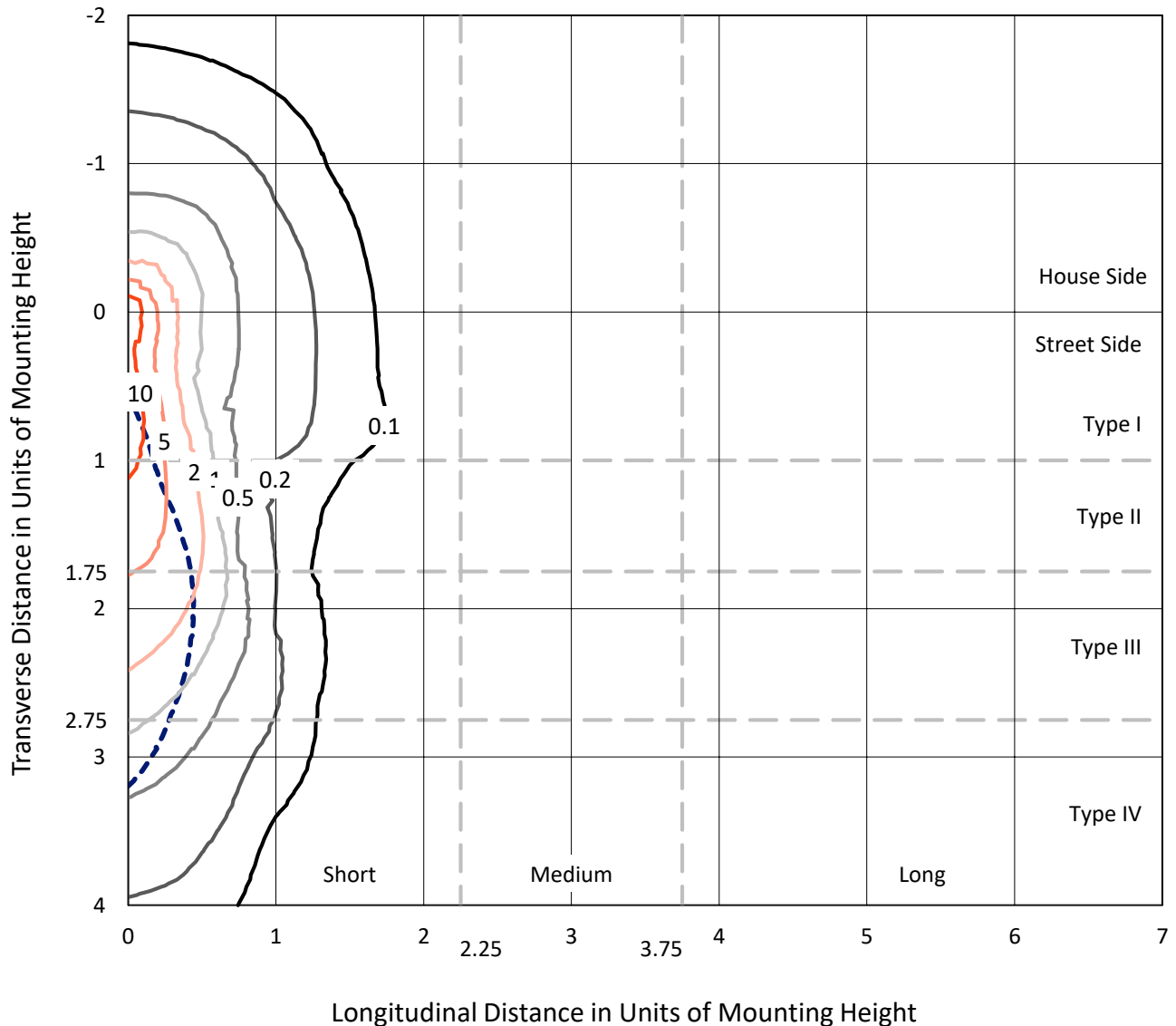


REPORT NUMBER: P193888

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

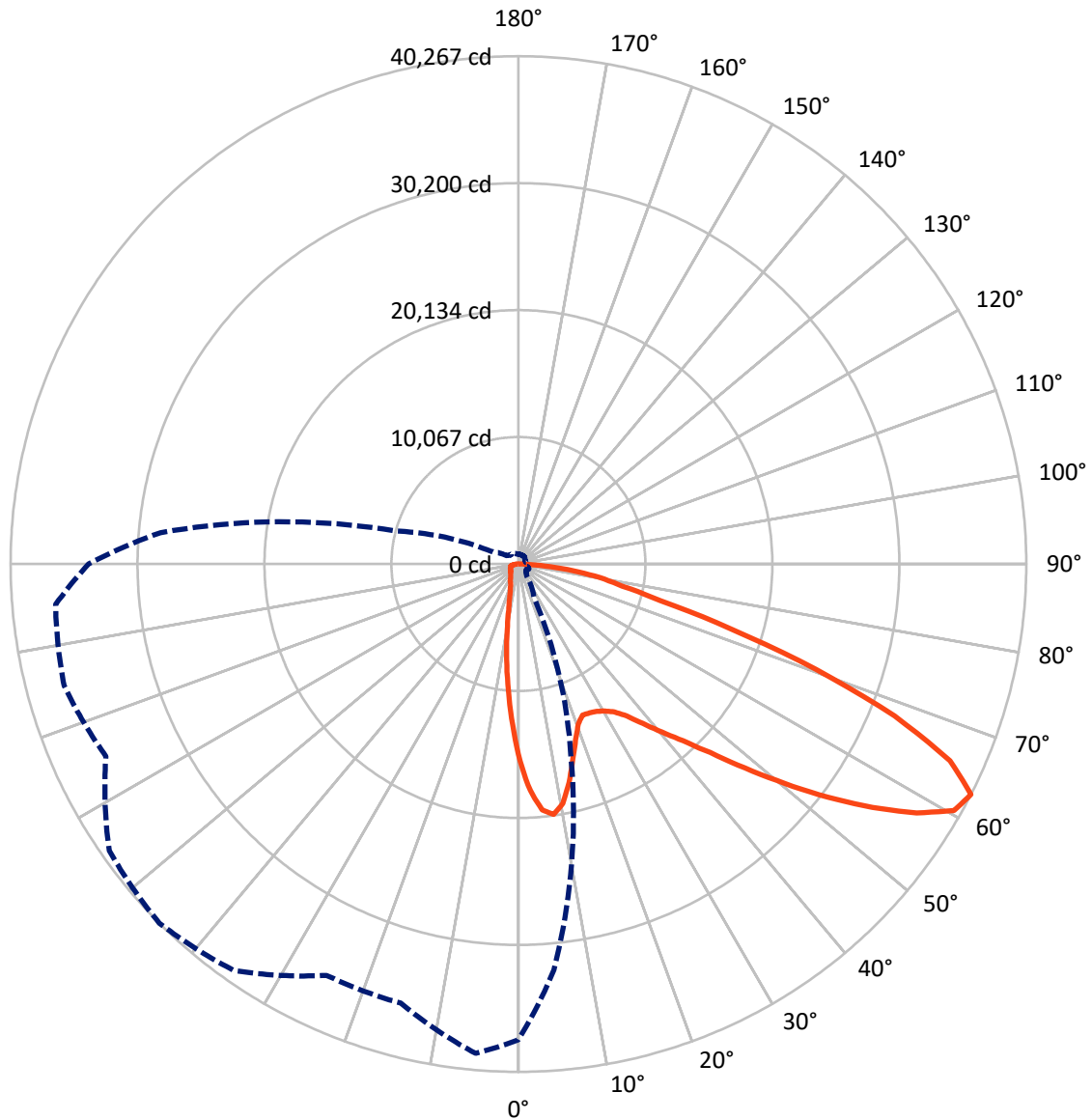


Based on 30 foot mounting height. Maximum calculated value = 17.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193888

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193888

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7669.8	0.0	7669.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	38677.2	0.0	38677.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	46347.0	0.0	46347.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1139.9	2.5
10°-20°	2090.2	4.5
20°-30°	3047.5	6.6
30°-40°	4693.6	10.1
40°-50°	6907.8	14.9
50°-60°	10132.3	21.9
60°-70°	11326.4	24.4
70°-80°	5545.3	12.0
80°-90°	1464.1	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°	46347.0	100.0
0°-180°	46347.0	100.0



REPORT NUMBER: P193888

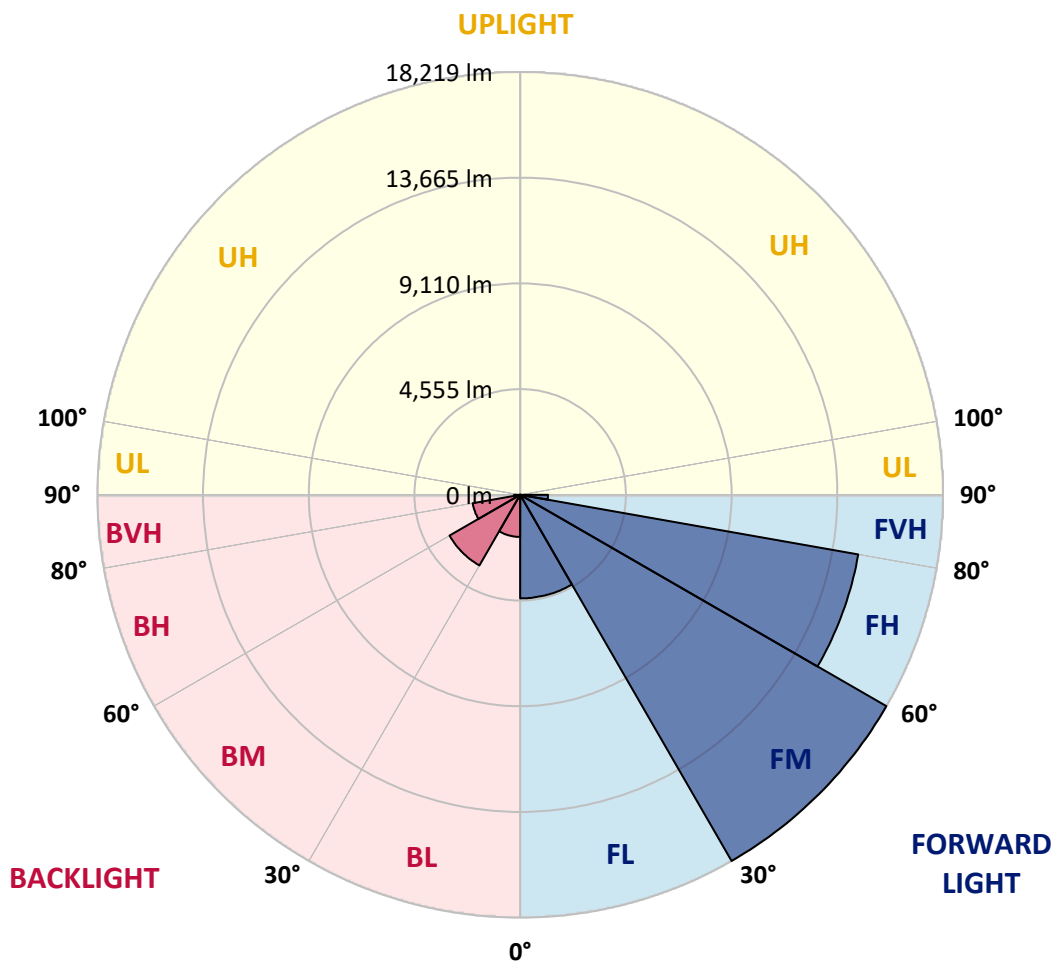
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4463.1	9.6			
FM (30°-60°)	18219.4	39.3			
FH (60°-80°)	14792.4	31.9			G5
FVH (80°-90°)	1202.4	2.6			G5
BL (0°-30°)	1814.5	3.9	B3/2500		
BM (30°-60°)	3514.2	7.6	B3/5000		
BH (60°-80°)	2079.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	261.7	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: P193888

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5
2.5°	16270.0	15938.8	15388.5	14815.2	14466.2	14058.5	13740.1	13459.8	12899.3	12789.7	12889.1
5°	15299.3	14634.3	13597.4	12552.8	11857.3	11110.8	10529.9	10063.6	9352.8	9228.0	9378.3
7.5°	13742.6	12947.7	11577.0	10244.5	9261.1	8328.6	7701.9	7202.5	6647.1	6407.6	6422.9
10°	12399.9	11503.1	9882.7	8433.1	7628.0	6998.7	6471.3	5959.2	5396.1	5026.7	4924.8
12.5°	11648.3	10616.5	8749.0	7454.7	6708.2	6045.8	5477.7	4929.9	4328.6	3951.6	3844.6
15°	11518.4	10397.4	8323.5	6828.0	5893.0	5054.7	4384.7	3773.2	3154.1	2848.4	2784.7
17.5°	12081.5	10789.7	8185.9	6270.0	5126.1	4091.7	3268.8	2586.0	2081.5	1928.7	1915.9
20°	13161.7	11543.9	8168.1	5745.2	4369.4	3156.7	2277.7	1780.9	1559.2	1515.9	1518.5
22.5°	14677.6	12713.3	8387.2	5350.3	3673.9	2354.1	1712.1	1490.4	1403.8	1363.0	1363.0
25°	16639.4	14323.5	8891.7	5062.4	3070.0	1880.2	1510.8	1378.3	1296.8	1268.8	1273.9
27.5°	18540.0	15890.4	9477.7	4835.6	2675.1	1707.0	1431.8	1312.1	1240.8	1212.7	1225.5
30°	20022.8	17281.4	9966.8	4527.4	2473.9	1658.6	1459.9	1337.6	1235.7	1192.4	1194.9
32.5°	21250.8	18499.3	10377.0	4305.7	2295.5	1421.6	1258.6	1205.1	1192.4	1141.4	1115.9
35°	22820.3	19826.6	10652.2	4310.8	2211.5	1268.8	1121.0	1026.7	958.0	899.4	899.4
37.5°	24659.7	21350.2	10945.2	4369.4	2180.9	1179.6	1072.6	978.3	914.6	858.6	848.4
40°	26478.8	22843.2	11212.7	4425.5	2163.0	1126.1	1034.4	947.8	889.2	833.1	817.8
42.5°	28025.3	24071.2	11452.2	4453.5	2101.9	1121.0	1006.4	927.4	871.3	810.2	794.9
45°	29169.3	25100.5	11709.5	4496.8	2040.8	1141.4	1006.4	924.8	856.0	797.4	782.2
47.5°	30190.9	26308.1	12140.1	4496.8	1966.9	1103.2	1039.5	927.4	853.5	792.4	779.6
50°	31559.1	27964.2	12955.3	4392.3	1862.4	1062.4	1095.5	917.2	830.6	782.2	766.9
52.5°	33444.4	30086.5	14249.6	4211.4	1701.9	983.4	1087.9	912.1	807.6	756.7	738.8
55°	35673.7	32359.1	15661.1	4000.0	1462.4	927.4	1049.7	899.4	782.2	726.1	708.3
57.5°	37413.8	33923.4	16654.7	3673.9	1253.5	896.8	929.9	886.6	751.6	693.0	677.7
60°	38106.8	33862.2	16927.3	3238.2	1151.6	871.3	812.7	993.6	726.1	667.5	649.7
62.5°	37732.3	32297.9	16163.0	2932.5	1128.7	838.2	761.8	919.7	705.7	649.7	624.2
65°	36002.4	29526.0	14137.5	2850.9	1194.9	805.1	728.7	721.0	677.7	624.2	598.7
67.5°	32234.2	25383.3	11319.7	2858.6	1279.0	772.0	695.5	659.9	639.5	596.2	573.2
70°	26254.6	20068.7	8438.2	2879.0	1322.3	733.8	659.9	621.7	598.7	555.4	540.1
72.5°	19304.4	15467.4	6129.9	2746.5	1329.9	690.4	611.5	578.3	555.4	509.6	496.8
75°	13207.6	11831.8	4252.2	2275.1	1159.2	629.3	558.0	527.4	512.1	456.0	448.4
77.5°	9648.4	8881.5	2721.0	1689.2	894.3	552.9	491.7	468.8	458.6	397.5	387.3
80°	7742.6	7026.7	1701.9	1156.7	654.8	463.7	412.7	400.0	389.8	328.7	321.0
82.5°	5370.7	4705.7	1093.0	751.6	491.7	359.2	326.1	321.0	305.7	249.7	242.0
85°	2833.1	2555.4	693.0	512.1	356.7	247.1	226.8	226.8	219.1	165.6	160.5
87.5°	361.8	588.5	351.6	267.5	196.2	109.6	109.6	107.0	114.6	94.3	81.5
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: P193888

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5
2.5°	12654.7	12777.0	12659.8	12667.4	12797.4	13184.6	13360.4	13505.7	13661.1	13763.0	13808.8
5°	9171.9	9457.3	9554.1	9757.9	10058.5	10552.8	10749.0	10891.7	10985.9	11042.0	11064.9
7.5°	6272.6	6445.8	6639.5	6968.1	7622.9	7913.3	8043.3	8010.1	7903.1	7864.9	7826.7
10°	4728.6	4659.8	4624.2	4805.1	5335.0	5628.0	5719.7	5630.5	5571.9	5584.7	5648.4
12.5°	3663.7	3543.9	3398.7	3378.3	3727.4	3989.8	4048.4	4053.5	4160.5	4254.8	4394.9
15°	2670.0	2657.3	2586.0	2542.7	2741.4	2955.4	2980.9	3026.7	3123.5	3192.3	3314.6
17.5°	1882.8	1951.6	2007.6	2035.7	2186.0	2338.8	2310.8	2287.9	2270.1	2270.1	2328.6
20°	1518.5	1564.3	1635.7	1717.2	1870.1	1977.1	1908.3	1816.6	1750.3	1729.9	1737.6
22.5°	1368.1	1403.8	1444.6	1515.9	1653.5	1727.4	1653.5	1587.3	1521.0	1498.1	1490.4
25°	1291.7	1337.6	1375.8	1429.3	1531.2	1582.2	1510.8	1462.4	1421.6	1393.6	1373.2
27.5°	1248.4	1289.2	1299.4	1324.8	1411.5	1457.3	1421.6	1401.3	1375.8	1350.3	1324.8
30°	1202.5	1194.9	1177.1	1179.6	1248.4	1294.3	1291.7	1296.8	1294.3	1286.6	1281.5
32.5°	1098.1	1082.8	1067.5	1082.8	1146.5	1187.3	1189.8	1200.0	1200.0	1197.4	1217.8
35°	914.6	942.7	960.5	1006.4	1082.8	1118.5	1103.2	1077.7	1031.8	1003.8	1001.3
37.5°	845.9	851.0	881.5	945.2	1029.3	1062.4	1039.5	980.9	950.3	945.2	952.9
40°	812.7	817.8	835.7	894.3	978.3	1011.5	991.1	947.8	919.7	917.2	929.9
42.5°	789.8	794.9	805.1	845.9	914.6	955.4	958.0	927.4	894.3	896.8	909.5
45°	777.1	779.6	777.1	797.4	861.1	909.5	929.9	909.5	881.5	886.6	901.9
47.5°	774.5	766.9	756.7	761.8	828.0	876.4	901.9	894.3	881.5	886.6	899.4
50°	764.3	746.5	733.8	731.2	797.4	848.4	871.3	871.3	876.4	886.6	899.4
52.5°	733.8	713.4	713.4	705.7	777.1	825.5	840.8	843.3	851.0	868.8	886.6
55°	695.5	687.9	695.5	682.8	761.8	807.6	815.3	820.4	825.5	840.8	866.2
57.5°	662.4	652.2	670.1	665.0	749.0	789.8	789.8	800.0	800.0	820.4	840.8
60°	644.6	624.2	631.8	636.9	731.2	774.5	769.4	779.6	784.7	802.5	817.8
62.5°	621.7	603.8	603.8	616.6	710.8	751.6	749.0	756.7	777.1	782.2	797.4
65°	593.6	586.0	578.3	593.6	690.4	726.1	728.7	738.8	756.7	761.8	774.5
67.5°	565.6	568.1	552.9	568.1	672.6	700.6	700.6	721.0	728.7	738.8	751.6
70°	535.0	537.6	524.8	542.7	659.9	672.6	670.1	698.1	703.2	710.8	723.6
72.5°	496.8	496.8	491.7	517.2	639.5	644.6	639.5	662.4	665.0	672.6	677.7
75°	456.0	456.0	451.0	486.6	626.7	614.0	598.7	616.6	621.7	626.7	626.7
77.5°	402.5	407.6	407.6	451.0	583.4	601.3	550.3	560.5	568.1	570.7	563.1
80°	336.3	349.0	354.1	410.2	489.2	555.4	491.7	499.4	501.9	501.9	491.7
82.5°	257.3	280.3	293.0	354.1	374.5	466.2	428.0	435.7	428.0	412.7	407.6
85°	178.3	208.9	224.2	270.1	282.8	359.2	356.7	356.7	341.4	321.0	318.5
87.5°	96.8	114.6	124.8	160.5	193.6	242.0	262.4	254.8	242.0	229.3	231.8
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: P193888

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5
2.5°	14048.3	14394.8	14947.7	15370.6	15796.1	16206.3	16649.6	16988.4	17276.3	17388.4	17729.8
5°	11296.8	11729.9	12252.2	13194.8	13862.3	14598.6	15449.6	16575.7	17008.8	17607.5	18588.4
7.5°	7987.2	8379.6	9220.3	9982.1	10927.3	11969.4	13118.4	14672.5	15240.7	16201.2	17798.6
10°	5964.3	6420.3	7095.5	7737.5	8570.7	9635.6	10955.4	12692.9	13383.4	14425.4	16264.9
12.5°	4805.1	5342.6	6058.6	6662.4	7307.0	8058.6	9340.1	11245.8	12170.6	13082.7	14942.6
15°	3691.7	4254.8	4919.7	5686.6	6397.4	7207.6	8550.3	10634.3	11699.3	12649.6	14236.9
17.5°	2555.4	3036.9	3875.1	4675.1	5584.7	6621.6	8331.2	10764.3	12035.6	13131.1	14359.2
20°	1811.5	2086.6	2774.5	3701.9	4835.6	6137.5	8290.4	11447.1	13100.6	14351.5	15143.9
22.5°	1523.6	1625.5	2025.5	2876.4	4186.0	5775.8	8433.1	12405.0	14537.5	16134.9	16394.8
25°	1388.5	1449.7	1658.6	2257.3	3607.6	5513.3	8914.6	13831.8	16315.8	17918.4	17872.5
27.5°	1314.6	1378.3	1515.9	1905.7	3172.0	5350.3	9396.1	15523.5	18348.9	19854.7	19284.0
30°	1291.7	1378.3	1523.6	1796.2	2861.1	5093.0	9791.0	17008.8	19913.3	21161.7	19926.0
32.5°	1273.9	1286.6	1352.9	1549.0	2565.6	4792.3	10058.5	18341.3	21444.5	22405.0	20850.8
35°	1029.3	1093.0	1200.0	1388.5	2392.3	4611.4	10058.5	19490.3	22952.7	23661.0	21732.4
37.5°	991.1	1047.1	1141.4	1301.9	2295.5	4522.3	9857.3	20598.6	24494.1	25085.2	22458.5
40°	970.7	1016.6	1105.7	1235.7	2254.8	4420.4	9564.3	21577.0	25999.9	26512.0	23136.2
42.5°	955.4	996.2	1080.2	1194.9	2201.3	4308.3	9327.3	22361.7	27306.9	27729.8	23783.3
45°	947.8	991.1	1082.8	1215.3	2094.3	4160.5	9248.4	23210.1	28382.0	28746.3	24483.9
47.5°	947.8	998.7	1095.5	1258.6	1966.9	4007.6	9495.5	24328.5	29398.6	29576.9	25309.4
50°	940.1	996.2	1131.2	1215.3	1780.9	3814.0	10076.4	25737.4	30499.2	30519.6	26354.0
52.5°	924.8	991.1	1217.8	1189.8	1566.9	3559.2	10861.1	27546.3	32127.2	32249.5	27989.7
55°	907.0	983.4	1194.9	1131.2	1391.1	3256.0	11503.1	29745.1	34415.1	34754.0	30394.7
57.5°	884.1	973.2	1156.7	1049.7	1276.4	2866.2	11735.0	31355.2	36012.5	36863.5	33105.6
60°	863.7	965.6	1044.6	1001.3	1205.1	2537.6	11286.6	31036.8	35903.0	37737.4	35508.1
62.5°	843.3	973.2	952.9	970.7	1172.0	2326.1	10114.6	28486.5	34086.4	36835.5	37289.0
65°	820.4	904.5	899.4	945.2	1164.3	2242.0	8384.7	24662.3	30575.6	33984.5	37709.3
67.5°	789.8	835.7	861.1	912.1	1189.8	2168.1	6766.8	20343.8	25696.7	29711.9	35518.3
70°	756.7	794.9	822.9	871.3	1174.5	2135.0	5628.0	16043.2	20389.7	24351.5	31194.7
72.5°	713.4	746.5	772.0	817.8	1159.2	2117.2	4754.1	12919.7	15222.8	18089.1	25362.9
75°	662.4	693.0	710.8	756.7	1110.8	1938.8	3737.6	10932.4	11391.0	12583.4	20201.2
77.5°	603.8	626.7	642.0	693.0	983.4	1612.7	2703.2	8433.1	8845.8	9136.3	15487.8
80°	535.0	558.0	565.6	614.0	815.3	1261.1	1763.0	6229.3	6616.5	6682.8	10114.6
82.5°	456.0	479.0	479.0	524.8	667.5	907.0	1156.7	4267.5	4343.9	4568.1	7149.0
85°	366.9	384.7	384.7	407.6	517.2	677.7	794.9	2142.7	2119.7	2420.4	6193.6
87.5°	262.4	275.2	287.9	293.0	369.4	448.4	479.0	652.2	430.6	494.3	3977.0
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: P193888

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5
2.5°	17987.2	18132.4	17984.6	17877.6	17416.5	17036.8	16529.8	16270.0
5°	19334.9	19704.4	19579.5	19131.1	18168.1	17085.3	15854.7	15299.3
7.5°	19171.9	20030.5	20050.8	19212.6	17793.5	16198.6	14532.4	13742.6
10°	17903.1	19001.2	19314.5	18501.8	16996.1	15212.7	13301.8	12399.9
12.5°	16486.5	17561.7	17801.2	17520.9	16262.3	14471.3	12532.4	11648.3
15°	15327.3	15808.8	16094.2	16338.8	15633.0	14175.7	12489.1	11518.4
17.5°	14621.6	14568.1	14649.6	15075.1	15194.8	14514.6	13151.5	12081.5
20°	14366.8	13549.0	13528.6	14114.6	14988.5	15322.2	14445.8	13161.7
22.5°	14506.9	13182.1	13013.9	13709.5	15098.0	16486.5	16142.6	14677.6
25°	14991.0	13212.7	13077.6	13750.2	15495.5	17727.3	17974.4	16639.4
27.5°	15752.8	13406.3	13228.0	13918.4	16022.8	18769.3	19778.2	18540.0
30°	16476.3	13742.6	13520.9	14249.6	16504.4	19182.1	20884.0	20022.8
32.5°	17355.3	14371.9	13982.1	14858.5	17100.5	19839.4	21869.9	21250.8
35°	18216.5	15268.7	14784.6	15798.6	17765.5	20657.2	22996.1	22820.3
37.5°	19161.7	16440.7	16040.7	17013.9	18675.1	21429.2	24433.0	24659.7
40°	20170.6	17994.8	17520.9	18787.2	20086.5	22397.3	25933.6	26478.8
42.5°	21187.1	19719.6	19154.0	20438.1	21638.1	23352.7	27217.7	28025.3
45°	22351.5	21592.2	21324.7	22713.3	23128.5	24262.3	28165.5	29169.3
47.5°	23706.9	23717.1	24147.6	24703.0	24631.7	25291.6	29118.3	30190.9
50°	25289.0	26369.3	27319.6	27689.0	26180.7	26397.3	30440.6	31559.1
52.5°	27189.7	29541.2	30718.3	30476.3	27849.5	27747.6	32534.9	33444.4
55°	29566.7	32899.2	34068.6	33895.4	29768.0	29587.1	35143.8	35673.7
57.5°	32318.3	36152.7	37227.8	36448.2	32071.2	31604.9	37301.7	37413.8
60°	34736.1	38731.0	39673.7	38810.0	34394.7	33752.7	38649.5	38106.8
62.5°	36081.3	39604.9	40267.3	39337.4	35987.1	36040.6	38945.0	37732.3
65°	35480.1	37396.0	37610.0	37533.6	35576.9	37367.9	37882.6	36002.4
67.5°	32188.4	31811.3	32170.5	32667.3	32061.0	35620.2	34939.9	32234.2
70°	26389.7	24318.3	25034.3	25368.0	25643.2	30652.1	30325.9	26254.6
72.5°	19887.8	17036.8	17602.5	17533.7	18807.5	24585.9	23584.6	19304.4
75°	14091.6	11551.5	11622.9	11594.8	13123.5	19235.6	17077.6	13207.6
77.5°	9859.8	8369.4	8407.6	8565.6	8822.9	14506.9	12201.2	9648.4
80°	6779.6	6351.6	6563.0	6575.8	6114.6	9745.2	9014.0	7742.6
82.5°	5049.7	4415.3	4364.3	4438.2	4792.3	7895.5	6927.4	5370.7
85°	4135.0	2614.0	2101.9	2634.4	4247.1	7819.1	4601.2	2833.1
87.5°	2328.6	1240.8	560.5	1039.5	1694.3	5177.0	1329.9	361.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)