

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: P193856

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193856
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-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 22540 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

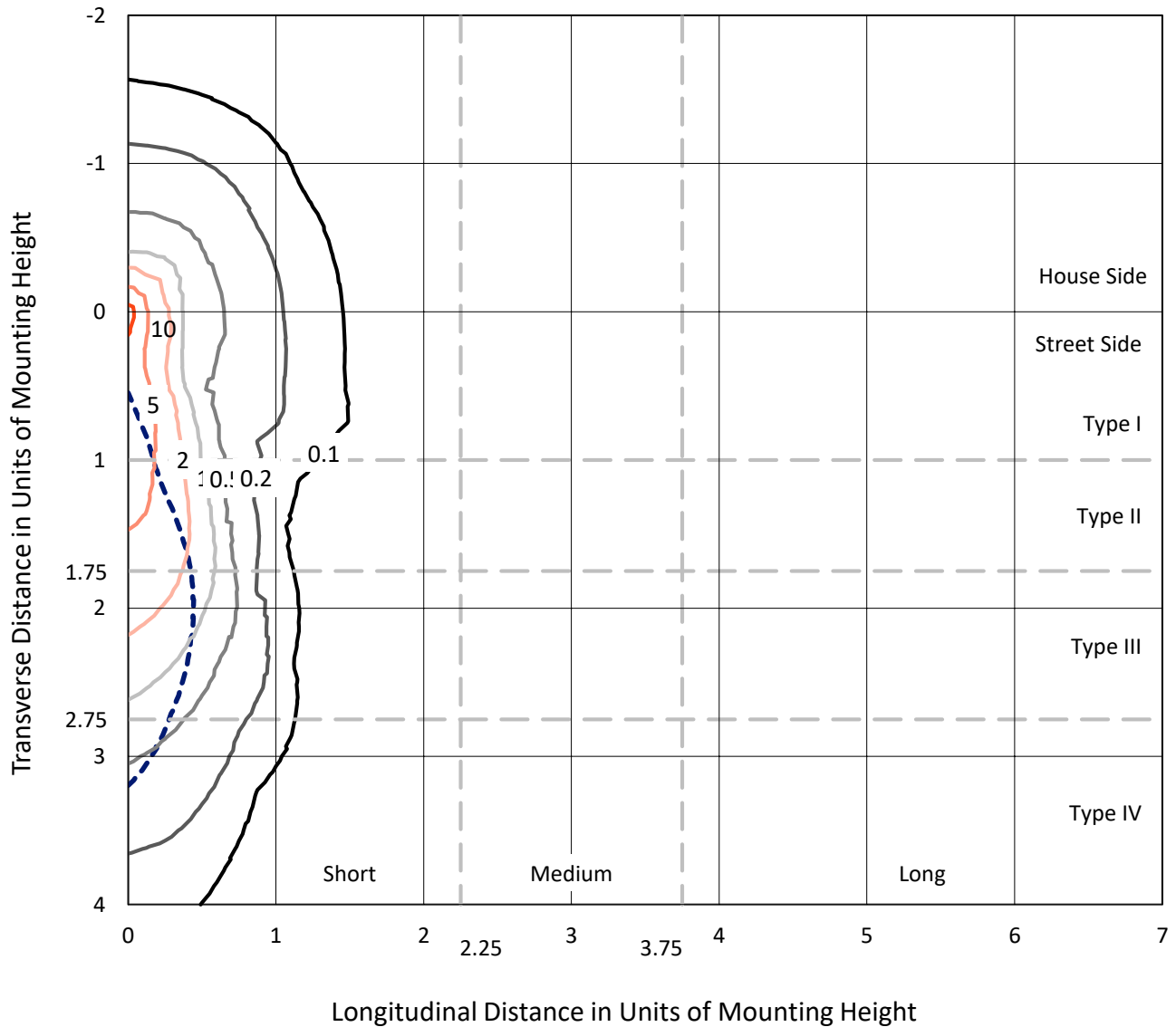
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193856
 CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-8030-600

Iso-Footcandle Lines of Horizontal Illumination

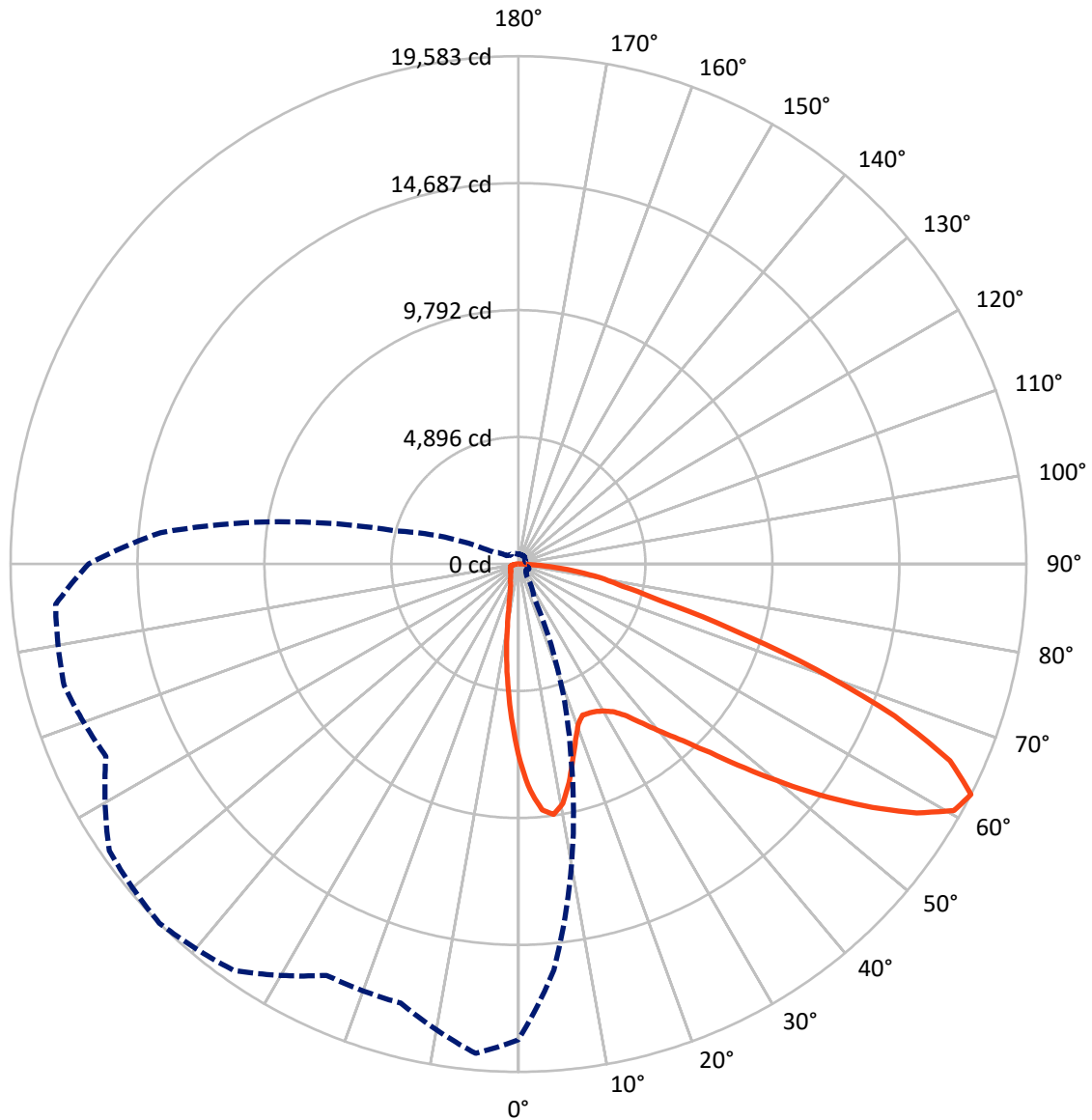
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193856
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-8030-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193856

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3730.1	0.0	3730.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18809.9	0.0	18809.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	22540.0	0.0	22540.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.4	2.5
10°-20°	1016.5	4.5
20°-30°	1482.1	6.6
30°-40°	2282.7	10.1
40°-50°	3359.5	14.9
50°-60°	4927.6	21.9
60°-70°	5508.4	24.4
70°-80°	2696.8	12.0
80°-90°	712.0	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°	22540.0	100.0
0°-180°	22540.0	100.0



REPORT NUMBER: P193856

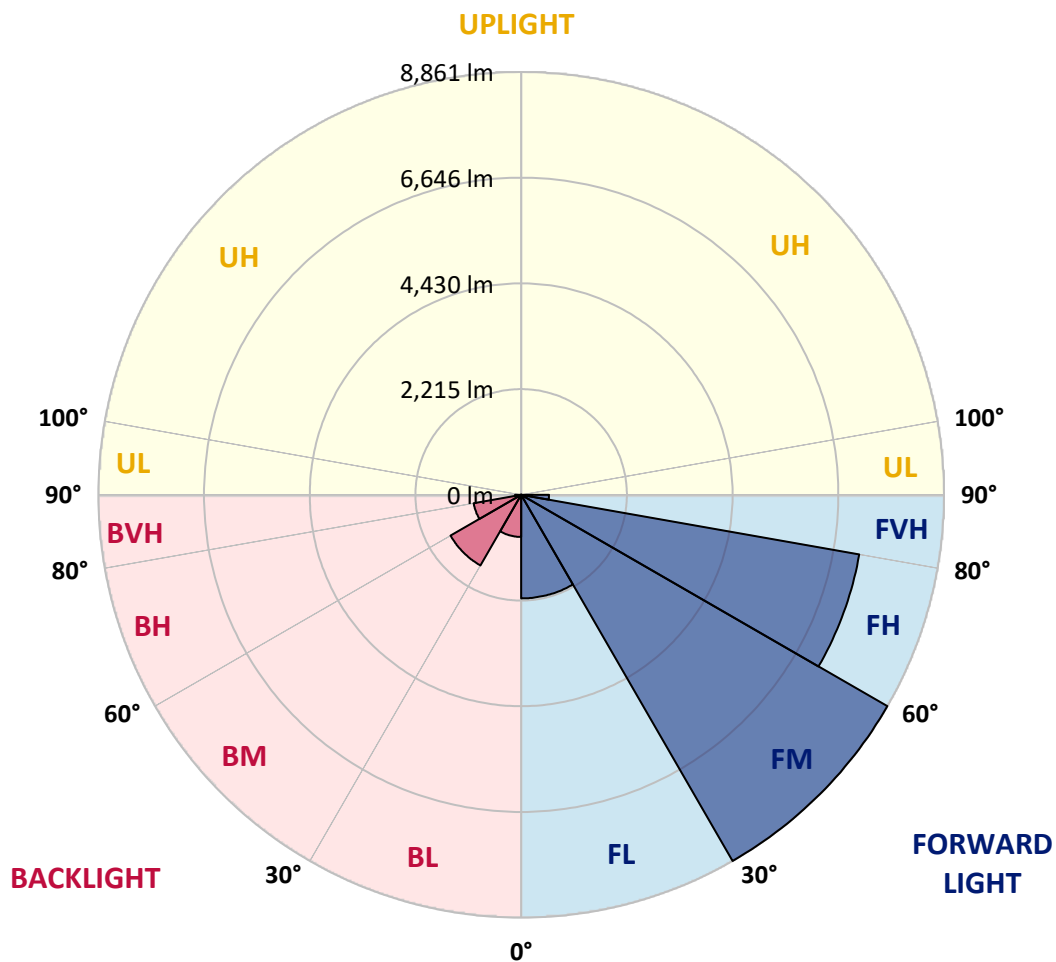
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2170.5	9.6			
FM	(30°-60°)	8860.7	39.3			
FH	(60°-80°)	7194.0	31.9			G3/7500
FVH	(80°-90°)	584.7	2.6			G4/750
BL	(0°-30°)	882.5	3.9	B2/1000		
BM	(30°-60°)	1709.1	7.6	B2/2500		
BH	(60°-80°)	1011.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	127.3	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-G4

Type IV Short





REPORT NUMBER: P193856

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2
2.5°	7912.6	7751.5	7483.9	7205.1	7035.3	6837.1	6682.2	6545.9	6273.3	6220.1	6268.4
5°	7440.5	7117.1	6612.8	6104.8	5766.6	5403.5	5121.0	4894.3	4548.6	4487.9	4561.0
7.5°	6683.5	6296.9	5630.3	4982.2	4504.0	4050.5	3745.7	3502.8	3232.7	3116.2	3123.7
10°	6030.5	5594.3	4806.3	4101.3	3709.7	3403.7	3147.2	2898.1	2624.3	2444.7	2395.1
12.5°	5665.0	5163.1	4254.9	3625.5	3262.4	2940.3	2664.0	2397.6	2105.2	1921.8	1869.7
15°	5601.8	5056.6	4048.0	3320.7	2865.9	2458.3	2132.4	1835.0	1533.9	1385.3	1354.3
17.5°	5875.6	5247.4	3981.1	3049.3	2493.0	1989.9	1589.7	1257.6	1012.3	938.0	931.8
20°	6401.0	5614.2	3972.4	2794.1	2125.0	1535.2	1107.7	866.1	758.3	737.2	738.5
22.5°	7138.2	6182.9	4079.0	2602.0	1786.7	1144.9	832.6	724.8	682.7	662.9	662.9
25°	8092.3	6966.0	4324.3	2462.0	1493.1	914.4	734.8	670.3	630.7	617.0	619.5
27.5°	9016.6	7728.0	4609.3	2351.7	1301.0	830.2	696.3	638.1	603.4	589.8	596.0
30°	9737.7	8404.5	4847.2	2201.8	1203.1	806.6	710.0	650.5	600.9	579.9	581.1
32.5°	10334.9	8996.8	5046.7	2094.0	1116.4	691.4	612.1	586.1	579.9	555.1	542.7
35°	11098.2	9642.3	5180.5	2096.5	1075.5	617.0	545.2	499.3	465.9	437.4	437.4
37.5°	11992.8	10383.3	5323.0	2125.0	1060.6	573.7	521.6	475.8	444.8	417.6	412.6
40°	12877.5	11109.4	5453.1	2152.2	1052.0	547.7	503.1	460.9	432.4	405.2	397.7
42.5°	13629.6	11706.6	5569.5	2165.9	1022.2	545.2	489.4	451.0	423.8	394.0	386.6
45°	14185.9	12207.2	5694.7	2186.9	992.5	555.1	489.4	449.8	416.3	387.8	380.4
47.5°	14682.8	12794.5	5904.1	2186.9	956.5	536.5	505.5	451.0	415.1	385.3	379.2
50°	15348.2	13599.9	6300.6	2136.1	905.7	516.7	532.8	446.1	403.9	380.4	373.0
52.5°	16265.1	14632.0	6930.0	2048.2	827.7	478.3	529.1	443.6	392.8	368.0	359.3
55°	17349.2	15737.2	7616.5	1945.3	711.2	451.0	510.5	437.4	380.4	353.1	344.5
57.5°	18195.5	16498.0	8099.7	1786.7	609.6	436.1	452.3	431.2	365.5	337.0	329.6
60°	18532.5	16468.3	8232.3	1574.8	560.1	423.8	395.3	483.2	353.1	324.6	316.0
62.5°	18350.4	15707.5	7860.6	1426.2	548.9	407.6	370.5	447.3	343.2	316.0	303.6
65°	17509.1	14359.4	6875.5	1386.5	581.1	391.5	354.4	350.7	329.6	303.6	291.2
67.5°	15676.5	12344.7	5505.1	1390.2	622.0	375.4	338.3	320.9	311.0	289.9	278.8
70°	12768.5	9760.0	4103.7	1400.1	643.1	356.8	320.9	302.3	291.2	270.1	262.7
72.5°	9388.3	7522.3	2981.2	1335.7	646.8	335.8	297.4	281.3	270.1	247.8	241.6
75°	6423.3	5754.2	2068.0	1106.5	563.8	306.0	271.4	256.5	249.0	221.8	218.1
77.5°	4692.3	4319.3	1323.3	821.5	434.9	268.9	239.1	228.0	223.0	193.3	188.3
80°	3765.5	3417.3	827.7	562.5	318.4	225.5	200.7	194.5	189.6	159.8	156.1
82.5°	2611.9	2288.5	531.6	365.5	239.1	174.7	158.6	156.1	148.7	121.4	117.7
85°	1377.8	1242.8	337.0	249.0	173.5	120.2	110.3	110.3	106.6	80.5	78.1
87.5°	175.9	286.2	171.0	130.1	95.4	53.3	53.3	52.0	55.8	45.8	39.6
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: P193856

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2
2.5°	6154.4	6213.9	6156.9	6160.6	6223.8	6412.1	6497.6	6568.2	6643.8	6693.4	6715.7
5°	4460.6	4599.4	4646.5	4745.6	4891.8	5132.2	5227.6	5297.0	5342.8	5370.1	5381.2
7.5°	3050.6	3134.8	3229.0	3388.8	3707.2	3848.5	3911.7	3895.6	3843.5	3825.0	3806.4
10°	2299.7	2266.2	2248.9	2336.9	2594.6	2737.1	2781.7	2738.3	2709.8	2716.0	2747.0
12.5°	1781.8	1723.5	1652.9	1643.0	1812.7	1940.4	1968.9	1971.3	2023.4	2069.2	2137.4
15°	1298.5	1292.3	1257.6	1236.6	1333.2	1437.3	1449.7	1472.0	1519.1	1552.5	1612.0
17.5°	915.7	949.1	976.4	990.0	1063.1	1137.5	1123.8	1112.7	1104.0	1104.0	1132.5
20°	738.5	760.8	795.5	835.1	909.5	961.5	928.1	883.4	851.2	841.3	845.0
22.5°	665.4	682.7	702.5	737.2	804.1	840.1	804.1	771.9	739.7	728.6	724.8
25°	628.2	650.5	669.1	695.1	744.7	769.5	734.8	711.2	691.4	677.8	667.9
27.5°	607.1	627.0	631.9	644.3	686.4	708.7	691.4	681.5	669.1	656.7	644.3
30°	584.8	581.1	572.4	573.7	607.1	629.4	628.2	630.7	629.4	625.7	623.2
32.5°	534.0	526.6	519.2	526.6	557.6	577.4	578.6	583.6	583.6	582.4	592.3
35°	444.8	458.4	467.1	489.4	526.6	543.9	536.5	524.1	501.8	488.2	486.9
37.5°	411.4	413.8	428.7	459.7	500.6	516.7	505.5	477.0	462.2	459.7	463.4
40°	395.3	397.7	406.4	434.9	475.8	491.9	482.0	460.9	447.3	446.1	452.3
42.5°	384.1	386.6	391.5	411.4	444.8	464.6	465.9	451.0	434.9	436.1	442.3
45°	377.9	379.2	377.9	387.8	418.8	442.3	452.3	442.3	428.7	431.2	438.6
47.5°	376.7	373.0	368.0	370.5	402.7	426.2	438.6	434.9	428.7	431.2	437.4
50°	371.7	363.0	356.8	355.6	387.8	412.6	423.8	423.8	426.2	431.2	437.4
52.5°	356.8	346.9	346.9	343.2	377.9	401.5	408.9	410.1	413.8	422.5	431.2
55°	338.3	334.5	338.3	332.1	370.5	392.8	396.5	399.0	401.5	408.9	421.3
57.5°	322.2	317.2	325.9	323.4	364.3	384.1	384.1	389.1	389.1	399.0	408.9
60°	313.5	303.6	307.3	309.8	355.6	376.7	374.2	379.2	381.6	390.3	397.7
62.5°	302.3	293.7	293.7	299.9	345.7	365.5	364.3	368.0	377.9	380.4	387.8
65°	288.7	285.0	281.3	288.7	335.8	353.1	354.4	359.3	368.0	370.5	376.7
67.5°	275.1	276.3	268.9	276.3	327.1	340.7	340.7	350.7	354.4	359.3	365.5
70°	260.2	261.4	255.2	263.9	320.9	327.1	325.9	339.5	342.0	345.7	351.9
72.5°	241.6	241.6	239.1	251.5	311.0	313.5	311.0	322.2	323.4	327.1	329.6
75°	221.8	221.8	219.3	236.7	304.8	298.6	291.2	299.9	302.3	304.8	304.8
77.5°	195.8	198.2	198.2	219.3	283.7	292.4	267.6	272.6	276.3	277.5	273.8
80°	163.6	169.8	172.2	199.5	237.9	270.1	239.1	242.9	244.1	244.1	239.1
82.5°	125.1	136.3	142.5	172.2	182.1	226.7	208.2	211.9	208.2	200.7	198.2
85°	86.7	101.6	109.0	131.3	137.5	174.7	173.5	173.5	166.0	156.1	154.9
87.5°	47.1	55.8	60.7	78.1	94.2	117.7	127.6	123.9	117.7	111.5	112.8
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: P193856

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2
2.5°	6832.1	7000.7	7269.5	7475.2	7682.1	7881.6	8097.2	8262.0	8402.0	8456.5	8622.6
5°	5494.0	5704.6	5958.6	6417.1	6741.7	7099.8	7513.6	8061.3	8271.9	8563.1	9040.1
7.5°	3884.4	4075.2	4484.1	4854.6	5314.3	5821.1	6379.9	7135.7	7412.0	7879.1	8656.0
10°	2900.6	3122.4	3450.8	3763.0	4168.2	4686.1	5327.9	6173.0	6508.8	7015.5	7910.1
12.5°	2336.9	2598.3	2946.5	3240.1	3553.6	3919.1	4542.4	5469.2	5919.0	6362.5	7267.1
15°	1795.4	2069.2	2392.6	2765.6	3111.3	3505.3	4158.3	5171.8	5689.7	6151.9	6923.8
17.5°	1242.8	1477.0	1884.6	2273.7	2716.0	3220.3	4051.7	5235.0	5853.3	6386.1	6983.3
20°	881.0	1014.8	1349.3	1800.3	2351.7	2984.9	4031.9	5567.1	6371.2	6979.6	7364.9
22.5°	741.0	790.5	985.0	1398.9	2035.8	2808.9	4101.3	6033.0	7070.0	7846.9	7973.3
25°	675.3	705.0	806.6	1097.8	1754.5	2681.3	4335.5	6726.8	7934.9	8714.3	8692.0
27.5°	639.4	670.3	737.2	926.8	1542.6	2602.0	4569.6	7549.6	8923.7	9655.9	9378.4
30°	628.2	670.3	741.0	873.5	1391.5	2476.9	4761.7	8271.9	9684.4	10291.6	9690.6
32.5°	619.5	625.7	657.9	753.3	1247.7	2330.7	4891.8	8920.0	10429.1	10896.2	10140.4
35°	500.6	531.6	583.6	675.3	1163.5	2242.7	4891.8	9478.8	11162.6	11507.1	10569.1
37.5°	482.0	509.3	555.1	633.2	1116.4	2199.3	4793.9	10017.8	11912.3	12199.7	10922.3
40°	472.1	494.4	537.7	600.9	1096.6	2149.8	4651.4	10493.5	12644.5	12893.6	11251.8
42.5°	464.6	484.5	525.4	581.1	1070.5	2095.2	4536.2	10875.2	13280.2	13485.9	11566.6
45°	460.9	482.0	526.6	591.0	1018.5	2023.4	4497.8	11287.8	13803.1	13980.2	11907.3
47.5°	460.9	485.7	532.8	612.1	956.5	1949.0	4618.0	11831.7	14297.4	14384.2	12308.8
50°	457.2	484.5	550.1	591.0	866.1	1854.9	4900.5	12516.9	14832.7	14842.6	12816.8
52.5°	449.8	482.0	592.3	578.6	762.0	1731.0	5282.1	13396.7	15624.5	15683.9	13612.2
55°	441.1	478.3	581.1	550.1	676.5	1583.5	5594.3	14466.0	16737.1	16901.9	14781.9
57.5°	430.0	473.3	562.5	510.5	620.8	1393.9	5707.1	15249.0	17514.0	17927.9	16100.3
60°	420.0	469.6	508.0	486.9	586.1	1234.1	5489.0	15094.2	17460.7	18352.9	17268.7
62.5°	410.1	473.3	463.4	472.1	570.0	1131.3	4919.0	13853.9	16577.3	17914.2	18134.8
65°	399.0	439.9	437.4	459.7	566.2	1090.4	4077.7	11994.0	14869.9	16527.7	18339.2
67.5°	384.1	406.4	418.8	443.6	578.6	1054.4	3290.9	9893.8	12497.1	14449.8	17273.7
70°	368.0	386.6	400.2	423.8	571.2	1038.3	2737.1	7802.3	9916.1	11842.9	15171.0
72.5°	346.9	363.0	375.4	397.7	563.8	1029.7	2312.1	6283.2	7403.3	8797.3	12334.8
75°	322.2	337.0	345.7	368.0	540.2	942.9	1817.7	5316.8	5539.8	6119.7	9824.5
77.5°	293.7	304.8	312.2	337.0	478.3	784.3	1314.6	4101.3	4302.0	4443.2	7532.2
80°	260.2	271.4	275.1	298.6	396.5	613.3	857.4	3029.5	3217.8	3250.0	4919.0
82.5°	221.8	232.9	232.9	255.2	324.6	441.1	562.5	2075.4	2112.6	2221.6	3476.8
85°	178.4	187.1	187.1	198.2	251.5	329.6	386.6	1042.0	1030.9	1177.1	3012.1
87.5°	127.6	133.8	140.0	142.5	179.7	218.1	232.9	317.2	209.4	240.4	1934.2
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: P193856

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2	7615.2
2.5°	8747.7	8818.3	8746.5	8694.4	8470.2	8285.6	8039.0	7912.6
5°	9403.2	9582.8	9522.1	9304.1	8835.7	8309.1	7710.6	7440.5
7.5°	9323.9	9741.4	9751.4	9343.7	8653.6	7877.9	7067.6	6683.5
10°	8706.8	9240.9	9393.3	8998.0	8265.7	7398.4	6469.1	6030.5
12.5°	8017.9	8540.8	8657.3	8521.0	7908.9	7037.8	6094.9	5665.0
15°	7454.1	7688.3	7827.1	7946.1	7602.8	6894.1	6073.8	5601.8
17.5°	7110.9	7084.9	7124.6	7331.5	7389.7	7058.9	6396.0	5875.6
20°	6987.0	6589.3	6579.4	6864.4	7289.4	7451.7	7025.4	6401.0
22.5°	7055.2	6410.9	6329.1	6667.3	7342.6	8017.9	7850.6	7138.2
25°	7290.6	6425.7	6360.1	6687.2	7535.9	8621.3	8741.5	8092.3
27.5°	7661.1	6519.9	6433.2	6769.0	7792.4	9128.1	9618.8	9016.6
30°	8013.0	6683.5	6575.7	6930.0	8026.6	9328.8	10156.5	9737.7
32.5°	8440.4	6989.5	6799.9	7226.2	8316.5	9648.5	10636.0	10334.9
35°	8859.2	7425.7	7190.2	7683.4	8639.9	10046.3	11183.7	11098.2
37.5°	9318.9	7995.6	7801.1	8274.4	9082.3	10421.7	11882.5	11992.8
40°	9809.6	8751.4	8521.0	9136.8	9768.7	10892.5	12612.3	12877.5
42.5°	10304.0	9590.3	9315.2	9939.7	10523.3	11357.2	13236.8	13629.6
45°	10870.2	10501.0	10370.9	11046.2	11248.1	11799.5	13697.7	14185.9
47.5°	11529.4	11534.4	11743.8	12013.9	11979.2	12300.1	14161.1	14682.8
50°	12298.9	12824.2	13286.4	13466.0	12732.5	12837.8	14804.2	15348.2
52.5°	13223.2	14366.8	14939.3	14821.6	13544.1	13494.5	15822.7	16265.1
55°	14379.2	15999.9	16568.6	16484.4	14477.1	14389.1	17091.5	17349.2
57.5°	15717.4	17582.2	18105.1	17725.9	15597.2	15370.5	18141.0	18195.5
60°	16893.3	18836.1	19294.5	18874.5	16727.2	16415.0	18796.4	18532.5
62.5°	17547.5	19261.1	19583.2	19131.0	17501.6	17527.7	18940.2	18350.4
65°	17255.1	18186.8	18290.9	18253.7	17302.2	18173.2	18423.5	17509.1
67.5°	15654.2	15470.8	15645.5	15887.2	15592.3	17323.2	16992.4	15676.5
70°	12834.1	11826.8	12174.9	12337.3	12471.1	14907.1	14748.5	12768.5
72.5°	9672.1	8285.6	8560.6	8527.2	9146.7	11956.9	11469.9	9388.3
75°	6853.2	5617.9	5652.6	5638.9	6382.4	9354.9	8305.4	6423.3
77.5°	4795.1	4070.3	4088.9	4165.7	4290.8	7055.2	5933.8	4692.3
80°	3297.1	3089.0	3191.8	3198.0	2973.7	4739.4	4383.8	3765.5
82.5°	2455.8	2147.3	2122.5	2158.4	2330.7	3839.8	3369.0	2611.9
85°	2011.0	1271.3	1022.2	1281.2	2065.5	3802.7	2237.7	1377.8
87.5°	1132.5	603.4	272.6	505.5	824.0	2517.8	646.8	175.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)