

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: P193854

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193854
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-06-LED-E1-SLR-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 16820 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 193
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

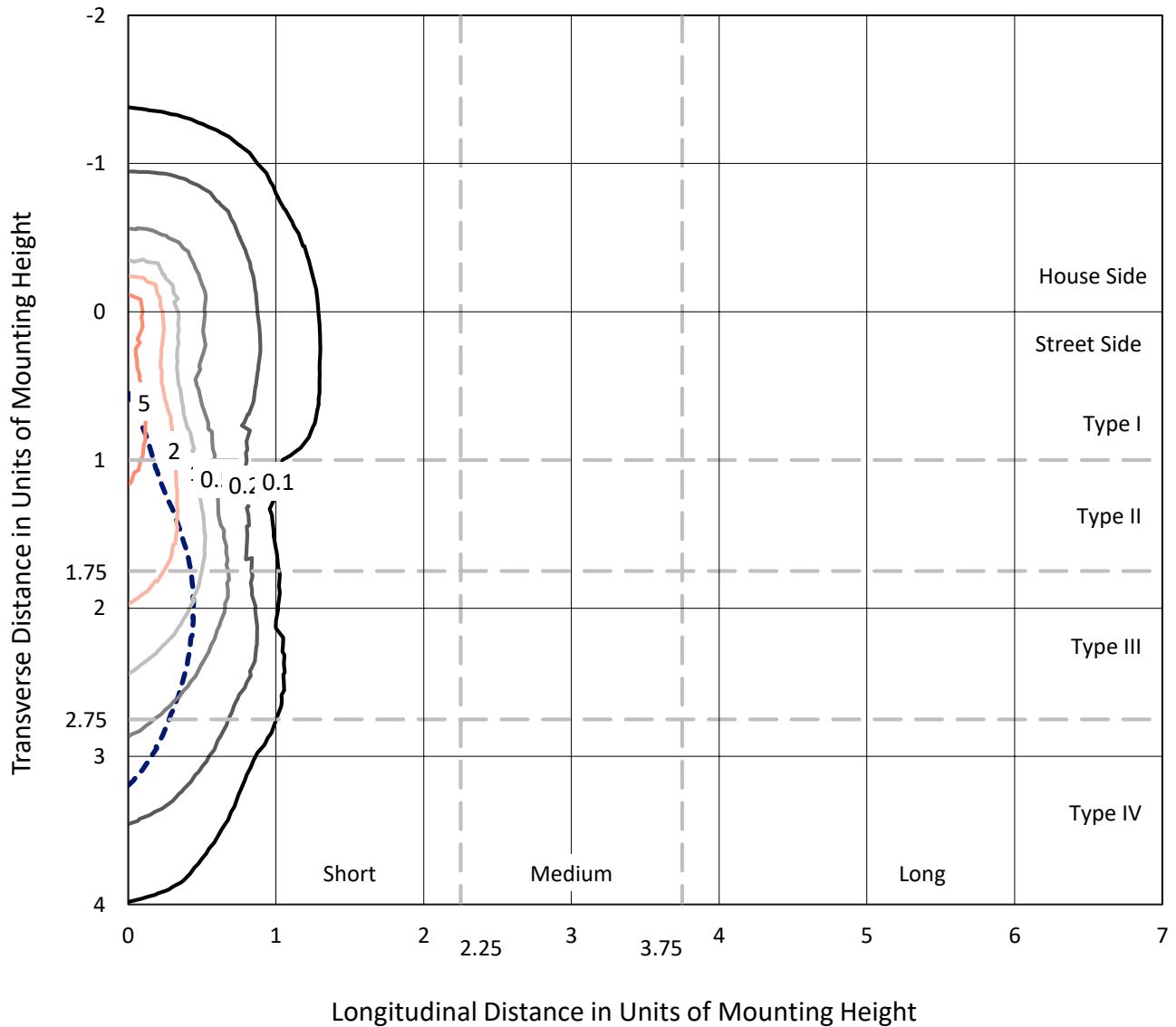


REPORT NUMBER: P193854

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

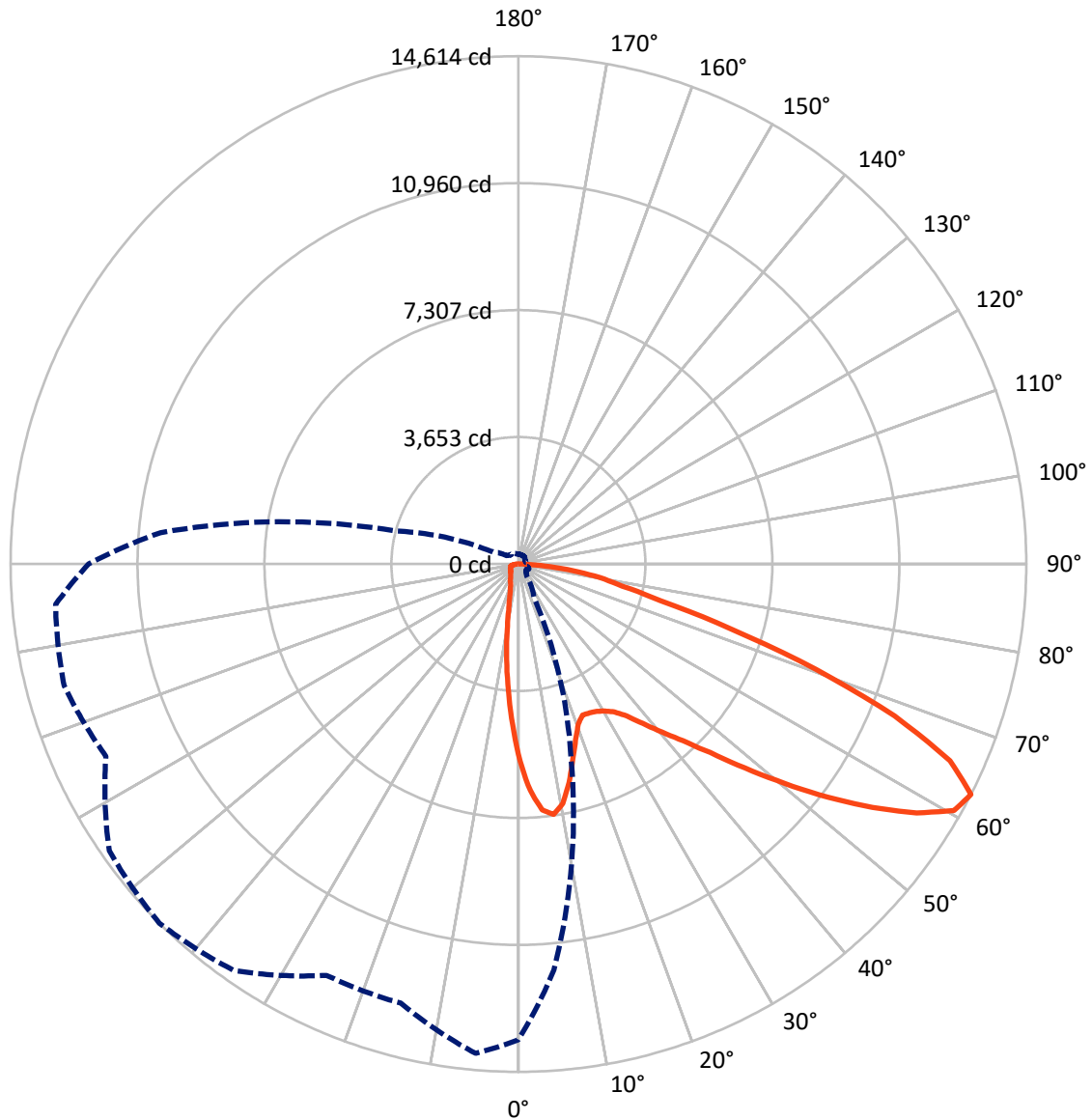


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193854

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193854

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2783.5	0.0	2783.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14036.5	0.0	14036.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	16820.0	0.0	16820.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.7	2.5
10°-20°	758.6	4.5
20°-30°	1106.0	6.6
30°-40°	1703.4	10.1
40°-50°	2506.9	14.9
50°-60°	3677.1	21.9
60°-70°	4110.5	24.4
70°-80°	2012.5	12.0
80°-90°	531.3	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°	16820.0	100.0
0°-180°	16820.0	100.0



REPORT NUMBER: P193854

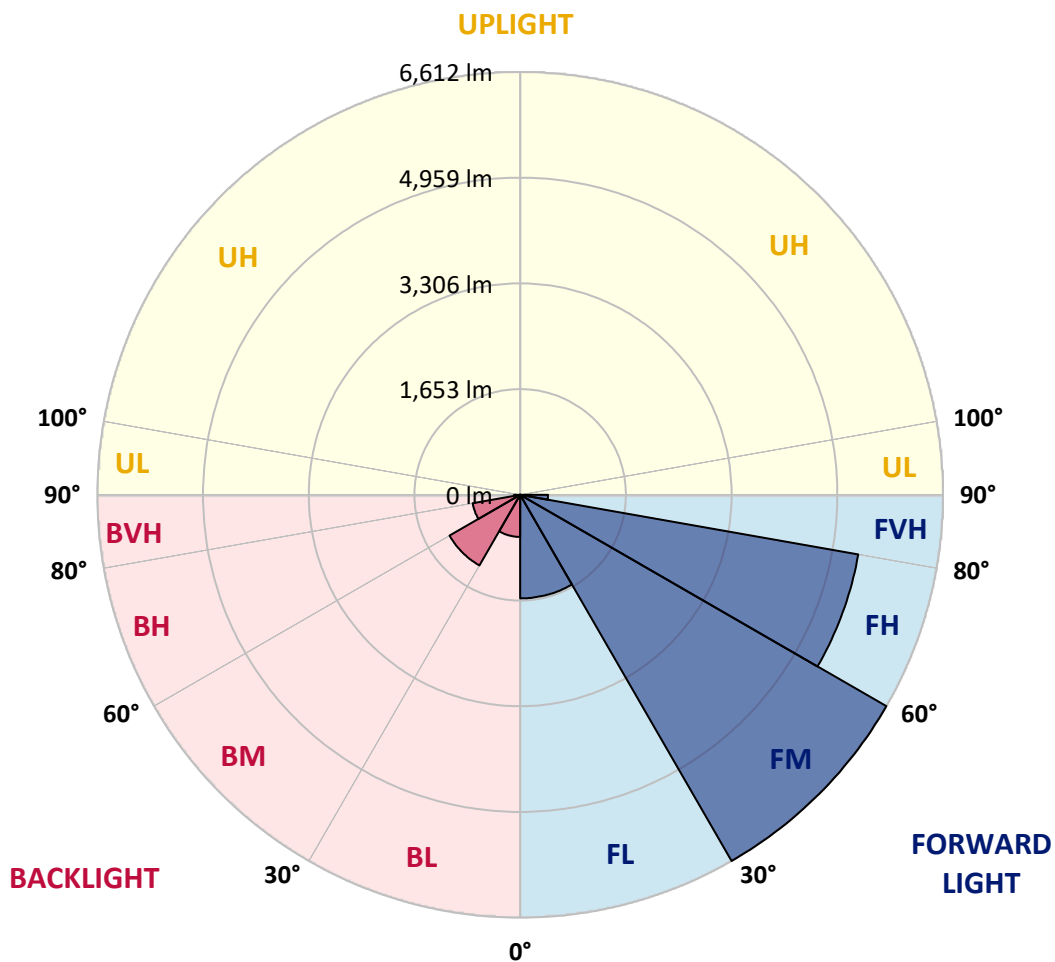
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.7	9.6			
FM (30°-60°)	6612.1	39.3			
FH (60°-80°)	5368.4	31.9			G3/7500
FVH (80°-90°)	436.4	2.6			G3/500
BL (0°-30°)	658.5	3.9	B2/1000		
BM (30°-60°)	1275.4	7.6	B2/2500		
BH (60°-80°)	754.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	95.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P193854

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7
2.5°	5904.6	5784.4	5584.7	5376.7	5250.0	5102.0	4986.5	4884.8	4681.3	4641.6	4677.6
5°	5552.3	5311.0	4934.7	4555.6	4303.2	4032.3	3821.4	3652.2	3394.3	3349.0	3403.5
7.5°	4987.4	4698.9	4201.5	3717.9	3361.0	3022.6	2795.1	2613.9	2412.3	2325.4	2331.0
10°	4500.1	4174.7	3586.6	3060.5	2768.3	2539.9	2348.5	2162.7	1958.3	1824.3	1787.3
12.5°	4227.4	3852.9	3175.1	2705.4	2434.5	2194.1	1987.9	1789.1	1570.9	1434.1	1395.2
15°	4180.2	3773.4	3020.7	2478.0	2138.6	1834.4	1591.3	1369.4	1144.7	1033.7	1010.6
17.5°	4384.5	3915.8	2970.8	2275.5	1860.3	1484.9	1186.3	938.5	755.4	699.9	695.3
20°	4776.6	4189.4	2964.3	2085.0	1585.7	1145.6	826.6	646.3	565.9	550.1	551.1
22.5°	5326.7	4613.8	3043.8	1941.7	1333.3	854.3	621.3	540.9	509.5	494.7	494.7
25°	6038.7	5198.2	3226.9	1837.2	1114.2	682.4	548.3	500.2	470.6	460.5	462.3
27.5°	6728.4	5766.8	3439.6	1754.9	970.8	619.5	519.6	476.2	450.3	440.1	444.7
30°	7266.6	6271.7	3617.1	1643.0	897.8	601.9	529.8	485.4	448.4	432.7	433.6
32.5°	7712.2	6713.7	3766.0	1562.6	833.1	515.9	456.8	437.3	432.7	414.2	405.0
35°	8281.8	7195.4	3865.8	1564.5	802.6	460.5	406.8	372.6	347.7	326.4	326.4
37.5°	8949.4	7748.3	3972.2	1585.7	791.5	428.1	389.3	355.1	331.9	311.6	307.9
40°	9609.6	8290.1	4069.2	1606.1	785.0	408.7	375.4	344.0	322.7	302.4	296.8
42.5°	10170.8	8735.8	4156.2	1616.2	762.8	406.8	365.2	336.6	316.2	294.0	288.5
45°	10586.0	9109.3	4249.5	1632.0	740.6	414.2	365.2	335.6	310.7	289.4	283.9
47.5°	10956.7	9547.6	4405.8	1632.0	713.8	400.4	377.2	336.6	309.7	287.6	282.9
50°	11453.2	10148.6	4701.7	1594.0	675.9	385.6	397.6	332.9	301.4	283.9	278.3
52.5°	12137.5	10918.8	5171.4	1528.4	617.6	356.9	394.8	331.0	293.1	274.6	268.1
55°	12946.5	11743.6	5683.6	1451.7	530.7	336.6	380.9	326.4	283.9	263.5	257.0
57.5°	13578.0	12311.3	6044.2	1333.3	454.9	325.5	337.5	321.8	272.8	251.5	245.9
60°	13829.5	12289.1	6143.2	1175.2	417.9	316.2	295.0	360.6	263.5	242.2	235.8
62.5°	13693.6	11721.4	5865.8	1064.2	409.6	304.2	276.5	333.8	256.1	235.8	226.5
65°	13065.8	10715.4	5130.7	1034.6	433.6	292.2	264.4	261.7	245.9	226.5	217.3
67.5°	11698.3	9212.0	4108.1	1037.4	464.2	280.2	252.4	239.5	232.1	216.4	208.0
70°	9528.2	7283.2	3062.3	1044.8	479.9	266.3	239.5	225.6	217.3	201.6	196.0
72.5°	7005.8	5613.4	2224.6	996.7	482.7	250.6	221.9	209.9	201.6	184.9	180.3
75°	4793.2	4293.9	1543.2	825.7	420.7	228.4	202.5	191.4	185.8	165.5	162.7
77.5°	3501.5	3223.2	987.5	613.0	324.5	200.6	178.5	170.1	166.4	144.2	140.5
80°	2809.9	2550.1	617.6	419.8	237.6	168.3	149.8	145.2	141.5	119.3	116.5
82.5°	1949.1	1707.8	396.7	272.8	178.5	130.4	118.4	116.5	111.0	90.6	87.8
85°	1028.2	927.4	251.5	185.8	129.4	89.7	82.3	82.3	79.5	60.1	58.3
87.5°	131.3	213.6	127.6	97.1	71.2	39.8	39.8	38.8	41.6	34.2	29.6
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: P193854

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7
2.5°	4592.6	4637.0	4594.4	4597.2	4644.4	4784.9	4848.7	4901.4	4957.8	4994.8	5011.4
5°	3328.6	3432.2	3467.3	3541.3	3650.4	3829.8	3901.0	3952.7	3987.0	4007.3	4015.6
7.5°	2276.4	2339.3	2409.6	2528.8	2766.5	2871.9	2919.0	2907.0	2868.2	2854.3	2840.4
10°	1716.1	1691.1	1678.2	1743.8	1936.2	2042.5	2075.8	2043.4	2022.1	2026.8	2049.9
12.5°	1329.6	1286.1	1233.4	1226.0	1352.7	1448.0	1469.2	1471.1	1509.9	1544.1	1595.0
15°	969.0	964.4	938.5	922.8	994.9	1072.6	1081.8	1098.4	1133.6	1158.5	1202.9
17.5°	683.3	708.3	728.6	738.8	793.3	848.8	838.6	830.3	823.8	823.8	845.1
20°	551.1	567.7	593.6	623.2	678.7	717.5	692.5	659.3	635.2	627.8	630.6
22.5°	496.5	509.5	524.3	550.1	600.1	626.9	600.1	576.0	552.0	543.7	540.9
25°	468.8	485.4	499.3	518.7	555.7	574.2	548.3	530.7	515.9	505.8	498.4
27.5°	453.1	467.9	471.6	480.8	512.2	528.9	515.9	508.5	499.3	490.0	480.8
30°	436.4	433.6	427.2	428.1	453.1	469.7	468.8	470.6	469.7	466.9	465.1
32.5°	398.5	393.0	387.4	393.0	416.1	430.9	431.8	435.5	435.5	434.6	442.0
35°	331.9	342.1	348.6	365.2	393.0	405.9	400.4	391.1	374.5	364.3	363.4
37.5°	307.0	308.8	319.9	343.0	373.5	385.6	377.2	356.0	344.9	343.0	345.8
40°	295.0	296.8	303.3	324.5	355.1	367.1	359.7	344.0	333.8	332.9	337.5
42.5°	286.6	288.5	292.2	307.0	331.9	346.7	347.7	336.6	324.5	325.5	330.1
45°	282.0	282.9	282.0	289.4	312.5	330.1	337.5	330.1	319.9	321.8	327.3
47.5°	281.1	278.3	274.6	276.5	300.5	318.1	327.3	324.5	319.9	321.8	326.4
50°	277.4	270.9	266.3	265.4	289.4	307.9	316.2	316.2	318.1	321.8	326.4
52.5°	266.3	258.9	258.9	256.1	282.0	299.6	305.1	306.0	308.8	315.3	321.8
55°	252.4	249.6	252.4	247.8	276.5	293.1	295.9	297.7	299.6	305.1	314.4
57.5°	240.4	236.7	243.2	241.3	271.8	286.6	286.6	290.3	290.3	297.7	305.1
60°	233.9	226.5	229.3	231.2	265.4	281.1	279.2	282.9	284.8	291.3	296.8
62.5°	225.6	219.1	219.1	223.8	258.0	272.8	271.8	274.6	282.0	283.9	289.4
65°	215.4	212.7	209.9	215.4	250.6	263.5	264.4	268.1	274.6	276.5	281.1
67.5°	205.3	206.2	200.6	206.2	244.1	254.3	254.3	261.7	264.4	268.1	272.8
70°	194.2	195.1	190.5	196.9	239.5	244.1	243.2	253.3	255.2	258.0	262.6
72.5°	180.3	180.3	178.5	187.7	232.1	233.9	232.1	240.4	241.3	244.1	245.9
75°	165.5	165.5	163.7	176.6	227.5	222.8	217.3	223.8	225.6	227.5	227.5
77.5°	146.1	147.9	147.9	163.7	211.7	218.2	199.7	203.4	206.2	207.1	204.3
80°	122.0	126.7	128.5	148.9	177.5	201.6	178.5	181.2	182.1	182.1	178.5
82.5°	93.4	101.7	106.3	128.5	135.9	169.2	155.3	158.1	155.3	149.8	147.9
85°	64.7	75.8	81.4	98.0	102.6	130.4	129.4	129.4	123.9	116.5	115.6
87.5°	35.1	41.6	45.3	58.3	70.3	87.8	95.2	92.5	87.8	83.2	84.1
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: P193854

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7
2.5°	5098.3	5224.1	5424.7	5578.2	5732.6	5881.5	6042.4	6165.4	6269.8	6310.5	6434.4
5°	4099.8	4256.9	4446.5	4788.6	5030.8	5298.1	5606.9	6015.6	6172.7	6390.0	6746.0
7.5°	2898.7	3041.1	3346.2	3622.7	3965.7	4343.9	4760.9	5324.9	5531.1	5879.6	6459.4
10°	2164.5	2330.0	2575.1	2808.1	3110.4	3496.9	3975.9	4606.4	4857.0	5235.2	5902.8
12.5°	1743.8	1938.9	2198.7	2417.9	2651.8	2924.6	3389.6	4081.3	4416.9	4747.9	5422.9
15°	1339.8	1544.1	1785.4	2063.7	2321.7	2615.7	3103.0	3859.4	4245.8	4590.7	5166.8
17.5°	927.4	1102.1	1406.3	1696.7	2026.8	2403.1	3023.5	3906.5	4367.9	4765.5	5211.1
20°	657.4	757.3	1006.9	1343.5	1754.9	2227.4	3008.7	4154.3	4754.4	5208.4	5495.9
22.5°	552.9	589.9	735.1	1043.9	1519.1	2096.1	3060.5	4502.0	5275.9	5855.6	5949.9
25°	503.9	526.1	601.9	819.2	1309.3	2000.9	3235.2	5019.8	5921.3	6502.8	6486.2
27.5°	477.1	500.2	550.1	691.6	1151.1	1941.7	3410.0	5633.7	6659.1	7205.5	6998.4
30°	468.8	500.2	552.9	651.9	1038.3	1848.3	3553.3	6172.7	7226.8	7679.9	7231.4
32.5°	462.3	466.9	491.0	562.2	931.1	1739.2	3650.4	6656.3	7782.5	8131.1	7567.1
35°	373.5	396.7	435.5	503.9	868.2	1673.6	3650.4	7073.3	8329.9	8586.9	7887.0
37.5°	359.7	380.0	414.2	472.5	833.1	1641.2	3577.3	7475.5	8889.3	9103.8	8150.5
40°	352.3	368.9	401.3	448.4	818.3	1604.2	3471.0	7830.6	9435.7	9621.6	8396.5
42.5°	346.7	361.5	392.0	433.6	798.9	1563.5	3385.0	8115.4	9910.1	10063.5	8631.3
45°	344.0	359.7	393.0	441.0	760.0	1509.9	3356.4	8423.3	10300.2	10432.5	8885.6
47.5°	344.0	362.5	397.6	456.8	713.8	1454.4	3446.1	8829.2	10669.2	10733.9	9185.2
50°	341.2	361.5	410.5	441.0	646.3	1384.2	3656.9	9340.5	11068.6	11076.0	9564.2
52.5°	335.6	359.7	442.0	431.8	568.6	1291.7	3941.6	9997.0	11659.4	11703.8	10157.9
55°	329.2	356.9	433.6	410.5	504.8	1181.7	4174.7	10794.9	12489.7	12612.7	11030.7
57.5°	320.8	353.2	419.8	380.9	463.2	1040.2	4258.8	11379.3	13069.5	13378.3	12014.5
60°	313.4	350.4	379.1	363.4	437.3	920.9	4096.1	11263.7	13029.7	13695.4	12886.4
62.5°	306.0	353.2	345.8	352.3	425.3	844.2	3670.7	10338.2	12370.5	13368.1	13532.7
65°	297.7	328.2	326.4	343.0	422.6	813.7	3042.9	8950.3	11096.3	12333.5	13685.3
67.5°	286.6	303.3	312.5	331.0	431.8	786.8	2455.8	7383.1	9325.7	10782.9	12890.1
70°	274.6	288.5	298.7	316.2	426.2	774.8	2042.5	5822.3	7399.7	8837.5	11321.0
72.5°	258.9	270.9	280.2	296.8	420.7	768.4	1725.3	4688.7	5524.6	6564.8	9204.6
75°	240.4	251.5	258.0	274.6	403.1	703.6	1356.4	3967.5	4134.0	4566.7	7331.3
77.5°	219.1	227.5	233.0	251.5	356.9	585.3	981.0	3060.5	3210.3	3315.7	5620.8
80°	194.2	202.5	205.3	222.8	295.9	457.7	639.8	2260.7	2401.2	2425.3	3670.7
82.5°	165.5	173.8	173.8	190.5	242.2	329.2	419.8	1548.7	1576.5	1657.8	2594.5
85°	133.1	139.6	139.6	147.9	187.7	245.9	288.5	777.6	769.3	878.4	2247.7
87.5°	95.2	99.9	104.5	106.3	134.1	162.7	173.8	236.7	156.3	179.4	1443.3
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: P193854

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7
2.5°	6527.8	6580.5	6526.9	6488.0	6320.7	6182.9	5998.9	5904.6
5°	7016.9	7151.0	7105.7	6943.0	6593.5	6200.5	5753.9	5552.3
7.5°	6957.8	7269.3	7276.7	6972.5	6457.5	5878.7	5274.0	4987.4
10°	6497.3	6895.8	7009.5	6714.6	6168.1	5520.9	4827.4	4500.1
12.5°	5983.2	6373.4	6460.3	6358.6	5901.8	5251.8	4548.2	4227.4
15°	5562.5	5737.3	5840.8	5929.6	5673.5	5144.6	4532.5	4180.2
17.5°	5306.4	5287.0	5316.6	5471.0	5514.4	5267.5	4772.9	4384.5
20°	5213.9	4917.1	4909.7	5122.4	5439.5	5560.7	5242.6	4776.6
22.5°	5264.8	4784.0	4722.9	4975.4	5479.3	5983.2	5858.4	5326.7
25°	5440.5	4795.1	4746.1	4990.2	5623.5	6433.5	6523.2	6038.7
27.5°	5716.9	4865.3	4800.6	5051.2	5814.9	6811.7	7177.8	6728.4
30°	5979.5	4987.4	4906.9	5171.4	5989.7	6961.4	7579.1	7266.6
32.5°	6298.5	5215.8	5074.3	5392.4	6206.0	7200.0	7936.9	7712.2
35°	6611.0	5541.2	5365.6	5733.6	6447.4	7496.8	8345.6	8281.8
37.5°	6954.1	5966.6	5821.4	6174.6	6777.4	7777.0	8867.1	8949.4
40°	7320.2	6530.6	6358.6	6818.1	7289.7	8128.3	9411.7	9609.6
42.5°	7689.1	7156.5	6951.3	7417.3	7852.8	8475.0	9877.7	10170.8
45°	8111.7	7836.1	7739.1	8243.0	8393.7	8805.1	10221.7	10586.0
47.5°	8603.6	8607.3	8763.5	8965.1	8939.2	9178.7	10567.5	10956.7
50°	9177.8	9569.8	9914.7	10048.7	9501.4	9580.0	11047.3	11453.2
52.5°	9867.5	10720.9	11148.1	11060.3	10107.0	10070.0	11807.4	12137.5
55°	10730.2	11939.6	12364.0	12301.1	10803.2	10737.6	12754.2	12946.5
57.5°	11728.8	13120.3	13510.5	13227.6	11639.1	11469.9	13537.3	13578.0
60°	12606.2	14056.0	14398.2	14084.7	12482.3	12249.3	14026.5	13829.5
62.5°	13094.4	14373.2	14613.6	14276.1	13060.2	13079.6	14133.7	13693.6
65°	12876.2	13571.5	13649.2	13621.5	12911.4	13561.4	13748.1	13065.8
67.5°	11681.6	11544.8	11675.2	11855.5	11635.4	12927.1	12680.2	11698.3
70°	9577.2	8825.5	9085.3	9206.4	9306.3	11124.1	11005.7	9528.2
72.5°	7217.6	6182.9	6388.2	6363.2	6825.5	8922.6	8559.2	7005.8
75°	5114.1	4192.2	4218.1	4207.9	4762.7	6980.9	6197.7	4793.2
77.5°	3578.3	3037.4	3051.2	3108.6	3202.0	5264.8	4428.0	3501.5
80°	2460.4	2305.1	2381.8	2386.4	2219.1	3536.7	3271.3	2809.9
82.5°	1832.6	1602.4	1583.9	1610.7	1739.2	2865.4	2514.0	1949.1
85°	1500.7	948.7	762.8	956.1	1541.3	2837.7	1669.9	1028.2
87.5°	845.1	450.3	203.4	377.2	614.9	1878.8	482.7	131.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)