

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: P193884

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193884
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 28006 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 382
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

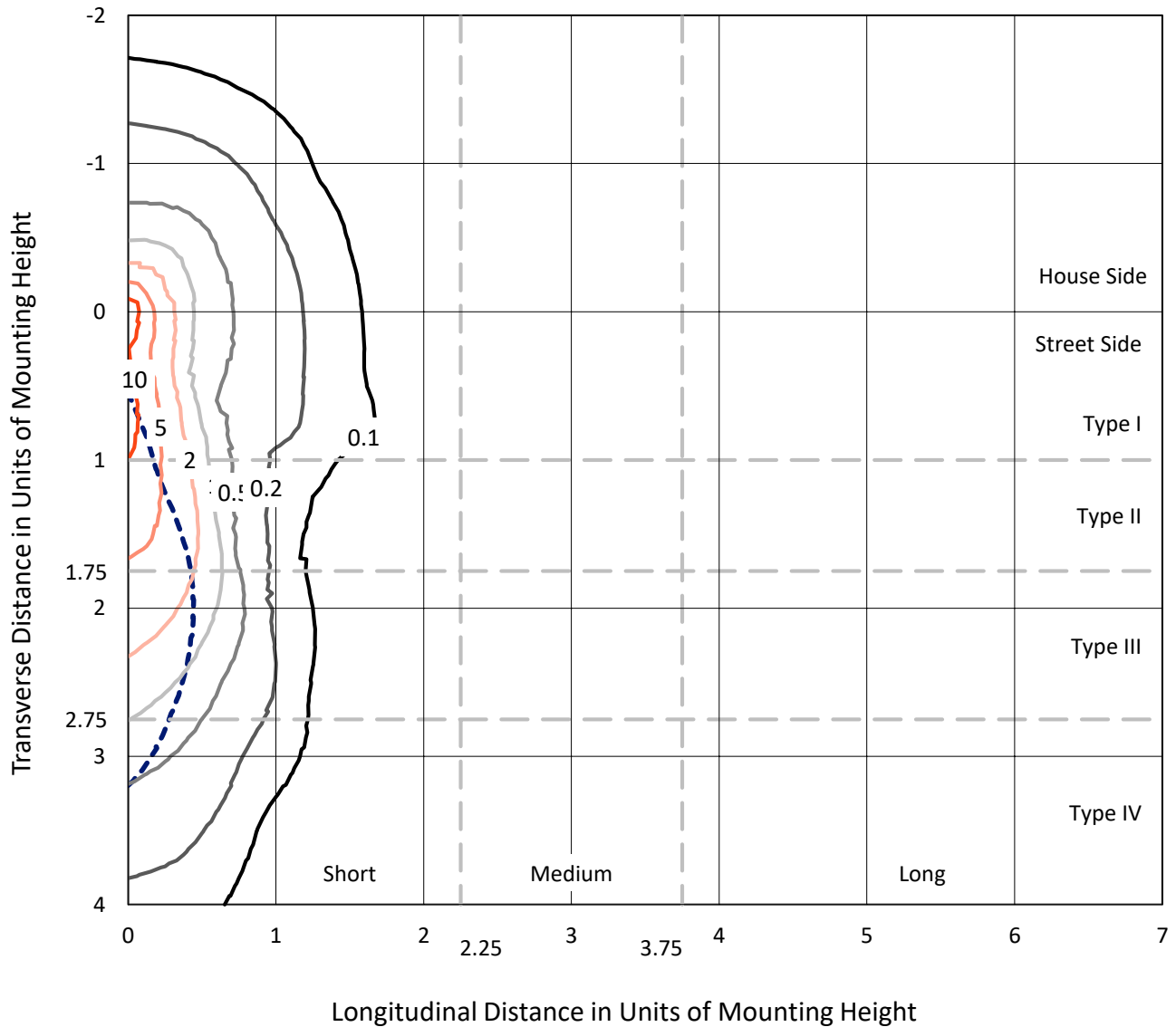


REPORT NUMBER: P193884

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

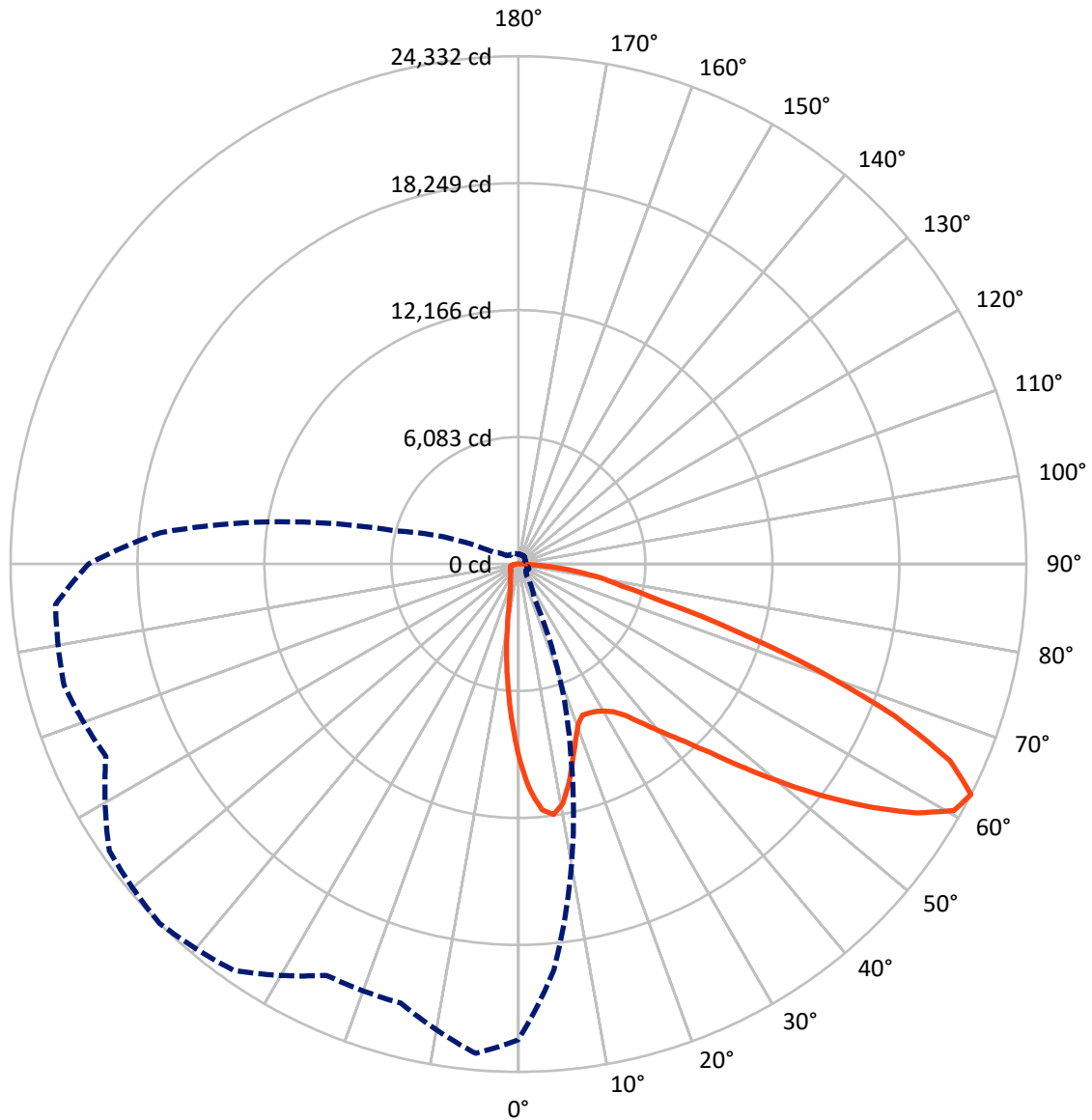


Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193884

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193884

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4634.6	0.0	4634.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23371.4	0.0	23371.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	28006.0	0.0	28006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.8	2.5
10°-20°	1263.0	4.5
20°-30°	1841.5	6.6
30°-40°	2836.2	10.1
40°-50°	4174.2	14.9
50°-60°	6122.6	21.9
60°-70°	6844.2	24.4
70°-80°	3350.8	12.0
80°-90°	884.7	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°	28006.0	100.0
0°-180°	28006.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193884

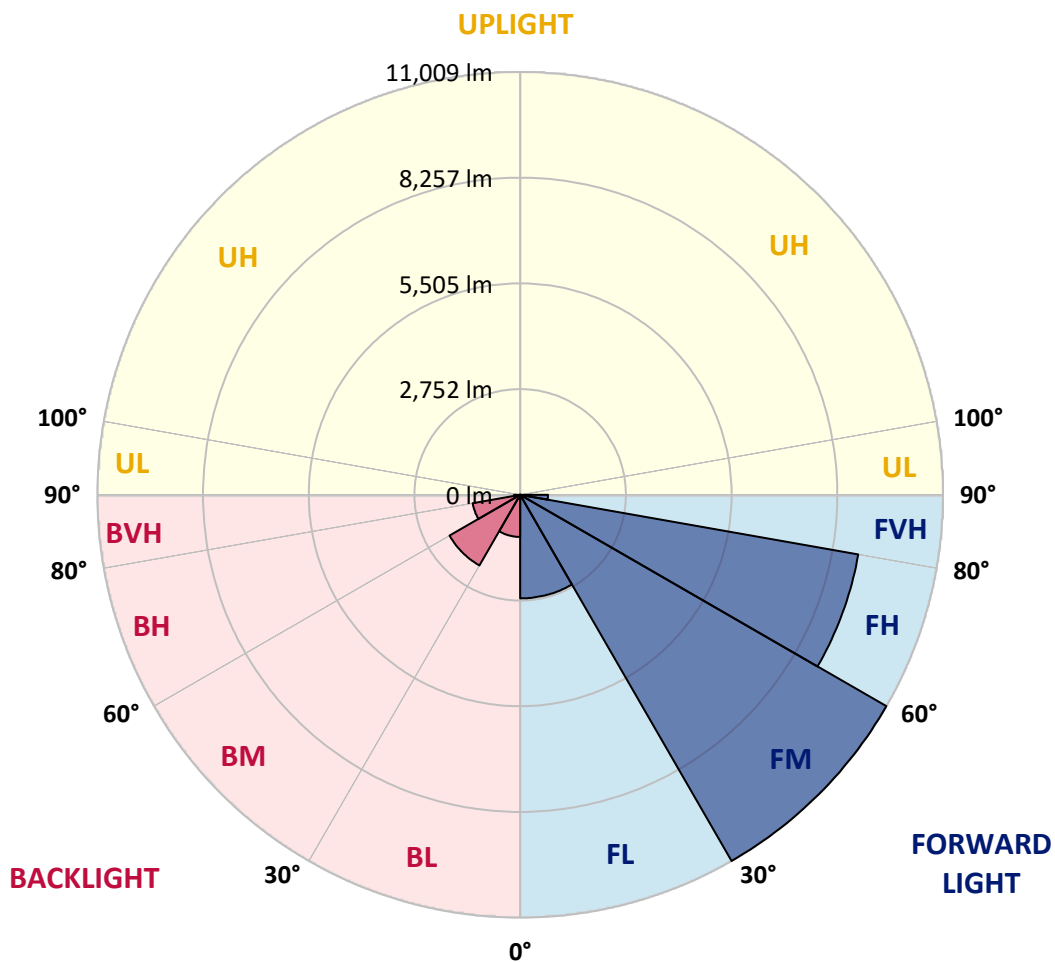
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2696.9	9.6			
FM	(30°-60°)	11009.4	39.3			
FH	(60°-80°)	8938.5	31.9			G4/12000
FVH	(80°-90°)	726.6	2.6			G4/750
BL	(0°-30°)	1096.5	3.9	B3/2500		
BM	(30°-60°)	2123.6	7.6	B2/2500		
BH	(60°-80°)	1256.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	158.1	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: P193884

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9
2.5°	9831.4	9631.3	9298.7	8952.4	8741.4	8495.1	8302.7	8133.3	7794.6	7728.4	7788.5
5°	9244.9	8843.0	8216.5	7585.3	7165.0	6713.9	6362.9	6081.1	5651.6	5576.2	5667.0
7.5°	8304.2	7823.9	6995.6	6190.4	5596.2	5032.7	4654.0	4352.2	4016.6	3871.9	3881.1
10°	7492.9	6951.0	5971.8	5095.8	4609.3	4229.1	3910.4	3601.0	3260.7	3037.5	2975.9
12.5°	7038.7	6415.2	5286.7	4504.7	4053.6	3653.3	3310.0	2979.0	2615.7	2387.8	2323.1
15°	6960.2	6282.8	5029.6	4125.9	3560.9	3054.4	2649.5	2280.0	1905.9	1721.2	1682.7
17.5°	7300.4	6519.9	4946.5	3788.8	3097.5	2472.5	1975.2	1562.6	1257.8	1165.4	1157.7
20°	7953.2	6975.6	4935.7	3471.6	2640.3	1907.5	1376.3	1076.1	942.2	916.0	917.6
22.5°	8869.2	7682.2	5068.1	3233.0	2220.0	1422.5	1034.6	900.6	848.3	823.6	823.6
25°	10054.7	8655.2	5373.0	3059.0	1855.1	1136.2	912.9	832.9	783.6	766.7	769.8
27.5°	11203.1	9602.0	5727.0	2922.0	1616.5	1031.5	865.2	792.9	749.7	732.8	740.5
30°	12099.1	10442.6	6022.6	2735.7	1494.9	1002.2	882.1	808.3	746.7	720.5	722.0
32.5°	12841.2	11178.5	6270.5	2601.8	1387.1	859.1	760.5	728.2	720.5	689.7	674.3
35°	13789.5	11980.6	6436.8	2604.9	1336.3	766.7	677.4	620.4	578.9	543.5	543.5
37.5°	14901.1	12901.2	6613.8	2640.3	1317.8	712.8	648.1	591.2	552.7	518.8	512.7
40°	16000.3	13803.4	6775.5	2674.2	1307.1	680.5	625.0	572.7	537.3	503.4	494.2
42.5°	16934.8	14545.5	6920.2	2691.1	1270.1	677.4	608.1	560.4	526.5	489.6	480.3
45°	17626.0	15167.4	7075.7	2717.3	1233.2	689.7	608.1	558.8	517.3	481.9	472.6
47.5°	18243.4	15897.2	7335.8	2717.3	1188.5	666.6	628.1	560.4	515.7	478.8	471.1
50°	19070.1	16897.9	7828.5	2654.1	1125.4	642.0	662.0	554.2	501.9	472.6	463.4
52.5°	20209.4	18180.3	8610.6	2544.8	1028.4	594.3	657.4	551.2	488.0	457.2	446.5
55°	21556.5	19553.5	9463.5	2417.1	883.7	560.4	634.3	543.5	472.6	438.8	428.0
57.5°	22608.0	20498.8	10063.9	2220.0	757.4	541.9	561.9	535.8	454.2	418.8	409.5
60°	23026.7	20461.9	10228.6	1956.7	695.9	526.5	491.1	600.4	438.8	403.4	392.6
62.5°	22800.4	19516.6	9766.8	1772.0	682.0	506.5	460.3	555.8	426.4	392.6	377.2
65°	21755.1	17841.6	8542.8	1722.7	722.0	486.5	440.3	435.7	409.5	377.2	361.8
67.5°	19478.1	15338.3	6840.1	1727.3	772.8	466.5	420.3	398.7	386.4	360.2	346.4
70°	15864.8	12126.9	5098.9	1739.7	799.0	443.4	398.7	375.6	361.8	335.6	326.4
72.5°	11665.0	9346.5	3704.1	1659.6	803.6	417.2	369.5	349.5	335.6	307.9	300.2
75°	7980.9	7149.6	2569.5	1374.8	700.5	380.3	337.2	318.7	309.4	275.6	271.0
77.5°	5830.2	5366.8	1644.2	1020.7	540.4	334.1	297.1	283.3	277.1	240.2	234.0
80°	4678.6	4246.0	1028.4	698.9	395.7	280.2	249.4	241.7	235.5	198.6	194.0
82.5°	3245.3	2843.5	660.5	454.2	297.1	217.1	197.1	194.0	184.7	150.9	146.3
85°	1712.0	1544.1	418.8	309.4	215.5	149.3	137.0	137.0	132.4	100.1	97.0
87.5°	218.6	355.6	212.5	161.7	118.5	66.2	66.2	64.7	69.3	57.0	49.3
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: P193884

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9
2.5°	7646.8	7720.7	7649.9	7654.5	7733.0	7967.1	8073.3	8161.0	8254.9	8316.5	8344.2
5°	5542.3	5714.7	5773.2	5896.4	6078.1	6376.7	6495.3	6581.5	6638.4	6672.3	6686.2
7.5°	3790.3	3895.0	4012.0	4210.6	4606.3	4781.8	4860.3	4840.3	4775.6	4752.5	4729.4
10°	2857.4	2815.8	2794.2	2903.5	3223.8	3400.8	3456.2	3402.4	3366.9	3374.6	3413.1
12.5°	2213.8	2141.5	2053.7	2041.4	2252.3	2410.9	2446.3	2449.4	2514.0	2571.0	2655.7
15°	1613.4	1605.7	1562.6	1536.4	1656.5	1785.9	1801.2	1829.0	1887.5	1929.0	2002.9
17.5°	1137.7	1179.3	1213.1	1230.1	1320.9	1413.3	1396.4	1382.5	1371.7	1371.7	1407.1
20°	917.6	945.3	988.4	1037.6	1130.0	1194.7	1153.1	1097.7	1057.7	1045.3	1050.0
22.5°	826.7	848.3	872.9	916.0	999.2	1043.8	999.2	959.1	919.1	905.2	900.6
25°	780.5	808.3	831.3	863.7	925.3	956.0	912.9	883.7	859.1	842.1	829.8
27.5°	754.4	779.0	785.2	800.6	852.9	880.6	859.1	846.7	831.3	815.9	800.6
30°	726.7	722.0	711.3	712.8	754.4	782.1	780.5	783.6	782.1	777.5	774.4
32.5°	663.5	654.3	645.1	654.3	692.8	717.4	719.0	725.1	725.1	723.6	735.9
35°	552.7	569.6	580.4	608.1	654.3	675.9	666.6	651.2	623.5	606.6	605.0
37.5°	511.1	514.2	532.7	571.2	622.0	642.0	628.1	592.7	574.2	571.2	575.8
40°	491.1	494.2	505.0	540.4	591.2	611.2	598.9	572.7	555.8	554.2	561.9
42.5°	477.3	480.3	486.5	511.1	552.7	577.3	578.9	560.4	540.4	541.9	549.6
45°	469.6	471.1	469.6	481.9	520.4	549.6	561.9	549.6	532.7	535.8	545.0
47.5°	468.0	463.4	457.2	460.3	500.3	529.6	545.0	540.4	532.7	535.8	543.5
50°	461.9	451.1	443.4	441.8	481.9	512.7	526.5	526.5	529.6	535.8	543.5
52.5°	443.4	431.1	431.1	426.4	469.6	498.8	508.0	509.6	514.2	525.0	535.8
55°	420.3	415.7	420.3	412.6	460.3	488.0	492.6	495.7	498.8	508.0	523.4
57.5°	400.3	394.1	404.9	401.8	452.6	477.3	477.3	483.4	483.4	495.7	508.0
60°	389.5	377.2	381.8	384.9	441.8	468.0	464.9	471.1	474.2	485.0	494.2
62.5°	375.6	364.9	364.9	372.6	429.5	454.2	452.6	457.2	469.6	472.6	481.9
65°	358.7	354.1	349.5	358.7	417.2	438.8	440.3	446.5	457.2	460.3	468.0
67.5°	341.8	343.3	334.1	343.3	406.4	423.4	423.4	435.7	440.3	446.5	454.2
70°	323.3	324.8	317.1	327.9	398.7	406.4	404.9	421.8	424.9	429.5	437.2
72.5°	300.2	300.2	297.1	312.5	386.4	389.5	386.4	400.3	401.8	406.4	409.5
75°	275.6	275.6	272.5	294.0	378.7	371.0	361.8	372.6	375.6	378.7	378.7
77.5°	243.2	246.3	246.3	272.5	352.6	363.3	332.5	338.7	343.3	344.9	340.2
80°	203.2	210.9	214.0	247.9	295.6	335.6	297.1	301.7	303.3	303.3	297.1
82.5°	155.5	169.3	177.0	214.0	226.3	281.7	258.6	263.3	258.6	249.4	246.3
85°	107.8	126.2	135.5	163.2	170.9	217.1	215.5	215.5	206.3	194.0	192.4
87.5°	58.5	69.3	75.4	97.0	117.0	146.3	158.6	154.0	146.3	138.6	140.1
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: P193884

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9
2.5°	8489.0	8698.3	9032.4	9288.0	9545.1	9792.9	10060.8	10265.6	10439.5	10507.3	10713.6
5°	6826.3	7088.0	7403.6	7973.2	8376.6	8821.5	9335.7	10016.2	10277.9	10639.7	11232.4
7.5°	4826.4	5063.5	5571.5	6031.9	6603.0	7232.7	7927.0	8866.1	9209.5	9789.9	10755.1
10°	3604.0	3879.6	4287.6	4675.5	5179.0	5822.5	6620.0	7669.9	8087.1	8716.8	9828.3
12.5°	2903.5	3228.4	3661.0	4025.9	4415.4	4869.5	5643.9	6795.5	7354.3	7905.5	9029.3
15°	2230.8	2571.0	2972.8	3436.2	3865.8	4355.3	5166.7	6426.0	7069.5	7643.8	8602.9
17.5°	1544.1	1835.1	2341.6	2825.0	3374.6	4001.2	5034.3	6504.5	7272.7	7934.7	8676.8
20°	1094.6	1260.9	1676.5	2236.9	2922.0	3708.7	5009.6	6917.1	7916.2	8672.2	9151.0
22.5°	920.6	982.2	1223.9	1738.1	2529.4	3490.1	5095.8	7496.0	8784.5	9749.8	9906.9
25°	839.0	876.0	1002.2	1364.0	2180.0	3331.5	5386.8	8358.1	9859.1	10827.5	10799.8
27.5°	794.4	832.9	916.0	1151.6	1916.7	3233.0	5677.8	9380.3	11087.7	11997.5	11652.7
30°	780.5	832.9	920.6	1085.4	1728.9	3077.5	5916.4	10277.9	12032.9	12787.3	12040.6
32.5°	769.8	777.5	817.5	936.0	1550.3	2895.9	6078.1	11083.1	12958.2	13538.6	12599.5
35°	622.0	660.5	725.1	839.0	1445.6	2786.5	6078.1	11777.4	13869.6	14297.6	13132.2
37.5°	598.9	632.7	689.7	786.7	1387.1	2732.7	5956.4	12447.1	14801.0	15158.2	13570.9
40°	586.6	614.3	668.2	746.7	1362.5	2671.1	5779.4	13038.3	15710.9	16020.3	13980.4
42.5°	577.3	602.0	652.8	722.0	1330.2	2603.3	5636.2	13512.4	16500.7	16756.2	14371.5
45°	572.7	598.9	654.3	734.4	1265.5	2514.0	5588.5	14025.1	17150.3	17370.5	14794.9
47.5°	572.7	603.5	662.0	760.5	1188.5	2421.7	5737.8	14700.9	17764.6	17872.4	15293.7
50°	568.1	602.0	683.6	734.4	1076.1	2304.7	6088.8	15552.3	18429.7	18442.0	15924.9
52.5°	558.8	598.9	735.9	719.0	946.8	2150.7	6563.0	16645.4	19413.4	19487.3	16913.2
55°	548.1	594.3	722.0	683.6	840.6	1967.5	6951.0	17974.0	20795.9	21000.7	18366.6
57.5°	534.2	588.1	698.9	634.3	771.3	1732.0	7091.1	18947.0	21761.2	22275.4	20004.6
60°	521.9	583.5	631.2	605.0	728.2	1533.4	6820.1	18754.5	21695.0	22803.5	21456.4
62.5°	509.6	588.1	575.8	586.6	708.2	1405.6	6111.9	17213.5	20597.3	22258.5	22532.5
65°	495.7	546.5	543.5	571.2	703.6	1354.8	5066.6	14902.6	18475.9	20535.8	22786.5
67.5°	477.3	505.0	520.4	551.2	719.0	1310.1	4089.0	12293.1	15527.7	17954.0	21462.6
70°	457.2	480.3	497.3	526.5	709.7	1290.1	3400.8	9694.4	12320.8	14714.8	18850.0
72.5°	431.1	451.1	466.5	494.2	700.5	1279.3	2872.8	7806.9	9198.7	10930.6	15326.0
75°	400.3	418.8	429.5	457.2	671.2	1171.6	2258.5	6606.1	6883.2	7603.7	12206.9
77.5°	364.9	378.7	388.0	418.8	594.3	974.5	1633.4	5095.8	5345.2	5520.7	9358.8
80°	323.3	337.2	341.8	371.0	492.6	762.1	1065.4	3764.1	3998.2	4038.2	6111.9
82.5°	275.6	289.4	289.4	317.1	403.4	548.1	698.9	2578.7	2624.9	2760.4	4319.9
85°	221.7	232.5	232.5	246.3	312.5	409.5	480.3	1294.7	1280.9	1462.6	3742.6
87.5°	158.6	166.3	174.0	177.0	223.2	271.0	289.4	394.1	260.2	298.7	2403.2
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: P193884

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9
2.5°	10869.1	10956.8	10867.5	10802.9	10524.2	10294.8	9988.5	9831.4
5°	11683.5	11906.7	11831.3	11560.3	10978.4	10324.1	9580.5	9244.9
7.5°	11584.9	12103.8	12116.1	11609.6	10752.1	9788.3	8781.5	8304.2
10°	10818.3	11481.8	11671.2	11180.0	10270.2	9192.5	8037.9	7492.9
12.5°	9962.3	10612.0	10756.7	10587.3	9826.8	8744.5	7572.9	7038.7
15°	9261.8	9552.8	9725.2	9873.0	9446.5	8565.9	7546.8	6960.2
17.5°	8835.3	8803.0	8852.3	9109.4	9181.7	8770.7	7947.0	7300.4
20°	8681.4	8187.2	8174.9	8529.0	9057.0	9258.7	8729.1	7953.2
22.5°	8766.1	7965.5	7863.9	8284.2	9123.2	9962.3	9754.4	8869.2
25°	9058.6	7984.0	7902.4	8308.8	9363.4	10712.0	10861.4	10054.7
27.5°	9518.9	8101.0	7993.2	8410.4	9682.1	11341.7	11951.4	11203.1
30°	9956.1	8304.2	8170.3	8610.6	9973.1	11591.1	12619.5	12099.1
32.5°	10487.3	8684.5	8448.9	8978.5	10333.3	11988.3	13215.3	12841.2
35°	11007.6	9226.4	8933.9	9546.6	10735.1	12482.5	13895.8	13789.5
37.5°	11578.8	9934.6	9692.9	10281.0	11284.7	12949.0	14764.1	14901.1
40°	12188.4	10873.7	10587.3	11352.5	12137.6	13534.0	15670.8	16000.3
42.5°	12802.7	11915.9	11574.2	12350.1	13075.2	14111.3	16446.8	16934.8
45°	13506.3	13047.5	12885.8	13724.9	13975.8	14660.9	17019.5	17626.0
47.5°	14325.3	14331.5	14591.6	14927.3	14884.2	15282.9	17595.3	18243.4
50°	15281.3	15934.1	16508.4	16731.6	15820.2	15951.0	18394.3	19070.1
52.5°	16429.8	17850.8	18562.1	18415.8	16828.6	16767.0	19659.8	20209.4
55°	17866.2	19879.9	20586.6	20481.9	17987.8	17878.5	21236.2	21556.5
57.5°	19528.9	21845.9	22495.6	22024.5	19379.6	19097.8	22540.2	22608.0
60°	20989.9	23403.9	23973.5	23451.6	20783.6	20395.7	23354.6	23026.7
62.5°	21802.8	23932.0	24332.2	23770.3	21745.8	21778.2	23533.2	22800.4
65°	21439.5	22597.2	22726.5	22680.3	21498.0	22580.2	22891.2	21755.1
67.5°	19450.4	19222.5	19439.6	19739.8	19373.4	21524.1	21113.1	19478.1
70°	15946.4	14694.8	15127.4	15329.1	15495.3	18522.1	18325.0	15864.8
72.5°	12017.6	10294.8	10636.6	10595.0	11364.8	14856.4	14251.4	11665.0
75°	8515.1	6980.2	7023.3	7006.4	7930.1	11623.4	10319.5	7980.9
77.5°	5958.0	5057.3	5080.4	5175.9	5331.4	8766.1	7372.8	5830.2
80°	4096.7	3838.0	3965.8	3973.5	3694.9	5888.7	5446.8	4678.6
82.5°	3051.3	2668.0	2637.2	2681.9	2895.9	4771.0	4186.0	3245.3
85°	2498.7	1579.6	1270.1	1591.9	2566.4	4724.8	2780.4	1712.0
87.5°	1407.1	749.7	338.7	628.1	1023.8	3128.3	803.6	218.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)