

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: P193882

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193882
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-04-LED-E1-SLR-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 18889 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 258
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

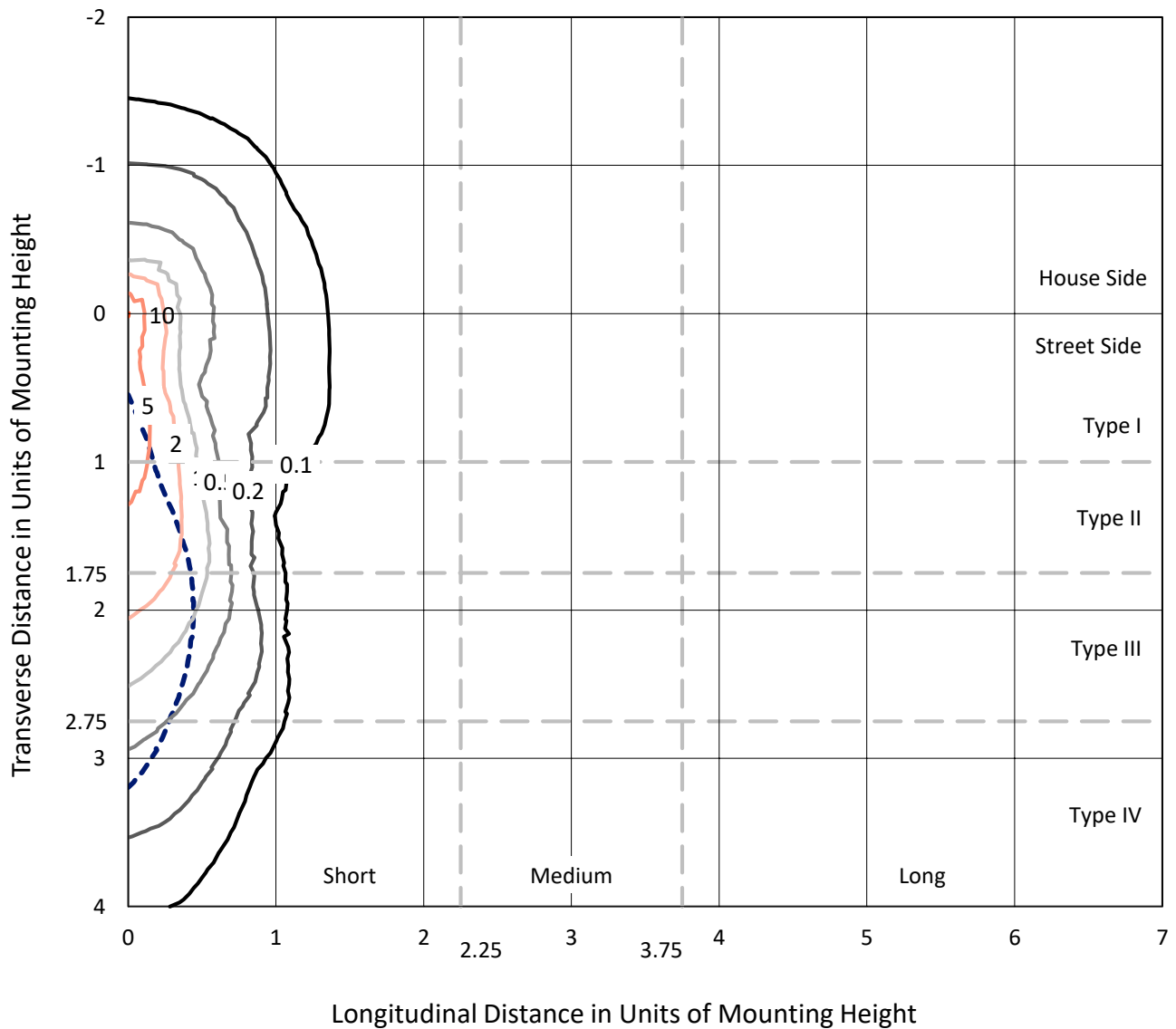


REPORT NUMBER: P193882

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

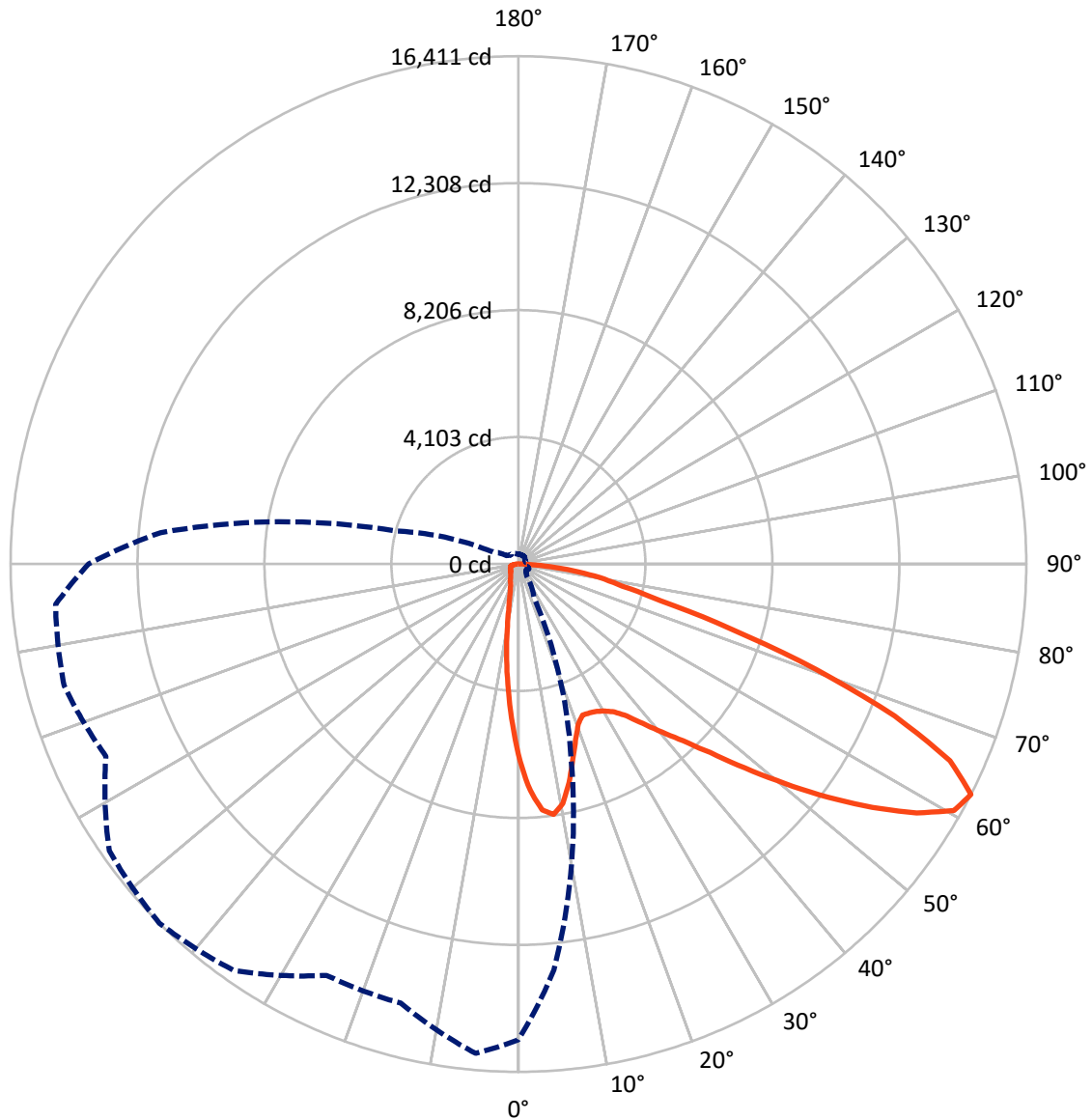


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193882

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-8030-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193882

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3125.9	0.0	3125.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	15763.1	0.0	15763.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	18889.0	0.0	18889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.6	2.5
10°-20°	851.9	4.5
20°-30°	1242.0	6.6
30°-40°	1912.9	10.1
40°-50°	2815.3	14.9
50°-60°	4129.5	21.9
60°-70°	4616.1	24.4
70°-80°	2260.0	12.0
80°-90°	596.7	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°	18889.0	100.0
0°-180°	18889.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193882

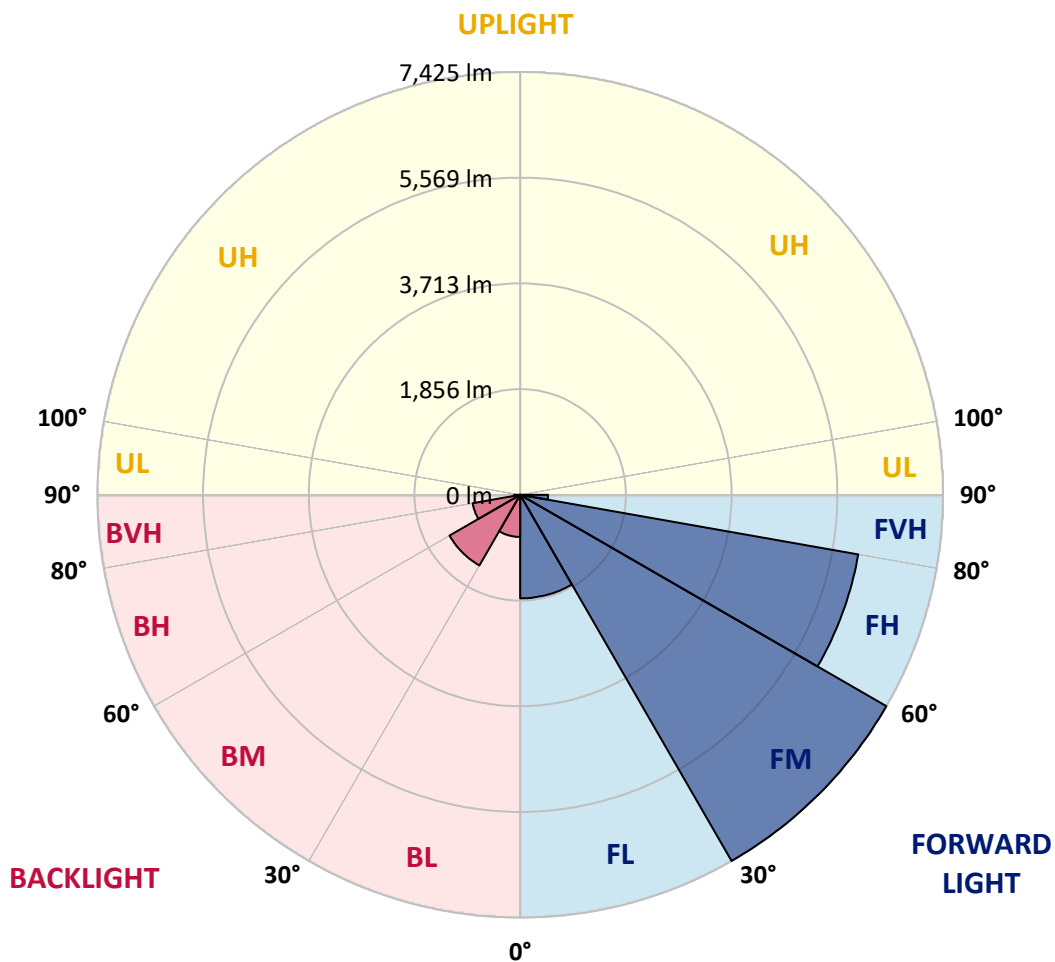
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1818.9	9.6			
FM	(30°-60°)	7425.4	39.3			
FH	(60°-80°)	6028.7	31.9			G3/7500
FVH	(80°-90°)	490.0	2.6			G3/500
BL	(0°-30°)	739.5	3.9	B2/1000		
BM	(30°-60°)	1432.2	7.6	B2/2500		
BH	(60°-80°)	847.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	106.7	0.6			G2/225
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: P193882

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7
2.5°	6630.9	6495.9	6271.7	6038.0	5895.8	5729.6	5599.8	5485.6	5257.2	5212.5	5253.0
5°	6235.3	5964.3	5541.7	5116.0	4832.5	4528.3	4291.5	4101.5	3811.8	3760.9	3822.2
7.5°	5600.9	5276.9	4718.3	4175.2	3774.4	3394.4	3138.9	2935.4	2709.1	2611.5	2617.7
10°	5053.7	4688.2	4027.8	3437.0	3108.8	2852.4	2637.4	2428.7	2199.2	2048.7	2007.1
12.5°	4747.4	4326.8	3565.7	3038.2	2734.0	2464.0	2232.5	2009.2	1764.2	1610.5	1566.9
15°	4694.4	4237.5	3392.3	2782.8	2401.7	2060.1	1787.0	1537.8	1285.5	1160.9	1134.9
17.5°	4923.9	4397.4	3336.2	2555.4	2089.2	1667.6	1332.2	1053.9	848.3	786.0	780.8
20°	5364.1	4704.8	3329.0	2341.5	1780.8	1286.5	928.3	725.8	635.5	617.8	618.9
22.5°	5982.0	5181.4	3418.3	2180.5	1497.3	959.4	697.8	607.4	572.1	555.5	555.5
25°	6781.5	5837.6	3623.9	2063.2	1251.2	766.3	615.7	561.7	528.5	517.1	519.2
27.5°	7556.1	6476.2	3862.7	1970.8	1090.3	695.7	583.6	534.8	505.7	494.3	499.4
30°	8160.4	7043.2	4062.0	1845.2	1008.2	676.0	595.0	545.1	503.6	485.9	487.0
32.5°	8660.9	7539.5	4229.2	1754.8	935.6	579.4	512.9	491.1	485.9	465.2	454.8
35°	9300.5	8080.5	4341.4	1756.9	901.3	517.1	456.9	418.5	390.4	366.5	366.5
37.5°	10050.2	8701.4	4460.8	1780.8	888.8	480.8	437.1	398.7	372.8	349.9	345.8
40°	10791.6	9309.9	4569.8	1803.6	881.6	459.0	421.6	386.3	362.4	339.5	333.3
42.5°	11421.9	9810.4	4667.4	1815.0	856.6	456.9	410.1	378.0	355.1	330.2	324.0
45°	11888.1	10229.9	4772.3	1832.7	831.7	465.2	410.1	376.9	348.9	325.0	318.8
47.5°	12304.5	10722.0	4947.8	1832.7	801.6	449.6	423.6	378.0	347.8	322.9	317.7
50°	12862.1	11397.0	5280.0	1790.1	759.0	433.0	446.5	373.8	338.5	318.8	312.5
52.5°	13630.5	12261.9	5807.5	1716.4	693.6	400.8	443.4	371.7	329.2	308.4	301.1
55°	14539.0	13188.1	6382.8	1630.2	596.0	378.0	427.8	366.5	318.8	295.9	288.7
57.5°	15248.2	13825.7	6787.7	1497.3	510.9	365.5	379.0	361.3	306.3	282.4	276.2
60°	15530.7	13800.8	6898.8	1319.7	469.3	355.1	331.2	405.0	295.9	272.0	264.8
62.5°	15378.0	13163.2	6587.3	1195.1	460.0	341.6	310.5	374.8	287.6	264.8	254.4
65°	14673.0	12033.5	5761.8	1161.9	487.0	328.1	297.0	293.9	276.2	254.4	244.0
67.5°	13137.3	10345.1	4613.4	1165.0	521.3	314.6	283.5	268.9	260.6	243.0	233.6
70°	10700.2	8179.1	3439.0	1173.3	538.9	299.0	268.9	253.4	244.0	226.4	220.1
72.5°	7867.6	6303.8	2498.3	1119.3	542.0	281.4	249.2	235.7	226.4	207.7	202.5
75°	5382.8	4822.1	1733.0	927.2	472.5	256.5	227.4	214.9	208.7	185.9	182.8
77.5°	3932.2	3619.7	1109.0	688.4	364.5	225.3	200.4	191.1	186.9	162.0	157.8
80°	3155.6	2863.8	693.6	471.4	266.9	189.0	168.2	163.0	158.9	133.9	130.8
82.5°	2188.8	1917.8	445.5	306.3	200.4	146.4	132.9	130.8	124.6	101.8	98.6
85°	1154.6	1041.5	282.4	208.7	145.4	100.7	92.4	92.4	89.3	67.5	65.4
87.5°	147.4	239.9	143.3	109.0	80.0	44.6	44.6	43.6	46.7	38.4	33.2
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: P193882

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7
2.5°	5157.5	5207.3	5159.6	5162.7	5215.7	5373.5	5445.1	5504.3	5567.7	5609.2	5627.9
5°	3738.1	3854.4	3893.8	3976.9	4099.4	4300.9	4380.8	4439.0	4477.4	4500.2	4509.6
7.5°	2556.4	2627.0	2705.9	2839.9	3106.8	3225.1	3278.1	3264.6	3221.0	3205.4	3189.8
10°	1927.2	1899.1	1884.6	1958.3	2174.3	2293.7	2331.1	2294.8	2270.9	2276.1	2302.0
12.5°	1493.2	1444.3	1385.2	1376.9	1519.1	1626.1	1649.9	1652.0	1695.6	1734.1	1791.2
15°	1088.2	1083.0	1053.9	1036.3	1117.3	1204.5	1214.9	1233.6	1273.0	1301.1	1350.9
17.5°	767.3	795.4	818.2	829.6	890.9	953.2	941.8	932.4	925.2	925.2	949.1
20°	618.9	637.5	666.6	699.9	762.2	805.8	777.7	740.3	713.3	705.0	708.2
22.5°	557.6	572.1	588.7	617.8	673.9	704.0	673.9	646.9	619.9	610.6	607.4
25°	526.4	545.1	560.7	582.5	624.1	644.8	615.7	596.0	579.4	568.0	559.7
27.5°	508.8	525.4	529.6	539.9	575.2	593.9	579.4	571.1	560.7	550.3	539.9
30°	490.1	487.0	479.7	480.8	508.8	527.5	526.4	528.5	527.5	524.4	522.3
32.5°	447.5	441.3	435.1	441.3	467.3	483.9	484.9	489.1	489.1	488.0	496.3
35°	372.8	384.2	391.5	410.1	441.3	455.8	449.6	439.2	420.5	409.1	408.1
37.5°	344.7	346.8	359.3	385.2	419.5	433.0	423.6	399.8	387.3	385.2	388.3
40°	331.2	333.3	340.6	364.5	398.7	412.2	403.9	386.3	374.8	373.8	379.0
42.5°	321.9	324.0	328.1	344.7	372.8	389.4	390.4	378.0	364.5	365.5	370.7
45°	316.7	317.7	316.7	325.0	351.0	370.7	379.0	370.7	359.3	361.3	367.6
47.5°	315.7	312.5	308.4	310.5	337.5	357.2	367.6	364.5	359.3	361.3	366.5
50°	311.5	304.2	299.0	298.0	325.0	345.8	355.1	355.1	357.2	361.3	366.5
52.5°	299.0	290.7	290.7	287.6	316.7	336.4	342.7	343.7	346.8	354.1	361.3
55°	283.5	280.4	283.5	278.3	310.5	329.2	332.3	334.3	336.4	342.7	353.0
57.5°	270.0	265.8	273.1	271.0	305.3	321.9	321.9	326.0	326.0	334.3	342.7
60°	262.7	254.4	257.5	259.6	298.0	315.7	313.6	317.7	319.8	327.1	333.3
62.5°	253.4	246.1	246.1	251.3	289.7	306.3	305.3	308.4	316.7	318.8	325.0
65°	241.9	238.8	235.7	241.9	281.4	295.9	297.0	301.1	308.4	310.5	315.7
67.5°	230.5	231.6	225.3	231.6	274.1	285.5	285.5	293.9	297.0	301.1	306.3
70°	218.1	219.1	213.9	221.2	268.9	274.1	273.1	284.5	286.6	289.7	294.9
72.5°	202.5	202.5	200.4	210.8	260.6	262.7	260.6	270.0	271.0	274.1	276.2
75°	185.9	185.9	183.8	198.3	255.4	250.2	244.0	251.3	253.4	255.4	255.4
77.5°	164.1	166.1	166.1	183.8	237.8	245.1	224.3	228.4	231.6	232.6	229.5
80°	137.1	142.3	144.3	167.2	199.4	226.4	200.4	203.5	204.6	204.6	200.4
82.5°	104.9	114.2	119.4	144.3	152.6	190.0	174.4	177.6	174.4	168.2	166.1
85°	72.7	85.1	91.4	110.1	115.3	146.4	145.4	145.4	139.1	130.8	129.8
87.5°	39.5	46.7	50.9	65.4	78.9	98.6	107.0	103.8	98.6	93.5	94.5
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: P193882

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7
2.5°	5725.5	5866.7	6092.0	6264.4	6437.8	6605.0	6785.6	6923.7	7041.1	7086.8	7225.9
5°	4604.1	4780.6	4993.4	5377.6	5649.7	5949.8	6296.6	6755.5	6932.0	7176.1	7575.8
7.5°	3255.2	3415.1	3757.8	4068.3	4453.5	4878.2	5346.5	5979.9	6211.4	6602.9	7253.9
10°	2430.8	2616.7	2891.8	3153.5	3493.0	3927.1	4464.9	5173.1	5454.5	5879.2	6628.8
12.5°	1958.3	2177.4	2469.2	2715.3	2978.0	3284.3	3806.6	4583.3	4960.2	5331.9	6089.9
15°	1504.6	1734.1	2005.1	2317.6	2607.3	2937.5	3484.7	4334.1	4768.1	5155.4	5802.3
17.5°	1041.5	1237.7	1579.3	1905.4	2276.1	2698.7	3395.4	4387.0	4905.2	5351.7	5852.2
20°	738.3	850.4	1130.8	1508.7	1970.8	2501.4	3378.8	4665.3	5339.2	5849.0	6172.0
22.5°	620.9	662.5	825.5	1172.3	1706.0	2353.9	3437.0	5055.7	5924.8	6575.9	6681.8
25°	565.9	590.8	676.0	920.0	1470.3	2247.0	3633.2	5637.2	6649.6	7302.7	7284.1
27.5°	535.8	561.7	617.8	776.7	1292.8	2180.5	3829.4	6326.7	7478.2	8091.9	7859.3
30°	526.4	561.7	620.9	732.0	1166.1	2075.7	3990.4	6932.0	8115.8	8624.6	8121.0
32.5°	519.2	524.4	551.4	631.3	1045.6	1953.1	4099.4	7475.1	8739.8	9131.3	8497.9
35°	419.5	445.5	489.1	565.9	975.0	1879.4	4099.4	7943.4	9354.5	9643.2	8857.2
37.5°	403.9	426.8	465.2	530.6	935.6	1843.1	4017.4	8395.1	9982.7	10223.6	9153.1
40°	395.6	414.3	450.6	503.6	918.9	1801.5	3898.0	8793.8	10596.4	10805.1	9429.3
42.5°	389.4	406.0	440.3	487.0	897.1	1755.9	3801.4	9113.6	11129.1	11301.4	9693.0
45°	386.3	403.9	441.3	495.3	853.5	1695.6	3769.2	9459.4	11567.3	11715.7	9978.6
47.5°	386.3	407.0	446.5	512.9	801.6	1633.3	3869.9	9915.2	11981.6	12054.2	10315.0
50°	383.2	406.0	461.0	495.3	725.8	1554.4	4106.7	10489.4	12430.1	12438.4	10740.7
52.5°	376.9	403.9	496.3	484.9	638.6	1450.6	4426.5	11226.7	13093.6	13143.5	11407.4
55°	369.7	400.8	487.0	461.0	566.9	1327.0	4688.2	12122.8	14026.1	14164.2	12387.6
57.5°	360.3	396.7	471.4	427.8	520.2	1168.1	4782.7	12779.0	14677.1	15023.9	13492.4
60°	352.0	393.5	425.7	408.1	491.1	1034.2	4599.9	12649.2	14632.5	15380.1	14471.5
62.5°	343.7	396.7	388.3	395.6	477.6	948.0	4122.3	11609.8	13892.1	15012.5	15197.3
65°	334.3	368.6	366.5	385.2	474.5	913.8	3417.2	10051.3	12461.3	13850.6	15368.7
67.5°	321.9	340.6	351.0	371.7	484.9	883.6	2757.9	8291.3	10472.8	12109.3	14475.7
70°	308.4	324.0	335.4	355.1	478.7	870.1	2293.7	6538.5	8309.9	9924.6	12713.6
72.5°	290.7	304.2	314.6	333.3	472.5	862.9	1937.6	5265.5	6204.2	7372.3	10336.8
75°	270.0	282.4	289.7	308.4	452.7	790.2	1523.3	4455.6	4642.5	5128.4	8233.1
77.5°	246.1	255.4	261.7	282.4	400.8	657.3	1101.7	3437.0	3605.2	3723.5	6312.2
80°	218.1	227.4	230.5	250.2	332.3	514.0	718.5	2538.8	2696.6	2723.6	4122.3
82.5°	185.9	195.2	195.2	213.9	272.0	369.7	471.4	1739.2	1770.4	1861.8	2913.6
85°	149.5	156.8	156.8	166.1	210.8	276.2	324.0	873.3	863.9	986.4	2524.2
87.5°	107.0	112.1	117.3	119.4	150.6	182.8	195.2	265.8	175.5	201.4	1620.9
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: P193882

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7
2.5°	7330.8	7390.0	7329.7	7286.1	7098.2	6943.5	6736.8	6630.9
5°	7880.1	8030.6	7979.7	7797.0	7404.5	6963.2	6461.7	6235.3
7.5°	7813.6	8163.5	8171.8	7830.2	7251.9	6601.9	5922.8	5600.9
10°	7296.5	7744.0	7871.8	7540.5	6926.9	6200.0	5421.2	5053.7
12.5°	6719.2	7157.4	7255.0	7140.8	6627.8	5897.8	5107.7	4747.4
15°	6246.7	6443.0	6559.3	6659.0	6371.3	5777.4	5090.0	4694.4
17.5°	5959.1	5937.3	5970.5	6143.9	6192.7	5915.5	5360.0	4923.9
20°	5855.3	5522.0	5513.7	5752.5	6108.6	6244.7	5887.5	5364.1
22.5°	5912.4	5372.4	5303.9	5587.4	6153.3	6719.2	6579.0	5982.0
25°	6109.7	5384.9	5329.9	5604.0	6315.3	7224.9	7325.6	6781.5
27.5°	6420.1	5463.8	5391.1	5672.5	6530.2	7649.6	8060.7	7556.1
30°	6715.0	5600.9	5510.5	5807.5	6726.5	7817.8	8511.4	8160.4
32.5°	7073.3	5857.4	5698.5	6055.7	6969.4	8085.7	8913.2	8660.9
35°	7424.2	6222.9	6025.6	6438.8	7240.4	8419.0	9372.2	9300.5
37.5°	7809.5	6700.5	6537.5	6934.1	7611.1	8733.6	9957.8	10050.2
40°	8220.6	7333.9	7140.8	7656.8	8186.4	9128.2	10569.4	10791.6
42.5°	8634.9	8036.9	7806.3	8329.7	8818.7	9517.5	11092.7	11421.9
45°	9109.5	8800.0	8691.0	9256.9	9426.2	9888.2	11479.0	11888.1
47.5°	9661.9	9666.0	9841.5	10067.9	10038.8	10307.7	11867.3	12304.5
50°	10306.7	10747.0	11134.3	11284.8	10670.1	10758.4	12406.2	12862.1
52.5°	11081.3	12039.7	12519.4	12420.8	11350.2	11308.7	13259.8	13630.5
55°	12050.1	13408.3	13884.9	13814.3	12132.1	12058.4	14323.1	14539.0
57.5°	13171.5	14734.2	15172.4	14854.7	13070.8	12880.8	15202.5	15248.2
60°	14156.9	15785.1	16169.2	15817.2	14017.8	13756.1	15751.8	15530.7
62.5°	14705.2	16141.2	16411.2	16032.2	14666.7	14688.6	15872.3	15378.0
65°	14460.1	15241.0	15328.2	15297.0	14499.6	15229.5	15439.3	14673.0
67.5°	13118.6	12964.9	13111.3	13313.8	13066.6	14517.2	14240.0	13137.3
70°	10755.3	9911.1	10202.9	10338.9	10451.0	12492.4	12359.5	10700.2
72.5°	8105.4	6943.5	7174.0	7146.0	7665.1	10020.1	9612.0	7867.6
75°	5743.1	4707.9	4737.0	4725.5	5348.6	7839.6	6960.1	5382.8
77.5°	4018.4	3411.0	3426.6	3490.9	3595.8	5912.4	4972.7	3932.2
80°	2763.1	2588.6	2674.8	2680.0	2492.0	3971.7	3673.7	3155.6
82.5°	2058.0	1799.5	1778.7	1808.8	1953.1	3217.9	2823.3	2188.8
85°	1685.2	1065.4	856.6	1073.7	1730.9	3186.7	1875.3	1154.6
87.5°	949.1	505.7	228.4	423.6	690.5	2109.9	542.0	147.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)