

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: P191340

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191340  
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-02-LED-E1-SLR-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 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: 12010.5 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

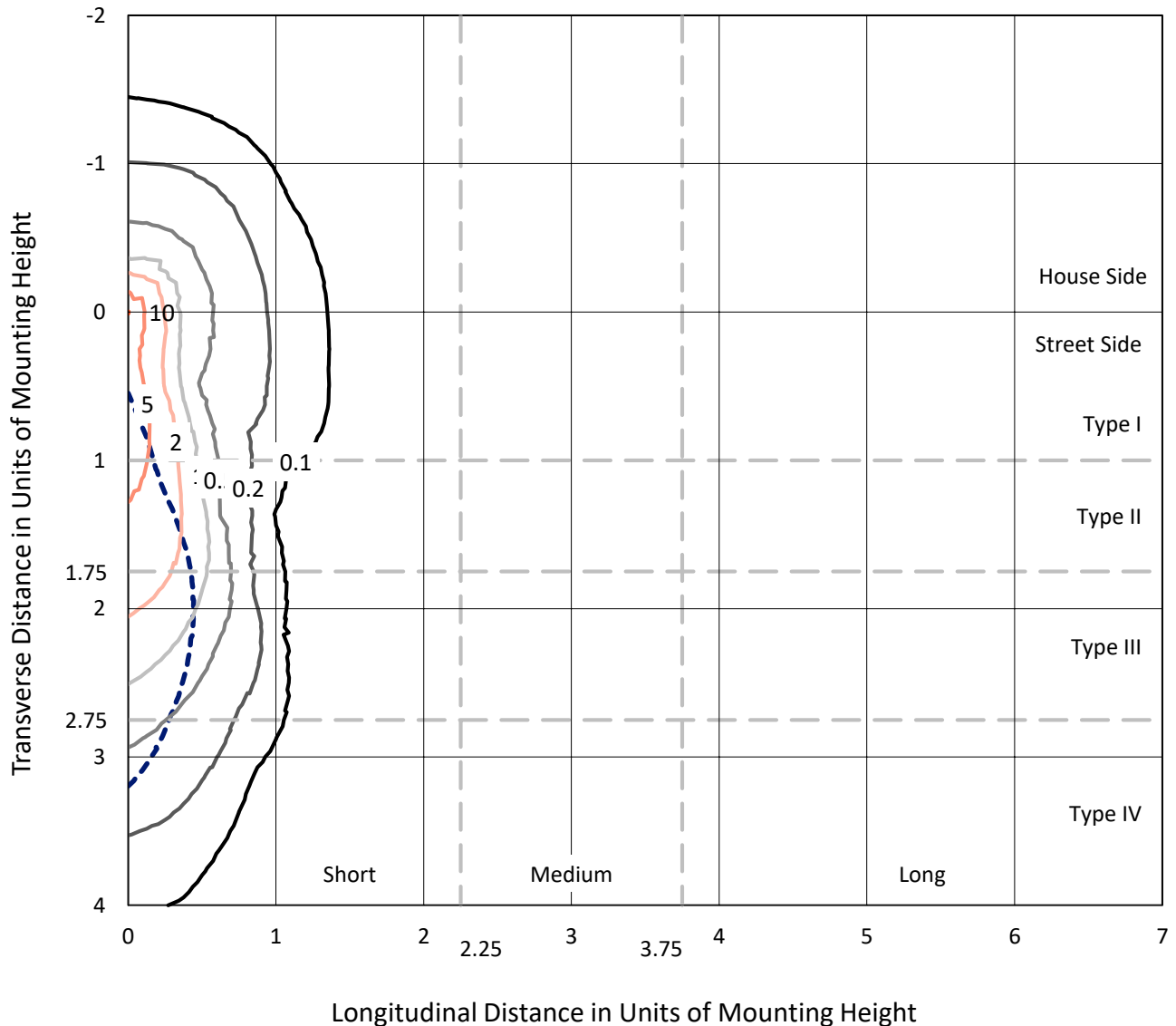
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P191340  
 CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-1200

### Iso-Footcandle Lines of Horizontal Illumination

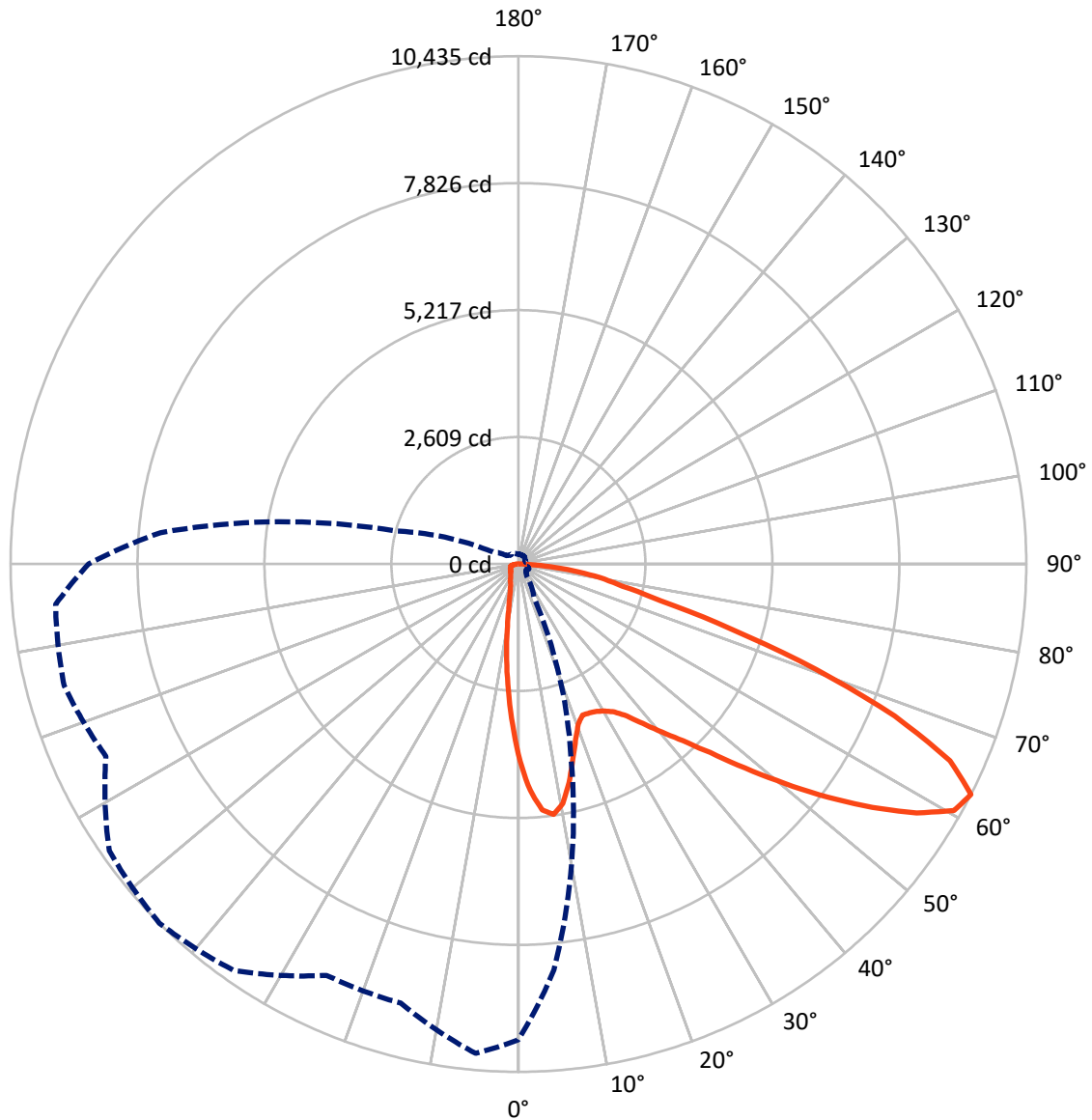
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.1 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191340  
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-1200

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191340

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1987.6	0.0	1987.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	10022.9	0.0	10022.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	12010.5	0.0	12010.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.4	2.5
10°-20°	541.7	4.5
20°-30°	789.7	6.6
30°-40°	1216.3	10.1
40°-50°	1790.1	14.9
50°-60°	2625.7	21.9
60°-70°	2935.1	24.4
70°-80°	1437.0	12.0
80°-90°	379.4	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°	12010.5	100.0
0°-180°	12010.5	100.0



REPORT NUMBER: P191340

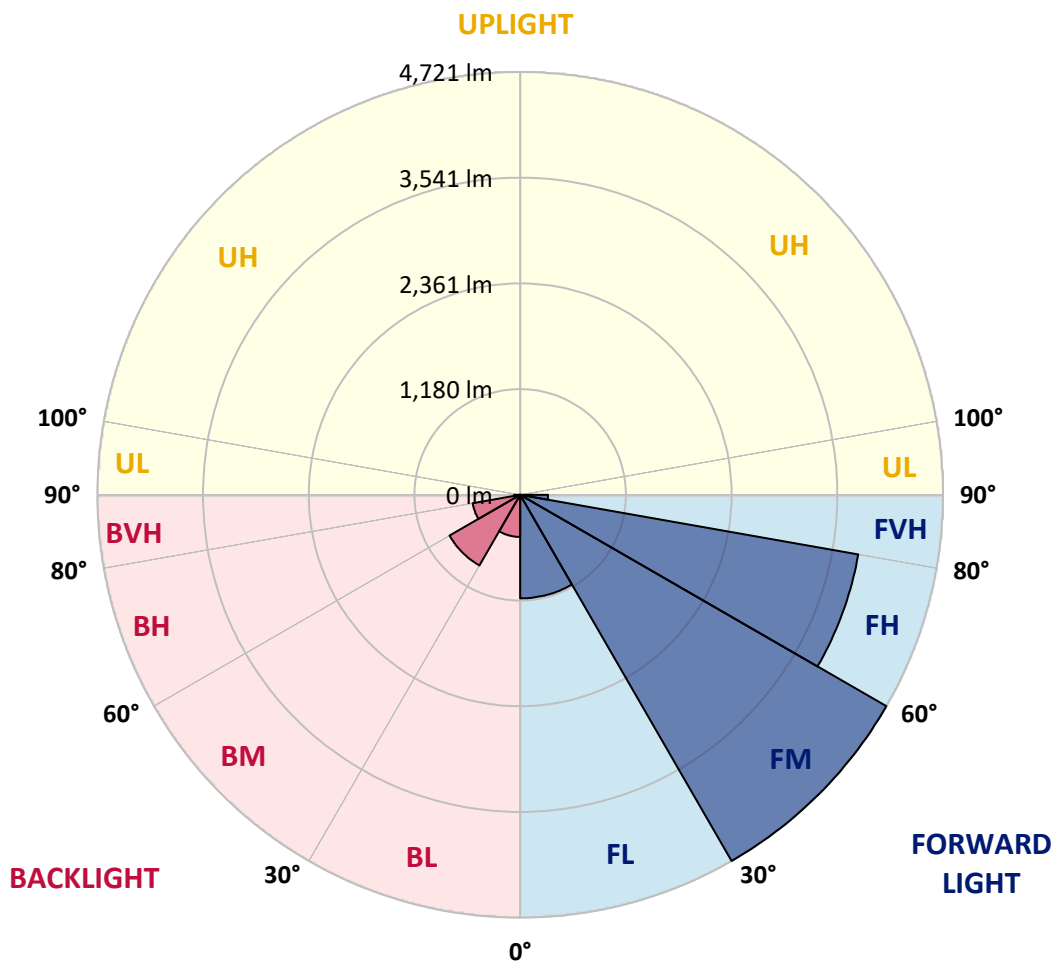
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-1200

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1156.6	9.6			
FM	(30°-60°)	4721.4	39.3			
FH	(60°-80°)	3833.3	31.9			G2/5000
FVH	(80°-90°)	311.6	2.6			G3/500
BL	(0°-30°)	470.2	3.9	B1/500		
BM	(30°-60°)	910.7	7.6	B1/1000		
BH	(60°-80°)	538.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	67.8	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: P191340  
 CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7
2.5°	4216.2	4130.4	3987.8	3839.2	3748.8	3643.1	3560.6	3488.0	3342.8	3314.4	3340.1
5°	3964.7	3792.4	3523.7	3253.0	3072.7	2879.3	2728.7	2607.9	2423.7	2391.4	2430.3
7.5°	3561.3	3355.3	3000.1	2654.8	2399.9	2158.3	1995.9	1866.5	1722.5	1660.5	1664.4
10°	3213.4	2981.0	2561.1	2185.3	1976.8	1813.7	1677.0	1544.2	1398.4	1302.6	1276.2
12.5°	3018.6	2751.2	2267.3	1931.8	1738.4	1566.8	1419.4	1277.6	1121.8	1024.0	996.3
15°	2984.9	2694.5	2157.0	1769.4	1527.2	1309.9	1136.3	977.8	817.3	738.2	721.6
17.5°	3130.8	2796.0	2121.3	1624.9	1328.4	1060.3	847.1	670.1	539.4	499.8	496.5
20°	3410.7	2991.5	2116.7	1488.8	1132.3	818.1	590.2	461.5	404.1	392.8	393.5
22.5°	3803.6	3294.5	2173.5	1386.5	952.1	610.1	443.7	386.3	363.8	353.2	353.2
25°	4311.9	3711.8	2304.2	1311.8	795.5	487.2	391.5	357.2	336.0	328.8	330.1
27.5°	4804.5	4117.9	2456.1	1253.1	693.3	442.3	371.0	340.0	321.5	314.3	317.5
30°	5188.7	4478.4	2582.8	1173.2	641.1	429.8	378.3	346.6	320.2	309.0	309.6
32.5°	5507.0	4794.0	2689.1	1115.8	594.8	368.4	326.1	312.3	309.0	295.7	289.2
35°	5913.7	5137.9	2760.4	1117.1	573.1	328.8	290.5	266.1	248.3	233.0	233.0
37.5°	6390.4	5532.7	2836.3	1132.3	565.2	305.7	277.9	253.5	237.0	222.5	219.8
40°	6861.7	5919.6	2905.7	1146.8	560.6	291.8	268.0	245.6	230.5	215.9	212.0
42.5°	7262.5	6237.9	2967.8	1154.1	544.7	290.5	260.8	240.3	225.8	209.9	206.0
45°	7559.0	6504.6	3034.4	1165.3	528.9	295.7	260.8	239.7	221.9	206.6	202.6
47.5°	7823.7	6817.6	3146.0	1165.3	509.7	285.9	269.3	240.3	221.2	205.3	202.0
50°	8178.3	7246.7	3357.3	1138.2	482.6	275.3	283.9	237.7	215.2	202.6	198.8
52.5°	8666.8	7796.6	3692.6	1091.4	441.0	254.8	281.9	236.4	209.3	196.1	191.5
55°	9244.6	8385.6	4058.5	1036.6	379.0	240.3	272.0	233.0	202.6	188.1	183.5
57.5°	9695.5	8790.9	4315.9	952.1	324.8	232.4	241.0	229.8	194.8	179.6	175.6
60°	9875.1	8775.2	4386.6	839.1	298.4	225.8	210.6	257.5	188.1	173.0	168.4
62.5°	9778.0	8369.8	4188.5	760.0	292.5	217.2	197.4	238.3	182.9	168.4	161.7
65°	9329.7	7651.5	3663.6	738.8	309.6	208.7	188.8	186.9	175.6	161.7	155.2
67.5°	8353.2	6577.9	2933.4	740.8	331.4	200.1	180.2	171.0	165.7	154.5	148.5
70°	6803.6	5200.7	2186.7	746.0	342.7	190.2	171.0	161.1	155.2	143.9	139.9
72.5°	5002.5	4008.2	1588.5	711.8	344.6	178.9	158.5	149.9	143.9	132.1	128.8
75°	3422.6	3066.1	1101.9	589.6	300.4	163.1	144.5	136.7	132.7	118.2	116.2
77.5°	2500.3	2301.5	705.1	437.7	231.7	143.3	127.5	121.5	118.9	103.0	100.4
80°	2006.4	1821.0	441.0	299.7	169.7	120.2	107.0	103.6	101.0	85.2	83.2
82.5°	1391.7	1219.5	283.3	194.8	127.5	93.1	84.5	83.2	79.3	64.8	62.7
85°	734.2	662.3	179.6	132.7	92.5	64.0	58.7	58.7	56.8	43.0	41.6
87.5°	93.7	152.5	91.1	69.4	50.8	28.4	28.4	27.7	29.7	24.4	21.2
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: P191340  
 CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-1200

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7
2.5°	3279.4	3311.1	3280.7	3282.6	3316.3	3416.7	3462.3	3499.9	3540.1	3566.6	3578.5
5°	2376.8	2450.8	2475.8	2528.7	2606.6	2734.7	2785.5	2822.5	2846.9	2861.4	2867.4
7.5°	1625.5	1670.4	1720.6	1805.7	1975.4	2050.7	2084.4	2075.8	2048.0	2038.1	2028.2
10°	1225.4	1207.6	1198.3	1245.2	1382.5	1458.4	1482.3	1459.1	1443.9	1447.3	1463.7
12.5°	949.4	918.4	880.8	875.4	965.9	1033.9	1049.1	1050.5	1078.2	1102.5	1138.9
15°	691.9	688.7	670.1	658.9	710.4	765.9	772.4	784.4	809.5	827.3	859.0
17.5°	487.9	505.7	520.3	527.5	566.5	606.1	598.8	592.9	588.3	588.3	603.4
20°	393.5	405.4	423.9	445.0	484.6	512.3	494.5	470.8	453.6	448.3	450.3
22.5°	354.6	363.8	374.4	392.8	428.5	447.6	428.5	411.3	394.1	388.2	386.3
25°	334.7	346.6	356.5	370.4	396.8	410.0	391.5	379.0	368.4	361.1	355.9
27.5°	323.6	334.1	336.8	343.3	365.8	377.7	368.4	363.1	356.5	350.0	343.3
30°	311.6	309.6	305.0	305.7	323.6	335.4	334.7	336.0	335.4	333.4	332.0
32.5°	284.6	280.6	276.6	280.6	297.1	307.7	308.3	311.0	311.0	310.3	315.6
35°	237.0	244.3	248.9	260.8	280.6	289.8	285.9	279.3	267.4	260.1	259.4
37.5°	219.2	220.5	228.4	245.0	266.7	275.3	269.3	254.2	246.2	245.0	246.9
40°	210.6	212.0	216.6	231.7	253.5	262.1	256.9	245.6	238.3	237.7	241.0
42.5°	204.7	206.0	208.7	219.2	237.0	247.6	248.3	240.3	231.7	232.4	235.7
45°	201.4	202.0	201.4	206.6	223.2	235.7	241.0	235.7	228.4	229.8	233.7
47.5°	200.7	198.8	196.1	197.4	214.6	227.1	233.7	231.7	228.4	229.8	233.0
50°	198.0	193.4	190.2	189.5	206.6	219.8	225.8	225.8	227.1	229.8	233.0
52.5°	190.2	184.8	184.8	182.9	201.4	213.9	217.9	218.5	220.5	225.2	229.8
55°	180.2	178.3	180.2	177.0	197.4	209.3	211.2	212.6	213.9	217.9	224.4
57.5°	171.7	169.0	173.6	172.4	194.2	204.7	204.7	207.4	207.4	212.6	217.9
60°	167.0	161.7	163.8	165.1	189.5	200.7	199.4	202.0	203.4	208.0	212.0
62.5°	161.1	156.5	156.5	159.8	184.2	194.8	194.2	196.1	201.4	202.6	206.6
65°	153.9	151.8	149.9	153.9	178.9	188.1	188.8	191.5	196.1	197.4	200.7
67.5°	146.6	147.2	143.3	147.2	174.3	181.6	181.6	186.9	188.8	191.5	194.8
70°	138.6	139.3	136.1	140.7	171.0	174.3	173.6	180.9	182.2	184.2	187.5
72.5°	128.8	128.8	127.5	134.0	165.7	167.0	165.7	171.7	172.4	174.3	175.6
75°	118.2	118.2	116.8	126.1	162.4	159.1	155.2	159.8	161.1	162.4	162.4
77.5°	104.3	105.7	105.7	116.8	151.2	155.8	142.6	145.3	147.2	147.9	145.9
80°	87.2	90.4	91.8	106.3	126.7	143.9	127.5	129.4	130.0	130.0	127.5
82.5°	66.7	72.6	75.9	91.8	97.1	120.8	110.9	112.9	110.9	107.0	105.7
85°	46.2	54.1	58.1	70.0	73.2	93.1	92.5	92.5	88.5	83.2	82.6
87.5°	25.1	29.7	32.3	41.6	50.2	62.7	68.0	66.0	62.7	59.4	60.0
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: P191340

CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-1200

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7
2.5°	3640.5	3730.3	3873.6	3983.2	4093.4	4199.7	4314.6	4402.5	4477.0	4506.1	4594.6
5°	2927.5	3039.7	3175.0	3419.3	3592.3	3783.1	4003.6	4295.5	4407.7	4562.9	4817.1
7.5°	2069.8	2171.5	2389.4	2586.7	2831.7	3101.8	3399.6	3802.3	3949.5	4198.4	4612.4
10°	1545.6	1663.8	1838.8	2005.1	2221.0	2497.0	2839.0	3289.3	3468.2	3738.3	4215.0
12.5°	1245.2	1384.5	1570.0	1726.5	1893.6	2088.4	2420.4	2914.3	3154.0	3390.3	3872.3
15°	956.7	1102.5	1274.9	1473.7	1657.8	1867.8	2215.7	2755.8	3031.8	3278.0	3689.4
17.5°	662.3	787.0	1004.2	1211.5	1447.3	1715.9	2158.9	2789.5	3119.0	3402.8	3721.1
20°	469.4	540.7	719.0	959.3	1253.1	1590.5	2148.4	2966.5	3394.9	3719.0	3924.4
22.5°	394.9	421.3	524.9	745.4	1084.7	1496.8	2185.3	3214.6	3767.3	4181.2	4248.6
25°	359.9	375.6	429.8	584.9	934.9	1428.8	2310.1	3584.4	4228.2	4643.4	4631.5
27.5°	340.6	357.2	392.8	493.9	821.9	1386.5	2434.9	4022.8	4755.0	5145.1	4997.3
30°	334.7	357.2	394.9	465.4	741.4	1319.8	2537.2	4407.7	5160.4	5483.8	5163.7
32.5°	330.1	333.4	350.6	401.4	664.8	1241.9	2606.6	4753.0	5557.2	5806.1	5403.3
35°	266.7	283.3	311.0	359.9	619.9	1195.0	2606.6	5050.8	5948.0	6131.6	5631.8
37.5°	256.9	271.4	295.7	337.4	594.8	1171.9	2554.4	5338.0	6347.5	6500.6	5820.0
40°	251.5	263.4	286.5	320.2	584.3	1145.5	2478.5	5591.4	6737.7	6870.3	5995.5
42.5°	247.6	258.2	280.0	309.6	570.4	1116.4	2417.1	5794.8	7076.4	7185.9	6163.3
45°	245.6	256.9	280.6	315.0	542.7	1078.2	2396.7	6014.7	7355.0	7449.4	6344.9
47.5°	245.6	258.8	283.9	326.1	509.7	1038.5	2460.7	6304.5	7618.4	7664.7	6558.8
50°	243.7	258.2	293.2	315.0	461.5	988.4	2611.2	6669.6	7903.6	7908.9	6829.4
52.5°	239.7	256.9	315.6	308.3	406.0	922.3	2814.5	7138.5	8325.5	8357.2	7253.3
55°	235.1	254.8	309.6	293.2	360.5	843.7	2981.0	7708.2	8918.4	9006.3	7876.5
57.5°	229.1	252.2	299.7	272.0	330.8	742.8	3041.0	8125.5	9332.4	9552.9	8579.1
60°	223.8	250.2	270.7	259.4	312.3	657.6	2924.8	8043.0	9303.9	9779.3	9201.6
62.5°	218.5	252.2	246.9	251.5	303.7	602.8	2621.1	7382.0	8833.3	9545.7	9663.1
65°	212.6	234.4	233.0	245.0	301.8	581.0	2172.8	6391.1	7923.5	8806.8	9772.0
67.5°	204.7	216.6	223.2	236.4	308.3	561.9	1753.5	5272.0	6659.1	7699.6	9204.3
70°	196.1	206.0	213.3	225.8	304.3	553.3	1458.4	4157.5	5283.8	6310.5	8083.9
72.5°	184.8	193.4	200.1	212.0	300.4	548.6	1232.0	3348.0	3944.9	4687.7	6572.6
75°	171.7	179.6	184.2	196.1	287.9	502.5	968.5	2833.1	2951.9	3260.9	5235.0
77.5°	156.5	162.4	166.3	179.6	254.8	417.9	700.5	2185.3	2292.3	2367.6	4013.5
80°	138.6	144.5	146.6	159.1	211.2	326.8	456.8	1614.2	1714.7	1731.8	2621.1
82.5°	118.2	124.1	124.1	136.1	173.0	235.1	299.7	1105.9	1125.7	1183.8	1852.6
85°	95.0	99.7	99.7	105.7	134.0	175.6	206.0	555.3	549.3	627.2	1605.0
87.5°	68.0	71.3	74.6	75.9	95.7	116.2	124.1	169.0	111.6	128.1	1030.6
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: P191340  
 CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-1200

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7
2.5°	4661.3	4698.8	4660.6	4632.8	4513.4	4415.0	4283.6	4216.2
5°	5010.5	5106.3	5073.8	4957.6	4708.1	4427.5	4108.6	3964.7
7.5°	4968.3	5190.8	5196.0	4978.8	4611.1	4197.8	3766.0	3561.3
10°	4639.5	4924.0	5005.2	4794.6	4404.4	3942.2	3447.0	3213.4
12.5°	4272.4	4551.0	4613.0	4540.4	4214.3	3750.1	3247.7	3018.6
15°	3971.9	4096.7	4170.7	4234.1	4051.2	3673.5	3236.4	2984.9
17.5°	3789.1	3775.2	3796.4	3906.5	3937.6	3761.3	3408.2	3130.8
20°	3723.0	3511.1	3505.9	3657.7	3884.1	3970.6	3743.5	3410.7
22.5°	3759.3	3416.0	3372.5	3552.7	3912.6	4272.4	4183.3	3803.6
25°	3884.8	3423.9	3388.9	3563.2	4015.5	4593.9	4657.9	4311.9
27.5°	4082.2	3474.1	3427.9	3606.8	4152.2	4863.9	5125.4	4804.5
30°	4269.7	3561.3	3503.8	3692.6	4277.0	4970.9	5411.9	5188.7
32.5°	4497.5	3724.4	3623.4	3850.5	4431.4	5141.2	5667.5	5507.0
35°	4720.6	3956.8	3831.4	4094.1	4603.8	5353.2	5959.2	5913.7
37.5°	4965.6	4260.5	4156.9	4409.0	4839.5	5553.2	6331.7	6390.4
40°	5227.1	4663.2	4540.4	4868.5	5205.3	5804.1	6720.5	6861.7
42.5°	5490.5	5110.2	4963.7	5296.3	5607.3	6051.7	7053.2	7262.5
45°	5792.3	5595.4	5526.2	5886.0	5993.6	6287.4	7298.9	7559.0
47.5°	6143.4	6146.1	6257.7	6401.6	6383.1	6554.1	7545.8	7823.7
50°	6553.4	6833.4	7079.6	7175.4	6784.5	6840.7	7888.5	8178.3
52.5°	7046.0	7655.4	7960.4	7897.7	7217.0	7190.6	8431.2	8666.8
55°	7662.0	8525.6	8828.6	8783.7	7714.2	7667.2	9107.2	9244.6
57.5°	8375.0	9368.7	9647.3	9445.3	8311.0	8190.2	9666.5	9695.5
60°	9001.6	10036.9	10281.2	10057.3	8913.2	8746.7	10015.7	9875.1
62.5°	9350.2	10263.3	10434.9	10194.0	9325.7	9339.6	10092.3	9778.0
65°	9194.4	9690.9	9746.4	9726.5	9219.4	9683.7	9817.0	9329.7
67.5°	8341.3	8243.7	8336.7	8465.5	8308.3	9230.7	9054.4	8353.2
70°	6838.6	6301.9	6487.5	6573.9	6645.2	7943.2	7858.7	6803.6
72.5°	5153.7	4415.0	4561.5	4543.7	4873.8	6371.2	6111.7	5002.5
75°	3651.7	2993.5	3012.0	3004.7	3400.9	4984.7	4425.5	3422.6
77.5°	2555.1	2168.9	2178.8	2219.7	2286.4	3759.3	3161.8	2500.3
80°	1756.9	1645.9	1700.8	1704.0	1584.6	2525.4	2335.9	2006.4
82.5°	1308.6	1144.2	1131.0	1150.1	1241.9	2046.1	1795.2	1391.7
85°	1071.5	677.4	544.7	682.7	1100.6	2026.3	1192.4	734.2
87.5°	603.4	321.5	145.3	269.3	439.1	1341.6	344.6	93.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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