

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: P191301

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191301
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-03-LED-E1-SLL-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17921.1 lumens
Efficiency: N/A
Efficacy: 93.8 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

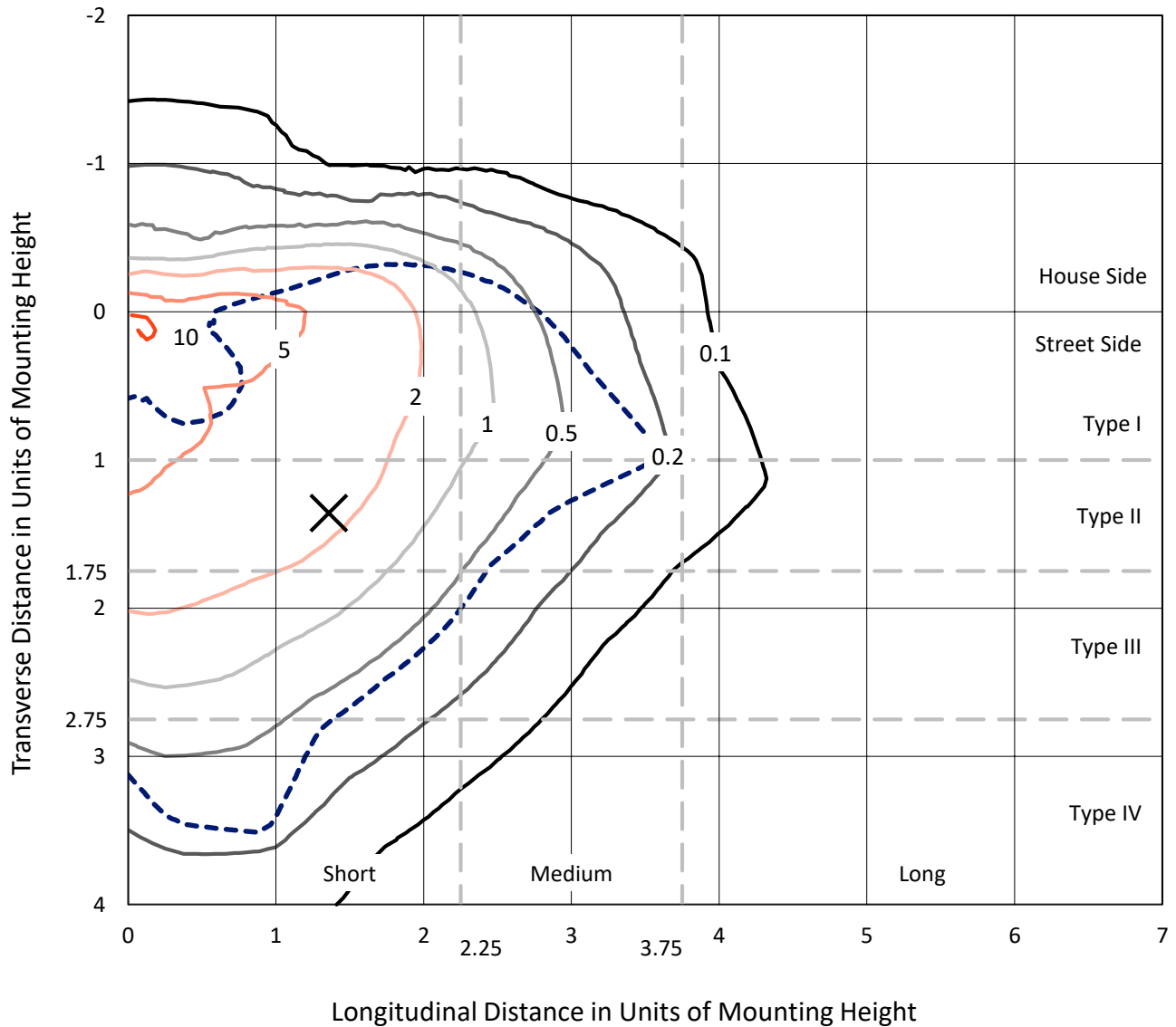
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191301
 CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-1200

Iso-Footcandle Lines of Horizontal Illumination

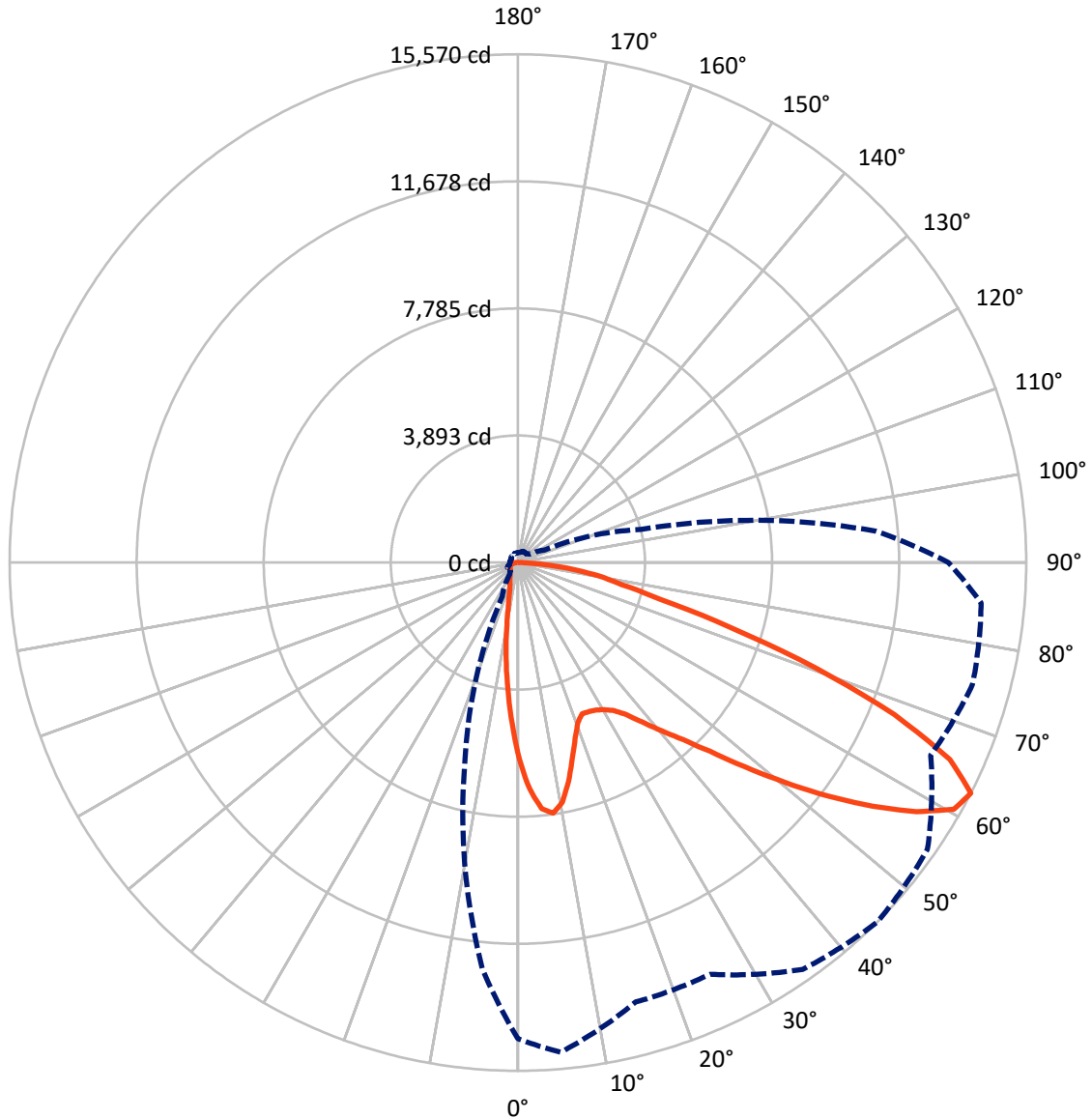
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191301
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P191301

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2965.7	0.0	2965.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14955.4	0.0	14955.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	17921.1	0.0	17921.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.8	2.5
10°-20°	808.2	4.5
20°-30°	1178.4	6.6
30°-40°	1814.9	10.1
40°-50°	2671.0	14.9
50°-60°	3917.9	21.9
60°-70°	4379.6	24.4
70°-80°	2144.2	12.0
80°-90°	566.1	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°	17921.1	100.0
0°-180°	17921.1	100.0



REPORT NUMBER: P191301

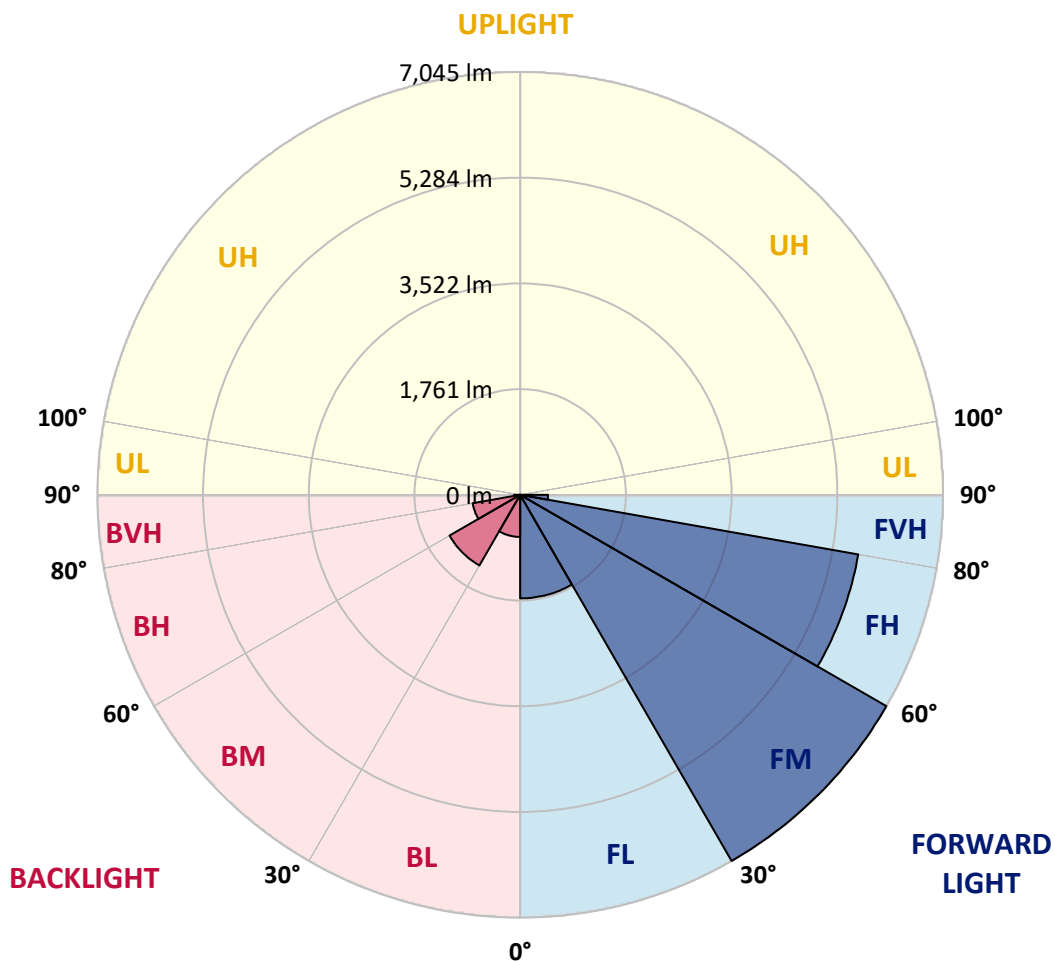
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1725.7	9.6			
FM	(30°-60°)	7044.9	39.3			
FH	(60°-80°)	5719.8	31.9			G3/7500
FVH	(80°-90°)	464.9	2.6			G3/500
BL	(0°-30°)	701.6	3.9	B2/1000		
BM	(30°-60°)	1358.9	7.6	B2/2500		
BH	(60°-80°)	804.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	101.2	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: P191301
 CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7
2.5°	6291.1	6391.6	6587.7	6734.5	6912.8	6954.1	7011.3	6955.1	6855.6	6723.7	6680.3
5°	5915.8	6130.5	6606.4	7025.1	7397.5	7570.9	7619.1	7476.2	7187.7	6808.4	6576.9
7.5°	5313.9	5619.3	6263.5	6880.3	7429.0	7753.0	7745.2	7413.2	6882.2	6264.6	5893.1
10°	4794.7	5143.4	5882.3	6571.9	7154.1	7468.4	7347.2	6922.6	6289.2	5577.8	5175.0
12.5°	4504.1	4845.9	5595.6	6288.2	6774.8	6883.2	6790.7	6374.9	5777.8	5058.7	4706.1
15°	4453.8	4829.1	5481.4	6044.8	6317.7	6223.1	6112.8	5926.7	5505.0	4891.2	4523.8
17.5°	4671.5	5085.3	5612.4	5875.4	5829.1	5664.6	5633.1	5653.7	5552.3	5077.4	4653.8
20°	5089.3	5585.8	5924.6	5795.6	5457.7	5231.2	5239.0	5555.2	5855.7	5549.3	5065.7
22.5°	5675.4	6241.8	6374.9	5838.0	5301.0	5032.1	5097.2	5609.5	6339.4	6239.0	5621.2
25°	6434.0	6950.2	6854.7	5991.6	5316.8	5056.8	5108.9	5796.6	6910.7	6928.5	6308.8
27.5°	7168.9	7647.7	7257.5	6195.6	5381.8	5114.9	5183.8	6091.2	7456.6	7677.2	7095.0
30°	7742.3	8075.3	7417.2	6381.8	5509.9	5228.2	5313.9	6370.9	7704.9	8182.6	7699.9
32.5°	8217.1	8456.5	7671.3	6612.3	5745.4	5406.5	5557.2	6710.8	8062.4	8663.4	8291.9
35°	8824.0	8891.9	7987.6	6869.4	6108.9	5716.8	5904.0	7043.8	8403.3	9149.1	8875.2
37.5°	9535.2	9447.6	8286.1	7221.1	6578.8	6202.5	6357.1	7409.2	8684.0	9699.7	9471.2
40°	10238.6	10027.8	8660.4	7766.9	7264.5	6774.8	6958.1	7799.4	8946.1	10251.4	10053.5
42.5°	10836.6	10524.3	9029.9	8366.8	7902.8	7406.4	7625.1	8192.5	9196.3	10722.4	10558.8
45°	11279.0	10890.7	9381.6	8943.1	8782.5	8245.7	8349.1	8642.7	9467.2	11115.4	10974.5
47.5°	11674.0	11259.2	9779.5	9524.4	9552.0	9337.2	9170.8	9166.8	9786.5	11436.6	11367.6
50°	12203.0	11770.5	10207.1	10123.3	10706.6	10563.7	10196.3	9778.6	10190.3	11801.1	11793.2
52.5°	12932.0	12580.4	10729.2	10768.6	11784.3	11877.9	11422.8	10513.5	10822.8	12470.0	12422.7
55°	13794.0	13589.1	11440.5	11510.4	13106.4	13173.4	12721.2	11432.6	11752.8	13438.4	13307.4
57.5°	14466.9	14423.5	12220.7	12401.0	14093.5	14395.0	13979.2	12496.6	12801.0	14254.1	13925.0
60°	14734.8	14944.7	13051.2	13299.5	15006.7	15340.7	14976.2	13431.4	13729.9	14592.0	13882.7
62.5°	14590.0	15059.0	13935.9	13915.2	15210.7	15570.2	15314.1	13951.6	14418.6	14243.3	13180.3
65°	13921.1	14648.1	14449.2	13756.5	14513.1	14542.7	14459.9	13719.1	14581.1	13140.8	11822.8
67.5°	12464.0	13510.3	13773.3	12397.0	12631.5	12439.4	12300.6	12446.3	13733.9	11488.8	9936.2
70°	10152.0	11726.2	11852.3	9915.5	9809.1	9680.1	9403.2	10204.1	12062.1	9416.1	7884.1
72.5°	7464.5	9119.5	9506.7	7272.4	6779.8	6806.4	6587.7	7690.0	9807.1	6994.5	5886.3
75°	5107.0	6603.5	7437.9	5074.4	4483.4	4494.2	4466.6	5448.8	7811.3	4865.7	4404.6
77.5°	3730.7	4717.8	5609.5	3411.5	3312.1	3250.9	3236.2	3812.5	5988.7	3532.8	3420.4
80°	2993.9	3485.4	3768.1	2364.3	2542.6	2537.7	2456.0	2621.5	3911.0	2584.1	2558.4
82.5°	2076.7	2678.6	3053.0	1853.1	1716.1	1687.6	1707.3	1952.6	2764.3	1766.3	1679.7
85°	1095.5	1779.2	3023.4	1642.2	1018.7	812.7	1010.8	1598.9	2394.9	935.9	819.7
87.5°	139.9	514.2	2001.8	655.1	401.9	216.8	479.8	900.4	1537.8	191.1	166.5
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: P191301

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7
2.5°	6569.0	6437.9	6266.5	6107.9	5943.3	5779.9	5566.1	5432.1	5339.5	5321.8	5282.3
5°	6409.4	5973.9	5644.8	5360.2	5102.1	4737.6	4535.6	4368.1	4278.5	4269.6	4247.9
7.5°	5673.5	5072.5	4628.2	4225.3	3859.8	3565.3	3240.1	3088.4	3026.4	3041.1	3056.0
10°	4908.0	4236.1	3725.8	3314.1	2991.9	2743.7	2482.6	2306.2	2184.1	2159.4	2154.5
12.5°	4348.5	3611.5	3116.0	2825.4	2576.2	2342.7	2065.8	1858.0	1699.3	1645.2	1608.7
15°	4112.0	3306.2	2786.9	2473.7	2198.8	1902.3	1645.2	1427.4	1281.7	1234.4	1207.8
17.5°	4162.3	3221.5	2560.3	2159.4	1807.8	1498.4	1174.2	988.1	900.4	877.8	877.8
20°	4426.3	3205.6	2373.2	1869.9	1431.4	1072.9	806.8	700.4	671.9	668.9	676.8
22.5°	4796.7	3260.9	2233.3	1618.6	1112.3	783.2	628.5	589.1	576.3	579.3	588.1
25°	5348.4	3447.0	2131.8	1395.0	872.9	641.3	560.6	536.9	531.0	538.9	549.7
27.5°	6002.5	3633.2	2068.8	1226.5	736.9	586.2	533.0	508.3	512.3	522.1	531.9
30°	6576.9	3785.9	1969.3	1106.3	694.5	589.1	533.0	499.5	495.5	497.5	500.4
32.5°	7092.0	3889.4	1853.1	992.1	598.9	523.1	497.5	492.6	470.9	463.0	464.0
35°	7536.4	3889.4	1783.1	925.1	536.9	464.0	422.6	398.0	387.2	388.1	399.0
37.5°	7964.9	3811.5	1748.6	887.6	503.4	441.3	404.9	383.2	368.5	365.5	367.4
40°	8343.2	3698.3	1709.2	871.9	477.8	427.6	393.1	375.3	359.6	354.7	355.7
42.5°	8646.6	3606.6	1665.9	851.2	462.1	417.7	385.1	369.4	351.7	346.8	345.8
45°	8974.7	3576.0	1608.7	809.8	469.9	418.7	383.2	366.5	348.7	342.8	340.8
47.5°	9407.2	3671.7	1549.7	760.6	486.6	423.6	386.2	366.5	347.8	342.8	340.8
50°	9952.0	3896.2	1474.8	688.7	469.9	437.4	385.1	363.6	347.8	342.8	338.9
52.5°	10651.4	4199.7	1376.3	605.9	460.0	470.9	383.2	357.6	342.8	335.9	329.1
55°	11501.5	4447.9	1259.0	537.9	437.4	462.1	380.2	350.7	334.9	325.1	319.2
57.5°	12124.2	4537.6	1108.3	493.6	405.9	447.2	376.3	341.9	325.1	317.2	309.3
60°	12001.1	4364.2	981.2	466.0	387.2	403.9	373.4	334.0	316.2	310.4	303.4
62.5°	11014.9	3911.0	899.5	453.2	375.3	368.5	376.3	326.1	308.3	302.5	300.4
65°	9536.3	3242.1	867.0	450.2	365.5	347.8	349.7	317.2	299.5	294.5	292.6
67.5°	7866.4	2616.5	838.3	460.0	352.7	333.0	323.2	305.4	290.6	285.7	281.7
70°	6203.5	2176.2	825.5	454.2	337.0	318.2	307.4	292.6	279.8	274.9	271.9
72.5°	4995.7	1838.2	818.7	448.3	316.2	298.5	288.7	275.9	262.1	260.0	257.2
75°	4227.2	1445.2	749.7	429.5	292.6	274.9	267.9	256.1	242.3	242.3	240.4
77.5°	3260.9	1045.3	623.6	380.2	267.9	248.3	242.3	233.4	217.7	220.7	219.7
80°	2408.6	681.7	487.6	315.3	237.4	218.7	215.7	206.8	190.2	194.1	194.1
82.5°	1650.1	447.2	350.7	258.1	203.0	185.3	185.3	176.4	157.6	159.6	165.5
85°	828.5	307.4	262.1	200.0	157.6	148.7	148.7	141.9	123.2	124.1	132.0
87.5°	252.2	185.3	173.4	142.8	113.2	111.3	106.4	101.5	89.6	88.7	93.6
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: P191301

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7
2.5°	5222.3	5166.1	5098.1	4948.4	4898.1	4895.2	4940.5	4893.2	4983.8	4945.5	4987.8
5°	4211.5	4156.4	4080.4	3889.4	3773.2	3694.3	3656.8	3546.6	3626.4	3568.2	3616.4
7.5°	3097.3	3110.1	3059.9	2947.5	2694.4	2567.3	2492.4	2425.4	2483.5	2477.7	2570.3
10°	2177.1	2211.6	2176.2	2062.9	1858.0	1788.0	1801.8	1828.4	1904.3	1943.7	2086.5
12.5°	1567.4	1565.4	1542.7	1441.2	1306.3	1314.2	1370.3	1416.7	1486.6	1528.0	1673.8
15°	1170.4	1152.7	1142.7	1060.0	983.2	999.9	1027.6	1032.5	1076.8	1101.4	1219.6
17.5°	884.6	893.5	904.4	845.3	787.2	776.3	754.6	728.0	740.8	745.7	804.9
20°	702.4	737.9	764.5	723.1	664.0	632.5	604.9	587.2	587.2	586.2	602.9
22.5°	613.8	639.3	667.9	639.3	586.2	558.5	542.8	529.1	527.0	527.0	542.8
25°	565.5	584.2	611.7	592.1	552.7	531.9	517.2	499.5	492.6	490.6	501.5
27.5°	541.9	549.7	563.5	545.7	512.3	502.5	498.5	482.7	473.8	468.9	479.8
30°	501.5	499.5	500.4	482.7	456.1	455.1	462.1	465.0	462.1	461.0	477.8
32.5°	464.0	460.0	459.1	443.3	418.7	412.8	418.7	424.6	431.5	441.3	461.0
35°	416.8	426.6	432.5	418.7	389.1	371.4	364.5	353.6	347.8	347.8	370.4
37.5°	379.3	401.9	410.8	398.0	365.5	340.8	329.1	327.0	328.1	331.9	353.6
40°	366.5	383.2	391.1	378.3	345.8	323.2	316.2	314.3	316.2	322.1	343.8
42.5°	358.5	370.4	369.4	353.6	327.0	311.3	307.4	305.4	307.4	313.2	337.0
45°	351.7	359.6	351.7	333.0	308.3	300.4	301.5	300.4	302.5	308.3	331.0
47.5°	345.8	348.7	338.9	320.2	294.5	292.6	296.6	299.5	301.5	306.4	330.0
50°	337.0	337.0	328.1	308.3	282.7	283.8	288.7	295.5	296.6	302.5	321.2
52.5°	326.1	325.1	319.2	300.4	272.9	275.9	275.9	283.8	285.7	292.6	312.3
55°	317.2	315.3	312.3	294.5	264.0	268.9	266.0	268.9	273.8	280.8	302.5
57.5°	309.3	305.4	305.4	289.6	257.2	259.1	252.2	256.1	262.1	267.9	290.6
60°	301.5	297.5	299.5	282.7	246.3	244.3	241.3	249.2	251.2	258.1	280.8
62.5°	292.6	289.6	290.6	274.9	238.4	233.4	233.4	240.4	241.3	251.2	272.9
65°	285.7	281.7	280.8	267.0	229.6	223.6	226.6	229.6	231.5	241.3	262.1
67.5°	278.8	270.9	270.9	260.0	219.7	213.8	219.7	218.7	221.7	230.6	247.2
70°	270.0	259.1	260.0	255.1	209.8	203.0	207.9	206.8	208.9	214.7	231.5
72.5°	256.1	247.2	249.2	247.2	200.0	190.2	192.1	192.1	192.1	197.0	214.7
75°	238.4	231.5	237.4	242.3	188.1	174.4	176.4	176.4	173.4	176.4	198.0
77.5°	216.8	212.8	232.5	225.6	174.4	157.6	157.6	155.7	149.8	153.6	177.3
80°	193.1	190.2	214.7	189.1	158.6	137.0	134.9	130.0	124.1	127.1	150.7
82.5°	168.5	165.5	180.2	144.8	137.0	113.2	108.3	99.5	93.6	96.6	118.3
85°	137.9	137.9	138.9	109.4	104.4	86.6	80.8	68.9	62.1	64.0	84.7
87.5°	98.5	101.5	93.6	74.9	62.1	48.3	44.3	37.4	31.5	36.4	44.3
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: P191301

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7
2.5°	5204.6	5312.9	5436.1	5593.7	5728.6	5950.3	6163.1	6291.1
5°	3891.3	4071.7	4296.2	4584.9	4853.8	5257.8	5658.7	5915.8
7.5°	2785.0	2978.1	3220.5	3581.0	3961.3	4476.5	5006.5	5313.9
10°	2304.3	2502.2	2706.2	2949.6	3260.9	3821.3	4447.9	4794.7
12.5°	1906.3	2118.0	2337.7	2593.9	2882.6	3383.0	4105.1	4504.1
15°	1459.0	1695.4	1954.6	2278.6	2640.2	3218.5	4020.4	4453.8
17.5°	999.9	1264.0	1582.1	1982.1	2424.4	3165.3	4172.1	4671.5
20°	688.7	880.8	1220.6	1689.5	2221.5	3158.4	4463.6	5089.3
22.5°	576.3	662.1	910.3	1420.6	2068.8	3243.1	4915.9	5675.4
25°	533.0	584.2	727.0	1187.1	1957.5	3438.1	5538.5	6434.0
27.5°	507.4	553.6	660.0	1034.4	1869.9	3664.7	6144.4	7168.9
30°	517.2	564.5	641.3	956.6	1750.6	3853.9	6682.2	7742.3
32.5°	466.0	486.6	549.7	887.6	1664.9	4012.5	7153.2	8217.1
35°	397.0	433.4	490.6	855.1	1666.9	4118.9	7666.4	8824.0
37.5°	378.3	414.7	456.1	843.3	1689.5	4232.2	8255.5	9535.2
40°	366.5	400.0	435.5	836.4	1711.2	4335.7	8832.8	10238.6
42.5°	358.5	389.1	433.4	812.7	1722.0	4428.3	9307.6	10836.6
45°	357.6	389.1	441.3	789.1	1738.8	4527.7	9705.7	11279.0
47.5°	358.5	401.9	426.6	760.6	1738.8	4694.2	10172.6	11674.0
50°	354.7	423.6	410.8	720.2	1698.4	5009.5	10813.0	12203.0
52.5°	352.7	420.6	380.2	658.1	1628.4	5509.9	11633.6	12932.0
55°	347.8	405.9	358.5	565.5	1546.7	6055.7	12512.3	13794.0
57.5°	342.8	359.6	346.8	484.7	1420.6	6439.9	13117.2	14466.9
60°	384.2	314.3	337.0	445.3	1252.1	6545.4	13093.6	14734.8
62.5°	355.7	294.5	324.1	436.4	1133.9	6249.7	12488.7	14590.0
65°	278.8	281.7	311.3	462.1	1102.3	5466.5	11416.8	13921.1
67.5°	255.1	268.9	298.5	494.5	1105.3	4377.0	9815.0	12464.0
70°	240.4	255.1	283.8	511.3	1113.2	3262.8	7760.0	10152.0
72.5°	223.6	236.4	267.0	514.2	1062.0	2370.3	5980.8	7464.5
75°	203.9	215.7	243.4	448.3	879.7	1644.2	4575.0	5107.0
77.5°	181.3	190.2	213.8	345.8	653.2	1052.1	3434.3	3730.7
80°	154.7	159.6	179.3	253.2	447.2	658.1	2717.1	2993.9
82.5°	124.1	126.1	138.9	190.2	290.6	422.6	1819.5	2076.7
85°	87.7	87.7	95.5	137.9	198.0	267.9	988.1	1095.5
87.5°	41.3	42.4	42.4	75.9	103.4	136.0	227.6	139.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)