

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: P191300

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191300
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-SLL-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 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

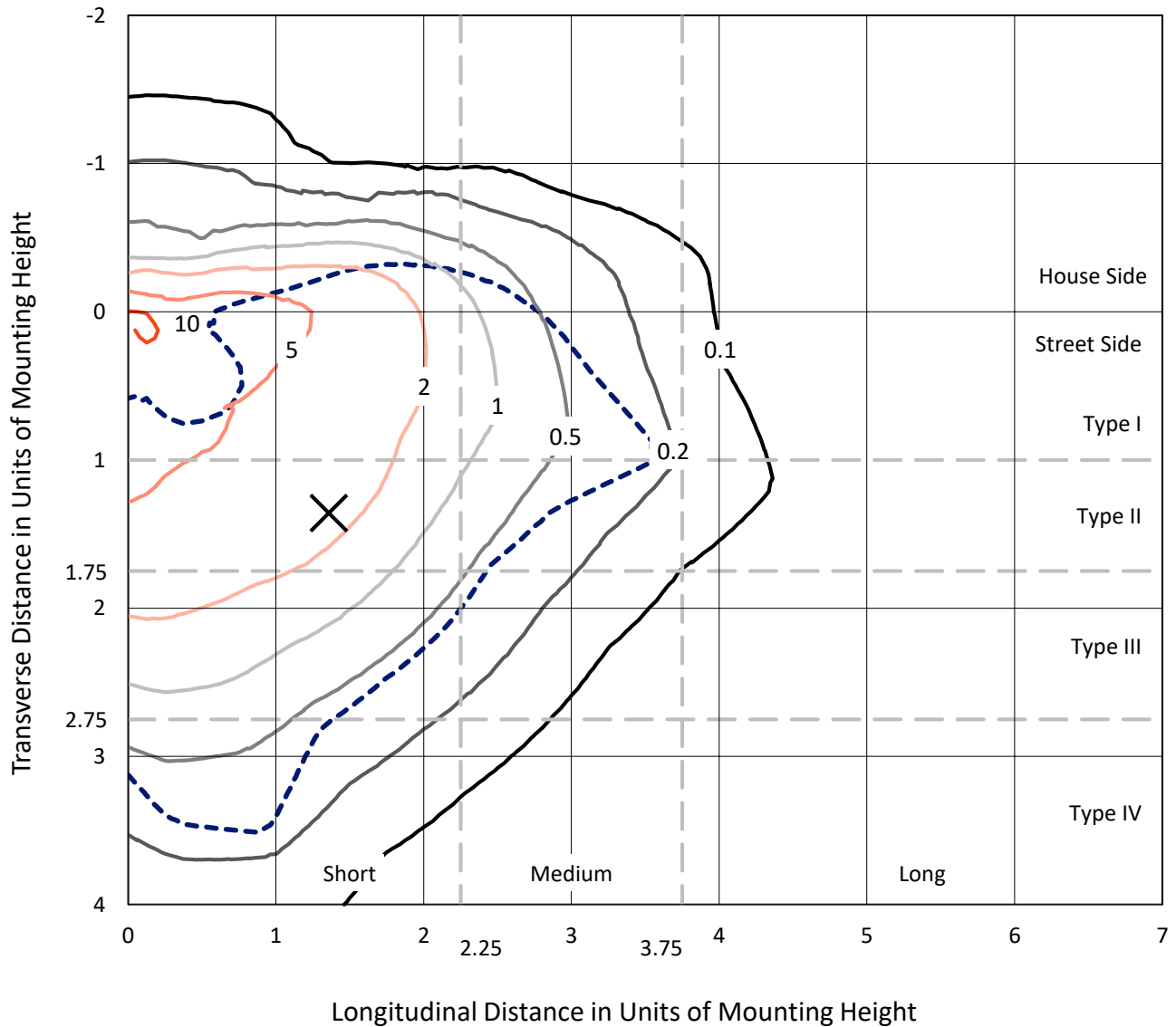
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

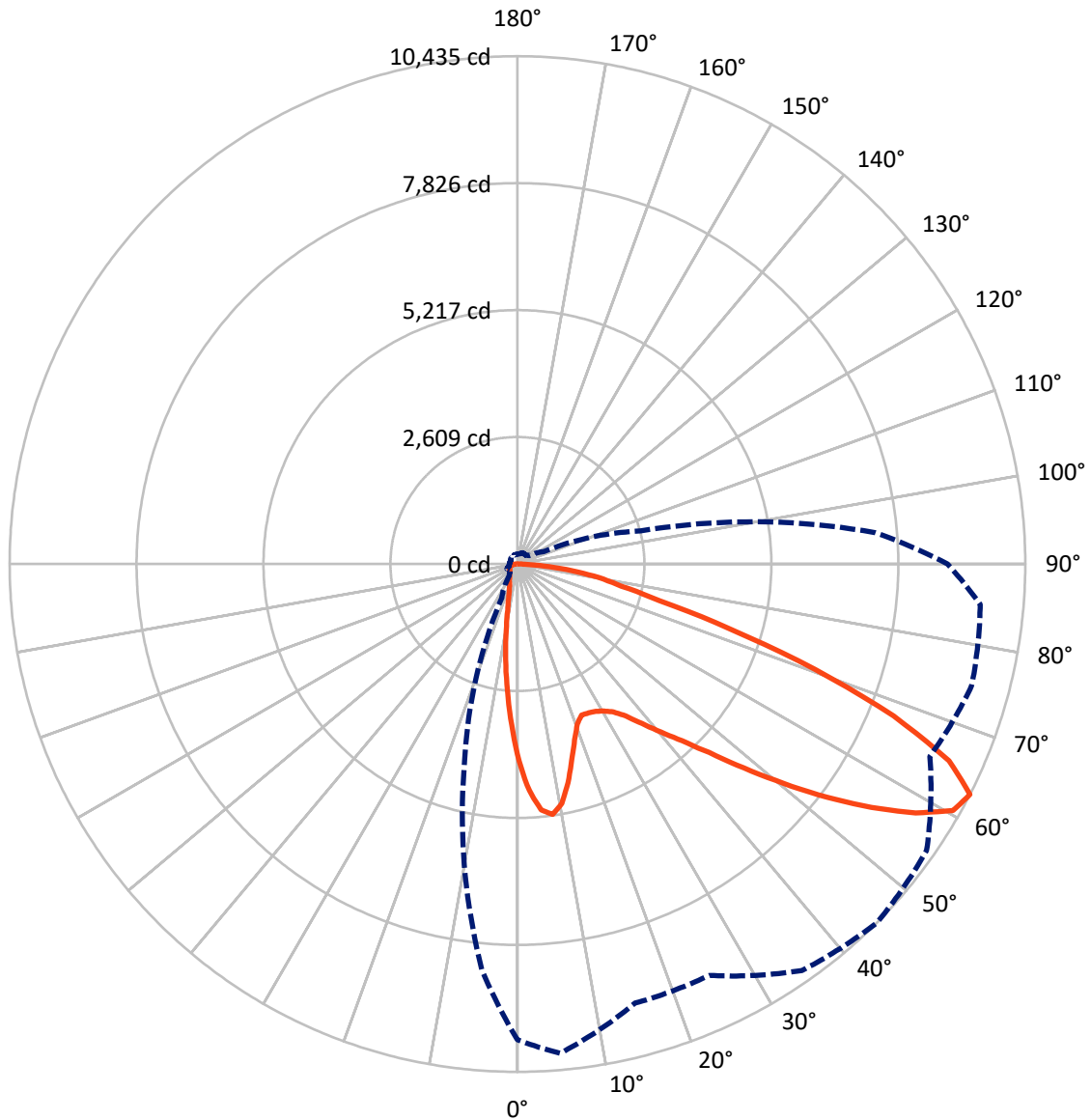
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

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

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

Coefficient of Utilization



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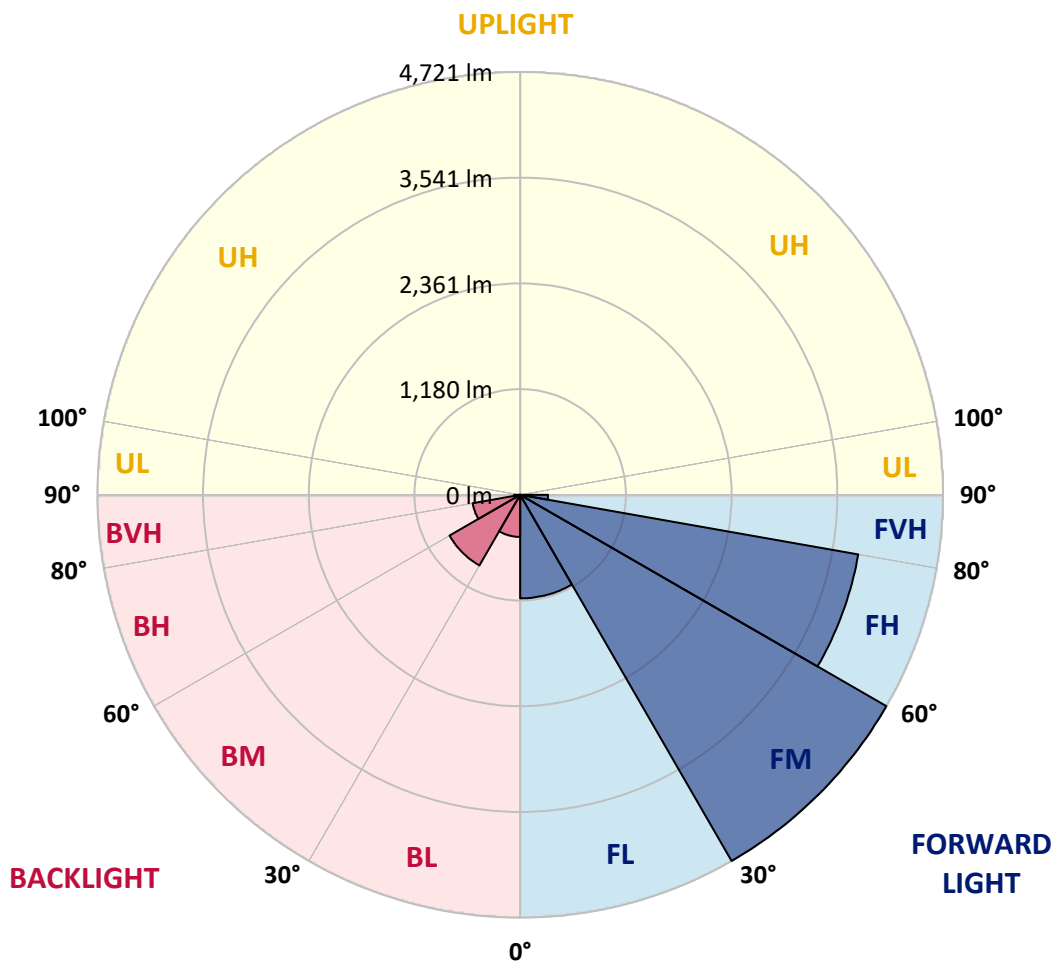
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	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





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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	4283.6	4415.0	4513.4	4632.8	4660.6	4698.8	4661.3	4594.6	4506.1	4477.0
5°	3964.7	4108.6	4427.5	4708.1	4957.6	5073.8	5106.3	5010.5	4817.1	4562.9	4407.7
7.5°	3561.3	3766.0	4197.8	4611.1	4978.8	5196.0	5190.8	4968.3	4612.4	4198.4	3949.5
10°	3213.4	3447.0	3942.2	4404.4	4794.6	5005.2	4924.0	4639.5	4215.0	3738.3	3468.2
12.5°	3018.6	3247.7	3750.1	4214.3	4540.4	4613.0	4551.0	4272.4	3872.3	3390.3	3154.0
15°	2984.9	3236.4	3673.5	4051.2	4234.1	4170.7	4096.7	3971.9	3689.4	3278.0	3031.8
17.5°	3130.8	3408.2	3761.3	3937.6	3906.5	3796.4	3775.2	3789.1	3721.1	3402.8	3119.0
20°	3410.7	3743.5	3970.6	3884.1	3657.7	3505.9	3511.1	3723.0	3924.4	3719.0	3394.9
22.5°	3803.6	4183.3	4272.4	3912.6	3552.7	3372.5	3416.0	3759.3	4248.6	4181.2	3767.3
25°	4311.9	4657.9	4593.9	4015.5	3563.2	3388.9	3423.9	3884.8	4631.5	4643.4	4228.2
27.5°	4804.5	5125.4	4863.9	4152.2	3606.8	3427.9	3474.1	4082.2	4997.3	5145.1	4755.0
30°	5188.7	5411.9	4970.9	4277.0	3692.6	3503.8	3561.3	4269.7	5163.7	5483.8	5160.4
32.5°	5507.0	5667.5	5141.2	4431.4	3850.5	3623.4	3724.4	4497.5	5403.3	5806.1	5557.2
35°	5913.7	5959.2	5353.2	4603.8	4094.1	3831.4	3956.8	4720.6	5631.8	6131.6	5948.0
37.5°	6390.4	6331.7	5553.2	4839.5	4409.0	4156.9	4260.5	4965.6	5820.0	6500.6	6347.5
40°	6861.7	6720.5	5804.1	5205.3	4868.5	4540.4	4663.2	5227.1	5995.5	6870.3	6737.7
42.5°	7262.5	7053.2	6051.7	5607.3	5296.3	4963.7	5110.2	5490.5	6163.3	7185.9	7076.4
45°	7559.0	7298.9	6287.4	5993.6	5886.0	5526.2	5595.4	5792.3	6344.9	7449.4	7355.0
47.5°	7823.7	7545.8	6554.1	6383.1	6401.6	6257.7	6146.1	6143.4	6558.8	7664.7	7618.4
50°	8178.3	7888.5	6840.7	6784.5	7175.4	7079.6	6833.4	6553.4	6829.4	7908.9	7903.6
52.5°	8666.8	8431.2	7190.6	7217.0	7897.7	7960.4	7655.4	7046.0	7253.3	8357.2	8325.5
55°	9244.6	9107.2	7667.2	7714.2	8783.7	8828.6	8525.6	7662.0	7876.5	9006.3	8918.4
57.5°	9695.5	9666.5	8190.2	8311.0	9445.3	9647.3	9368.7	8375.0	8579.1	9552.9	9332.4
60°	9875.1	10015.7	8746.7	8913.2	10057.3	10281.2	10036.9	9001.6	9201.6	9779.3	9303.9
62.5°	9778.0	10092.3	9339.6	9325.7	10194.0	10434.9	10263.3	9350.2	9663.1	9545.7	8833.3
65°	9329.7	9817.0	9683.7	9219.4	9726.5	9746.4	9690.9	9194.4	9772.0	8806.8	7923.5
67.5°	8353.2	9054.4	9230.7	8308.3	8465.5	8336.7	8243.7	8341.3	9204.3	7699.6	6659.1
70°	6803.6	7858.7	7943.2	6645.2	6573.9	6487.5	6301.9	6838.6	8083.9	6310.5	5283.8
72.5°	5002.5	6111.7	6371.2	4873.8	4543.7	4561.5	4415.0	5153.7	6572.6	4687.7	3944.9
75°	3422.6	4425.5	4984.7	3400.9	3004.7	3012.0	2993.5	3651.7	5235.0	3260.9	2951.9
77.5°	2500.3	3161.8	3759.3	2286.4	2219.7	2178.8	2168.9	2555.1	4013.5	2367.6	2292.3
80°	2006.4	2335.9	2525.4	1584.6	1704.0	1700.8	1645.9	1756.9	2621.1	1731.8	1714.7
82.5°	1391.7	1795.2	2046.1	1241.9	1150.1	1131.0	1144.2	1308.6	1852.6	1183.8	1125.7
85°	734.2	1192.4	2026.3	1100.6	682.7	544.7	677.4	1071.5	1605.0	627.2	549.3
87.5°	93.7	344.6	1341.6	439.1	269.3	145.3	321.5	603.4	1030.6	128.1	111.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	4402.5	4314.6	4199.7	4093.4	3983.2	3873.6	3730.3	3640.5	3578.5	3566.6	3540.1
5°	4295.5	4003.6	3783.1	3592.3	3419.3	3175.0	3039.7	2927.5	2867.4	2861.4	2846.9
7.5°	3802.3	3399.6	3101.8	2831.7	2586.7	2389.4	2171.5	2069.8	2028.2	2038.1	2048.0
10°	3289.3	2839.0	2497.0	2221.0	2005.1	1838.8	1663.8	1545.6	1463.7	1447.3	1443.9
12.5°	2914.3	2420.4	2088.4	1893.6	1726.5	1570.0	1384.5	1245.2	1138.9	1102.5	1078.2
15°	2755.8	2215.7	1867.8	1657.8	1473.7	1274.9	1102.5	956.7	859.0	827.3	809.5
17.5°	2789.5	2158.9	1715.9	1447.3	1211.5	1004.2	787.0	662.3	603.4	588.3	588.3
20°	2966.5	2148.4	1590.5	1253.1	959.3	719.0	540.7	469.4	450.3	448.3	453.6
22.5°	3214.6	2185.3	1496.8	1084.7	745.4	524.9	421.3	394.9	386.3	388.2	394.1
25°	3584.4	2310.1	1428.8	934.9	584.9	429.8	375.6	359.9	355.9	361.1	368.4
27.5°	4022.8	2434.9	1386.5	821.9	493.9	392.8	357.2	340.6	343.3	350.0	356.5
30°	4407.7	2537.2	1319.8	741.4	465.4	394.9	357.2	334.7	332.0	333.4	335.4
32.5°	4753.0	2606.6	1241.9	664.8	401.4	350.6	333.4	330.1	315.6	310.3	311.0
35°	5050.8	2606.6	1195.0	619.9	359.9	311.0	283.3	266.7	259.4	260.1	267.4
37.5°	5338.0	2554.4	1171.9	594.8	337.4	295.7	271.4	256.9	246.9	245.0	246.2
40°	5591.4	2478.5	1145.5	584.3	320.2	286.5	263.4	251.5	241.0	237.7	238.3
42.5°	5794.8	2417.1	1116.4	570.4	309.6	280.0	258.2	247.6	235.7	232.4	231.7
45°	6014.7	2396.7	1078.2	542.7	315.0	280.6	256.9	245.6	233.7	229.8	228.4
47.5°	6304.5	2460.7	1038.5	509.7	326.1	283.9	258.8	245.6	233.0	229.8	228.4
50°	6669.6	2611.2	988.4	461.5	315.0	293.2	258.2	243.7	233.0	229.8	227.1
52.5°	7138.5	2814.5	922.3	406.0	308.3	315.6	256.9	239.7	229.8	225.2	220.5
55°	7708.2	2981.0	843.7	360.5	293.2	309.6	254.8	235.1	224.4	217.9	213.9
57.5°	8125.5	3041.0	742.8	330.8	272.0	299.7	252.2	229.1	217.9	212.6	207.4
60°	8043.0	2924.8	657.6	312.3	259.4	270.7	250.2	223.8	212.0	208.0	203.4
62.5°	7382.0	2621.1	602.8	303.7	251.5	246.9	252.2	218.5	206.6	202.6	201.4
65°	6391.1	2172.8	581.0	301.8	245.0	233.0	234.4	212.6	200.7	197.4	196.1
67.5°	5272.0	1753.5	561.9	308.3	236.4	223.2	216.6	204.7	194.8	191.5	188.8
70°	4157.5	1458.4	553.3	304.3	225.8	213.3	206.0	196.1	187.5	184.2	182.2
72.5°	3348.0	1232.0	548.6	300.4	212.0	200.1	193.4	184.8	175.6	174.3	172.4
75°	2833.1	968.5	502.5	287.9	196.1	184.2	179.6	171.7	162.4	162.4	161.1
77.5°	2185.3	700.5	417.9	254.8	179.6	166.3	162.4	156.5	145.9	147.9	147.2
80°	1614.2	456.8	326.8	211.2	159.1	146.6	144.5	138.6	127.5	130.0	130.0
82.5°	1105.9	299.7	235.1	173.0	136.1	124.1	124.1	118.2	105.7	107.0	110.9
85°	555.3	206.0	175.6	134.0	105.7	99.7	99.7	95.0	82.6	83.2	88.5
87.5°	169.0	124.1	116.2	95.7	75.9	74.6	71.3	68.0	60.0	59.4	62.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	3499.9	3462.3	3416.7	3316.3	3282.6	3280.7	3311.1	3279.4	3340.1	3314.4	3342.8
5°	2822.5	2785.5	2734.7	2606.6	2528.7	2475.8	2450.8	2376.8	2430.3	2391.4	2423.7
7.5°	2075.8	2084.4	2050.7	1975.4	1805.7	1720.6	1670.4	1625.5	1664.4	1660.5	1722.5
10°	1459.1	1482.3	1458.4	1382.5	1245.2	1198.3	1207.6	1225.4	1276.2	1302.6	1398.4
12.5°	1050.5	1049.1	1033.9	965.9	875.4	880.8	918.4	949.4	996.3	1024.0	1121.8
15°	784.4	772.4	765.9	710.4	658.9	670.1	688.7	691.9	721.6	738.2	817.3
17.5°	592.9	598.8	606.1	566.5	527.5	520.3	505.7	487.9	496.5	499.8	539.4
20°	470.8	494.5	512.3	484.6	445.0	423.9	405.4	393.5	393.5	392.8	404.1
22.5°	411.3	428.5	447.6	428.5	392.8	374.4	363.8	354.6	353.2	353.2	363.8
25°	379.0	391.5	410.0	396.8	370.4	356.5	346.6	334.7	330.1	328.8	336.0
27.5°	363.1	368.4	377.7	365.8	343.3	336.8	334.1	323.6	317.5	314.3	321.5
30°	336.0	334.7	335.4	323.6	305.7	305.0	309.6	311.6	309.6	309.0	320.2
32.5°	311.0	308.3	307.7	297.1	280.6	276.6	280.6	284.6	289.2	295.7	309.0
35°	279.3	285.9	289.8	280.6	260.8	248.9	244.3	237.0	233.0	233.0	248.3
37.5°	254.2	269.3	275.3	266.7	245.0	228.4	220.5	219.2	219.8	222.5	237.0
40°	245.6	256.9	262.1	253.5	231.7	216.6	212.0	210.6	212.0	215.9	230.5
42.5°	240.3	248.3	247.6	237.0	219.2	208.7	206.0	204.7	206.0	209.9	225.8
45°	235.7	241.0	235.7	223.2	206.6	201.4	202.0	201.4	202.6	206.6	221.9
47.5°	231.7	233.7	227.1	214.6	197.4	196.1	198.8	200.7	202.0	205.3	221.2
50°	225.8	225.8	219.8	206.6	189.5	190.2	193.4	198.0	198.8	202.6	215.2
52.5°	218.5	217.9	213.9	201.4	182.9	184.8	184.8	190.2	191.5	196.1	209.3
55°	212.6	211.2	209.3	197.4	177.0	180.2	178.3	180.2	183.5	188.1	202.6
57.5°	207.4	204.7	204.7	194.2	172.4	173.6	169.0	171.7	175.6	179.6	194.8
60°	202.0	199.4	200.7	189.5	165.1	163.8	161.7	167.0	168.4	173.0	188.1
62.5°	196.1	194.2	194.8	184.2	159.8	156.5	156.5	161.1	161.7	168.4	182.9
65°	191.5	188.8	188.1	178.9	153.9	149.9	151.8	153.9	155.2	161.7	175.6
67.5°	186.9	181.6	181.6	174.3	147.2	143.3	147.2	146.6	148.5	154.5	165.7
70°	180.9	173.6	174.3	171.0	140.7	136.1	139.3	138.6	139.9	143.9	155.2
72.5°	171.7	165.7	167.0	165.7	134.0	127.5	128.8	128.8	128.8	132.1	143.9
75°	159.8	155.2	159.1	162.4	126.1	116.8	118.2	118.2	116.2	118.2	132.7
77.5°	145.3	142.6	155.8	151.2	116.8	105.7	105.7	104.3	100.4	103.0	118.9
80°	129.4	127.5	143.9	126.7	106.3	91.8	90.4	87.2	83.2	85.2	101.0
82.5°	112.9	110.9	120.8	97.1	91.8	75.9	72.6	66.7	62.7	64.8	79.3
85°	92.5	92.5	93.1	73.2	70.0	58.1	54.1	46.2	41.6	43.0	56.8
87.5°	66.0	68.0	62.7	50.2	41.6	32.3	29.7	25.1	21.2	24.4	29.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-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°	3488.0	3560.6	3643.1	3748.8	3839.2	3987.8	4130.4	4216.2
5°	2607.9	2728.7	2879.3	3072.7	3253.0	3523.7	3792.4	3964.7
7.5°	1866.5	1995.9	2158.3	2399.9	2654.8	3000.1	3355.3	3561.3
10°	1544.2	1677.0	1813.7	1976.8	2185.3	2561.1	2981.0	3213.4
12.5°	1277.6	1419.4	1566.8	1738.4	1931.8	2267.3	2751.2	3018.6
15°	977.8	1136.3	1309.9	1527.2	1769.4	2157.0	2694.5	2984.9
17.5°	670.1	847.1	1060.3	1328.4	1624.9	2121.3	2796.0	3130.8
20°	461.5	590.2	818.1	1132.3	1488.8	2116.7	2991.5	3410.7
22.5°	386.3	443.7	610.1	952.1	1386.5	2173.5	3294.5	3803.6
25°	357.2	391.5	487.2	795.5	1311.8	2304.2	3711.8	4311.9
27.5°	340.0	371.0	442.3	693.3	1253.1	2456.1	4117.9	4804.5
30°	346.6	378.3	429.8	641.1	1173.2	2582.8	4478.4	5188.7
32.5°	312.3	326.1	368.4	594.8	1115.8	2689.1	4794.0	5507.0
35°	266.1	290.5	328.8	573.1	1117.1	2760.4	5137.9	5913.7
37.5°	253.5	277.9	305.7	565.2	1132.3	2836.3	5532.7	6390.4
40°	245.6	268.0	291.8	560.6	1146.8	2905.7	5919.6	6861.7
42.5°	240.3	260.8	290.5	544.7	1154.1	2967.8	6237.9	7262.5
45°	239.7	260.8	295.7	528.9	1165.3	3034.4	6504.6	7559.0
47.5°	240.3	269.3	285.9	509.7	1165.3	3146.0	6817.6	7823.7
50°	237.7	283.9	275.3	482.6	1138.2	3357.3	7246.7	8178.3
52.5°	236.4	281.9	254.8	441.0	1091.4	3692.6	7796.6	8666.8
55°	233.0	272.0	240.3	379.0	1036.6	4058.5	8385.6	9244.6
57.5°	229.8	241.0	232.4	324.8	952.1	4315.9	8790.9	9695.5
60°	257.5	210.6	225.8	298.4	839.1	4386.6	8775.2	9875.1
62.5°	238.3	197.4	217.2	292.5	760.0	4188.5	8369.8	9778.0
65°	186.9	188.8	208.7	309.6	738.8	3663.6	7651.5	9329.7
67.5°	171.0	180.2	200.1	331.4	740.8	2933.4	6577.9	8353.2
70°	161.1	171.0	190.2	342.7	746.0	2186.7	5200.7	6803.6
72.5°	149.9	158.5	178.9	344.6	711.8	1588.5	4008.2	5002.5
75°	136.7	144.5	163.1	300.4	589.6	1101.9	3066.1	3422.6
77.5°	121.5	127.5	143.3	231.7	437.7	705.1	2301.5	2500.3
80°	103.6	107.0	120.2	169.7	299.7	441.0	1821.0	2006.4
82.5°	83.2	84.5	93.1	127.5	194.8	283.3	1219.5	1391.7
85°	58.7	58.7	64.0	92.5	132.7	179.6	662.3	734.2
87.5°	27.7	28.4	28.4	50.8	69.4	91.1	152.5	93.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)