

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: P191270

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191270
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA 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: 7213.8 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

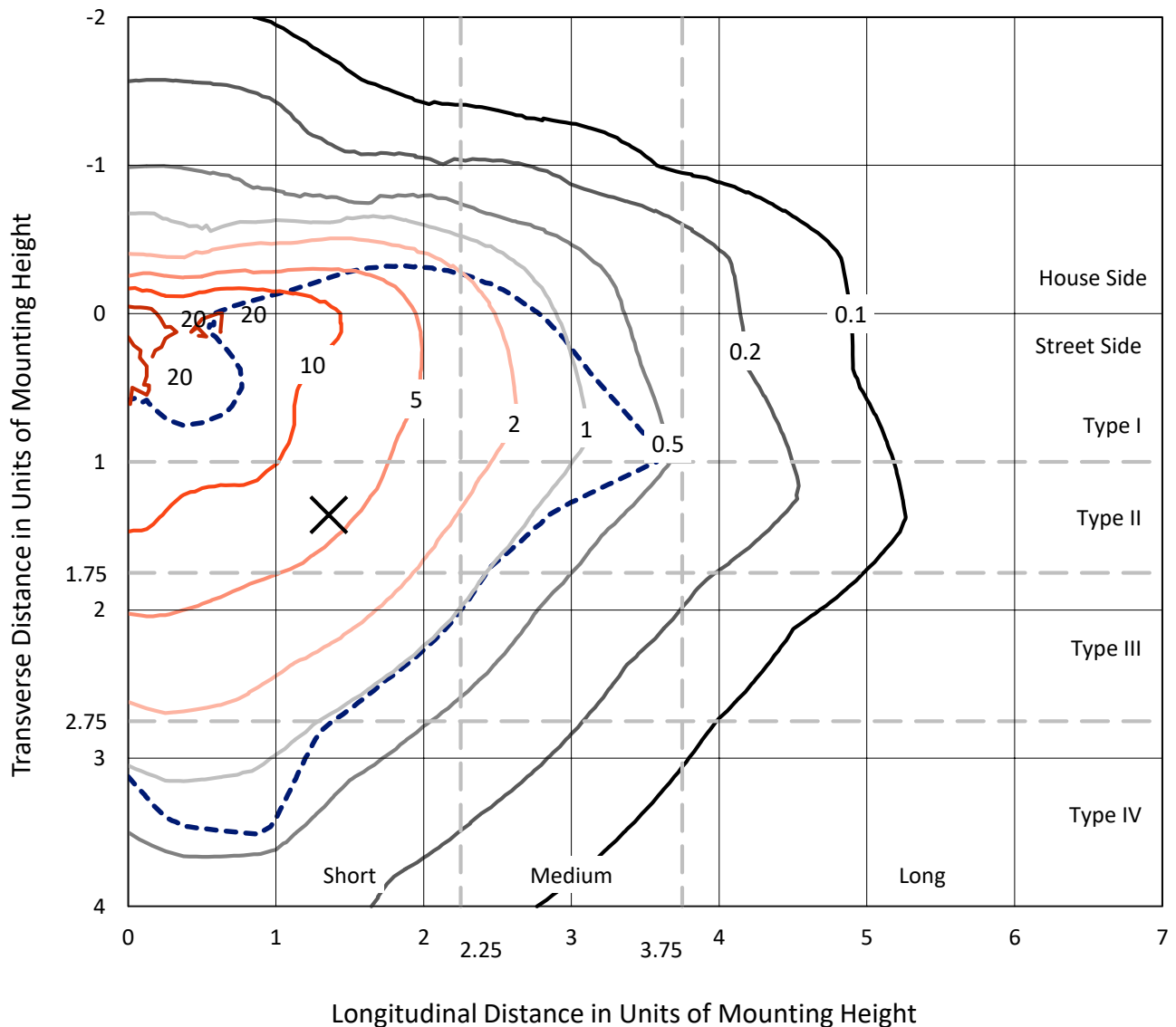
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

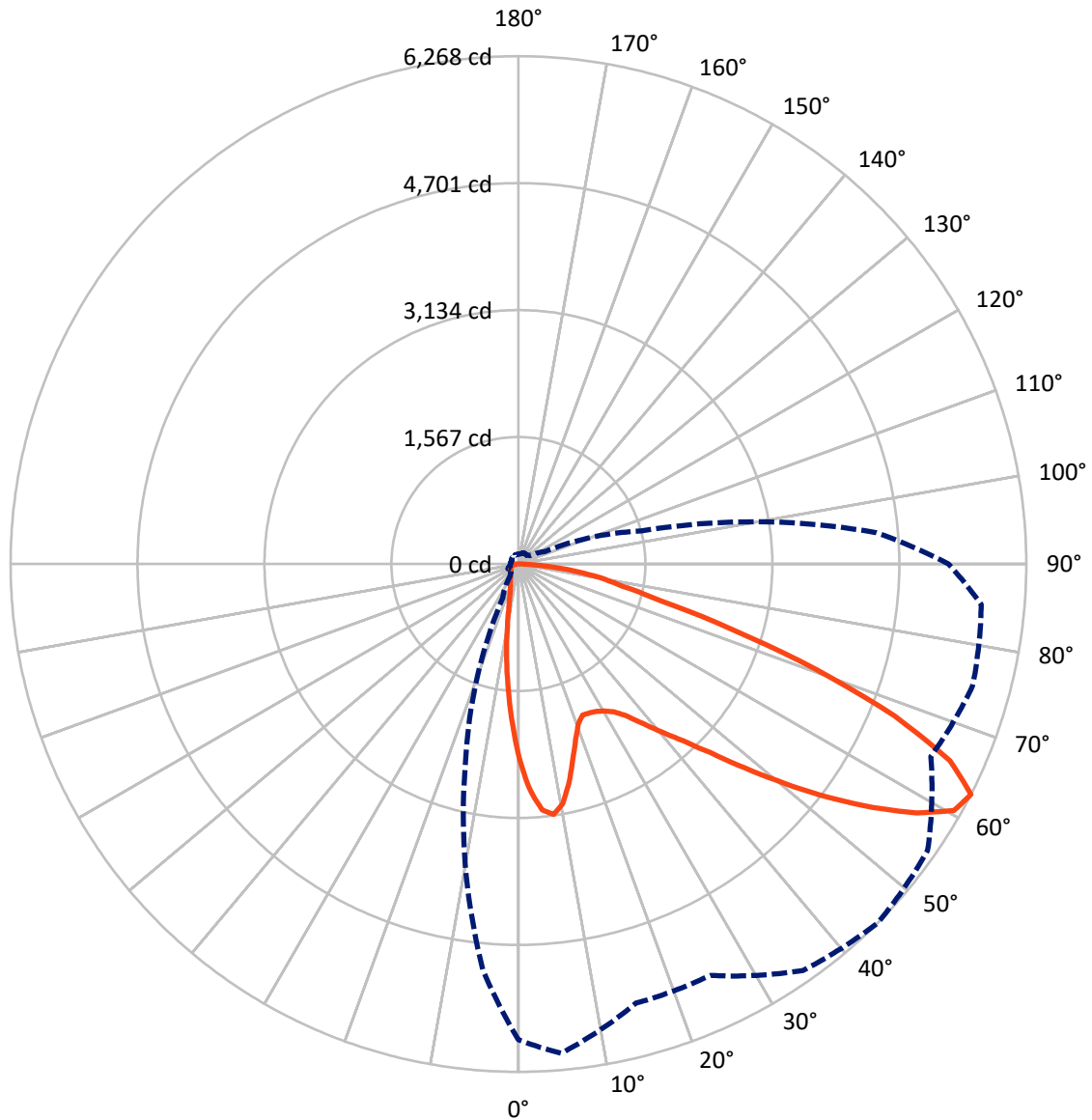
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.7 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	1193.8	0.0	1193.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6020.1	0.0	6020.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	7213.8	0.0	7213.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	2.5
10°-20°	325.3	4.5
20°-30°	474.3	6.6
30°-40°	730.6	10.1
40°-50°	1075.2	14.9
50°-60°	1577.1	21.9
60°-70°	1762.9	24.4
70°-80°	863.1	12.0
80°-90°	227.9	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°	7213.8	100.0
0°-180°	7213.8	100.0



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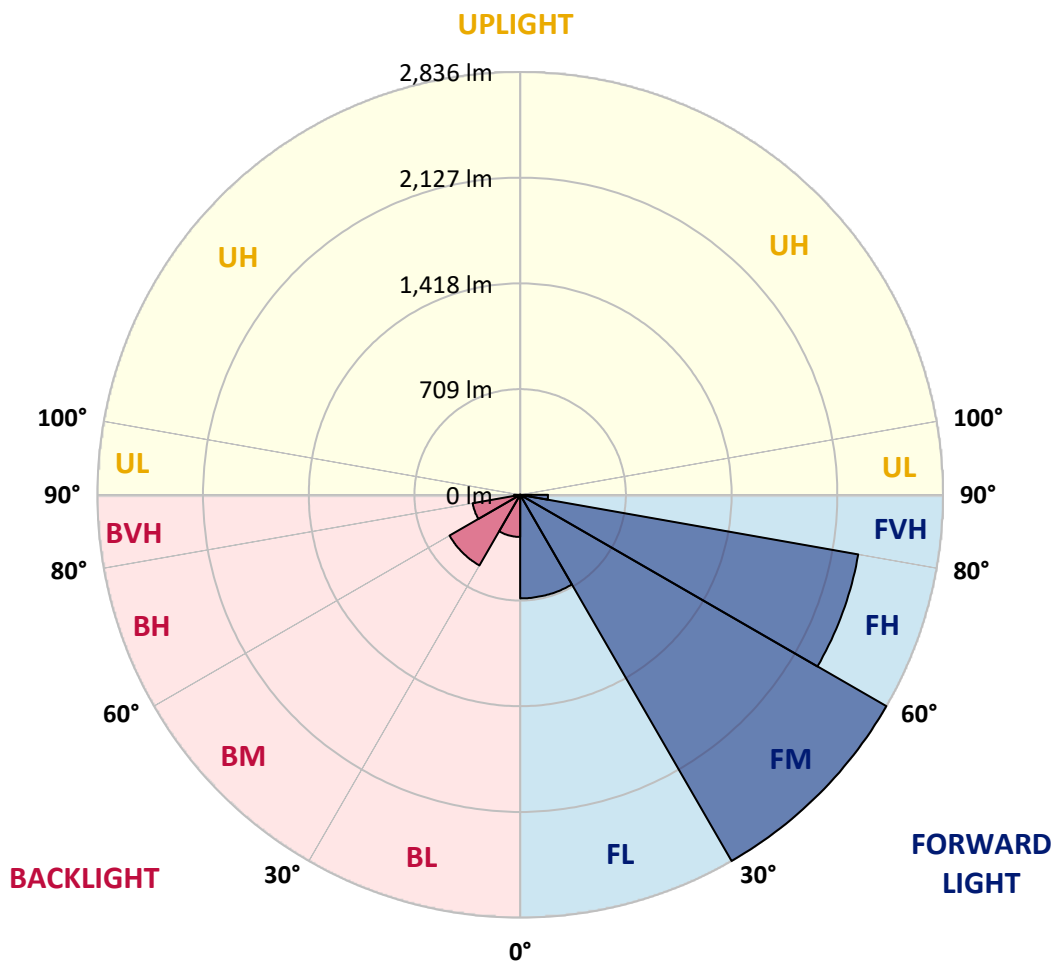
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	694.7	9.6			
FM	(30°-60°)	2835.8	39.3			
FH	(60°-80°)	2302.4	31.9			G2/5000
FVH	(80°-90°)	187.1	2.6			G2/225
BL	(0°-30°)	282.4	3.9	B1/500		
BM	(30°-60°)	547.0	7.6	B1/1000		
BH	(60°-80°)	323.6	4.5	B1/500		G1/500
BVH	(80°-90°)	40.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2
2.5°	2532.4	2572.8	2651.8	2710.8	2782.6	2799.3	2822.3	2799.7	2759.6	2706.5	2689.0
5°	2381.3	2467.8	2659.3	2827.8	2977.7	3047.6	3066.9	3009.4	2893.3	2740.6	2647.4
7.5°	2139.0	2261.9	2521.3	2769.5	2990.4	3120.9	3117.7	2984.0	2770.4	2521.7	2372.2
10°	1930.0	2070.5	2367.8	2645.5	2879.8	3006.2	2957.6	2786.6	2531.6	2245.3	2083.1
12.5°	1813.1	1950.7	2252.4	2531.2	2727.1	2770.8	2733.4	2566.1	2325.8	2036.3	1894.3
15°	1792.8	1943.9	2206.4	2433.3	2543.2	2505.0	2460.6	2385.6	2215.9	1968.9	1821.0
17.5°	1880.5	2047.0	2259.2	2365.1	2346.4	2280.2	2267.5	2275.9	2234.9	2043.9	1873.3
20°	2048.6	2248.4	2384.9	2332.9	2196.9	2105.7	2108.9	2236.2	2357.1	2233.8	2039.0
22.5°	2284.6	2512.6	2566.1	2350.0	2133.9	2025.6	2051.7	2258.0	2551.9	2511.3	2262.8
25°	2589.9	2797.7	2759.2	2411.8	2140.2	2035.5	2056.5	2333.4	2781.8	2789.0	2539.6
27.5°	2885.7	3078.5	2921.4	2494.0	2166.4	2058.9	2086.7	2451.9	3001.5	3090.3	2856.0
30°	3116.5	3250.5	2985.7	2568.8	2218.0	2104.5	2139.0	2564.5	3101.5	3293.8	3099.4
32.5°	3307.7	3404.1	3088.0	2661.7	2312.7	2176.3	2237.0	2701.3	3245.4	3487.3	3337.8
35°	3552.0	3579.3	3215.2	2765.1	2459.1	2301.2	2376.5	2835.4	3382.6	3682.8	3572.6
37.5°	3838.2	3802.9	3335.4	2906.7	2648.2	2496.7	2559.0	2982.5	3495.6	3904.5	3812.4
40°	4121.4	4036.6	3486.1	3126.4	2924.2	2727.1	2800.8	3139.5	3601.1	4126.6	4046.8
42.5°	4362.1	4236.3	3634.9	3368.0	3181.2	2981.3	3069.4	3297.8	3701.9	4316.1	4250.3
45°	4540.2	4384.0	3776.4	3600.0	3535.3	3319.2	3360.8	3479.0	3810.9	4474.3	4417.6
47.5°	4699.1	4532.2	3936.6	3833.9	3845.0	3758.5	3691.5	3690.0	3939.4	4603.6	4575.9
50°	4912.1	4738.0	4108.7	4075.0	4309.8	4252.3	4104.4	3936.2	4101.9	4750.4	4747.2
52.5°	5205.6	5064.0	4318.9	4334.8	4743.6	4781.3	4598.1	4232.0	4356.5	5019.6	5000.6
55°	5552.6	5470.1	4605.2	4633.4	5275.8	5302.8	5120.7	4602.1	4730.9	5409.4	5356.7
57.5°	5823.5	5806.0	4919.3	4991.8	5673.1	5794.5	5627.2	5030.3	5152.8	5737.7	5605.3
60°	5931.3	6015.8	5253.6	5353.5	6040.7	6175.1	6028.5	5406.6	5526.8	5873.8	5588.3
62.5°	5873.0	6061.7	5609.7	5601.4	6122.8	6267.5	6164.4	5616.0	5804.0	5733.4	5305.5
65°	5603.7	5896.4	5816.3	5537.5	5842.1	5853.9	5820.6	5522.4	5869.4	5289.7	4759.1
67.5°	5017.2	5438.3	5544.2	4990.3	5084.6	5007.3	4951.4	5010.1	5528.3	4624.7	3999.6
70°	4086.5	4720.2	4770.9	3991.3	3948.5	3896.5	3785.1	4107.6	4855.4	3790.2	3173.6
72.5°	3004.7	3670.9	3826.8	2927.4	2729.1	2739.8	2651.8	3095.6	3947.7	2815.6	2369.5
75°	2055.7	2658.1	2994.0	2042.6	1804.7	1809.1	1797.9	2193.3	3144.2	1958.5	1773.0
77.5°	1501.8	1899.1	2258.0	1373.3	1333.2	1308.7	1302.7	1534.6	2410.7	1422.0	1376.8
80°	1205.1	1403.0	1516.8	951.8	1023.5	1021.5	988.6	1055.3	1574.3	1040.1	1029.8
82.5°	836.0	1078.2	1229.0	745.9	690.8	679.3	687.2	785.9	1112.8	711.1	676.2
85°	441.0	716.2	1217.0	661.0	410.0	327.1	406.8	643.6	964.0	376.8	329.9
87.5°	56.3	207.0	805.8	263.7	161.8	87.3	193.1	362.4	619.0	76.9	67.0
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°	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2
2.5°	2644.2	2591.4	2522.5	2458.7	2392.4	2326.6	2240.6	2186.6	2149.3	2142.2	2126.3
5°	2580.0	2404.8	2272.3	2157.6	2053.8	1907.0	1825.8	1758.4	1722.2	1718.7	1710.0
7.5°	2283.7	2041.9	1863.0	1700.9	1553.7	1435.1	1304.3	1243.2	1218.2	1224.2	1230.1
10°	1975.6	1705.2	1499.7	1334.0	1204.3	1104.4	999.3	928.3	879.1	869.2	867.3
12.5°	1750.4	1453.8	1254.3	1137.3	1037.0	943.1	831.6	747.9	684.0	662.3	647.5
15°	1655.2	1330.9	1121.9	995.7	885.2	765.8	662.3	574.6	515.9	496.8	486.2
17.5°	1675.5	1296.7	1030.6	869.2	727.7	603.1	472.7	397.7	362.4	353.3	353.3
20°	1781.7	1290.4	955.3	752.7	576.2	431.9	324.8	281.9	270.5	269.2	272.4
22.5°	1930.8	1312.5	899.0	651.5	447.7	315.3	253.0	237.1	232.0	233.1	236.7
25°	2152.9	1387.5	858.2	561.5	351.4	258.2	225.7	216.1	213.7	216.9	221.3
27.5°	2416.2	1462.5	832.8	493.7	296.7	236.0	214.5	204.6	206.2	210.2	214.1
30°	2647.4	1524.0	792.7	445.3	279.6	237.1	214.5	201.0	199.5	200.3	201.4
32.5°	2854.7	1565.6	745.9	399.4	241.1	210.5	200.3	198.2	189.6	186.4	186.8
35°	3033.7	1565.6	717.8	372.4	216.1	186.8	170.1	160.2	155.8	156.2	160.6
37.5°	3206.1	1534.2	703.9	357.3	202.6	177.7	163.0	154.3	148.3	147.1	147.9
40°	3358.4	1488.7	688.0	351.0	192.3	172.1	158.3	151.1	144.7	142.8	143.1
42.5°	3480.6	1451.8	670.5	342.6	186.0	168.2	155.1	148.7	141.6	139.6	139.2
45°	3612.7	1439.5	647.5	326.0	189.1	168.6	154.3	147.5	140.3	138.0	137.2
47.5°	3786.7	1478.0	623.8	306.2	195.9	170.5	155.5	147.5	139.9	138.0	137.2
50°	4006.0	1568.4	593.6	277.2	189.1	176.0	155.1	146.3	139.9	138.0	136.5
52.5°	4287.6	1690.5	554.0	243.9	185.2	189.6	154.3	143.9	138.0	135.2	132.5
55°	4629.8	1790.5	506.8	216.6	176.0	186.0	153.0	141.2	134.8	130.8	128.5
57.5°	4880.4	1826.6	446.1	198.7	163.4	180.0	151.5	137.6	130.8	127.7	124.5
60°	4830.8	1756.7	395.0	187.6	155.8	162.5	150.3	134.4	127.3	124.9	122.1
62.5°	4433.9	1574.3	362.0	182.4	151.1	148.3	151.5	131.2	124.1	121.7	120.9
65°	3838.6	1305.1	348.9	181.3	147.1	139.9	140.8	127.7	120.5	118.6	117.7
67.5°	3166.4	1053.2	337.5	185.2	142.0	134.0	130.1	123.0	117.0	115.0	113.4
70°	2497.1	876.0	332.4	182.8	135.6	128.1	123.7	117.7	112.6	110.7	109.5
72.5°	2010.9	740.0	329.5	180.4	127.3	120.2	116.2	111.0	105.5	104.6	103.5
75°	1701.6	581.8	301.8	172.9	117.7	110.7	107.8	103.1	97.6	97.6	96.8
77.5°	1312.5	420.7	251.0	153.0	107.8	99.9	97.6	94.0	87.7	88.8	88.4
80°	969.6	274.5	196.3	126.9	95.5	88.1	86.8	83.3	76.5	78.2	78.2
82.5°	664.2	180.0	141.2	103.9	81.7	74.6	74.6	71.0	63.4	64.2	66.6
85°	333.5	123.7	105.5	80.5	63.4	59.8	59.8	57.1	49.6	49.9	53.1
87.5°	101.5	74.6	69.8	57.5	45.6	44.8	42.9	40.8	36.1	35.7	37.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2
2.5°	2102.2	2079.6	2052.1	1991.9	1971.6	1970.5	1988.7	1969.7	2006.2	1990.7	2007.7
5°	1695.2	1673.0	1642.6	1565.6	1518.8	1487.1	1472.0	1427.6	1459.8	1436.3	1455.8
7.5°	1246.8	1251.9	1231.7	1186.5	1084.5	1033.4	1003.3	976.3	999.7	997.4	1034.6
10°	876.4	890.3	876.0	830.4	747.9	719.7	725.3	736.0	766.5	782.4	839.9
12.5°	631.0	630.1	621.0	580.1	525.8	529.0	551.6	570.3	598.4	615.1	673.7
15°	471.1	464.0	460.0	426.7	395.8	402.5	413.6	415.6	433.4	443.3	490.9
17.5°	356.1	359.7	364.1	340.2	316.8	312.5	303.7	293.1	298.2	300.2	324.0
20°	282.7	297.1	307.7	291.0	267.3	254.6	243.5	236.3	236.3	236.0	242.6
22.5°	247.0	257.4	268.8	257.4	236.0	224.8	218.5	213.0	212.2	212.2	218.5
25°	227.6	235.2	246.2	238.3	222.5	214.1	208.2	201.0	198.2	197.5	201.8
27.5°	218.1	221.3	226.8	219.7	206.2	202.2	200.7	194.4	190.8	188.7	193.1
30°	201.8	201.0	201.4	194.4	183.6	183.2	186.0	187.2	186.0	185.6	192.3
32.5°	186.8	185.2	184.7	178.4	168.6	166.1	168.6	170.9	173.7	177.7	185.6
35°	167.8	171.8	174.1	168.6	156.6	149.5	146.7	142.4	139.9	139.9	149.1
37.5°	152.6	161.8	165.4	160.2	147.1	137.2	132.5	131.7	132.1	133.6	142.4
40°	147.5	154.3	157.4	152.3	139.2	130.1	127.3	126.5	127.3	129.7	138.4
42.5°	144.3	149.1	148.7	142.4	131.7	125.3	123.7	123.0	123.7	126.1	135.6
45°	141.6	144.7	141.6	134.0	124.1	120.9	121.3	120.9	121.7	124.1	133.3
47.5°	139.2	140.3	136.5	128.9	118.6	117.7	119.4	120.5	121.3	123.4	132.9
50°	135.6	135.6	132.1	124.1	113.9	114.2	116.2	119.0	119.4	121.7	129.3
52.5°	131.2	130.8	128.5	120.9	109.9	111.0	111.0	114.2	115.0	117.7	125.7
55°	127.7	126.9	125.7	118.6	106.3	108.2	107.1	108.2	110.3	113.0	121.7
57.5°	124.5	123.0	123.0	116.6	103.5	104.3	101.5	103.1	105.5	107.8	117.0
60°	121.3	119.8	120.5	113.9	99.1	98.3	97.2	100.4	101.2	103.9	113.0
62.5°	117.7	116.6	117.0	110.7	96.0	94.0	94.0	96.8	97.2	101.2	109.9
65°	115.0	113.4	113.0	107.5	92.4	90.0	91.2	92.4	93.2	97.2	105.5
67.5°	112.2	109.0	109.0	104.6	88.4	86.0	88.4	88.1	89.2	92.8	99.5
70°	108.6	104.3	104.6	102.7	84.5	81.7	83.7	83.3	84.1	86.4	93.2
72.5°	103.1	99.5	100.4	99.5	80.5	76.5	77.3	77.3	77.3	79.3	86.4
75°	96.0	93.2	95.5	97.6	75.7	70.2	71.0	71.0	69.8	71.0	79.7
77.5°	87.3	85.6	93.6	90.8	70.2	63.4	63.4	62.6	60.3	61.9	71.4
80°	77.7	76.5	86.4	76.1	63.8	55.1	54.3	52.4	49.9	51.1	60.7
82.5°	67.8	66.6	72.5	58.3	55.1	45.6	43.6	40.1	37.6	38.9	47.6
85°	55.5	55.5	56.0	44.0	42.0	34.9	32.5	27.7	25.0	25.8	34.1
87.5°	39.7	40.8	37.6	30.2	25.0	19.4	17.8	15.0	12.7	14.6	17.8
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-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2
2.5°	2095.0	2138.6	2188.2	2251.6	2305.9	2395.2	2480.9	2532.4
5°	1566.3	1639.0	1729.4	1845.6	1953.8	2116.4	2277.8	2381.3
7.5°	1121.1	1198.8	1296.4	1441.4	1594.6	1801.9	2015.3	2139.0
10°	927.5	1007.3	1089.3	1187.2	1312.5	1538.2	1790.5	1930.0
12.5°	767.3	852.6	941.0	1044.1	1160.3	1361.8	1652.5	1813.1
15°	587.3	682.5	786.8	917.3	1062.7	1295.6	1618.3	1792.8
17.5°	402.5	508.8	636.9	797.9	975.9	1274.1	1679.4	1880.5
20°	277.2	354.6	491.3	680.1	894.3	1271.3	1796.8	2048.6
22.5°	232.0	266.5	366.4	571.8	832.8	1305.5	1978.8	2284.6
25°	214.5	235.2	292.7	477.8	788.0	1384.0	2229.4	2589.9
27.5°	204.2	222.9	265.7	416.3	752.7	1475.2	2473.3	2885.7
30°	208.2	227.2	258.2	385.0	704.7	1551.3	2689.8	3116.5
32.5°	187.6	195.9	221.3	357.3	670.1	1615.1	2879.4	3307.7
35°	159.8	174.5	197.5	344.2	671.0	1658.0	3086.0	3552.0
37.5°	152.3	166.9	183.6	339.4	680.1	1703.6	3323.2	3838.2
40°	147.5	161.0	175.2	336.7	688.9	1745.3	3555.5	4121.4
42.5°	144.3	156.6	174.5	327.1	693.2	1782.5	3746.7	4362.1
45°	143.9	156.6	177.7	317.6	699.9	1822.6	3906.9	4540.2
47.5°	144.3	161.8	171.8	306.2	699.9	1889.6	4094.9	4699.1
50°	142.8	170.5	165.4	289.9	683.6	2016.4	4352.6	4912.1
52.5°	142.0	169.3	153.0	264.9	655.5	2218.0	4683.0	5205.6
55°	139.9	163.4	144.3	227.6	622.6	2437.6	5036.6	5552.6
57.5°	138.0	144.7	139.6	195.1	571.8	2592.3	5280.2	5823.5
60°	154.7	126.5	135.6	179.2	504.0	2634.7	5270.7	5931.3
62.5°	143.1	118.6	130.4	175.6	456.4	2515.7	5027.1	5873.0
65°	112.2	113.4	125.3	186.0	443.8	2200.5	4595.7	5603.7
67.5°	102.7	108.2	120.2	199.1	445.0	1761.9	3950.8	5017.2
70°	96.8	102.7	114.2	205.8	448.2	1313.4	3123.7	4086.5
72.5°	90.0	95.1	107.5	207.0	427.5	954.1	2407.5	3004.7
75°	82.0	86.8	98.0	180.4	354.1	661.8	1841.6	2055.7
77.5°	72.9	76.5	86.0	139.2	262.9	423.5	1382.4	1501.8
80°	62.3	64.2	72.2	101.9	180.0	264.9	1093.7	1205.1
82.5°	49.9	50.7	56.0	76.5	117.0	170.1	732.4	836.0
85°	35.3	35.3	38.5	55.5	79.7	107.8	397.7	441.0
87.5°	16.7	17.1	17.1	30.5	41.6	54.7	91.6	56.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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