

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: P191271

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191271
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 10763.5 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

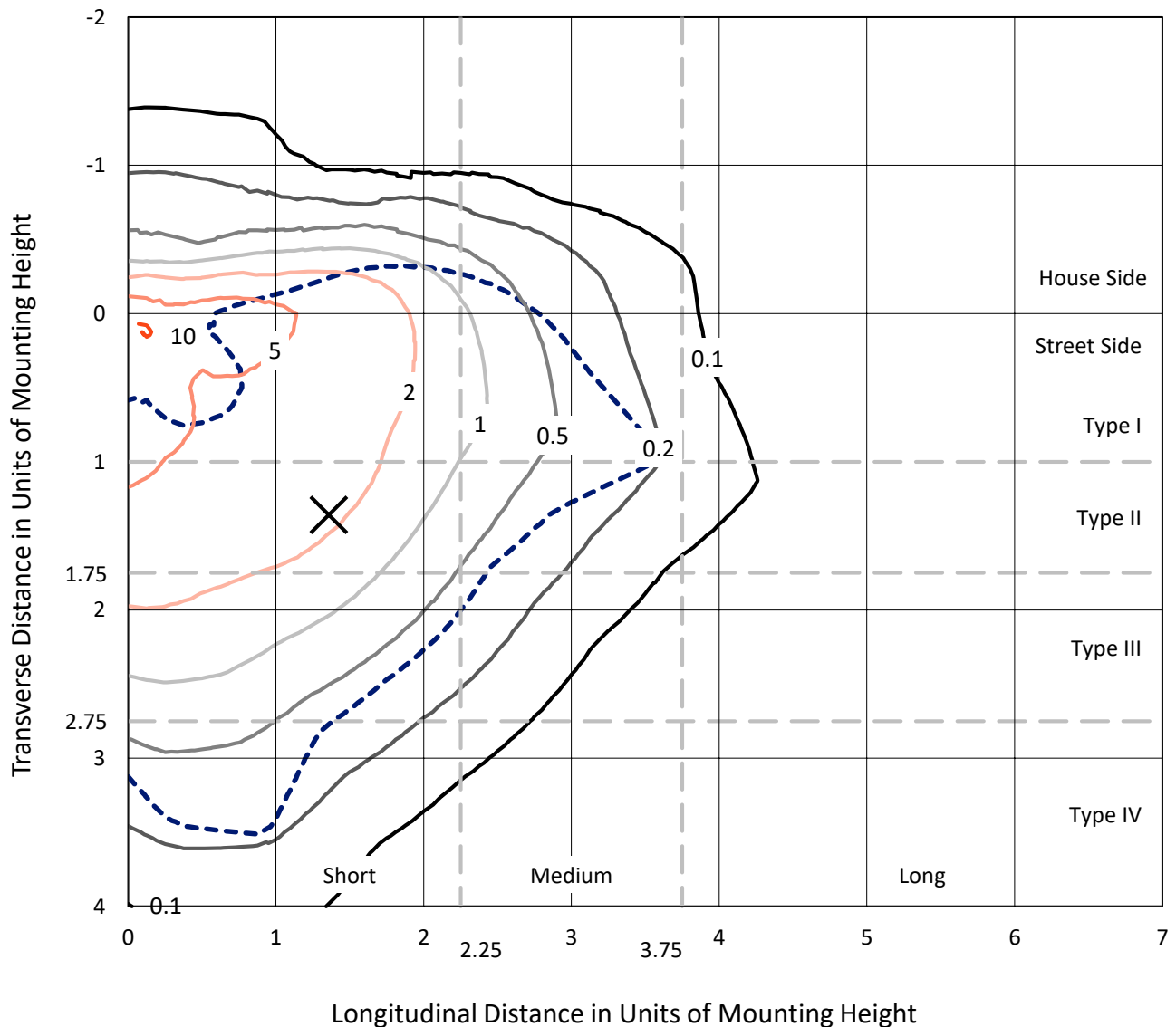
Input Watts (W): 96
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

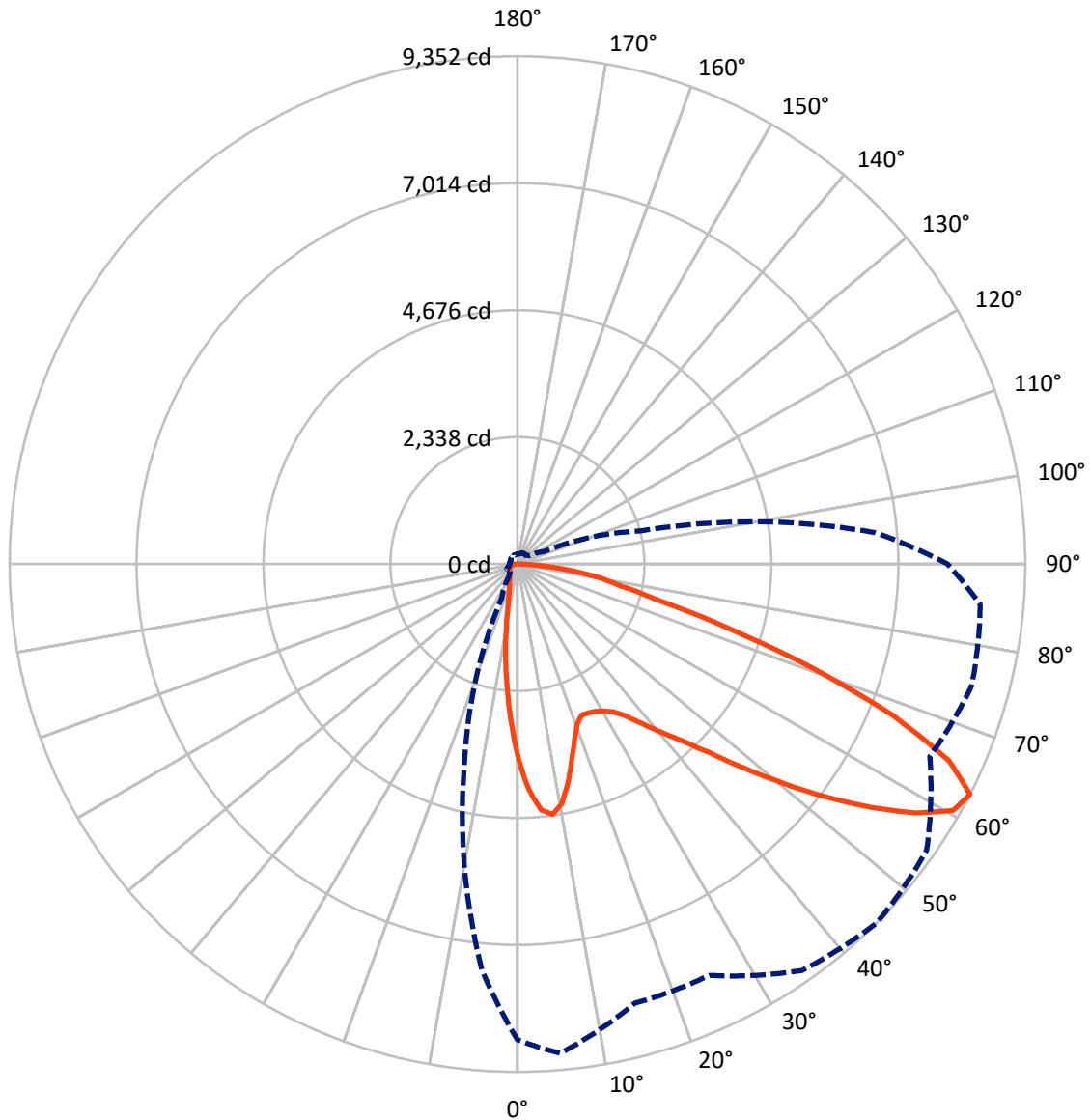
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.7 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	1781.2	0.0	1781.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8982.3	0.0	8982.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	10763.5	0.0	10763.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	2.5
10°-20°	485.4	4.5
20°-30°	707.7	6.6
30°-40°	1090.0	10.1
40°-50°	1604.2	14.9
50°-60°	2353.1	21.9
60°-70°	2630.4	24.4
70°-80°	1287.8	12.0
80°-90°	340.0	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°	10763.5	100.0
0°-180°	10763.5	100.0



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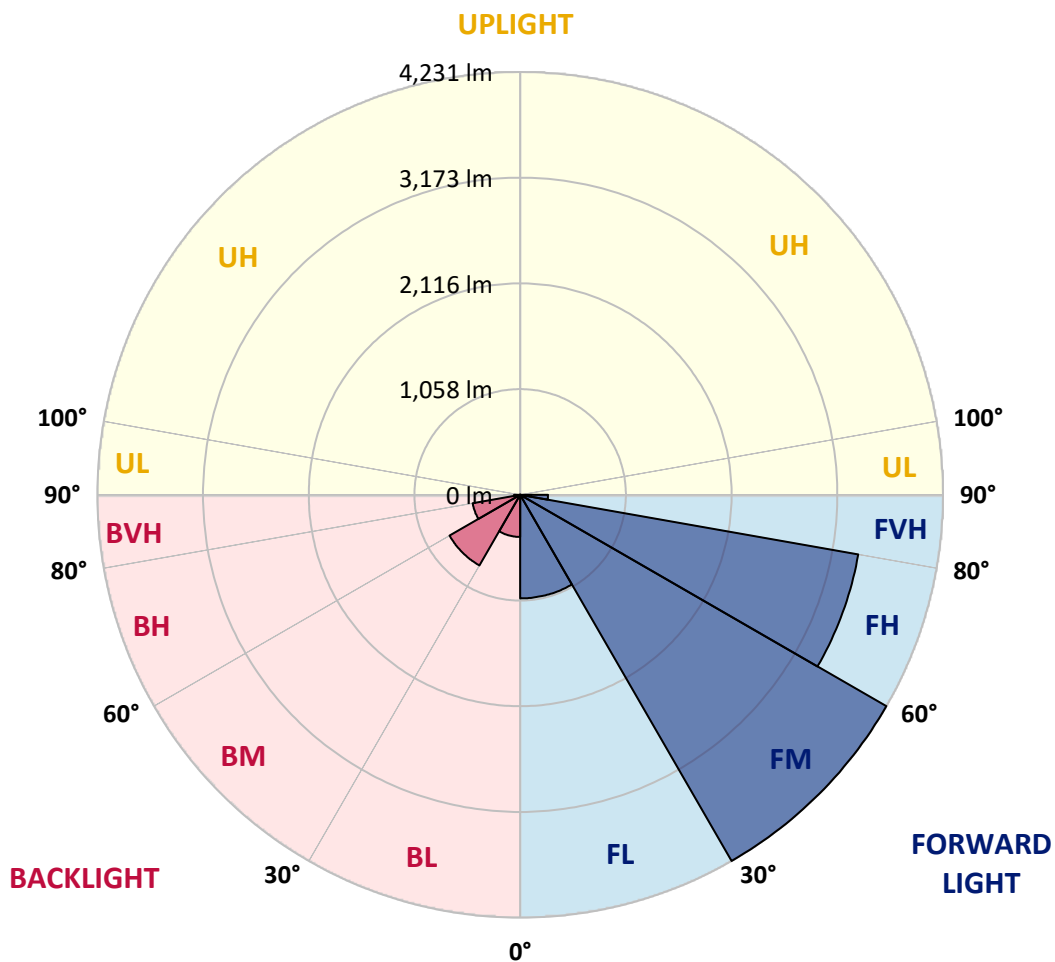
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1036.5	9.6			
FM	(30°-60°)	4231.2	39.3			
FH	(60°-80°)	3435.3	31.9			G2/5000
FVH	(80°-90°)	279.2	2.6			G3/500
BL	(0°-30°)	421.4	3.9	B1/500		
BM	(30°-60°)	816.1	7.6	B1/1000		
BH	(60°-80°)	482.9	4.5	B1/500		G1/500
BVH	(80°-90°)	60.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5
2.5°	3778.5	3838.8	3956.6	4044.7	4151.9	4176.7	4211.0	4177.3	4117.5	4038.2	4012.2
5°	3553.0	3682.0	3967.8	4219.3	4443.0	4547.1	4576.1	4490.2	4317.0	4089.1	3950.1
7.5°	3191.5	3374.9	3761.9	4132.3	4461.9	4656.6	4651.8	4452.4	4133.5	3762.5	3539.4
10°	2879.7	3089.2	3533.0	3947.2	4296.8	4485.5	4412.8	4157.8	3777.3	3350.1	3108.1
12.5°	2705.2	2910.5	3360.8	3776.7	4069.0	4134.1	4078.5	3828.8	3470.3	3038.3	2826.5
15°	2675.0	2900.5	3292.2	3630.6	3794.4	3737.7	3671.4	3559.6	3306.3	2937.7	2717.1
17.5°	2805.7	3054.2	3370.8	3528.8	3500.9	3402.1	3383.2	3395.7	3334.7	3049.5	2795.1
20°	3056.7	3354.9	3558.3	3480.9	3277.9	3141.8	3146.6	3336.5	3517.0	3333.0	3042.5
22.5°	3408.7	3748.9	3828.8	3506.3	3183.8	3022.3	3061.4	3369.1	3807.5	3747.2	3376.1
25°	3864.3	4174.4	4117.0	3598.6	3193.3	3037.1	3068.4	3481.5	4150.6	4161.3	3789.1
27.5°	4305.7	4593.3	4358.9	3721.1	3232.3	3072.0	3113.5	3658.4	4478.5	4611.0	4261.3
30°	4650.0	4850.0	4454.7	3832.9	3309.2	3140.0	3191.5	3826.4	4627.5	4914.6	4624.6
32.5°	4935.2	5079.1	4607.5	3971.4	3450.7	3247.2	3337.7	4030.5	4842.3	5203.2	4980.2
35°	5299.7	5340.5	4797.3	4125.8	3669.0	3433.5	3546.0	4230.5	5047.0	5495.0	5330.5
37.5°	5726.9	5674.2	4976.7	4337.0	3951.2	3725.3	3818.2	4450.0	5215.7	5825.7	5688.4
40°	6149.4	6022.7	5201.5	4664.9	4363.1	4069.0	4179.1	4684.4	5373.0	6157.0	6038.2
42.5°	6508.5	6320.9	5423.4	5025.1	4746.5	4448.3	4579.6	4920.4	5523.3	6439.9	6341.7
45°	6774.2	6541.1	5634.6	5371.3	5274.8	4952.4	5014.5	5190.9	5686.1	6676.0	6591.4
47.5°	7011.4	6762.3	5873.7	5720.4	5736.9	5608.0	5508.0	5505.6	5877.8	6868.8	6827.5
50°	7329.1	7069.4	6130.4	6080.1	6430.4	6344.6	6123.9	5873.1	6120.4	7087.8	7083.0
52.5°	7767.1	7555.8	6444.0	6467.7	7077.7	7134.0	6860.5	6314.5	6500.2	7489.5	7461.1
55°	8284.8	8161.7	6871.3	6913.2	7871.7	7912.0	7640.4	6866.5	7058.8	8071.2	7992.4
57.5°	8688.8	8662.9	7339.9	7448.1	8464.6	8645.7	8396.0	7505.5	7688.3	8561.1	8363.4
60°	8849.9	8975.9	7838.7	7987.7	9013.1	9213.7	8994.8	8067.0	8246.3	8764.0	8338.0
62.5°	8762.8	9044.5	8370.0	8357.5	9135.6	9351.5	9197.8	8379.4	8659.9	8554.5	7916.1
65°	8361.1	8797.8	8678.2	8262.3	8716.7	8734.5	8684.8	8239.8	8757.5	7892.5	7100.8
67.5°	7486.0	8114.4	8272.3	7445.8	7586.6	7471.2	7387.8	7475.3	8248.7	6900.2	5967.7
70°	6097.3	7042.8	7118.5	5955.3	5891.4	5813.8	5647.6	6128.7	7244.5	5655.3	4735.2
72.5°	4483.2	5477.2	5709.7	4367.8	4072.0	4087.9	3956.6	4618.7	5890.3	4201.0	3535.3
75°	3067.3	3966.1	4467.2	3047.8	2692.7	2699.3	2682.7	3272.6	4691.5	2922.4	2645.5
77.5°	2240.7	2833.6	3369.1	2049.0	1989.2	1952.5	1943.7	2289.8	3596.8	2121.8	2054.3
80°	1798.1	2093.4	2263.2	1420.1	1527.2	1524.2	1475.1	1574.4	2349.0	1552.0	1536.6
82.5°	1247.3	1608.8	1833.6	1113.0	1030.7	1013.5	1025.4	1172.7	1660.2	1060.9	1008.8
85°	658.0	1068.6	1815.8	986.3	611.8	488.2	607.0	960.3	1438.4	562.1	492.2
87.5°	84.0	308.8	1202.3	393.4	241.4	130.1	288.2	540.8	923.6	114.8	100.0
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°	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5
2.5°	3945.3	3866.7	3763.7	3668.4	3569.6	3471.4	3343.0	3262.5	3207.0	3196.3	3172.6
5°	3849.5	3588.0	3390.4	3219.3	3064.4	2845.4	2724.1	2623.6	2569.7	2564.3	2551.3
7.5°	3407.6	3046.6	2779.8	2537.7	2318.2	2141.3	1946.1	1854.9	1817.7	1826.5	1835.4
10°	2947.7	2544.3	2237.7	1990.5	1796.9	1647.9	1491.1	1385.2	1311.7	1297.0	1294.0
12.5°	2611.7	2169.1	1871.5	1697.0	1547.2	1407.1	1240.7	1115.9	1020.7	988.1	966.2
15°	2469.7	1985.6	1673.9	1485.7	1320.6	1142.5	988.1	857.3	769.8	741.3	725.4
17.5°	2499.9	1934.8	1537.8	1297.0	1085.8	900.0	705.3	593.4	540.8	527.2	527.2
20°	2658.4	1925.3	1425.4	1123.0	859.7	644.4	484.6	420.6	403.6	401.7	406.5
22.5°	2880.9	1958.4	1341.4	972.1	668.0	470.4	377.5	353.8	346.2	347.9	353.2
25°	3212.3	2070.4	1280.4	837.8	524.3	385.1	336.7	322.4	319.0	323.7	330.2
27.5°	3605.1	2182.2	1242.6	736.6	442.5	352.1	320.1	305.4	307.7	313.6	319.5
30°	3950.1	2273.8	1182.7	664.5	417.2	353.8	320.1	300.0	297.6	298.8	300.5
32.5°	4259.6	2336.0	1113.0	595.9	359.8	314.1	298.8	295.8	282.8	278.1	278.7
35°	4526.4	2336.0	1070.9	555.6	322.4	278.7	253.8	239.1	232.5	233.1	239.7
37.5°	4783.7	2289.3	1050.3	533.1	302.4	265.0	243.2	230.2	221.3	219.5	220.7
40°	5010.9	2221.1	1026.5	523.6	286.9	256.8	236.1	225.5	215.9	213.0	213.6
42.5°	5193.2	2166.2	1000.5	511.2	277.5	250.8	231.4	221.9	211.2	208.3	207.7
45°	5390.2	2147.8	966.2	486.4	282.2	251.4	230.2	220.1	209.5	205.9	204.7
47.5°	5650.0	2205.2	930.7	456.7	292.3	254.4	231.9	220.1	208.9	205.9	204.7
50°	5977.2	2340.1	885.8	413.6	282.2	262.7	231.4	218.3	208.9	205.9	203.6
52.5°	6397.3	2522.4	826.5	363.9	276.3	282.8	230.2	214.8	205.9	201.7	197.6
55°	6907.9	2671.4	756.2	323.0	262.7	277.5	228.4	210.6	201.2	195.3	191.7
57.5°	7281.9	2725.2	665.6	296.5	243.8	268.6	226.1	205.3	195.3	190.5	185.8
60°	7207.9	2621.1	589.3	279.9	232.5	242.5	224.2	200.6	190.0	186.4	182.2
62.5°	6615.6	2349.0	540.2	272.2	225.5	221.3	226.1	195.9	185.2	181.7	180.4
65°	5727.5	1947.2	520.7	270.4	219.5	208.9	210.0	190.5	179.8	176.9	175.7
67.5°	4724.6	1571.6	503.5	276.3	211.9	200.0	194.1	183.4	174.5	171.5	169.2
70°	3725.8	1307.0	495.8	272.7	202.3	191.1	184.6	175.7	168.1	165.1	163.3
72.5°	3000.4	1104.1	491.7	269.2	190.0	179.3	173.4	165.7	157.4	156.2	154.5
75°	2539.0	868.0	450.3	258.0	175.7	165.1	160.9	153.9	145.6	145.6	144.3
77.5°	1958.4	627.8	374.5	228.4	160.9	149.1	145.6	140.2	130.7	132.6	132.0
80°	1446.7	409.5	292.9	189.3	142.6	131.3	129.6	124.3	114.2	116.5	116.5
82.5°	991.0	268.6	210.6	155.0	121.9	111.2	111.2	105.9	94.6	95.9	99.4
85°	497.6	184.6	157.4	120.1	94.6	89.3	89.3	85.2	74.0	74.6	79.3
87.5°	151.5	111.2	104.1	85.8	68.0	66.9	63.9	61.0	53.8	53.3	56.2
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°	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5
2.5°	3136.5	3102.8	3062.0	2972.0	2941.8	2940.1	2967.3	2938.9	2993.4	2970.2	2995.7
5°	2529.5	2496.3	2450.8	2336.0	2266.1	2218.8	2196.4	2130.1	2178.0	2143.1	2172.0
7.5°	1860.2	1867.9	1837.7	1770.3	1618.2	1541.9	1497.0	1456.7	1491.7	1488.1	1543.7
10°	1307.6	1328.3	1307.0	1239.0	1115.9	1073.9	1082.2	1098.1	1143.8	1167.4	1253.2
12.5°	941.3	940.2	926.6	865.6	784.6	789.3	823.1	850.9	892.8	917.7	1005.3
15°	702.9	692.2	686.4	636.7	590.5	600.6	617.1	620.1	646.7	661.5	732.5
17.5°	531.3	536.6	543.2	507.7	472.7	466.3	453.3	437.2	445.0	448.0	483.4
20°	421.9	443.1	459.1	434.3	398.7	379.8	363.2	352.6	352.6	352.1	362.1
22.5°	368.6	384.0	401.2	384.0	352.1	335.5	326.0	317.7	316.5	316.5	326.0
25°	339.6	350.9	367.4	355.6	331.9	319.5	310.7	300.0	295.8	294.6	301.2
27.5°	325.4	330.2	338.4	327.8	307.7	301.8	299.4	289.9	284.6	281.6	288.2
30°	301.2	300.0	300.5	289.9	273.9	273.3	277.5	279.3	277.5	276.9	286.9
32.5°	278.7	276.3	275.7	266.3	251.4	248.0	251.4	255.0	259.1	265.0	276.9
35°	250.3	256.2	259.7	251.4	233.7	223.1	218.9	212.4	208.9	208.9	222.5
37.5°	227.8	241.4	246.7	239.1	219.5	204.7	197.6	196.4	197.0	199.4	212.4
40°	220.1	230.2	234.9	227.2	207.7	194.1	190.0	188.7	190.0	193.4	206.5
42.5°	215.3	222.5	221.9	212.4	196.4	187.0	184.6	183.4	184.6	188.1	202.3
45°	211.2	215.9	211.2	200.0	185.2	180.4	181.1	180.4	181.7	185.2	198.8
47.5°	207.7	209.5	203.6	192.3	176.9	175.7	178.1	179.8	181.1	184.0	198.2
50°	202.3	202.3	197.0	185.2	169.8	170.4	173.4	177.5	178.1	181.7	192.9
52.5°	195.9	195.3	191.7	180.4	163.9	165.7	165.7	170.4	171.5	175.7	187.6
55°	190.5	189.3	187.6	176.9	158.6	161.5	159.8	161.5	164.5	168.6	181.7
57.5°	185.8	183.4	183.4	174.0	154.5	155.6	151.5	153.9	157.4	160.9	174.5
60°	181.1	178.7	179.8	169.8	147.9	146.7	145.0	149.7	150.9	155.0	168.6
62.5°	175.7	174.0	174.5	165.1	143.2	140.2	140.2	144.3	145.0	150.9	163.9
65°	171.5	169.2	168.6	160.3	137.9	134.3	136.1	137.9	139.0	145.0	157.4
67.5°	167.5	162.8	162.8	156.2	132.0	128.4	132.0	131.3	133.1	138.4	148.5
70°	162.1	155.6	156.2	153.2	126.0	121.9	124.8	124.3	125.4	129.0	139.0
72.5°	153.9	148.5	149.7	148.5	120.1	114.2	115.4	115.4	115.4	118.4	129.0
75°	143.2	139.0	142.6	145.6	113.0	104.8	105.9	105.9	104.1	105.9	119.0
77.5°	130.1	127.8	139.6	135.5	104.8	94.6	94.6	93.5	89.9	92.3	106.5
80°	116.0	114.2	129.0	113.6	95.2	82.2	81.0	78.1	74.6	76.3	90.5
82.5°	101.2	99.4	108.2	87.0	82.2	68.0	65.1	59.7	56.2	58.0	71.0
85°	82.9	82.9	83.5	65.7	62.7	52.1	48.5	41.4	37.2	38.5	50.8
87.5°	59.1	61.0	56.2	45.0	37.2	28.9	26.6	22.5	18.9	21.9	26.6
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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CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5
2.5°	3125.8	3191.0	3265.0	3359.6	3440.6	3573.8	3701.5	3778.5
5°	2337.1	2445.5	2580.3	2753.7	2915.2	3157.8	3398.7	3553.0
7.5°	1672.7	1788.6	1934.2	2150.8	2379.2	2688.6	3007.0	3191.5
10°	1384.0	1502.9	1625.4	1771.5	1958.4	2295.1	2671.4	2879.7
12.5°	1144.9	1272.1	1404.1	1557.9	1731.2	2031.9	2465.5	2705.2
15°	876.3	1018.2	1173.9	1368.6	1585.7	1933.1	2414.7	2675.0
17.5°	600.6	759.1	950.2	1190.5	1456.2	1901.1	2505.8	2805.7
20°	413.6	529.0	733.0	1014.8	1334.2	1897.0	2680.9	3056.7
22.5°	346.2	397.6	546.7	853.2	1242.6	1947.8	2952.5	3408.7
25°	320.1	350.9	436.7	713.0	1175.7	2064.9	3326.4	3864.3
27.5°	304.7	332.6	396.4	621.2	1123.0	2201.1	3690.3	4305.7
30°	310.7	339.0	385.1	574.5	1051.4	2314.6	4013.3	4650.0
32.5°	279.9	292.3	330.2	533.1	999.9	2410.0	4296.2	4935.2
35°	238.4	260.3	294.6	513.6	1001.2	2473.8	4604.5	5299.7
37.5°	227.2	249.1	273.9	506.5	1014.8	2541.8	4958.3	5726.9
40°	220.1	240.2	261.6	502.4	1027.8	2604.0	5305.0	6149.4
42.5°	215.3	233.7	260.3	488.2	1034.3	2659.6	5590.2	6508.5
45°	214.8	233.7	265.0	473.9	1044.3	2719.4	5829.3	6774.2
47.5°	215.3	241.4	256.2	456.7	1044.3	2819.4	6109.7	7011.4
50°	213.0	254.4	246.7	432.5	1020.1	3008.7	6494.3	7329.1
52.5°	211.9	252.7	228.4	395.3	978.0	3309.2	6987.2	7767.1
55°	208.9	243.8	215.3	339.6	928.9	3637.1	7515.0	8284.8
57.5°	205.9	215.9	208.3	291.1	853.2	3867.9	7878.3	8688.8
60°	230.8	188.7	202.3	267.4	752.1	3931.1	7864.0	8849.9
62.5°	213.6	176.9	194.7	262.1	681.0	3753.6	7500.8	8762.8
65°	167.5	169.2	187.0	277.5	662.1	3283.3	6857.0	8361.1
67.5°	153.2	161.5	179.3	297.1	663.9	2628.9	5895.0	7486.0
70°	144.3	153.2	170.4	307.1	668.6	1959.7	4660.7	6097.3
72.5°	134.3	142.0	160.3	308.8	637.8	1423.6	3592.1	4483.2
75°	122.4	129.6	146.2	269.2	528.4	987.6	2747.7	3067.3
77.5°	108.8	114.2	128.4	207.7	392.3	631.9	2062.6	2240.7
80°	92.9	95.9	107.7	152.1	268.6	395.3	1631.9	1798.1
82.5°	74.6	75.7	83.5	114.2	174.5	253.8	1092.8	1247.3
85°	52.7	52.7	57.4	82.9	119.0	160.9	593.4	658.0
87.5°	24.9	25.5	25.5	45.5	62.1	81.6	136.7	84.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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