

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: P191311

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191311  
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-SLR-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 615mA 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: 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 (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

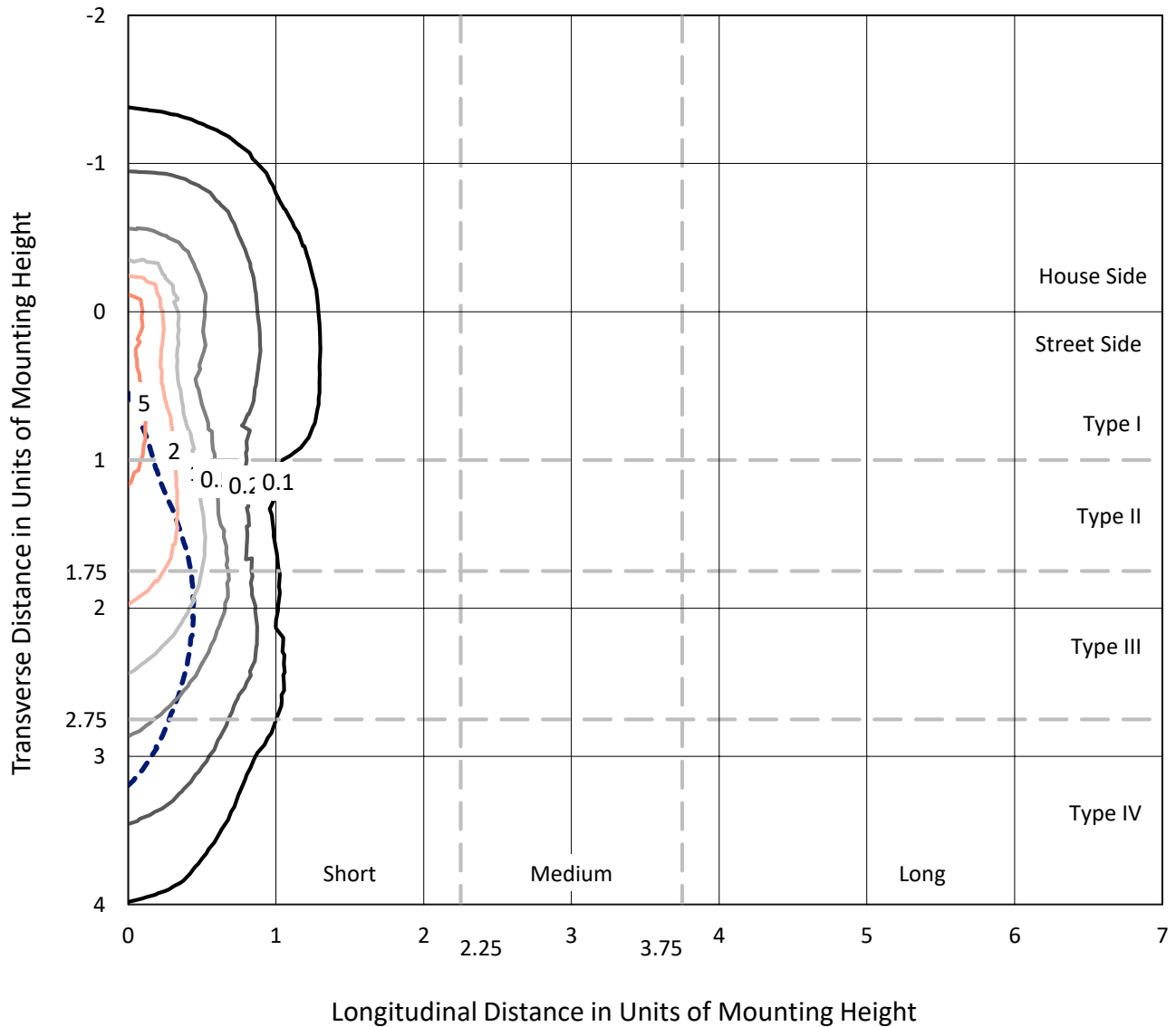


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

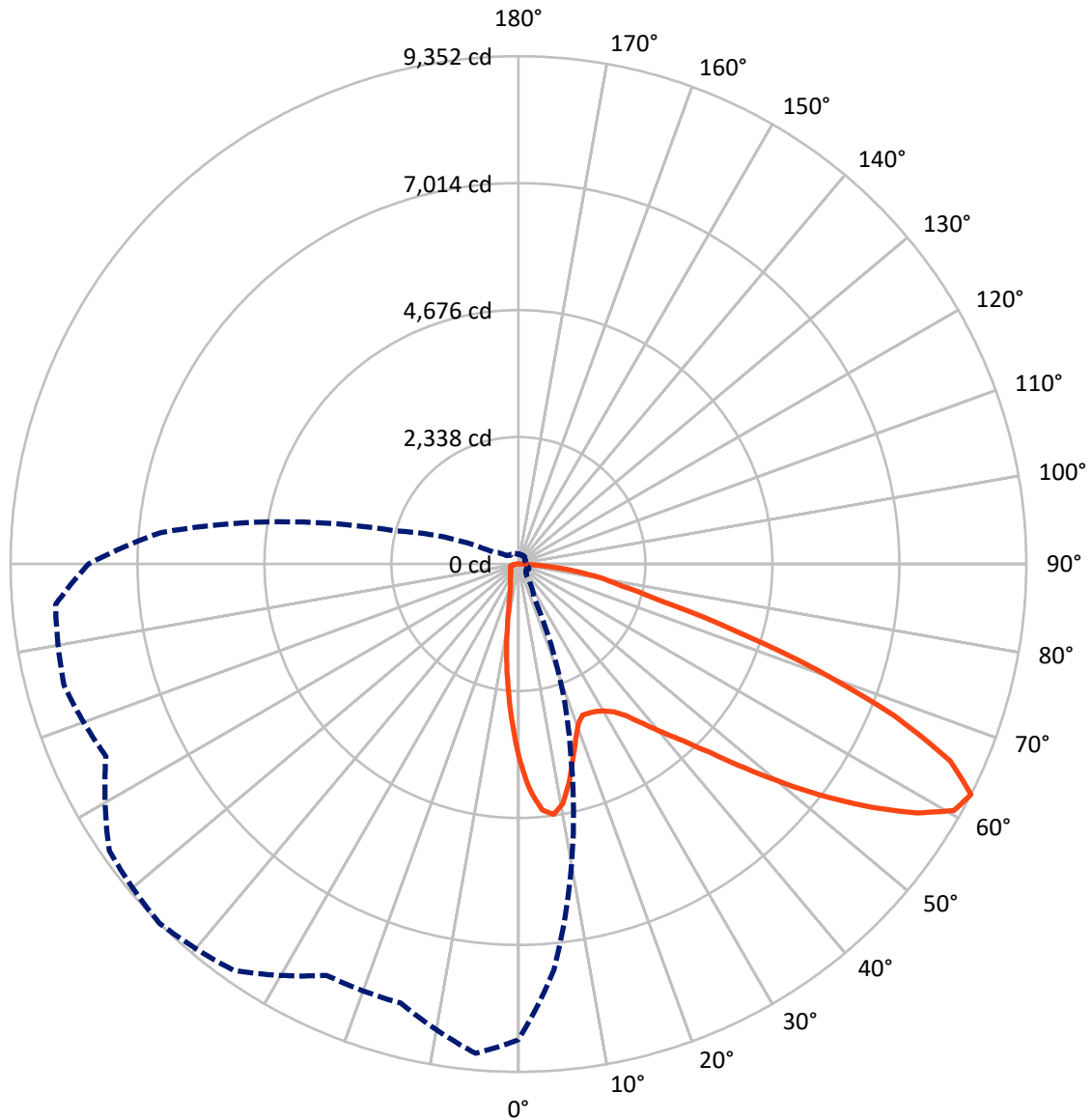


Based on 20 foot mounting height. Maximum calculated value = 9.1 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1781.2	0.0	1781.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	8982.3	0.0	8982.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	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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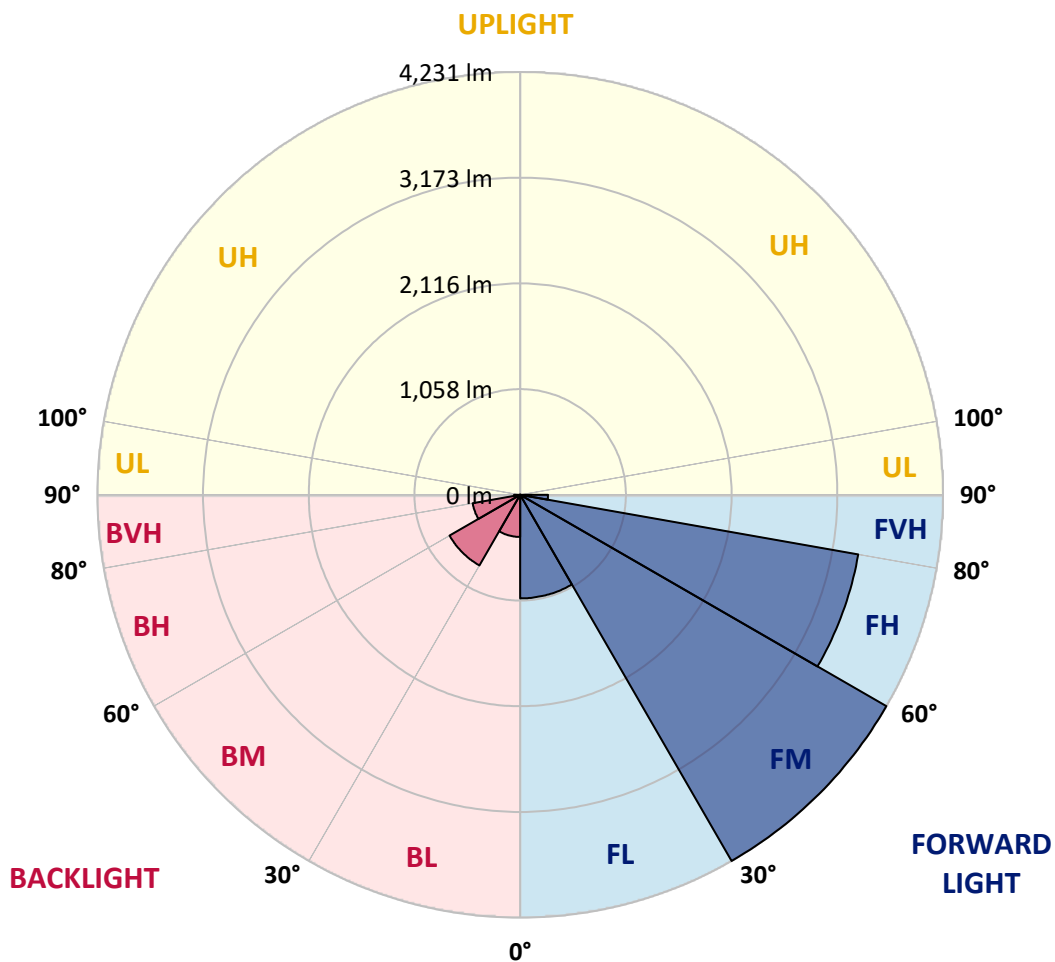
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-600

**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	3701.5	3573.8	3440.6	3359.6	3265.0	3191.0	3125.8	2995.7	2970.2	2993.4
5°	3553.0	3398.7	3157.8	2915.2	2753.7	2580.3	2445.5	2337.1	2172.0	2143.1	2178.0
7.5°	3191.5	3007.0	2688.6	2379.2	2150.8	1934.2	1788.6	1672.7	1543.7	1488.1	1491.7
10°	2879.7	2671.4	2295.1	1958.4	1771.5	1625.4	1502.9	1384.0	1253.2	1167.4	1143.8
12.5°	2705.2	2465.5	2031.9	1731.2	1557.9	1404.1	1272.1	1144.9	1005.3	917.7	892.8
15°	2675.0	2414.7	1933.1	1585.7	1368.6	1173.9	1018.2	876.3	732.5	661.5	646.7
17.5°	2805.7	2505.8	1901.1	1456.2	1190.5	950.2	759.1	600.6	483.4	448.0	445.0
20°	3056.7	2680.9	1897.0	1334.2	1014.8	733.0	529.0	413.6	362.1	352.1	352.6
22.5°	3408.7	2952.5	1947.8	1242.6	853.2	546.7	397.6	346.2	326.0	316.5	316.5
25°	3864.3	3326.4	2064.9	1175.7	713.0	436.7	350.9	320.1	301.2	294.6	295.8
27.5°	4305.7	3690.3	2201.1	1123.0	621.2	396.4	332.6	304.7	288.2	281.6	284.6
30°	4650.0	4013.3	2314.6	1051.4	574.5	385.1	339.0	310.7	286.9	276.9	277.5
32.5°	4935.2	4296.2	2410.0	999.9	533.1	330.2	292.3	279.9	276.9	265.0	259.1
35°	5299.7	4604.5	2473.8	1001.2	513.6	294.6	260.3	238.4	222.5	208.9	208.9
37.5°	5726.9	4958.3	2541.8	1014.8	506.5	273.9	249.1	227.2	212.4	199.4	197.0
40°	6149.4	5305.0	2604.0	1027.8	502.4	261.6	240.2	220.1	206.5	193.4	190.0
42.5°	6508.5	5590.2	2659.6	1034.3	488.2	260.3	233.7	215.3	202.3	188.1	184.6
45°	6774.2	5829.3	2719.4	1044.3	473.9	265.0	233.7	214.8	198.8	185.2	181.7
47.5°	7011.4	6109.7	2819.4	1044.3	456.7	256.2	241.4	215.3	198.2	184.0	181.1
50°	7329.1	6494.3	3008.7	1020.1	432.5	246.7	254.4	213.0	192.9	181.7	178.1
52.5°	7767.1	6987.2	3309.2	978.0	395.3	228.4	252.7	211.9	187.6	175.7	171.5
55°	8284.8	7515.0	3637.1	928.9	339.6	215.3	243.8	208.9	181.7	168.6	164.5
57.5°	8688.8	7878.3	3867.9	853.2	291.1	208.3	215.9	205.9	174.5	160.9	157.4
60°	8849.9	7864.0	3931.1	752.1	267.4	202.3	188.7	230.8	168.6	155.0	150.9
62.5°	8762.8	7500.8	3753.6	681.0	262.1	194.7	176.9	213.6	163.9	150.9	145.0
65°	8361.1	6857.0	3283.3	662.1	277.5	187.0	169.2	167.5	157.4	145.0	139.0
67.5°	7486.0	5895.0	2628.9	663.9	297.1	179.3	161.5	153.2	148.5	138.4	133.1
70°	6097.3	4660.7	1959.7	668.6	307.1	170.4	153.2	144.3	139.0	129.0	125.4
72.5°	4483.2	3592.1	1423.6	637.8	308.8	160.3	142.0	134.3	129.0	118.4	115.4
75°	3067.3	2747.7	987.6	528.4	269.2	146.2	129.6	122.4	119.0	105.9	104.1
77.5°	2240.7	2062.6	631.9	392.3	207.7	128.4	114.2	108.8	106.5	92.3	89.9
80°	1798.1	1631.9	395.3	268.6	152.1	107.7	95.9	92.9	90.5	76.3	74.6
82.5°	1247.3	1092.8	253.8	174.5	114.2	83.5	75.7	74.6	71.0	58.0	56.2
85°	658.0	593.4	160.9	119.0	82.9	57.4	52.7	52.7	50.8	38.5	37.2
87.5°	84.0	136.7	81.6	62.1	45.5	25.5	25.5	24.9	26.6	21.9	18.9
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°	2938.9	2967.3	2940.1	2941.8	2972.0	3062.0	3102.8	3136.5	3172.6	3196.3	3207.0
5°	2130.1	2196.4	2218.8	2266.1	2336.0	2450.8	2496.3	2529.5	2551.3	2564.3	2569.7
7.5°	1456.7	1497.0	1541.9	1618.2	1770.3	1837.7	1867.9	1860.2	1835.4	1826.5	1817.7
10°	1098.1	1082.2	1073.9	1115.9	1239.0	1307.0	1328.3	1307.6	1294.0	1297.0	1311.7
12.5°	850.9	823.1	789.3	784.6	865.6	926.6	940.2	941.3	966.2	988.1	1020.7
15°	620.1	617.1	600.6	590.5	636.7	686.4	692.2	702.9	725.4	741.3	769.8
17.5°	437.2	453.3	466.3	472.7	507.7	543.2	536.6	531.3	527.2	527.2	540.8
20°	352.6	363.2	379.8	398.7	434.3	459.1	443.1	421.9	406.5	401.7	403.6
22.5°	317.7	326.0	335.5	352.1	384.0	401.2	384.0	368.6	353.2	347.9	346.2
25°	300.0	310.7	319.5	331.9	355.6	367.4	350.9	339.6	330.2	323.7	319.0
27.5°	289.9	299.4	301.8	307.7	327.8	338.4	330.2	325.4	319.5	313.6	307.7
30°	279.3	277.5	273.3	273.9	289.9	300.5	300.0	301.2	300.5	298.8	297.6
32.5°	255.0	251.4	248.0	251.4	266.3	275.7	276.3	278.7	278.7	278.1	282.8
35°	212.4	218.9	223.1	233.7	251.4	259.7	256.2	250.3	239.7	233.1	232.5
37.5°	196.4	197.6	204.7	219.5	239.1	246.7	241.4	227.8	220.7	219.5	221.3
40°	188.7	190.0	194.1	207.7	227.2	234.9	230.2	220.1	213.6	213.0	215.9
42.5°	183.4	184.6	187.0	196.4	212.4	221.9	222.5	215.3	207.7	208.3	211.2
45°	180.4	181.1	180.4	185.2	200.0	211.2	215.9	211.2	204.7	205.9	209.5
47.5°	179.8	178.1	175.7	176.9	192.3	203.6	209.5	207.7	204.7	205.9	208.9
50°	177.5	173.4	170.4	169.8	185.2	197.0	202.3	202.3	203.6	205.9	208.9
52.5°	170.4	165.7	165.7	163.9	180.4	191.7	195.3	195.9	197.6	201.7	205.9
55°	161.5	159.8	161.5	158.6	176.9	187.6	189.3	190.5	191.7	195.3	201.2
57.5°	153.9	151.5	155.6	154.5	174.0	183.4	183.4	185.8	185.8	190.5	195.3
60°	149.7	145.0	146.7	147.9	169.8	179.8	178.7	181.1	182.2	186.4	190.0
62.5°	144.3	140.2	140.2	143.2	165.1	174.5	174.0	175.7	180.4	181.7	185.2
65°	137.9	136.1	134.3	137.9	160.3	168.6	169.2	171.5	175.7	176.9	179.8
67.5°	131.3	132.0	128.4	132.0	156.2	162.8	162.8	167.5	169.2	171.5	174.5
70°	124.3	124.8	121.9	126.0	153.2	156.2	155.6	162.1	163.3	165.1	168.1
72.5°	115.4	115.4	114.2	120.1	148.5	149.7	148.5	153.9	154.5	156.2	157.4
75°	105.9	105.9	104.8	113.0	145.6	142.6	139.0	143.2	144.3	145.6	145.6
77.5°	93.5	94.6	94.6	104.8	135.5	139.6	127.8	130.1	132.0	132.6	130.7
80°	78.1	81.0	82.2	95.2	113.6	129.0	114.2	116.0	116.5	116.5	114.2
82.5°	59.7	65.1	68.0	82.2	87.0	108.2	99.4	101.2	99.4	95.9	94.6
85°	41.4	48.5	52.1	62.7	65.7	83.5	82.9	82.9	79.3	74.6	74.0
87.5°	22.5	26.6	28.9	37.2	45.0	56.2	61.0	59.1	56.2	53.3	53.8
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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**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°	3262.5	3343.0	3471.4	3569.6	3668.4	3763.7	3866.7	3945.3	4012.2	4038.2	4117.5
5°	2623.6	2724.1	2845.4	3064.4	3219.3	3390.4	3588.0	3849.5	3950.1	4089.1	4317.0
7.5°	1854.9	1946.1	2141.3	2318.2	2537.7	2779.8	3046.6	3407.6	3539.4	3762.5	4133.5
10°	1385.2	1491.1	1647.9	1796.9	1990.5	2237.7	2544.3	2947.7	3108.1	3350.1	3777.3
12.5°	1115.9	1240.7	1407.1	1547.2	1697.0	1871.5	2169.1	2611.7	2826.5	3038.3	3470.3
15°	857.3	988.1	1142.5	1320.6	1485.7	1673.9	1985.6	2469.7	2717.1	2937.7	3306.3
17.5°	593.4	705.3	900.0	1085.8	1297.0	1537.8	1934.8	2499.9	2795.1	3049.5	3334.7
20°	420.6	484.6	644.4	859.7	1123.0	1425.4	1925.3	2658.4	3042.5	3333.0	3517.0
22.5°	353.8	377.5	470.4	668.0	972.1	1341.4	1958.4	2880.9	3376.1	3747.2	3807.5
25°	322.4	336.7	385.1	524.3	837.8	1280.4	2070.4	3212.3	3789.1	4161.3	4150.6
27.5°	305.4	320.1	352.1	442.5	736.6	1242.6	2182.2	3605.1	4261.3	4611.0	4478.5
30°	300.0	320.1	353.8	417.2	664.5	1182.7	2273.8	3950.1	4624.6	4914.6	4627.5
32.5°	295.8	298.8	314.1	359.8	595.9	1113.0	2336.0	4259.6	4980.2	5203.2	4842.3
35°	239.1	253.8	278.7	322.4	555.6	1070.9	2336.0	4526.4	5330.5	5495.0	5047.0
37.5°	230.2	243.2	265.0	302.4	533.1	1050.3	2289.3	4783.7	5688.4	5825.7	5215.7
40°	225.5	236.1	256.8	286.9	523.6	1026.5	2221.1	5010.9	6038.2	6157.0	5373.0
42.5°	221.9	231.4	250.8	277.5	511.2	1000.5	2166.2	5193.2	6341.7	6439.9	5523.3
45°	220.1	230.2	251.4	282.2	486.4	966.2	2147.8	5390.2	6591.4	6676.0	5686.1
47.5°	220.1	231.9	254.4	292.3	456.7	930.7	2205.2	5650.0	6827.5	6868.8	5877.8
50°	218.3	231.4	262.7	282.2	413.6	885.8	2340.1	5977.2	7083.0	7087.8	6120.4
52.5°	214.8	230.2	282.8	276.3	363.9	826.5	2522.4	6397.3	7461.1	7489.5	6500.2
55°	210.6	228.4	277.5	262.7	323.0	756.2	2671.4	6907.9	7992.4	8071.2	7058.8
57.5°	205.3	226.1	268.6	243.8	296.5	665.6	2725.2	7281.9	8363.4	8561.1	7688.3
60°	200.6	224.2	242.5	232.5	279.9	589.3	2621.1	7207.9	8338.0	8764.0	8246.3
62.5°	195.9	226.1	221.3	225.5	272.2	540.2	2349.0	6615.6	7916.1	8554.5	8659.9
65°	190.5	210.0	208.9	219.5	270.4	520.7	1947.2	5727.5	7100.8	7892.5	8757.5
67.5°	183.4	194.1	200.0	211.9	276.3	503.5	1571.6	4724.6	5967.7	6900.2	8248.7
70°	175.7	184.6	191.1	202.3	272.7	495.8	1307.0	3725.8	4735.2	5655.3	7244.5
72.5°	165.7	173.4	179.3	190.0	269.2	491.7	1104.1	3000.4	3535.3	4201.0	5890.3
75°	153.9	160.9	165.1	175.7	258.0	450.3	868.0	2539.0	2645.5	2922.4	4691.5
77.5°	140.2	145.6	149.1	160.9	228.4	374.5	627.8	1958.4	2054.3	2121.8	3596.8
80°	124.3	129.6	131.3	142.6	189.3	292.9	409.5	1446.7	1536.6	1552.0	2349.0
82.5°	105.9	111.2	111.2	121.9	155.0	210.6	268.6	991.0	1008.8	1060.9	1660.2
85°	85.2	89.3	89.3	94.6	120.1	157.4	184.6	497.6	492.2	562.1	1438.4
87.5°	61.0	63.9	66.9	68.0	85.8	104.1	111.2	151.5	100.0	114.8	923.6
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-SLR-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°	4177.3	4211.0	4176.7	4151.9	4044.7	3956.6	3838.8	3778.5
5°	4490.2	4576.1	4547.1	4443.0	4219.3	3967.8	3682.0	3553.0
7.5°	4452.4	4651.8	4656.6	4461.9	4132.3	3761.9	3374.9	3191.5
10°	4157.8	4412.8	4485.5	4296.8	3947.2	3533.0	3089.2	2879.7
12.5°	3828.8	4078.5	4134.1	4069.0	3776.7	3360.8	2910.5	2705.2
15°	3559.6	3671.4	3737.7	3794.4	3630.6	3292.2	2900.5	2675.0
17.5°	3395.7	3383.2	3402.1	3500.9	3528.8	3370.8	3054.2	2805.7
20°	3336.5	3146.6	3141.8	3277.9	3480.9	3558.3	3354.9	3056.7
22.5°	3369.1	3061.4	3022.3	3183.8	3506.3	3828.8	3748.9	3408.7
25°	3481.5	3068.4	3037.1	3193.3	3598.6	4117.0	4174.4	3864.3
27.5°	3658.4	3113.5	3072.0	3232.3	3721.1	4358.9	4593.3	4305.7
30°	3826.4	3191.5	3140.0	3309.2	3832.9	4454.7	4850.0	4650.0
32.5°	4030.5	3337.7	3247.2	3450.7	3971.4	4607.5	5079.1	4935.2
35°	4230.5	3546.0	3433.5	3669.0	4125.8	4797.3	5340.5	5299.7
37.5°	4450.0	3818.2	3725.3	3951.2	4337.0	4976.7	5674.2	5726.9
40°	4684.4	4179.1	4069.0	4363.1	4664.9	5201.5	6022.7	6149.4
42.5°	4920.4	4579.6	4448.3	4746.5	5025.1	5423.4	6320.9	6508.5
45°	5190.9	5014.5	4952.4	5274.8	5371.3	5634.6	6541.1	6774.2
47.5°	5505.6	5508.0	5608.0	5736.9	5720.4	5873.7	6762.3	7011.4
50°	5873.1	6123.9	6344.6	6430.4	6080.1	6130.4	7069.4	7329.1
52.5°	6314.5	6860.5	7134.0	7077.7	6467.7	6444.0	7555.8	7767.1
55°	6866.5	7640.4	7912.0	7871.7	6913.2	6871.3	8161.7	8284.8
57.5°	7505.5	8396.0	8645.7	8464.6	7448.1	7339.9	8662.9	8688.8
60°	8067.0	8994.8	9213.7	9013.1	7987.7	7838.7	8975.9	8849.9
62.5°	8379.4	9197.8	9351.5	9135.6	8357.5	8370.0	9044.5	8762.8
65°	8239.8	8684.8	8734.5	8716.7	8262.3	8678.2	8797.8	8361.1
67.5°	7475.3	7387.8	7471.2	7586.6	7445.8	8272.3	8114.4	7486.0
70°	6128.7	5647.6	5813.8	5891.4	5955.3	7118.5	7042.8	6097.3
72.5°	4618.7	3956.6	4087.9	4072.0	4367.8	5709.7	5477.2	4483.2
75°	3272.6	2682.7	2699.3	2692.7	3047.8	4467.2	3966.1	3067.3
77.5°	2289.8	1943.7	1952.5	1989.2	2049.0	3369.1	2833.6	2240.7
80°	1574.4	1475.1	1524.2	1527.2	1420.1	2263.2	2093.4	1798.1
82.5°	1172.7	1025.4	1013.5	1030.7	1113.0	1833.6	1608.8	1247.3
85°	960.3	607.0	488.2	611.8	986.3	1815.8	1068.6	658.0
87.5°	540.8	288.2	130.1	241.4	393.4	1202.3	308.8	84.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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