

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: P191314

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191314  
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-06-LED-E1-SLR-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 21086.1 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 193  
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

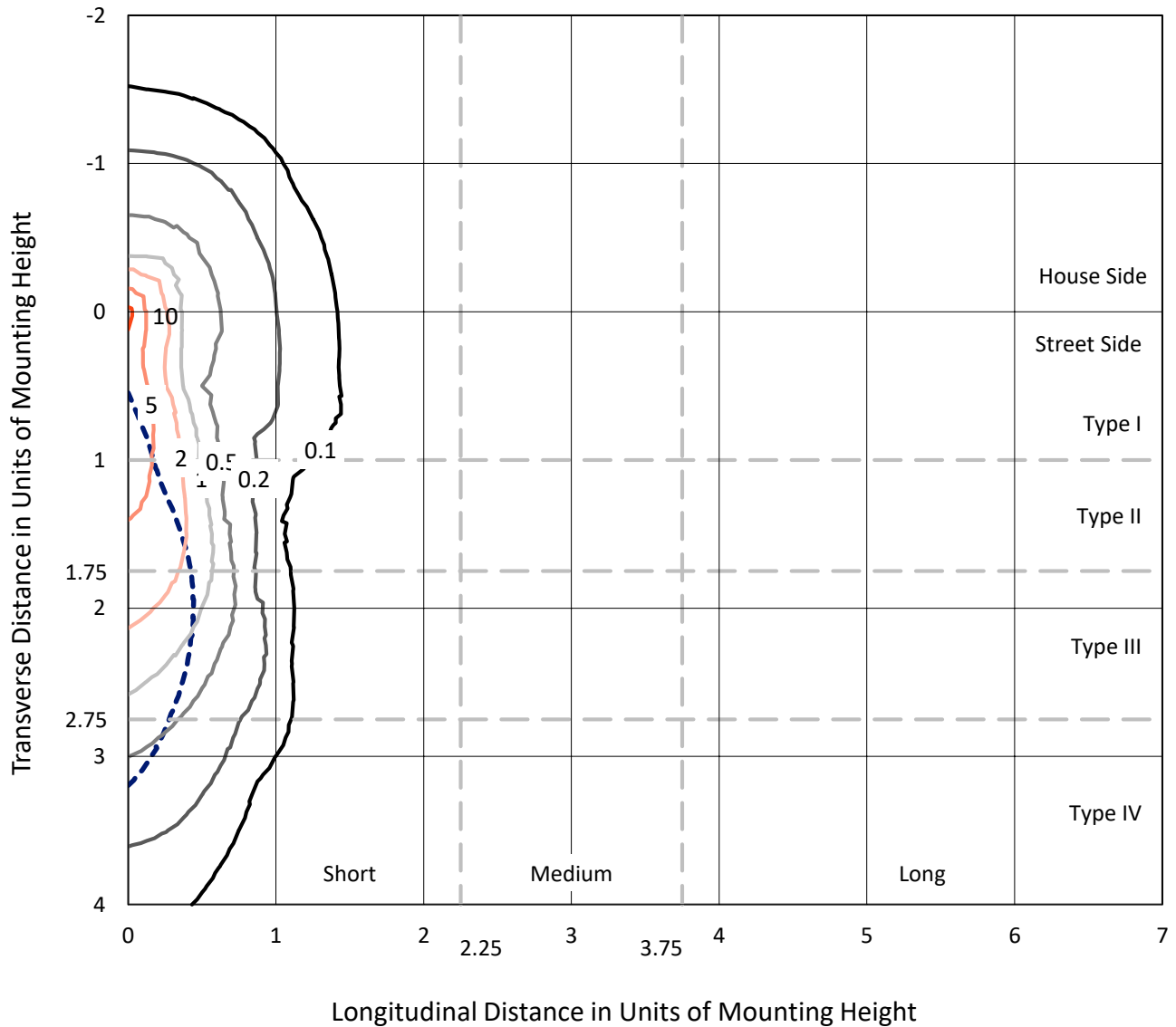


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

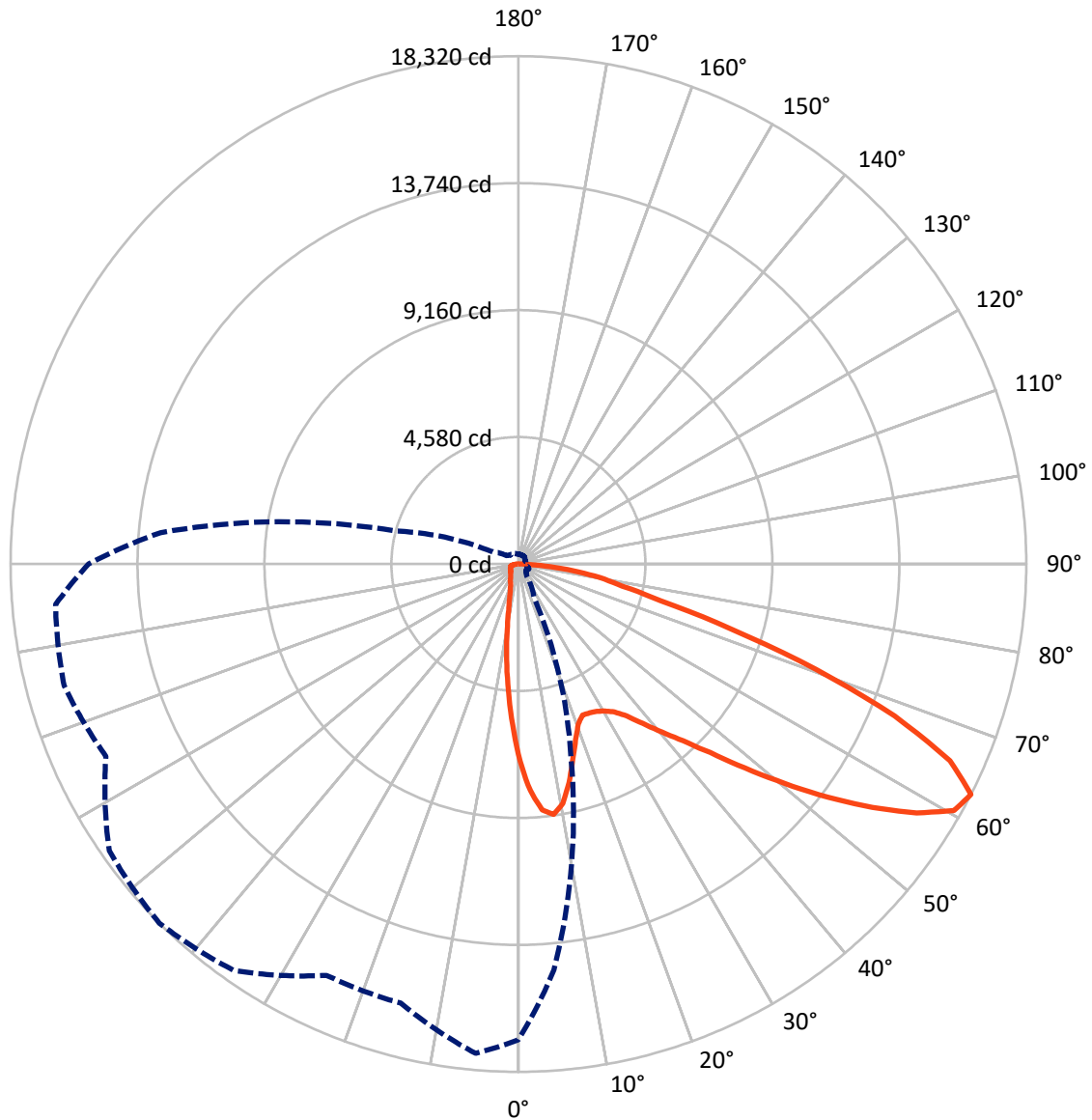


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type IV - Short - Non-Cutoff

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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	3489.5	0.0	3489.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	17596.6	0.0	17596.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	21086.1	0.0	21086.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.6	2.5
10°-20°	951.0	4.5
20°-30°	1386.5	6.6
30°-40°	2135.4	10.1
40°-50°	3142.8	14.9
50°-60°	4609.8	21.9
60°-70°	5153.1	24.4
70°-80°	2522.9	12.0
80°-90°	666.1	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°	21086.1	100.0
0°-180°	21086.1	100.0

**Coefficient of Utilization**



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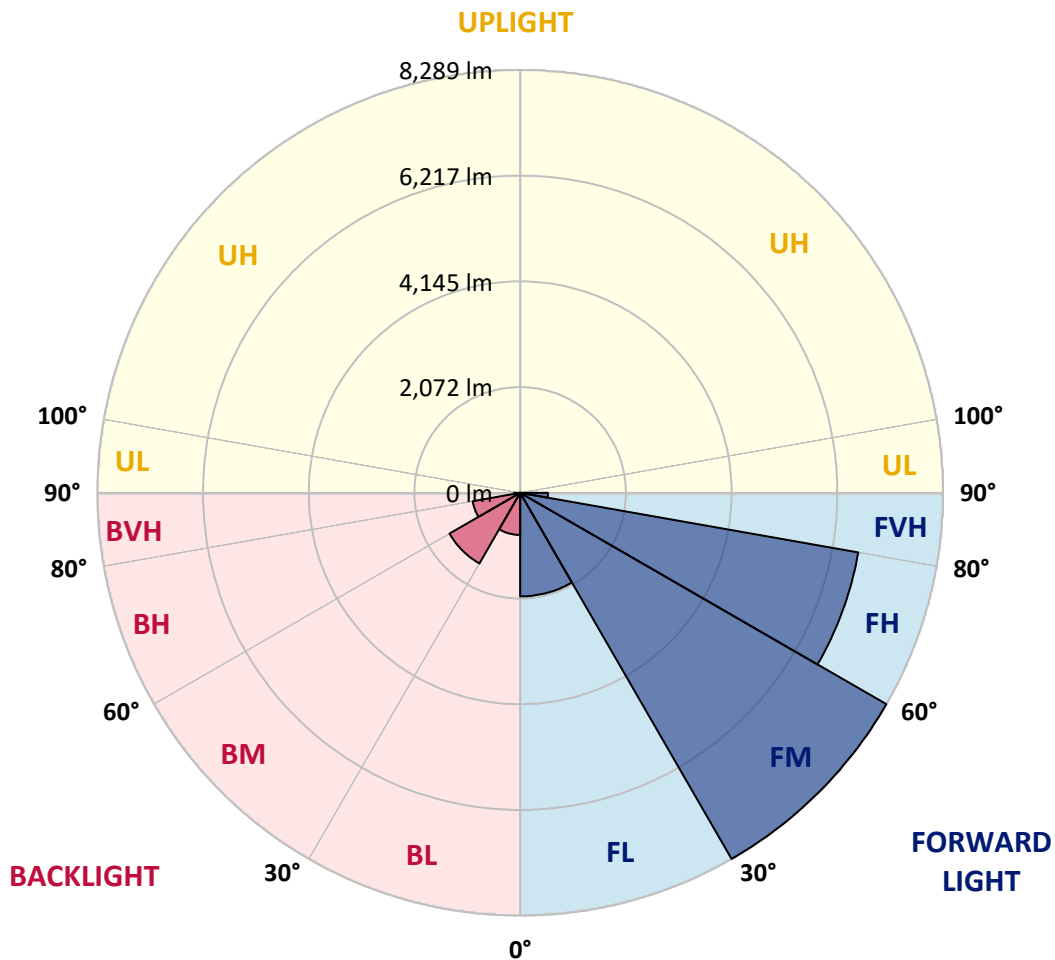
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2030.5	9.6			
FM	(30°-60°)	8289.1	39.3			
FH	(60°-80°)	6730.0	31.9			G3/7500
FVH	(80°-90°)	547.0	2.6			G4/750
BL	(0°-30°)	825.5	3.9	B2/1000		
BM	(30°-60°)	1598.8	7.6	B2/2500		
BH	(60°-80°)	946.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	119.1	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0
2.5°	7402.2	7251.5	7001.2	6740.3	6581.6	6396.1	6251.2	6123.7	5868.7	5818.9	5864.1
5°	6960.6	6658.1	6186.3	5711.0	5394.6	5055.0	4790.7	4578.5	4255.2	4198.4	4266.7
7.5°	6252.4	5890.7	5267.1	4660.9	4213.4	3789.2	3504.0	3276.8	3024.1	2915.2	2922.2
10°	5641.5	5233.5	4496.3	3836.7	3470.5	3184.1	2944.2	2711.2	2455.1	2287.0	2240.6
12.5°	5299.5	4830.1	3980.4	3391.6	3052.0	2750.6	2492.1	2242.9	1969.4	1797.8	1749.1
15°	5240.5	4730.4	3786.9	3106.5	2681.1	2299.7	1994.9	1716.7	1435.0	1295.9	1266.9
17.5°	5496.6	4908.9	3724.3	2852.6	2332.1	1861.6	1487.2	1176.5	947.0	877.5	871.7
20°	5988.0	5252.0	3716.2	2613.8	1987.9	1436.1	1036.2	810.3	709.4	689.7	690.8
22.5°	6677.7	5784.1	3815.8	2434.2	1671.5	1071.0	779.0	678.1	638.7	620.1	620.1
25°	7570.2	6516.6	4045.4	2303.2	1396.7	855.4	687.3	627.1	590.0	577.3	579.6
27.5°	8434.9	7229.5	4311.9	2200.1	1217.1	776.6	651.4	597.0	564.5	551.8	557.5
30°	9109.6	7862.4	4534.5	2059.8	1125.6	754.6	664.2	608.6	562.2	542.5	543.6
32.5°	9668.3	8416.4	4721.1	1959.0	1044.3	646.8	572.6	548.3	542.5	519.2	507.7
35°	10382.3	9020.4	4846.3	1961.2	1006.2	577.3	510.0	467.1	435.9	409.2	409.2
37.5°	11219.2	9713.5	4979.6	1987.9	992.3	536.6	487.9	445.1	416.1	390.7	386.0
40°	12046.9	10392.8	5101.4	2013.4	984.1	512.3	470.6	431.2	404.6	379.0	372.0
42.5°	12750.5	10951.5	5210.3	2026.2	956.3	510.0	457.9	422.0	396.4	368.6	361.6
45°	13270.8	11419.7	5327.3	2045.9	928.4	519.2	457.9	420.7	389.4	362.8	355.9
47.5°	13735.7	11969.1	5523.2	2045.9	894.9	501.9	472.9	422.0	388.3	360.5	354.7
50°	14358.1	12722.6	5894.1	1998.3	847.3	483.3	498.4	417.3	377.9	355.9	348.9
52.5°	15215.9	13688.2	6483.1	1916.1	774.3	447.4	494.9	415.0	367.4	344.2	336.1
55°	16230.1	14722.1	7125.2	1819.8	665.3	422.0	477.5	409.2	355.9	330.3	322.2
57.5°	17021.8	15433.8	7577.2	1671.5	570.3	408.1	423.1	403.3	342.0	315.3	308.3
60°	17337.1	15406.0	7701.3	1473.3	524.0	396.4	369.8	452.0	330.3	303.7	295.5
62.5°	17166.8	14694.3	7353.5	1334.1	513.5	381.4	346.6	418.5	321.1	295.5	284.0
65°	16379.7	13433.2	6432.0	1297.1	543.6	366.3	331.5	328.1	308.3	284.0	272.4
67.5°	14665.3	11548.4	5150.0	1300.6	581.9	351.2	316.4	300.2	290.9	271.3	260.9
70°	11944.8	9130.4	3839.0	1309.8	601.6	333.8	300.2	282.8	272.4	252.7	245.7
72.5°	8782.7	7037.1	2788.9	1249.5	605.1	314.1	278.1	263.1	252.7	231.8	226.1
75°	6008.9	5383.0	1934.6	1035.1	527.4	286.3	253.9	240.0	233.0	207.5	204.0
77.5°	4389.6	4040.8	1238.0	768.5	406.8	251.5	223.7	213.3	208.7	180.9	176.2
80°	3522.6	3196.9	774.3	526.2	297.9	210.9	187.8	182.0	177.4	149.6	146.1
82.5°	2443.4	2140.9	497.3	342.0	223.7	163.5	148.3	146.1	139.1	113.5	110.1
85°	1288.9	1162.6	315.3	233.0	162.2	112.4	103.1	103.1	99.6	75.4	73.0
87.5°	164.6	267.8	160.0	121.7	89.3	49.8	49.8	48.7	52.2	42.9	37.1
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°	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0
2.5°	5757.4	5813.0	5759.7	5763.2	5822.3	5998.5	6078.5	6144.6	6215.2	6261.6	6282.5
5°	4172.8	4302.7	4346.7	4439.5	4576.3	4801.1	4890.4	4955.3	4998.1	5023.7	5034.1
7.5°	2853.8	2932.6	3020.7	3170.2	3468.1	3600.3	3659.4	3644.3	3595.7	3578.3	3560.9
10°	2151.4	2120.1	2103.8	2186.1	2427.3	2560.5	2602.3	2561.7	2535.0	2540.8	2569.8
12.5°	1666.8	1612.4	1546.3	1537.0	1695.8	1815.2	1841.8	1844.2	1892.9	1935.7	1999.5
15°	1214.8	1208.9	1176.5	1156.9	1247.2	1344.6	1356.2	1377.1	1421.1	1452.4	1508.0
17.5°	856.6	887.9	913.4	926.2	994.5	1064.1	1051.3	1040.9	1032.8	1032.8	1059.5
20°	690.8	711.7	744.2	781.2	850.8	899.5	868.2	826.4	796.4	787.1	790.5
22.5°	622.5	638.7	657.2	689.7	752.3	785.9	752.3	722.1	692.0	681.6	678.1
25°	587.7	608.6	625.9	650.3	696.6	719.9	687.3	665.3	646.8	634.0	624.8
27.5°	567.9	586.6	591.2	602.7	642.2	663.0	646.8	637.5	625.9	614.4	602.7
30°	547.1	543.6	535.5	536.6	567.9	588.8	587.7	590.0	588.8	585.3	583.1
32.5°	499.6	492.7	485.7	492.7	521.6	540.1	541.3	545.9	545.9	544.8	554.0
35°	416.1	428.9	437.0	457.9	492.7	508.8	501.9	490.3	469.4	456.7	455.5
37.5°	384.8	387.2	401.1	430.0	468.3	483.3	472.9	446.3	432.4	430.0	433.5
40°	369.8	372.0	380.2	406.8	445.1	460.2	450.9	431.2	418.5	417.3	423.1
42.5°	359.4	361.6	366.3	384.8	416.1	434.7	435.9	422.0	406.8	408.1	413.8
45°	353.5	354.7	353.5	362.8	391.8	413.8	423.1	413.8	401.1	403.3	410.3
47.5°	352.4	348.9	344.2	346.6	376.8	398.7	410.3	406.8	401.1	403.3	409.2
50°	347.7	339.6	333.8	332.7	362.8	386.0	396.4	396.4	398.7	403.3	409.2
52.5°	333.8	324.6	324.6	321.1	353.5	375.5	382.5	383.7	387.2	395.3	403.3
55°	316.4	312.9	316.4	310.7	346.6	367.4	370.9	373.3	375.5	382.5	394.1
57.5°	301.4	296.8	304.8	302.5	340.7	359.4	359.4	364.0	364.0	373.3	382.5
60°	293.3	284.0	287.4	289.8	332.7	352.4	350.1	354.7	357.0	365.1	372.0
62.5°	282.8	274.8	274.8	280.5	323.4	342.0	340.7	344.2	353.5	355.9	362.8
65°	270.1	266.6	263.1	270.1	314.1	330.3	331.5	336.1	344.2	346.6	352.4
67.5°	257.4	258.5	251.5	258.5	306.0	318.8	318.8	328.1	331.5	336.1	342.0
70°	243.5	244.6	238.8	246.9	300.2	306.0	304.8	317.6	319.9	323.4	329.2
72.5°	226.1	226.1	223.7	235.3	290.9	293.3	290.9	301.4	302.5	306.0	308.3
75°	207.5	207.5	205.2	221.4	285.1	279.4	272.4	280.5	282.8	285.1	285.1
77.5°	183.1	185.5	185.5	205.2	265.5	273.5	250.4	255.0	258.5	259.6	256.1
80°	153.0	158.8	161.1	186.6	222.6	252.7	223.7	227.2	228.3	228.3	223.7
82.5°	117.0	127.5	133.3	161.1	170.4	212.2	194.8	198.2	194.8	187.8	185.5
85°	81.1	95.0	102.0	122.9	128.7	163.5	162.2	162.2	155.3	146.1	144.8
87.5°	44.1	52.2	56.8	73.0	88.1	110.1	119.4	115.9	110.1	104.3	105.5
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°	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0
2.5°	6391.4	6549.1	6800.6	6993.0	7186.6	7373.2	7575.0	7729.1	7860.0	7911.1	8066.4
5°	5139.6	5336.6	5574.3	6003.2	6306.8	6641.8	7029.0	7541.3	7738.3	8010.7	8457.0
7.5°	3633.8	3812.3	4194.9	4541.5	4971.5	5445.6	5968.4	6675.5	6933.9	7370.9	8097.7
10°	2713.5	2921.0	3228.2	3520.3	3899.3	4383.9	4984.2	5774.8	6088.9	6562.9	7399.9
12.5°	2186.1	2430.7	2756.4	3031.1	3324.4	3666.4	4249.3	5116.4	5537.1	5952.1	6798.3
15°	1679.6	1935.7	2238.3	2587.1	2910.6	3279.2	3890.1	4838.3	5322.7	5755.1	6477.2
17.5°	1162.6	1381.7	1763.1	2127.0	2540.8	3012.6	3790.3	4897.4	5475.8	5974.1	6532.9
20°	824.2	949.3	1262.3	1684.2	2200.1	2792.3	3771.8	5207.9	5960.2	6529.4	6889.9
22.5°	693.2	739.5	921.5	1308.7	1904.4	2627.8	3836.7	5643.8	6614.0	7340.8	7459.1
25°	631.8	659.5	754.6	1026.9	1641.3	2508.4	4055.8	6292.9	7423.0	8152.2	8131.3
27.5°	598.1	627.1	689.7	867.1	1443.1	2434.2	4274.9	7062.6	8348.1	9033.1	8773.4
30°	587.7	627.1	693.2	817.2	1301.7	2317.1	4454.5	7738.3	9059.8	9627.7	9065.6
32.5°	579.6	585.3	615.5	704.7	1167.3	2180.3	4576.3	8344.6	9756.4	10193.4	9486.3
35°	468.3	497.3	545.9	631.8	1088.4	2098.1	4576.3	8867.3	10442.6	10764.8	9887.4
37.5°	450.9	476.4	519.2	592.3	1044.3	2057.5	4484.7	9371.6	11143.9	11412.8	10217.7
40°	441.6	462.5	503.1	562.2	1025.8	2011.1	4351.3	9816.6	11828.9	12061.9	10526.1
42.5°	434.7	453.3	491.4	543.6	1001.5	1960.1	4243.6	10173.7	12423.5	12616.0	10820.5
45°	431.2	450.9	492.7	552.9	952.8	1892.9	4207.6	10559.7	12912.7	13078.4	11139.2
47.5°	431.2	454.4	498.4	572.6	894.9	1823.3	4320.1	11068.5	13375.2	13456.3	11514.8
50°	427.7	453.3	514.6	552.9	810.3	1735.2	4584.4	11709.5	13875.9	13885.2	11990.0
52.5°	420.7	450.9	554.0	541.3	712.9	1619.3	4941.4	12532.5	14616.6	14672.3	12734.2
55°	412.7	447.4	543.6	514.6	632.9	1481.3	5233.5	13532.8	15657.5	15811.6	13828.5
57.5°	402.2	442.8	526.2	477.5	580.7	1304.1	5339.0	14265.5	16384.3	16771.5	15061.7
60°	392.9	439.4	475.3	455.5	548.3	1154.5	5134.9	14120.5	16334.5	17169.0	16154.8
62.5°	383.7	442.8	433.5	441.6	533.2	1058.2	4601.7	12960.3	15508.0	16758.7	16965.0
65°	373.3	411.5	409.2	430.0	529.7	1020.0	3814.7	11220.3	13910.7	15461.6	17156.3
67.5°	359.4	380.2	391.8	415.0	541.3	986.4	3078.7	9255.7	11691.0	13517.8	16159.5
70°	344.2	361.6	374.4	396.4	534.4	971.4	2560.5	7299.1	9276.5	11079.0	14192.4
72.5°	324.6	339.6	351.2	372.0	527.4	963.2	2162.9	5878.0	6925.8	8229.8	11539.2
75°	301.4	315.3	323.4	344.2	505.3	882.1	1700.5	4973.8	5182.5	5724.9	9190.7
77.5°	274.8	285.1	292.1	315.3	447.4	733.8	1229.8	3836.7	4024.5	4156.7	7046.4
80°	243.5	253.9	257.4	279.4	370.9	573.8	802.1	2834.1	3010.2	3040.4	4601.7
82.5°	207.5	217.9	217.9	238.8	303.7	412.7	526.2	1941.6	1976.3	2078.3	3252.5
85°	166.9	175.0	175.0	185.5	235.3	308.3	361.6	974.9	964.4	1101.2	2817.8
87.5°	119.4	125.2	130.9	133.3	168.1	204.0	217.9	296.8	195.9	224.8	1809.4
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-06-LED-E1-SLR-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0	7124.0
2.5°	8183.5	8249.5	8182.3	8133.6	7923.8	7751.1	7520.4	7402.2
5°	8796.7	8964.7	8908.0	8703.9	8265.7	7773.1	7213.2	6960.6
7.5°	8722.5	9113.1	9122.4	8741.0	8095.3	7369.7	6611.6	6252.4
10°	8145.2	8644.8	8787.4	8417.6	7732.6	6921.2	6051.8	5641.5
12.5°	7500.7	7989.9	8098.8	7971.3	7398.7	6583.8	5701.7	5299.5
15°	6973.4	7192.4	7322.2	7433.5	7112.5	6449.4	5682.1	5240.5
17.5°	6652.2	6627.9	6665.0	6858.6	6913.1	6603.6	5983.4	5496.6
20°	6536.3	6164.3	6155.0	6421.6	6819.2	6971.0	6572.3	5988.0
22.5°	6600.1	5997.4	5920.8	6237.2	6869.0	7500.7	7344.3	6677.7
25°	6820.3	6011.3	5949.8	6255.9	7049.9	8065.3	8177.7	7570.2
27.5°	7166.9	6099.3	6018.2	6332.4	7289.8	8539.3	8998.3	8434.9
30°	7496.1	6252.4	6151.5	6483.1	7508.9	8727.1	9501.4	9109.6
32.5°	7896.0	6538.7	6361.3	6760.1	7780.1	9026.1	9949.9	9668.3
35°	8287.7	6946.7	6726.4	7187.8	8082.6	9398.3	10462.3	10382.3
37.5°	8717.8	7479.9	7297.9	7740.7	8496.4	9749.4	11116.1	11219.2
40°	9176.8	8187.0	7971.3	8547.5	9138.6	10189.9	11798.8	12046.9
42.5°	9639.4	8971.7	8714.3	9298.5	9844.5	10624.6	12383.0	12750.5
45°	10169.1	9823.6	9702.0	10333.6	10522.6	11038.4	12814.2	13270.8
47.5°	10785.7	10790.4	10986.3	11239.0	11206.4	11506.7	13247.7	13735.7
50°	11505.5	11997.0	12429.4	12597.4	11911.2	12009.7	13849.3	14358.1
52.5°	12370.2	13440.1	13975.7	13865.5	12670.5	12624.1	14802.1	15215.9
55°	13451.7	14967.8	15499.9	15421.1	13543.3	13461.0	15989.0	16230.1
57.5°	14703.6	16448.0	16937.2	16582.5	14591.2	14379.0	16970.9	17021.8
60°	15803.6	17621.1	18050.0	17657.1	15648.3	15356.1	17584.0	17337.1
62.5°	16415.6	18018.7	18320.0	17896.9	16372.7	16397.1	17718.4	17166.8
65°	16142.1	17013.7	17111.1	17076.3	16186.0	17000.9	17235.1	16379.7
67.5°	14644.5	14472.9	14636.4	14862.4	14586.5	16205.8	15896.3	14665.3
70°	12006.3	11063.9	11389.6	11541.4	11666.7	13945.5	13797.2	11944.8
72.5°	9048.2	7751.1	8008.5	7977.2	8556.7	11185.6	10730.0	8782.7
75°	6411.1	5255.5	5287.9	5275.2	5970.7	8751.4	7769.6	6008.9
77.5°	4485.8	3807.7	3825.1	3897.0	4014.1	6600.1	5551.0	4389.6
80°	3084.4	2889.7	2985.9	2991.7	2781.9	4433.7	4101.0	3522.6
82.5°	2297.4	2008.8	1985.5	2019.2	2180.3	3592.2	3151.7	2443.4
85°	1881.3	1189.3	956.3	1198.6	1932.3	3557.4	2093.4	1288.9
87.5°	1059.5	564.5	255.0	472.9	770.8	2355.3	605.1	164.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)