

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: P191318

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191318  
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-10-LED-E1-SLR-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 34896.9 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 323  
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

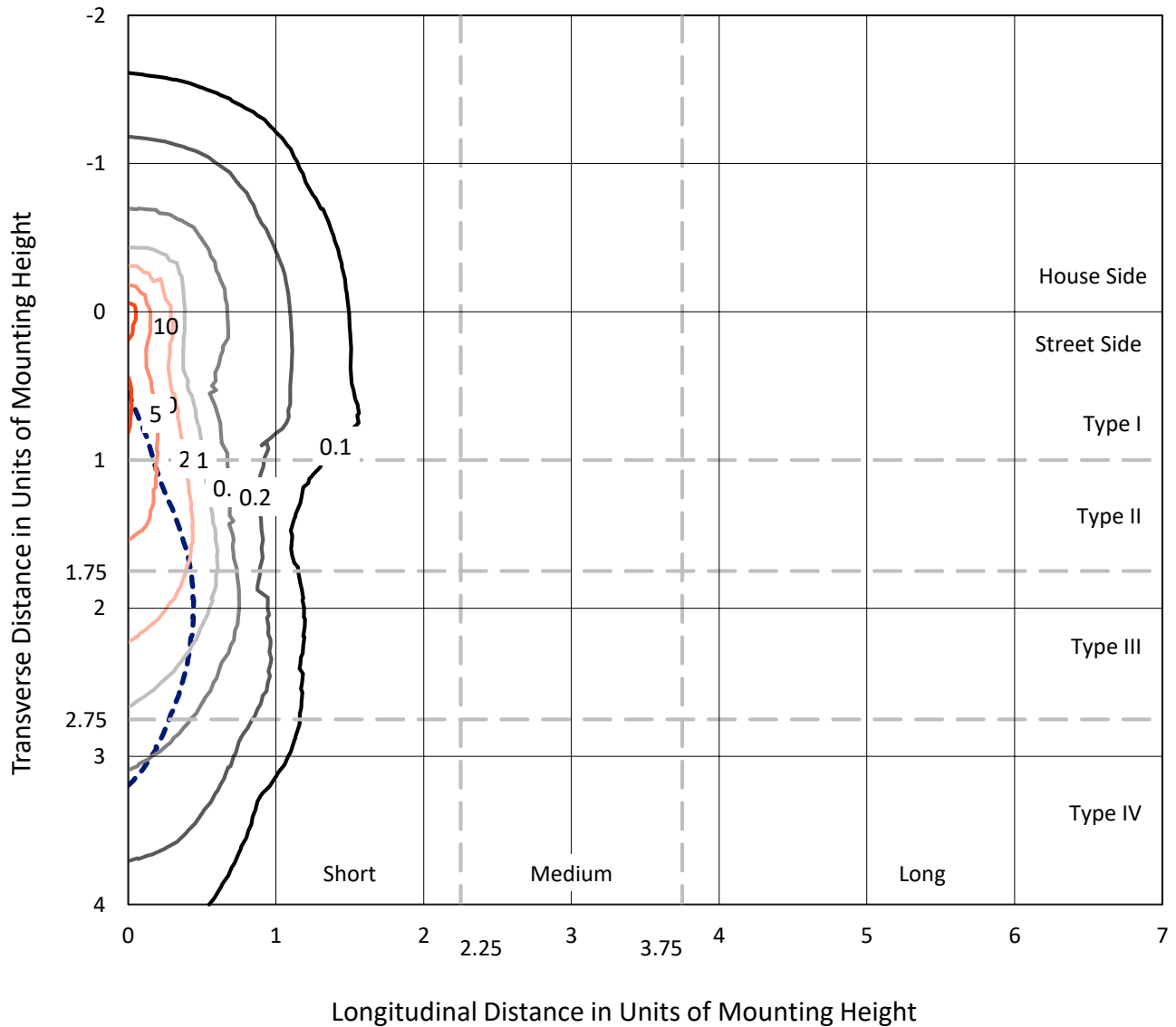


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

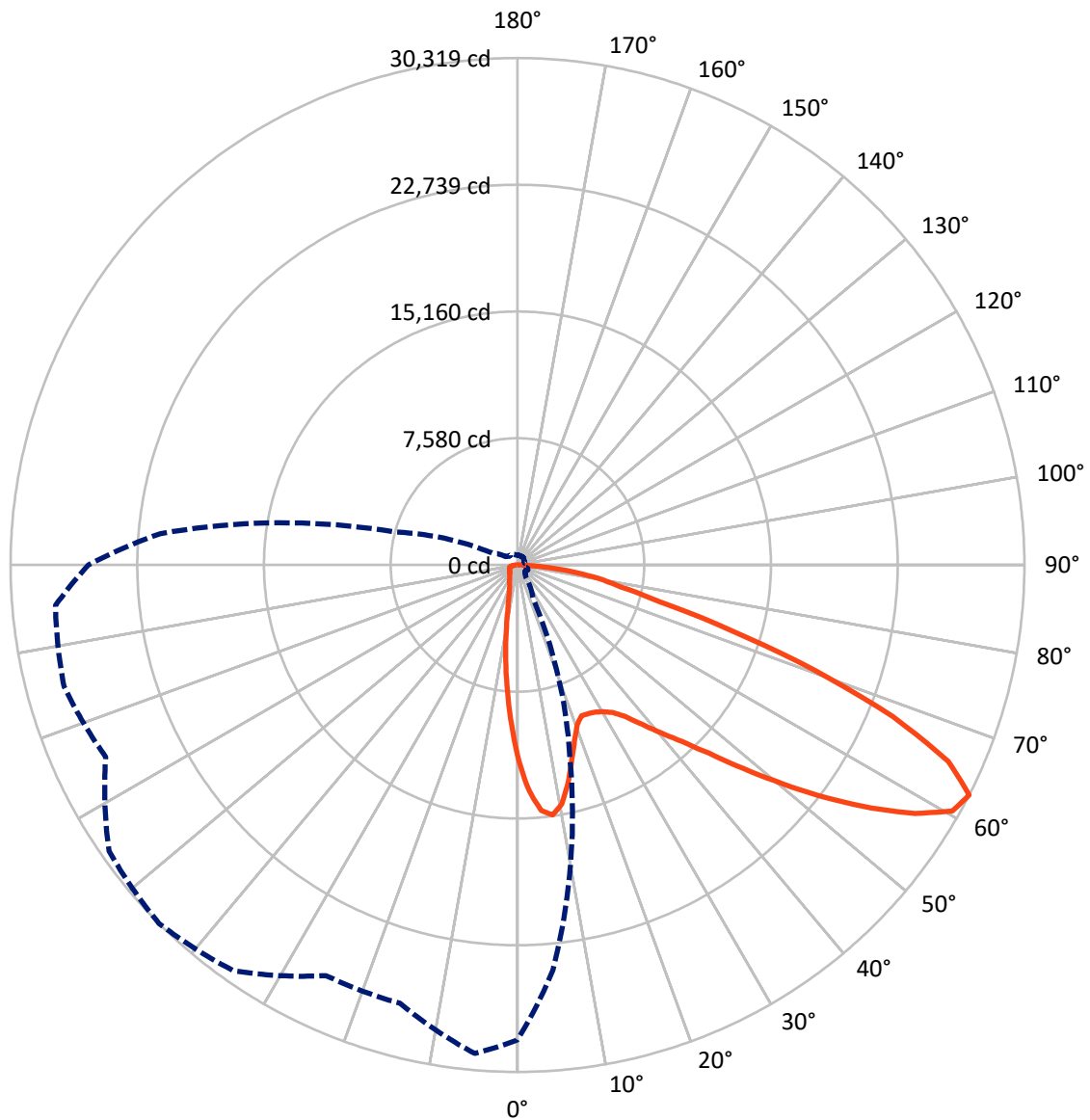


Based on 30 foot mounting height. Maximum calculated value = 13.1 fc  
 Type IV - Short - Non-Cutoff

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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	5775.0	0.0	5775.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	29122.0	0.0	29122.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	34896.9	0.0	34896.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	858.3	2.5
10°-20°	1573.8	4.5
20°-30°	2294.6	6.6
30°-40°	3534.1	10.1
40°-50°	5201.2	14.9
50°-60°	7629.1	21.9
60°-70°	8528.2	24.4
70°-80°	4175.3	12.0
80°-90°	1102.4	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°	34896.9	100.0
0°-180°	34896.9	100.0



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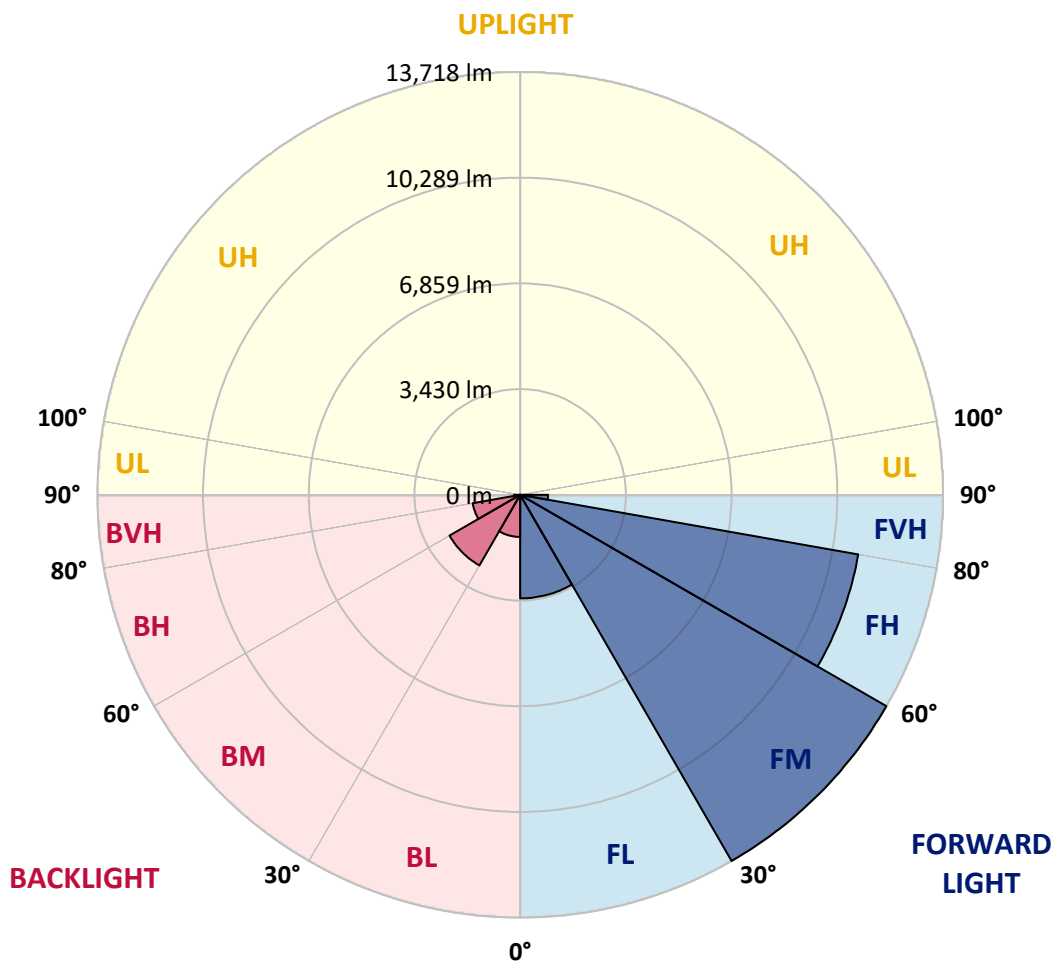
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3360.5	9.6			
FM	(30°-60°)	13718.3	39.3			
FH	(60°-80°)	11137.9	31.9			G4/12000
FVH	(80°-90°)	905.3	2.6			G5
BL	(0°-30°)	1366.3	3.9	B3/2500		
BM	(30°-60°)	2646.0	7.6	B3/5000		
BH	(60°-80°)	1565.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	197.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0
2.5°	12250.4	12001.1	11586.8	11155.1	10892.3	10585.4	10345.6	10134.6	9712.5	9630.1	9704.8
5°	11519.6	11018.9	10238.1	9451.7	8927.9	8365.8	7928.5	7577.4	7042.2	6948.2	7061.4
7.5°	10347.5	9748.9	8716.9	7713.7	6973.1	6271.0	5799.1	5423.2	5004.9	4824.6	4836.1
10°	9336.5	8661.2	7441.3	6349.7	5743.5	5269.6	4872.5	4487.0	4063.1	3784.9	3708.1
12.5°	8770.6	7993.6	6587.6	5613.0	5050.9	4552.2	4124.4	3712.0	3259.2	2975.4	2894.7
15°	8672.8	7828.7	6267.2	5141.1	4437.2	3806.0	3301.5	2841.0	2374.9	2144.7	2096.7
17.5°	9096.7	8124.2	6163.6	4721.0	3859.7	3080.8	2461.2	1947.1	1567.3	1452.2	1442.6
20°	9910.1	8691.9	6150.2	4325.9	3289.9	2376.8	1715.0	1340.9	1174.0	1141.4	1143.4
22.5°	11051.6	9572.5	6315.2	4028.5	2766.3	1772.6	1289.1	1122.2	1057.0	1026.3	1026.3
25°	12528.6	10784.9	6695.0	3811.7	2311.6	1415.8	1137.5	1037.8	976.4	955.3	959.1
27.5°	13959.7	11964.6	7136.2	3641.0	2014.3	1285.2	1078.1	988.0	934.3	913.1	922.7
30°	15076.1	13012.0	7504.5	3408.9	1862.7	1248.8	1099.2	1007.1	930.4	897.7	899.7
32.5°	16000.8	13929.0	7813.4	3241.9	1728.4	1070.4	947.7	907.4	897.7	859.4	840.3
35°	17182.5	14928.4	8020.5	3245.8	1665.2	955.3	844.0	773.0	721.3	677.2	677.2
37.5°	18567.6	16075.6	8241.2	3289.9	1642.1	888.2	807.6	736.6	688.7	646.5	638.8
40°	19937.2	17199.8	8442.6	3332.2	1628.6	847.9	778.9	713.6	669.5	627.3	615.8
42.5°	21101.6	18124.4	8622.9	3353.2	1582.6	844.0	757.7	698.3	656.0	610.0	598.5
45°	21963.0	18899.4	8816.6	3385.9	1536.6	859.4	757.7	696.3	644.6	600.5	588.9
47.5°	22732.2	19808.7	9140.9	3385.9	1480.9	830.6	782.7	698.3	642.6	596.6	587.0
50°	23762.3	21055.6	9754.8	3307.2	1402.3	799.9	824.9	690.6	625.3	588.9	577.5
52.5°	25182.0	22653.6	10729.2	3171.0	1281.5	740.5	819.1	686.8	608.1	569.8	556.3
55°	26860.4	24364.7	11792.0	3011.8	1101.1	698.3	790.3	677.2	588.9	546.8	533.3
57.5°	28170.7	25542.6	12540.1	2766.3	943.8	675.2	700.2	667.6	565.9	521.8	510.2
60°	28692.4	25496.5	12745.4	2438.2	867.1	656.0	611.9	748.2	546.8	502.6	489.2
62.5°	28410.5	24318.7	12169.9	2208.0	849.9	631.2	573.6	692.5	531.4	489.2	469.9
65°	27108.0	22231.6	10644.8	2146.7	899.7	606.2	548.6	542.9	510.2	469.9	450.8
67.5°	24270.7	19112.3	8523.1	2152.4	963.0	581.2	523.8	496.8	481.5	448.9	431.6
70°	19768.4	15110.7	6353.5	2167.7	995.6	552.5	496.8	468.1	450.8	418.2	406.7
72.5°	14535.2	11646.2	4615.6	2068.0	1001.4	519.9	460.4	435.5	418.2	383.7	374.1
75°	9944.6	8908.8	3201.7	1713.0	872.9	473.8	420.1	397.1	385.6	343.4	337.7
77.5°	7264.7	6687.3	2048.8	1271.8	673.3	416.2	370.2	353.0	345.3	299.2	291.5
80°	5829.8	5290.8	1281.5	870.9	493.1	349.1	310.8	301.2	293.5	247.5	241.7
82.5°	4043.8	3543.2	823.0	565.9	370.2	270.5	245.5	241.7	230.2	188.0	182.3
85°	2133.2	1924.1	521.8	385.6	268.5	186.1	170.7	170.7	165.0	124.7	120.8
87.5°	272.4	443.1	264.7	201.4	147.7	82.4	82.4	80.6	86.3	71.0	61.4
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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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0
2.5°	9528.4	9620.4	9532.2	9538.0	9635.8	9927.3	10059.7	10169.1	10286.1	10362.8	10397.4
5°	6906.0	7120.9	7193.7	7347.2	7573.6	7945.8	8093.5	8200.9	8271.9	8314.0	8331.3
7.5°	4723.0	4853.4	4999.2	5246.6	5739.7	5958.4	6056.2	6031.2	5950.7	5921.9	5893.1
10°	3560.4	3508.6	3481.8	3618.0	4017.0	4237.6	4306.6	4239.5	4195.4	4204.9	4252.9
12.5°	2758.6	2668.4	2559.0	2543.7	2806.6	3004.1	3048.2	3052.1	3132.7	3203.6	3309.1
15°	2010.4	2000.8	1947.1	1914.5	2064.1	2225.2	2244.5	2278.9	2351.9	2403.6	2495.8
17.5°	1417.6	1469.5	1511.6	1532.8	1645.9	1761.0	1739.9	1722.6	1709.2	1709.2	1753.3
20°	1143.4	1177.8	1231.5	1292.9	1408.1	1488.6	1436.8	1367.8	1317.9	1302.5	1308.3
22.5°	1030.1	1057.0	1087.7	1141.4	1245.0	1300.6	1245.0	1195.1	1145.2	1128.0	1122.2
25°	972.6	1007.1	1035.9	1076.1	1153.0	1191.3	1137.5	1101.1	1070.4	1049.3	1034.0
27.5°	940.0	970.7	978.4	997.6	1062.7	1097.3	1070.4	1055.1	1035.9	1016.7	997.6
30°	905.4	899.7	886.3	888.2	940.0	974.5	972.6	976.4	974.5	968.7	964.9
32.5°	826.9	815.3	803.7	815.3	863.3	894.0	895.9	903.6	903.6	901.6	917.0
35°	688.7	709.8	723.2	757.7	815.3	842.2	830.6	811.4	776.9	755.9	753.9
37.5°	636.9	640.7	663.8	711.7	775.0	799.9	782.7	738.6	715.6	711.7	717.5
40°	611.9	615.8	629.2	673.3	736.6	761.6	746.2	713.6	692.5	690.6	700.2
42.5°	594.6	598.5	606.2	636.9	688.7	719.3	721.3	698.3	673.3	675.2	684.9
45°	585.1	587.0	585.1	600.5	648.3	684.9	700.2	684.9	663.8	667.6	679.1
47.5°	583.2	577.5	569.8	573.6	623.5	659.9	679.1	673.3	663.8	667.6	677.2
50°	575.5	562.1	552.5	550.6	600.5	638.8	656.0	656.0	659.9	667.6	677.2
52.5°	552.5	537.2	537.2	531.4	585.1	621.5	633.0	634.9	640.7	654.2	667.6
55°	523.8	517.9	523.8	514.1	573.6	608.1	613.9	617.7	621.5	633.0	652.2
57.5°	498.8	491.1	504.5	500.7	564.0	594.6	594.6	602.3	602.3	617.7	633.0
60°	485.3	469.9	475.8	479.6	550.6	583.2	579.3	587.0	590.9	604.3	615.8
62.5°	468.1	454.6	454.6	464.2	535.2	565.9	564.0	569.8	585.1	588.9	600.5
65°	446.9	441.2	435.5	446.9	519.9	546.8	548.6	556.3	569.8	573.6	583.2
67.5°	425.9	427.8	416.2	427.8	506.5	527.5	527.5	542.9	548.6	556.3	565.9
70°	402.8	404.8	395.2	408.6	496.8	506.5	504.5	525.6	529.5	535.2	544.8
72.5°	374.1	374.1	370.2	389.4	481.5	485.3	481.5	498.8	500.7	506.5	510.2
75°	343.4	343.4	339.5	366.4	471.9	462.3	450.8	464.2	468.1	471.9	471.9
77.5°	303.1	306.9	306.9	339.5	439.3	452.8	414.4	422.1	427.8	429.7	423.9
80°	253.2	262.8	266.7	308.8	368.4	418.2	370.2	376.0	377.9	377.9	370.2
82.5°	193.7	211.0	220.7	266.7	282.0	351.1	322.2	328.1	322.2	310.8	306.9
85°	134.3	157.3	168.8	203.4	213.0	270.5	268.5	268.5	257.1	241.7	239.8
87.5°	72.9	86.3	94.0	120.8	145.8	182.3	197.6	191.8	182.3	172.7	174.6
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°	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0
2.5°	10577.7	10838.6	11254.8	11573.3	11893.6	12202.5	12536.3	12791.4	13008.3	13092.6	13349.7
5°	8505.8	8832.0	9225.3	9935.0	10437.7	10992.0	11632.8	12480.7	12806.8	13257.5	13996.1
7.5°	6013.9	6309.4	6942.5	7516.0	8227.7	9012.3	9877.5	11047.7	11475.5	12198.7	13401.5
10°	4490.9	4834.2	5342.6	5826.0	6453.3	7255.2	8248.9	9557.1	10077.0	10861.6	12246.7
12.5°	3618.0	4022.8	4561.7	5016.4	5501.7	6067.6	7032.6	8467.5	9163.9	9850.6	11251.0
15°	2779.7	3203.6	3704.3	4281.8	4817.0	5427.0	6437.9	8007.1	8808.9	9524.5	10719.6
17.5°	1924.1	2286.6	2917.8	3520.2	4204.9	4985.8	6272.9	8104.9	9062.2	9887.1	10811.7
20°	1363.9	1571.2	2089.1	2787.3	3641.0	4621.3	6242.3	8619.1	9864.1	10805.9	11402.5
22.5°	1147.1	1223.9	1525.1	2165.8	3151.8	4348.9	6349.7	9340.4	10946.0	12148.8	12344.5
25°	1045.5	1091.5	1248.8	1699.6	2716.3	4151.2	6712.2	10414.7	12285.0	13491.6	13457.1
27.5°	989.9	1037.8	1141.4	1434.9	2388.3	4028.5	7074.8	11688.4	13815.9	14949.6	14519.9
30°	972.6	1037.8	1147.1	1352.4	2154.3	3834.7	7372.1	12806.8	14993.7	15933.7	15003.3
32.5°	959.1	968.7	1018.7	1166.4	1931.7	3608.4	7573.6	13810.0	16146.6	16869.8	15699.6
35°	775.0	823.0	903.6	1045.5	1801.3	3472.2	7573.6	14675.3	17282.2	17815.5	16363.3
37.5°	746.2	788.4	859.4	980.3	1728.4	3405.0	7422.0	15509.7	18442.9	18887.9	16910.1
40°	730.9	765.4	832.6	930.4	1697.7	3328.3	7201.4	16246.4	19576.6	19962.2	17420.3
42.5°	719.3	750.0	813.3	899.7	1657.5	3243.9	7023.0	16837.2	20560.7	20879.1	17907.7
45°	713.6	746.2	815.3	915.0	1576.9	3132.7	6963.5	17476.0	21370.3	21644.5	18435.2
47.5°	713.6	752.0	824.9	947.7	1480.9	3017.5	7149.6	18318.2	22135.6	22269.9	19056.8
50°	707.9	750.0	851.7	915.0	1340.9	2871.7	7587.0	19379.0	22964.3	22979.7	19843.2
52.5°	696.3	746.2	917.0	895.9	1179.8	2679.9	8177.9	20741.0	24190.1	24282.3	21074.8
55°	682.9	740.5	899.7	851.7	1047.4	2451.6	8661.2	22396.5	25912.8	26168.0	22885.7
57.5°	665.6	732.8	870.9	790.3	961.1	2158.1	8835.8	23608.9	27115.7	27756.3	24926.8
60°	650.3	727.0	786.5	753.9	907.4	1910.7	8498.2	23369.1	27033.1	28414.3	26735.7
62.5°	634.9	732.8	717.5	730.9	882.4	1751.4	7615.8	21448.8	25665.3	27735.3	28076.7
65°	617.7	681.0	677.2	711.7	876.7	1688.2	6313.2	18569.4	23021.9	25588.6	28393.2
67.5°	594.6	629.2	648.3	686.8	895.9	1632.5	5095.1	15317.9	19348.3	22371.6	26743.5
70°	569.8	598.5	619.6	656.0	884.3	1607.6	4237.6	12079.7	15352.4	18335.4	23488.1
72.5°	537.2	562.1	581.2	615.8	872.9	1594.2	3579.6	9727.9	11462.1	13620.2	19097.0
75°	498.8	521.8	535.2	569.8	836.4	1459.9	2814.2	8231.6	8576.8	9474.7	15210.5
77.5°	454.6	471.9	483.4	521.8	740.5	1214.3	2035.4	6349.7	6660.4	6879.1	11661.5
80°	402.8	420.1	425.9	462.3	613.9	949.6	1327.5	4690.3	4981.9	5031.8	7615.8
82.5°	343.4	360.7	360.7	395.2	502.6	682.9	870.9	3213.2	3270.8	3439.6	5382.9
85°	276.2	289.7	289.7	306.9	389.4	510.2	598.5	1613.3	1596.0	1822.4	4663.4
87.5°	197.6	207.1	216.8	220.7	278.1	337.7	360.7	491.1	324.2	372.1	2994.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191318

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0	11790.0
2.5°	13543.5	13652.8	13541.5	13460.9	13113.7	12827.9	12446.1	12250.4
5°	14558.2	14836.4	14742.4	14404.8	13679.6	12864.3	11937.7	11519.6
7.5°	14435.5	15081.9	15097.3	14466.2	13397.6	12196.7	10942.2	10347.5
10°	13480.1	14306.9	14542.9	13931.0	12797.2	11454.4	10015.6	9336.5
12.5°	12413.5	13223.1	13403.4	13192.4	12244.7	10896.2	9436.3	8770.6
15°	11540.7	11903.3	12118.1	12302.2	11770.9	10673.6	9403.7	8672.8
17.5°	11009.3	10969.0	11030.4	11350.8	11440.9	10928.7	9902.5	9096.7
20°	10817.5	10201.7	10186.3	10627.5	11285.5	11536.8	10876.9	9910.1
22.5°	10923.0	9925.5	9798.8	10322.5	11368.1	12413.5	12154.6	11051.6
25°	11287.4	9948.5	9846.8	10353.3	11667.3	13347.8	13533.8	12528.6
27.5°	11861.0	10094.3	9960.0	10479.8	12064.4	14132.4	14892.0	13959.7
30°	12405.8	10347.5	10180.6	10729.2	12426.9	14443.1	15724.6	15076.1
32.5°	13067.7	10821.3	10527.8	11187.7	12875.9	14938.0	16467.0	16000.8
35°	13716.0	11496.5	11132.1	11895.6	13376.5	15553.9	17314.9	17182.5
37.5°	14427.8	12379.0	12077.8	12810.6	14061.4	16135.1	18396.8	18567.6
40°	15187.4	13549.2	13192.4	14145.8	15124.1	16864.1	19526.7	19937.2
42.5°	15952.8	14847.9	14422.0	15388.9	16292.4	17583.4	20493.5	21101.6
45°	16829.5	16257.9	16056.4	17101.9	17414.6	18268.3	21207.2	21963.0
47.5°	17850.1	17857.8	18181.9	18600.1	18546.4	19043.3	21924.6	22732.2
50°	19041.4	19854.8	20570.3	20848.5	19712.8	19875.8	22920.2	23762.3
52.5°	20472.4	22243.0	23129.3	22947.0	20969.3	20892.5	24497.1	25182.0
55°	22262.3	24771.5	25651.9	25521.5	22413.8	22277.6	26461.5	26860.4
57.5°	24334.1	27221.1	28030.7	27443.6	24148.0	23796.9	28086.3	28170.7
60°	26154.5	29162.5	29872.3	29221.9	25897.4	25414.1	29101.1	28692.4
62.5°	27167.4	29820.4	30319.2	29619.0	27096.4	27136.7	29323.6	28410.5
65°	26714.7	28157.2	28318.4	28260.9	26787.6	28136.2	28523.7	27108.0
67.5°	24236.2	23952.3	24222.8	24596.9	24140.3	26820.2	26308.0	24270.7
70°	19870.1	18310.5	18849.5	19100.8	19308.0	23079.4	22833.9	19768.4
72.5°	14974.5	12827.9	13253.8	13202.0	14161.1	18511.9	17758.0	14535.2
75°	10610.3	8697.7	8751.4	8730.4	9881.3	14483.4	12858.6	9944.6
77.5°	7424.0	6301.7	6330.5	6449.4	6643.1	10923.0	9186.9	7264.7
80°	5104.7	4782.4	4941.7	4951.2	4604.0	7337.6	6787.1	5829.8
82.5°	3802.1	3324.5	3286.1	3341.8	3608.4	5944.9	5215.9	4043.8
85°	3113.5	1968.2	1582.6	1983.6	3197.8	5887.4	3464.5	2133.2
87.5°	1753.3	934.3	422.1	782.7	1275.7	3898.1	1001.4	272.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)