

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: P269734

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269734  
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-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 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: 29638.8 lumens  
Efficiency: N/A  
Efficacy: 91.8 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

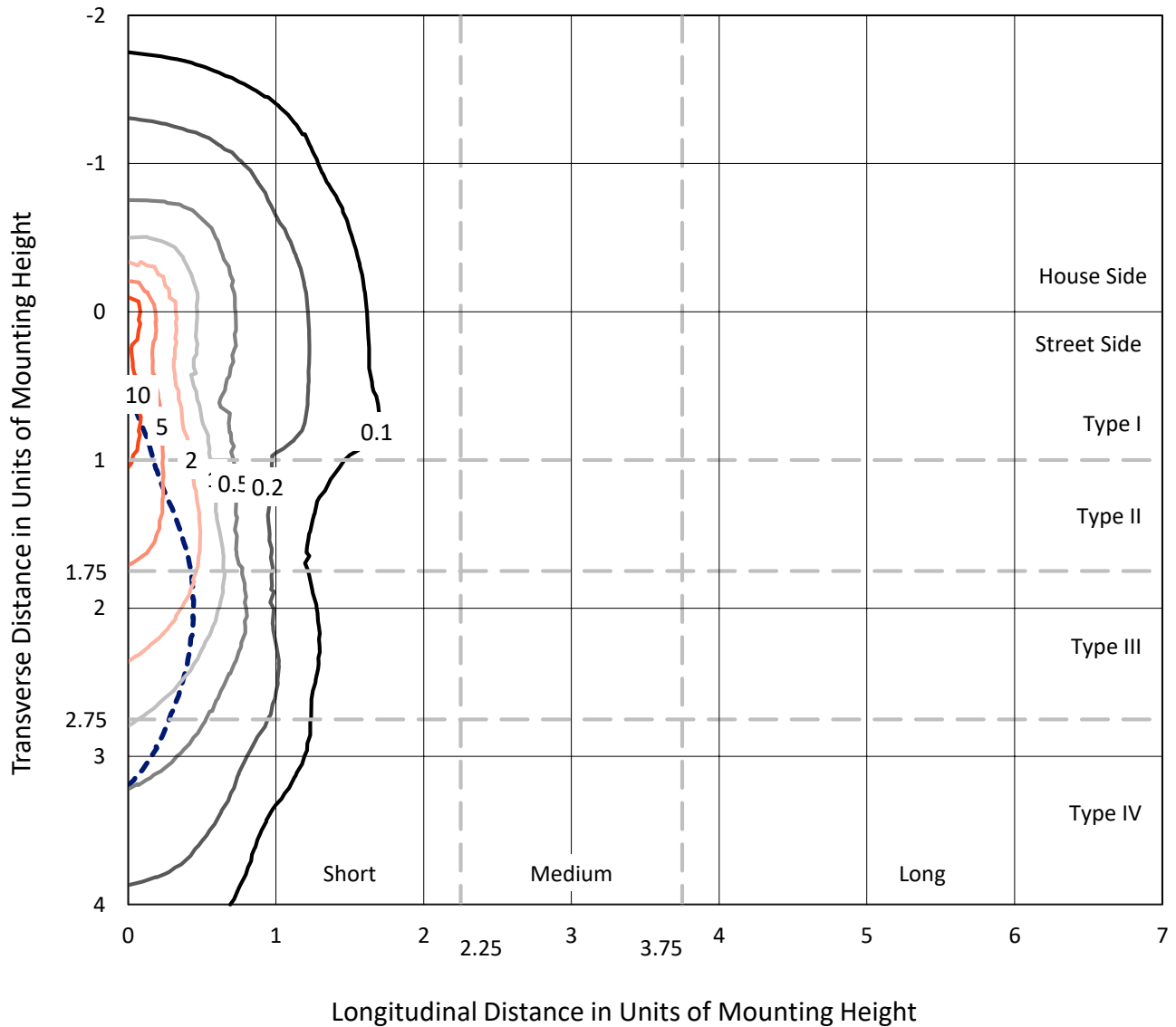


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

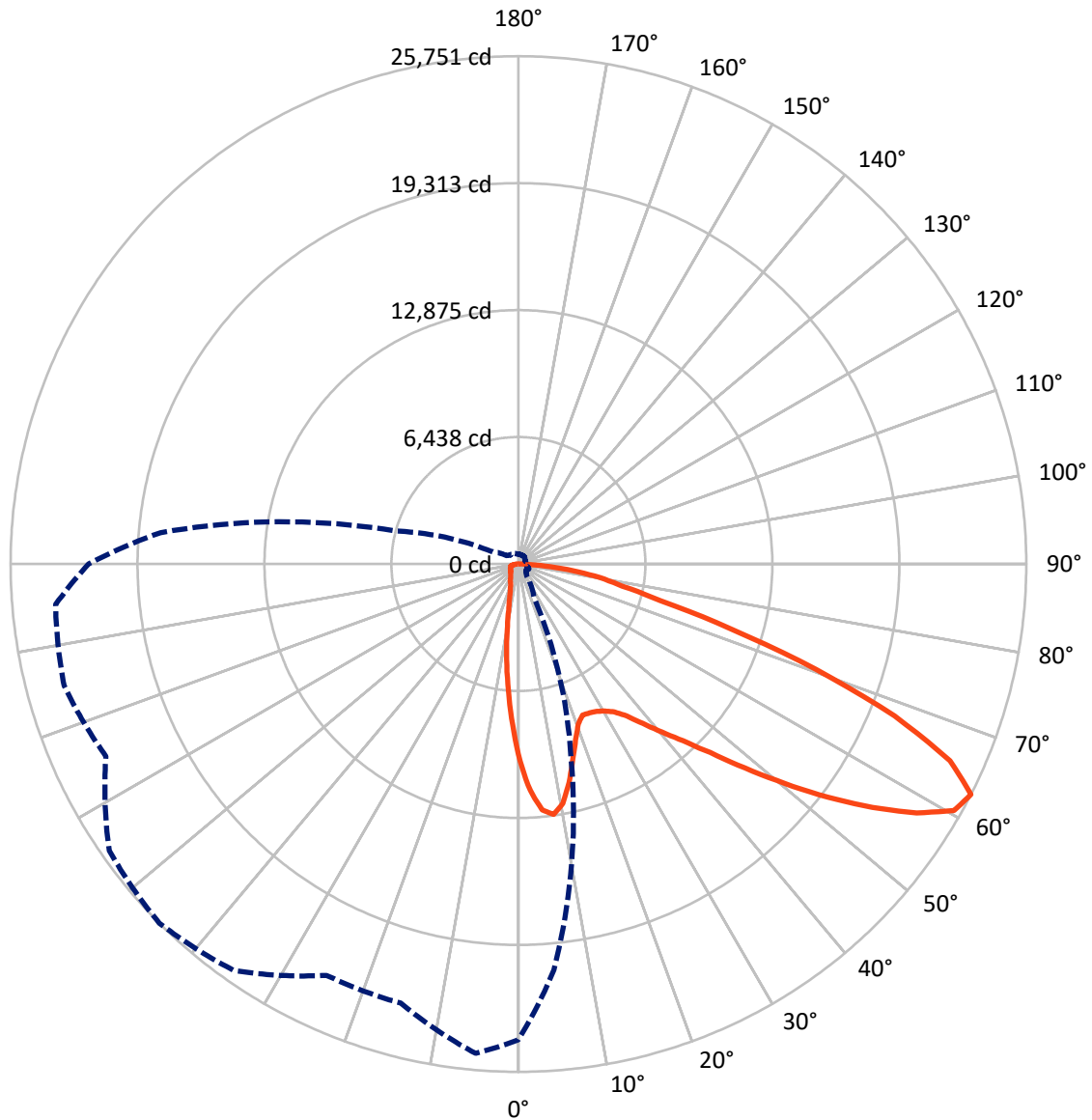


Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type IV - Short - Non-Cutoff

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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	4904.8	0.0	4904.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	24734.0	0.0	24734.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	29638.8	0.0	29638.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	728.9	2.5
10°-20°	1336.7	4.5
20°-30°	1948.9	6.6
30°-40°	3001.6	10.1
40°-50°	4417.5	14.9
50°-60°	6479.5	21.9
60°-70°	7243.2	24.4
70°-80°	3546.2	12.0
80°-90°	936.3	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°	29638.8	100.0
0°-180°	29638.8	100.0



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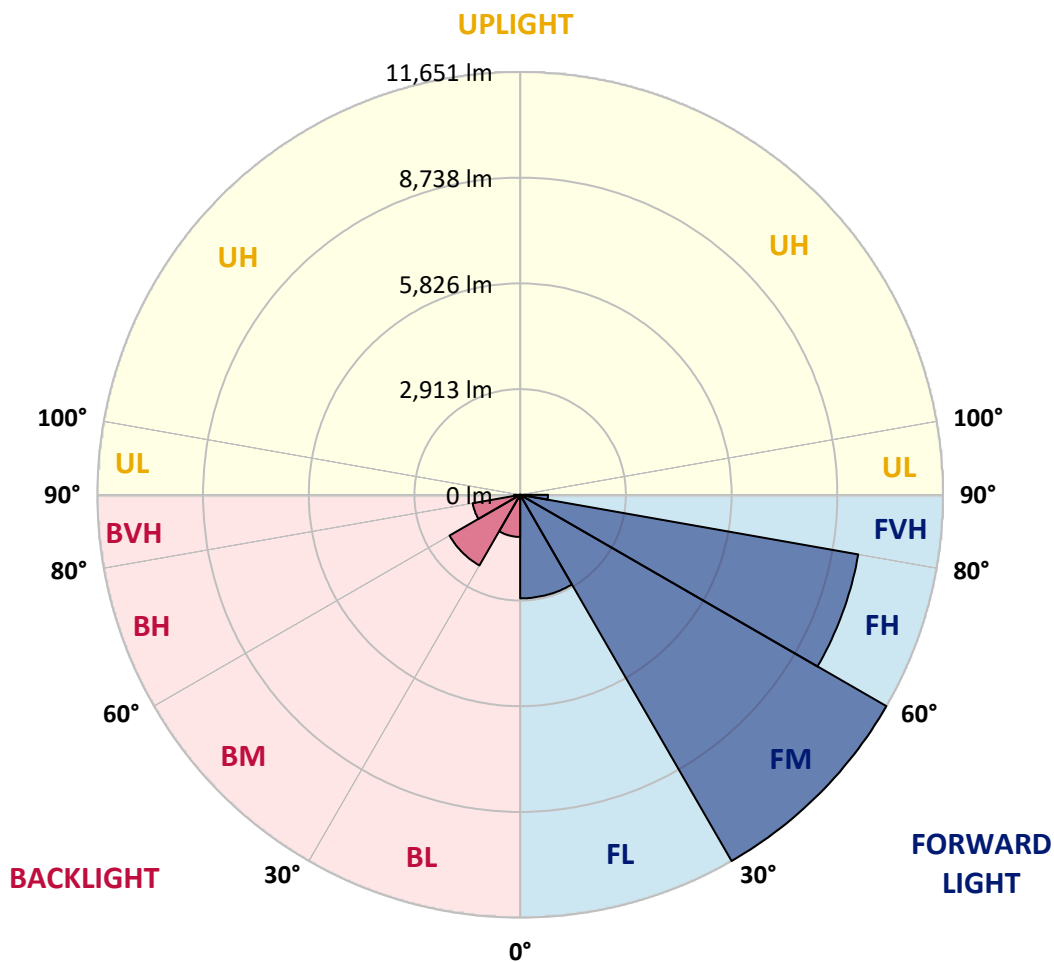
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2854.1	9.6			
FM	(30°-60°)	11651.3	39.3			
FH	(60°-80°)	9459.7	31.9			G4/12000
FVH	(80°-90°)	768.9	2.6			G5
BL	(0°-30°)	1160.4	3.9	B3/2500		
BM	(30°-60°)	2247.4	7.6	B2/2500		
BH	(60°-80°)	1329.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	167.4	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°	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5
2.5°	10404.6	10192.8	9840.8	9474.2	9251.0	8990.3	8786.7	8607.5	8249.0	8179.0	8242.6
5°	9783.8	9358.6	8695.6	8027.4	7582.8	7105.4	6733.9	6435.6	5981.2	5901.2	5997.4
7.5°	8788.4	8279.9	7403.6	6551.3	5922.4	5326.1	4925.3	4606.0	4250.8	4097.7	4107.4
10°	7929.7	7356.2	6319.9	5393.0	4878.1	4475.6	4138.4	3810.9	3450.7	3214.6	3149.4
12.5°	7449.0	6789.2	5595.0	4767.2	4289.9	3866.2	3503.0	3152.6	2768.1	2527.0	2458.7
15°	7366.0	6649.2	5322.8	4366.5	3768.5	3232.6	2804.0	2412.9	2017.1	1821.6	1780.8
17.5°	7726.1	6900.1	5235.0	4009.7	3278.2	2616.7	2090.4	1653.7	1331.1	1233.4	1225.2
20°	8416.8	7382.4	5223.5	3674.1	2794.2	2018.8	1456.6	1139.0	997.1	969.5	971.1
22.5°	9386.3	8130.1	5363.6	3421.6	2349.4	1505.5	1094.9	953.1	897.8	871.6	871.6
25°	10640.9	9159.8	5686.2	3237.4	1963.2	1202.4	966.1	881.4	829.3	811.3	814.7
27.5°	11856.3	10161.8	6061.0	3092.3	1710.7	1091.6	915.6	839.0	793.5	775.5	783.7
30°	12804.5	11051.4	6373.7	2895.2	1582.1	1060.7	933.6	855.4	790.1	762.5	764.2
32.5°	13589.9	11830.1	6636.0	2753.5	1468.0	909.2	804.9	770.7	762.5	730.0	713.7
35°	14593.4	12679.0	6812.0	2756.8	1414.2	811.3	716.8	656.7	612.6	575.2	575.2
37.5°	15769.8	13653.3	6999.5	2794.2	1394.7	754.3	685.9	625.6	584.8	549.0	542.5
40°	16933.1	14608.1	7170.5	2830.1	1383.3	720.1	661.5	606.0	568.5	532.8	523.1
42.5°	17922.2	15393.4	7323.6	2847.9	1344.1	716.8	643.5	593.1	557.2	518.1	508.4
45°	18653.7	16051.8	7488.2	2875.7	1305.1	730.0	643.5	591.4	547.4	510.0	500.1
47.5°	19307.0	16823.9	7763.5	2875.7	1257.7	705.4	664.7	593.1	545.8	506.7	498.6
50°	20182.0	17883.0	8284.9	2808.9	1191.1	679.4	700.6	586.6	531.2	500.1	490.5
52.5°	21387.6	19240.2	9112.5	2693.2	1088.3	629.0	695.6	583.3	516.4	483.8	472.5
55°	22813.3	20693.5	10015.3	2558.0	935.2	593.1	671.3	575.2	500.1	464.3	452.9
57.5°	23926.0	21693.9	10650.7	2349.4	801.6	573.5	594.7	567.0	480.7	443.1	433.4
60°	24369.2	21654.8	10824.9	2070.9	736.4	557.2	519.7	635.5	464.3	426.9	415.5
62.5°	24129.7	20654.4	10336.2	1875.3	721.8	536.0	487.2	588.2	451.3	415.5	399.1
65°	23023.4	18881.7	9040.9	1823.2	764.2	514.9	466.0	461.1	433.4	399.1	382.9
67.5°	20613.6	16232.6	7238.9	1828.1	817.8	493.7	444.8	421.9	409.0	381.2	366.6
70°	16789.9	12833.8	5396.2	1841.0	845.7	469.3	421.9	397.5	382.9	355.2	345.4
72.5°	12345.0	9891.3	3920.1	1756.4	850.4	441.5	391.0	369.8	355.2	325.8	317.7
75°	8446.3	7566.5	2719.3	1455.0	741.3	402.4	356.7	337.3	327.5	291.6	286.7
77.5°	6170.1	5679.7	1740.0	1080.2	572.0	353.6	314.4	299.8	293.2	254.2	247.7
80°	4951.4	4493.5	1088.3	739.8	418.7	296.5	263.9	255.7	249.3	210.2	205.4
82.5°	3434.5	3009.3	699.1	480.7	314.4	229.7	208.5	205.4	195.6	159.7	154.8
85°	1811.7	1634.1	443.1	327.5	228.1	158.0	144.9	144.9	140.1	105.9	102.6
87.5°	231.4	376.4	224.8	171.0	125.5	70.1	70.1	68.5	73.3	60.2	52.1
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°	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5
2.5°	8092.7	8170.9	8096.0	8100.7	8183.9	8431.5	8544.0	8636.8	8736.2	8801.5	8830.7
5°	5865.5	6047.8	6109.8	6240.2	6432.5	6748.4	6873.9	6965.2	7025.5	7061.2	7075.9
7.5°	4011.3	4122.1	4245.8	4456.1	4874.8	5060.5	5143.6	5122.4	5054.0	5029.6	5005.1
10°	3024.0	2979.9	2957.1	3072.8	3411.8	3599.1	3657.8	3600.8	3563.2	3571.4	3612.2
12.5°	2342.9	2266.3	2173.4	2160.5	2383.7	2551.5	2588.9	2592.1	2660.6	2720.8	2810.4
15°	1707.5	1699.4	1653.7	1626.0	1753.1	1889.9	1906.3	1935.6	1997.6	2041.5	2119.7
17.5°	1204.1	1248.0	1283.9	1301.9	1397.9	1495.7	1477.7	1463.1	1451.8	1451.8	1489.2
20°	971.1	1000.4	1045.9	1098.2	1196.0	1264.4	1220.3	1161.7	1119.3	1106.4	1111.2
22.5°	874.9	897.8	923.7	969.5	1057.5	1104.6	1057.5	1015.1	972.7	958.0	953.1
25°	826.0	855.4	879.8	914.0	979.2	1011.9	966.1	935.2	909.2	891.2	878.3
27.5°	798.4	824.5	830.9	847.2	902.6	931.9	909.2	896.1	879.8	863.5	847.2
30°	768.9	764.2	752.7	754.3	798.4	827.7	826.0	829.3	827.7	822.8	819.6
32.5°	702.2	692.5	682.7	692.5	733.1	759.2	760.9	767.4	767.4	765.7	778.8
35°	584.8	602.9	614.3	643.5	692.5	715.3	705.4	689.2	659.9	641.8	640.3
37.5°	540.9	544.2	563.7	604.5	658.2	679.4	664.7	627.2	607.8	604.5	609.3
40°	519.7	523.1	534.4	572.0	625.6	646.8	633.8	606.0	588.2	586.6	594.7
42.5°	505.0	508.4	514.9	540.9	584.8	610.9	612.6	593.1	572.0	573.5	581.7
45°	496.9	498.6	496.9	510.0	550.8	581.7	594.7	581.7	563.7	567.0	576.7
47.5°	495.2	490.5	483.8	487.2	529.6	560.5	576.7	572.0	563.7	567.0	575.2
50°	488.8	477.4	469.3	467.6	510.0	542.5	557.2	557.2	560.5	567.0	575.2
52.5°	469.3	456.2	456.2	451.3	496.9	527.8	537.6	539.3	544.2	555.6	567.0
55°	444.8	439.9	444.8	436.7	487.2	516.4	521.3	524.6	527.8	537.6	554.0
57.5°	423.6	417.2	428.5	425.3	478.9	505.0	505.0	511.6	511.6	524.6	537.6
60°	412.2	399.1	404.1	407.3	467.6	495.2	492.0	498.6	501.9	513.2	523.1
62.5°	397.5	386.1	386.1	394.3	454.5	480.7	478.9	483.8	496.9	500.1	510.0
65°	379.7	374.8	369.8	379.7	441.5	464.3	466.0	472.5	483.8	487.2	495.2
67.5°	361.7	363.4	353.6	363.4	430.1	448.1	448.1	461.1	466.0	472.5	480.7
70°	342.2	343.8	335.6	347.0	421.9	430.1	428.5	446.4	449.7	454.5	462.6
72.5°	317.7	317.7	314.4	330.8	409.0	412.2	409.0	423.6	425.3	430.1	433.4
75°	291.6	291.6	288.4	311.3	400.9	392.6	382.9	394.3	397.5	400.9	400.9
77.5°	257.5	260.7	260.7	288.4	373.1	384.6	352.0	358.5	363.4	364.9	360.1
80°	215.1	223.1	226.5	262.3	312.8	355.2	314.4	319.3	321.0	321.0	314.4
82.5°	164.6	179.2	187.3	226.5	239.5	298.1	273.8	278.7	273.8	263.9	260.7
85°	114.1	133.6	143.4	172.7	180.9	229.7	228.1	228.1	218.3	205.4	203.6
87.5°	62.0	73.3	79.8	102.6	123.8	154.8	167.9	163.0	154.8	146.7	148.3
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°	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5
2.5°	8983.9	9205.4	9559.0	9829.4	10101.6	10363.8	10647.4	10864.0	11048.2	11119.8	11338.1
5°	7224.2	7501.2	7835.2	8438.0	8865.0	9335.7	9880.0	10600.1	10877.0	11260.0	11887.2
7.5°	5107.9	5358.7	5896.4	6383.5	6987.9	7654.4	8389.2	9383.1	9746.4	10360.6	11382.2
10°	3814.2	4105.9	4537.6	4948.1	5480.9	6162.0	7005.9	8117.1	8558.6	9225.1	10401.4
12.5°	3072.8	3416.7	3874.4	4260.7	4672.9	5153.4	5973.0	7191.7	7783.0	8366.4	9555.7
15°	2360.8	2720.8	3146.1	3636.6	4091.2	4609.3	5467.9	6800.6	7481.7	8089.3	9104.4
17.5°	1634.1	1942.0	2478.2	2989.6	3571.4	4234.5	5327.8	6883.7	7696.8	8397.4	9182.7
20°	1158.5	1334.4	1774.3	2367.4	3092.3	3925.0	5301.6	7320.4	8377.8	9177.8	9684.4
22.5°	974.3	1039.5	1295.3	1839.5	2676.9	3693.7	5393.0	7933.0	9296.6	10318.2	10484.5
25°	888.0	927.1	1060.7	1443.5	2307.0	3525.8	5700.9	8845.4	10434.0	11458.8	11429.5
27.5°	840.8	881.4	969.5	1218.7	2028.5	3421.6	6008.9	9927.2	11734.1	12697.1	12332.0
30°	826.0	881.4	974.3	1148.7	1829.7	3257.0	6261.4	10877.0	12734.6	13532.8	12742.6
32.5°	814.7	822.8	865.2	990.7	1640.7	3064.7	6432.5	11729.2	13713.6	14328.0	13334.0
35°	658.2	699.1	767.4	888.0	1530.0	2949.0	6432.5	12464.1	14678.2	15131.1	13897.8
37.5°	633.8	669.6	730.0	832.5	1468.0	2892.0	6303.6	13172.7	15663.9	16041.9	14362.1
40°	620.8	650.1	707.1	790.1	1441.9	2826.7	6116.3	13798.3	16626.9	16954.3	14795.5
42.5°	610.9	637.1	690.8	764.2	1407.7	2755.1	5964.7	14300.2	17462.6	17733.1	15209.4
45°	606.0	633.8	692.5	777.2	1339.3	2660.6	5914.4	14842.8	18150.3	18383.3	15657.4
47.5°	606.0	638.6	700.6	804.9	1257.7	2562.9	6072.4	15558.0	18800.3	18914.4	16185.3
50°	601.1	637.1	723.5	777.2	1139.0	2439.1	6443.8	16459.0	19504.2	19517.1	16853.3
52.5°	591.4	633.8	778.8	760.9	1002.0	2276.1	6945.6	17615.9	20545.2	20623.5	17899.3
55°	580.0	629.0	764.2	723.5	889.6	2082.2	7356.2	19021.9	22008.4	22225.1	19437.3
57.5°	565.4	622.3	739.8	671.3	816.3	1832.9	7504.5	20051.5	23029.8	23574.1	21171.0
60°	552.3	617.5	668.0	640.3	770.7	1622.8	7217.7	19848.0	22959.9	24133.0	22707.4
62.5°	539.3	622.3	609.3	620.8	749.5	1487.6	6468.2	18217.0	21798.2	23556.2	23846.1
65°	524.6	578.4	575.2	604.5	744.5	1433.8	5362.0	15771.5	19553.0	21733.1	24115.0
67.5°	505.0	534.4	550.8	583.3	760.9	1386.5	4327.3	13009.9	16433.0	19000.7	22713.9
70°	483.8	508.4	526.2	557.2	751.2	1365.3	3599.1	10259.6	13039.2	15572.7	19948.9
72.5°	456.2	477.4	493.7	523.1	741.3	1353.9	3040.3	8262.2	9734.9	11568.0	16219.4
75°	423.6	443.1	454.5	483.8	710.4	1239.9	2390.2	6991.2	7284.5	8047.0	12918.5
77.5°	386.1	400.9	410.5	443.1	629.0	1031.3	1728.7	5393.0	5656.8	5842.5	9904.4
80°	342.2	356.7	361.7	392.6	521.3	806.5	1127.5	3983.7	4231.2	4273.5	6468.2
82.5°	291.6	306.3	306.3	335.6	426.9	580.0	739.8	2729.1	2777.9	2921.3	4571.7
85°	234.5	246.0	246.0	260.7	330.8	433.4	508.4	1370.3	1355.5	1547.8	3960.7
87.5°	167.9	176.0	184.2	187.3	236.3	286.7	306.3	417.2	275.3	316.1	2543.3
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: P269734

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7027-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5
2.5°	11502.7	11595.6	11501.1	11432.6	11137.7	10895.1	10570.7	10404.6
5°	12364.6	12600.9	12521.0	12234.2	11618.4	10925.9	10139.0	9783.8
7.5°	12260.3	12809.4	12822.4	12286.4	11378.9	10359.0	9293.4	8788.4
10°	11449.0	12151.3	12351.5	11831.8	10869.0	9728.5	8506.5	7929.7
12.5°	10543.0	11230.6	11383.9	11204.6	10399.7	9254.2	8014.5	7449.0
15°	9801.8	10109.7	10292.2	10448.5	9997.2	9065.3	7986.7	7366.0
17.5°	9350.5	9316.2	9368.3	9640.5	9717.1	9282.0	8410.3	7726.1
20°	9187.5	8664.5	8651.4	9026.2	9585.0	9798.5	9238.0	8416.8
22.5°	9277.2	8430.0	8322.3	8767.2	9655.2	10543.0	10323.1	9386.3
25°	9586.7	8449.5	8363.1	8793.2	9909.4	11336.6	11494.6	10640.9
27.5°	10073.9	8573.2	8459.2	8900.8	10246.5	12003.0	12648.1	11856.3
30°	10536.6	8788.4	8646.6	9112.5	10554.5	12266.9	13355.2	12804.5
32.5°	11098.6	9190.7	8941.5	9502.0	10935.7	12687.2	13985.8	13589.9
35°	11649.4	9764.2	9454.8	10103.1	11361.0	13210.2	14706.0	14593.4
37.5°	12253.8	10513.8	10257.9	10880.4	11942.6	13704.0	15624.8	15769.8
40°	12899.0	11507.6	11204.6	12014.3	12845.3	14323.0	16584.5	16933.1
42.5°	13549.1	12610.6	12249.0	13070.1	13837.5	14934.1	17405.6	17922.2
45°	14293.7	13808.1	13637.1	14525.1	14790.7	15515.6	18011.7	18653.7
47.5°	15160.4	15167.1	15442.4	15797.6	15751.9	16174.0	18621.1	19307.0
50°	16172.2	16863.2	17470.7	17707.0	16742.5	16880.9	19466.7	20182.0
52.5°	17387.8	18891.5	19644.2	19489.4	17809.6	17744.5	20806.0	21387.6
55°	18907.9	21038.9	21786.8	21676.0	19036.5	18920.9	22474.3	22813.3
57.5°	20667.5	23119.5	23807.2	23308.5	20509.5	20211.2	23854.3	23926.0
60°	22213.6	24768.3	25371.2	24818.9	21995.3	21584.7	24716.2	24369.2
62.5°	23074.0	25327.3	25750.9	25156.1	23013.6	23047.9	24905.1	24129.7
65°	22689.4	23914.6	24051.5	24002.6	22751.4	23896.7	24225.9	23023.4
67.5°	20584.4	20343.2	20573.0	20890.7	20502.8	22779.0	22344.0	20613.6
70°	16876.1	15551.5	16009.4	16222.9	16398.6	19601.9	19393.4	16789.9
72.5°	12718.3	10895.1	11256.8	11212.7	12027.3	15722.6	15082.3	12345.0
75°	9011.5	7387.2	7432.8	7414.9	8392.4	12301.1	10921.1	8446.3
77.5°	6305.4	5352.2	5376.6	5477.7	5642.3	9277.2	7802.7	6170.1
80°	4335.5	4061.7	4197.1	4205.1	3910.3	6232.0	5764.5	4951.4
82.5°	3229.2	2823.6	2790.9	2838.3	3064.7	5049.2	4430.0	3434.5
85°	2644.3	1671.7	1344.1	1684.7	2716.0	5000.2	2942.5	1811.7
87.5°	1489.2	793.5	358.5	664.7	1083.4	3310.8	850.4	231.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)