

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: P269735

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269735  
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-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 800mA 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: 36344.3 lumens  
Efficiency: N/A  
Efficacy: 86.7 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): 419  
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

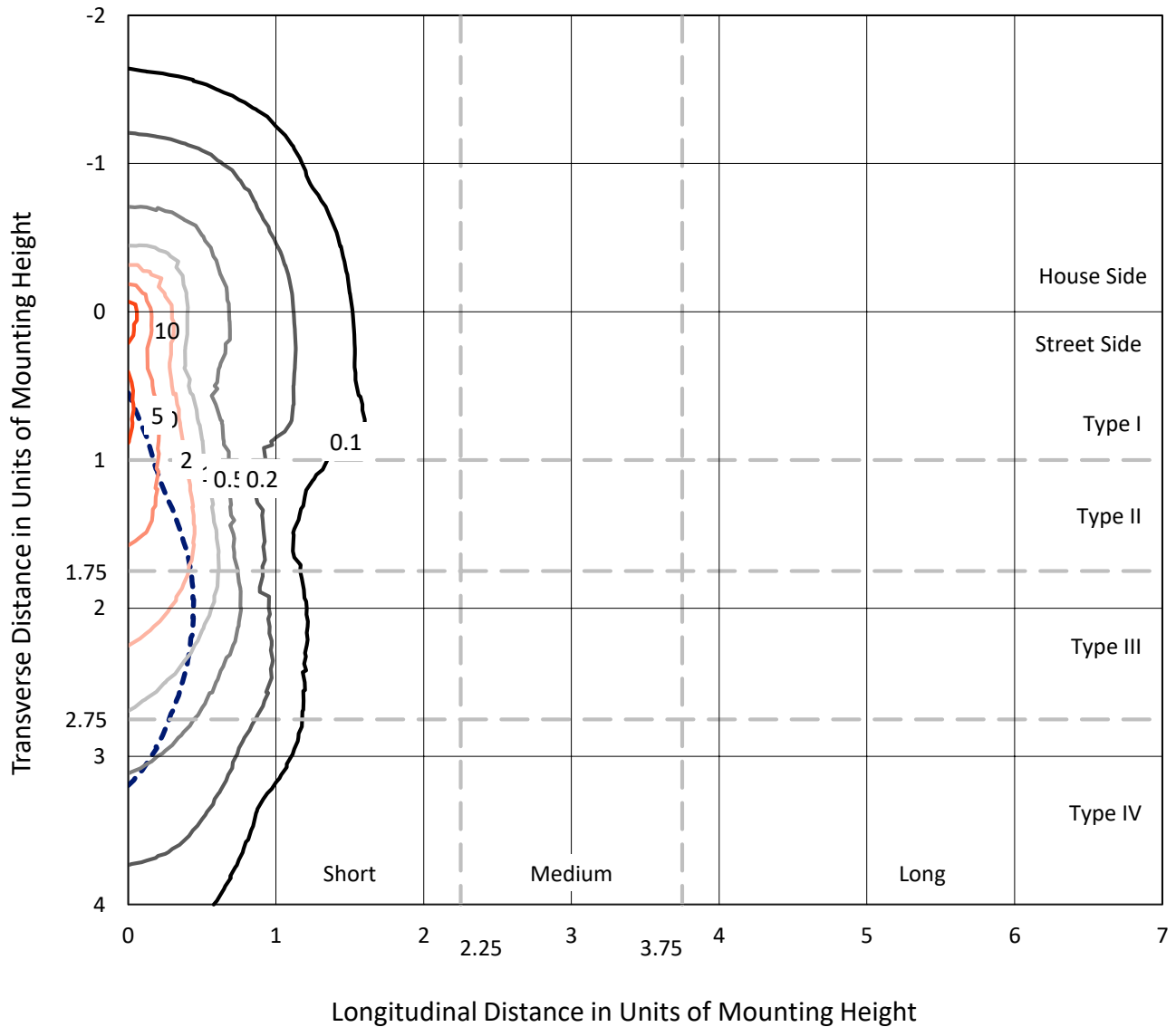


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### Iso-Footcandle Lines of Horizontal Illumination

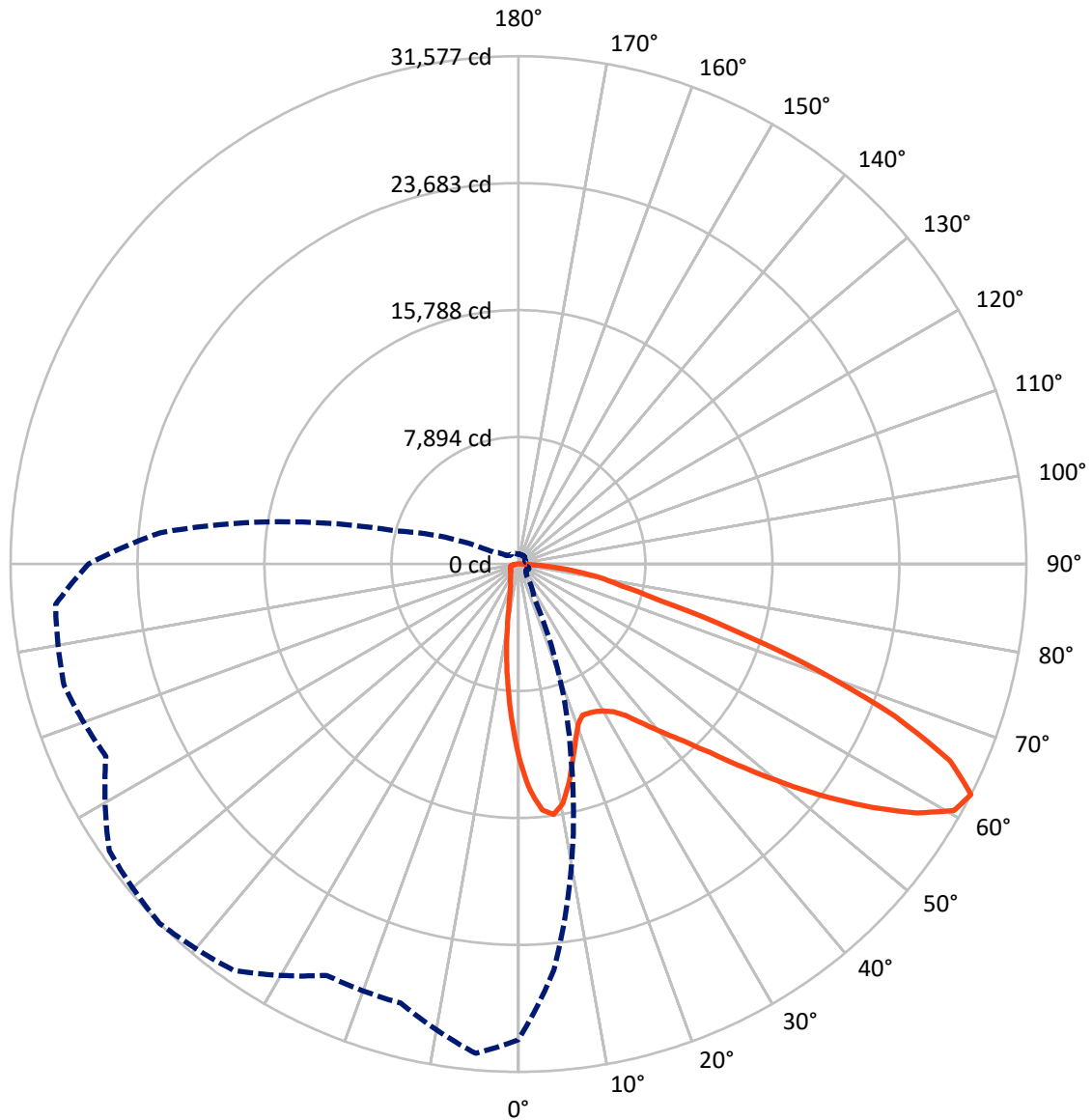
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.6 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	6014.5	0.0	6014.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	30329.8	0.0	30329.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	36344.3	0.0	36344.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	893.9	2.5
10°-20°	1639.1	4.5
20°-30°	2389.8	6.6
30°-40°	3680.6	10.1
40°-50°	5416.9	14.9
50°-60°	7945.5	21.9
60°-70°	8881.9	24.4
70°-80°	4348.5	12.0
80°-90°	1148.1	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°	36344.3	100.0
0°-180°	36344.3	100.0



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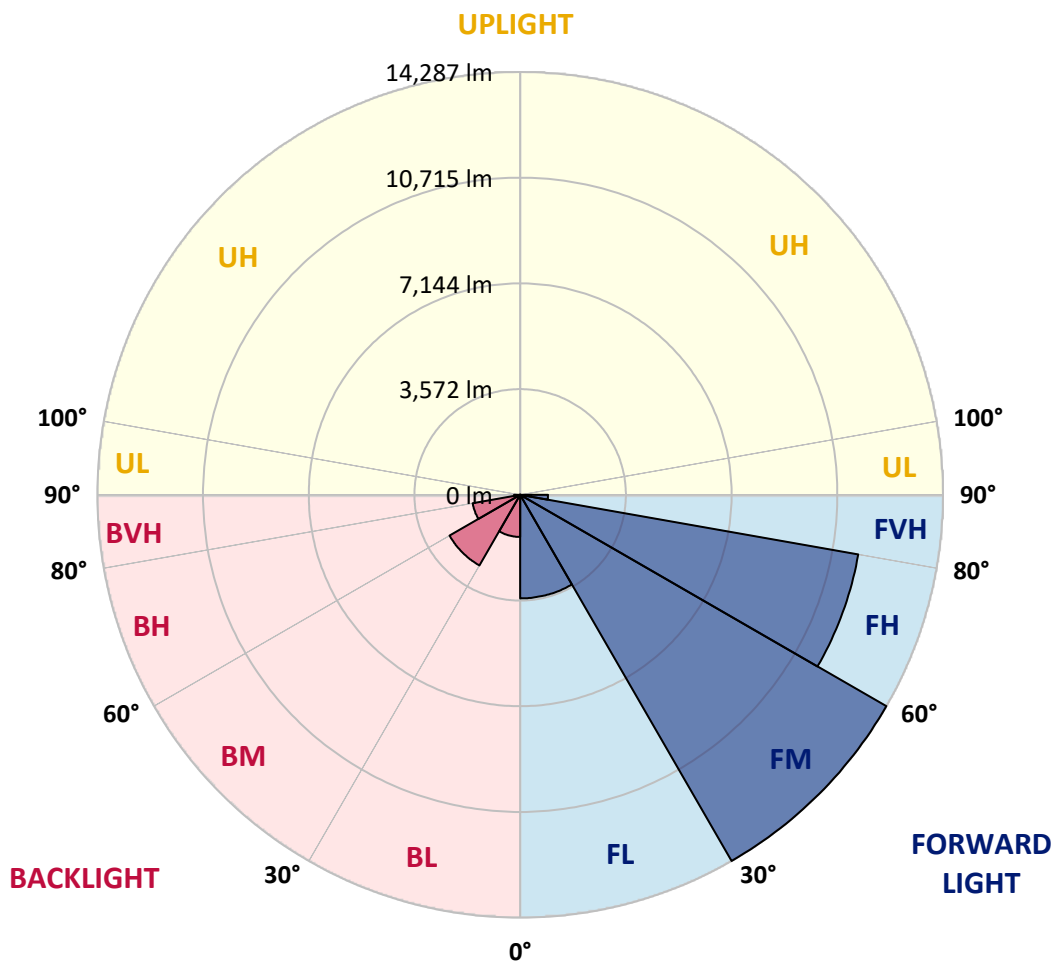
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3499.8	9.6			
FM (30°-60°)	14287.3	39.3			
FH (60°-80°)	11599.8	31.9			G4/12000
FVH (80°-90°)	942.9	2.6			G5
BL (0°-30°)	1422.9	3.9	B3/2500		
BM (30°-60°)	2755.8	7.6	B3/5000		
BH (60°-80°)	1630.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	205.2	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°	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0
2.5°	12758.5	12498.7	12067.3	11617.7	11344.1	11024.4	10774.6	10554.8	10115.4	10029.4	10107.3
5°	11997.4	11475.8	10662.7	9843.5	9298.1	8712.8	8257.3	7891.7	7334.2	7236.3	7354.2
7.5°	10776.6	10153.4	9078.5	8033.5	7262.3	6531.0	6039.7	5648.1	5212.5	5024.7	5036.6
10°	9723.8	9020.5	7749.8	6613.1	5981.8	5488.3	5074.6	4673.1	4231.6	3941.9	3862.0
12.5°	9134.3	8325.2	6860.7	5845.8	5260.5	4741.1	4295.4	3865.9	3394.4	3098.8	3014.8
15°	9032.5	8153.3	6527.2	5354.3	4621.2	3963.9	3438.4	2958.8	2473.5	2233.6	2183.7
17.5°	9474.1	8461.0	6419.2	4916.9	4019.7	3208.7	2563.4	2027.8	1632.3	1512.3	1502.4
20°	10321.2	9052.5	6405.3	4505.3	3426.3	2475.4	1786.1	1396.5	1222.8	1188.7	1190.8
22.5°	11509.9	9969.5	6577.1	4195.5	2881.0	1846.0	1342.5	1168.8	1100.9	1068.9	1068.9
25°	13048.2	11232.1	6972.6	3969.8	2407.5	1474.5	1184.8	1080.9	1016.9	995.0	998.9
27.5°	14538.7	12460.8	7432.1	3791.9	2097.8	1338.6	1122.8	1028.9	973.0	950.9	960.9
30°	15701.5	13551.7	7815.8	3550.2	1940.0	1300.7	1144.8	1049.0	969.0	935.0	937.0
32.5°	16664.4	14506.6	8137.4	3376.4	1800.2	1114.8	987.0	944.9	935.0	895.0	875.0
35°	17895.1	15547.7	8353.2	3380.4	1734.2	995.0	879.1	805.2	751.3	705.3	705.3
37.5°	19337.6	16742.3	8582.9	3426.3	1710.3	925.1	841.2	767.2	717.2	673.3	665.4
40°	20764.1	17913.1	8792.7	3470.3	1696.2	883.0	811.1	743.2	697.3	653.2	641.3
42.5°	21976.9	18876.1	8980.5	3492.3	1648.3	879.1	789.3	727.3	683.3	635.3	623.3
45°	22873.9	19683.2	9182.4	3526.2	1600.3	895.0	789.3	725.2	671.4	625.3	613.4
47.5°	23675.0	20630.3	9520.0	3526.2	1542.4	865.1	815.1	727.3	669.2	621.4	611.3
50°	24747.9	21928.9	10159.3	3444.5	1460.5	833.1	859.0	719.3	651.4	613.4	601.3
52.5°	26226.3	23593.2	11174.1	3302.4	1334.6	771.1	853.1	715.2	633.3	593.4	579.3
55°	27974.5	25375.2	12281.1	3136.7	1146.7	727.3	823.1	705.3	613.4	569.3	555.4
57.5°	29339.1	26602.0	13060.2	2881.0	982.9	703.3	729.2	695.3	589.4	543.5	531.4
60°	29882.5	26554.0	13274.1	2539.2	903.1	683.3	637.3	779.2	569.3	523.4	509.5
62.5°	29588.8	25327.4	12674.6	2299.7	885.1	657.3	597.4	721.2	553.4	509.5	489.4
65°	28232.2	23153.5	11086.3	2235.6	937.0	631.2	571.4	565.5	531.4	489.4	469.5
67.5°	25277.3	19905.1	8876.6	2241.6	1003.0	605.4	545.5	517.5	501.4	467.5	449.5
70°	20588.3	15737.3	6617.1	2257.6	1037.0	575.4	517.5	487.5	469.5	435.6	423.6
72.5°	15138.1	12129.3	4806.9	2153.7	1042.9	541.4	479.4	453.6	435.6	399.6	389.5
75°	10357.1	9278.2	3334.5	1784.2	909.1	493.4	437.6	413.6	401.6	357.6	351.6
77.5°	7566.1	6964.6	2133.7	1324.6	701.2	433.5	385.6	367.5	359.6	311.7	303.6
80°	6071.6	5510.3	1334.6	907.1	513.4	363.6	323.7	313.7	305.7	257.8	251.7
82.5°	4211.6	3690.1	857.2	589.4	385.6	281.7	255.7	251.7	239.8	195.8	189.8
85°	2221.7	2003.8	543.5	401.6	279.7	193.9	177.9	177.9	171.8	129.8	125.9
87.5°	283.8	461.5	275.7	209.8	153.8	85.9	85.9	83.9	89.9	73.9	63.9
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°	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0
2.5°	9923.5	10019.4	9927.4	9933.5	10035.4	10339.1	10476.9	10590.8	10712.6	10792.6	10828.6
5°	7192.4	7416.1	7492.1	7651.9	7887.7	8275.2	8429.1	8540.9	8614.9	8658.9	8676.9
7.5°	4918.8	5054.7	5206.4	5464.2	5977.7	6205.4	6307.4	6281.4	6197.4	6167.6	6137.5
10°	3708.2	3654.1	3626.2	3768.0	4183.5	4413.4	4485.2	4415.3	4369.4	4379.3	4429.4
12.5°	2873.0	2779.0	2665.2	2649.2	2922.9	3128.6	3174.7	3178.7	3262.6	3336.5	3446.3
15°	2093.8	2083.8	2027.8	1993.9	2149.7	2317.5	2337.5	2373.5	2449.4	2503.3	2599.2
17.5°	1476.5	1530.4	1574.3	1596.3	1714.1	1834.1	1812.2	1794.2	1780.1	1780.1	1826.1
20°	1190.8	1226.7	1282.6	1346.6	1466.5	1550.4	1496.4	1424.5	1372.5	1356.6	1362.5
22.5°	1072.8	1100.9	1132.9	1188.7	1296.7	1354.6	1296.7	1244.7	1192.7	1174.8	1168.8
25°	1012.8	1049.0	1078.9	1120.8	1200.8	1240.6	1184.8	1146.7	1114.8	1092.9	1076.9
27.5°	979.0	1011.0	1018.9	1038.9	1106.8	1142.9	1114.8	1098.8	1078.9	1058.9	1038.9
30°	943.0	937.0	923.0	925.1	979.0	1014.9	1012.8	1016.9	1014.9	1008.9	1004.9
32.5°	861.0	849.1	837.1	849.1	899.1	931.1	933.0	941.1	941.1	939.0	955.0
35°	717.2	739.2	753.1	789.3	849.1	877.0	865.1	845.1	809.2	787.2	785.2
37.5°	663.3	667.4	691.2	741.2	807.1	833.1	815.1	769.2	745.2	741.2	747.2
40°	637.3	641.3	655.4	701.2	767.2	793.2	777.2	743.2	721.2	719.3	729.2
42.5°	619.3	623.3	631.2	663.3	717.2	749.1	751.3	727.3	701.2	703.3	713.3
45°	609.4	611.3	609.4	625.3	675.3	713.3	729.2	713.3	691.2	695.3	707.2
47.5°	607.3	601.3	593.4	597.4	649.4	687.3	707.2	701.2	691.2	695.3	705.3
50°	599.3	585.3	575.4	573.4	625.3	665.4	683.3	683.3	687.3	695.3	705.3
52.5°	575.4	559.5	559.5	553.4	609.4	647.3	659.3	661.3	667.4	681.3	695.3
55°	545.5	539.4	545.5	535.4	597.4	633.3	639.4	643.4	647.3	659.3	679.3
57.5°	519.5	511.5	525.5	521.5	587.4	619.3	619.3	627.3	627.3	643.4	659.3
60°	505.4	489.4	495.4	499.5	573.4	607.3	603.3	611.3	615.3	629.4	641.3
62.5°	487.5	473.4	473.4	483.5	557.4	589.4	587.4	593.4	609.4	613.4	625.3
65°	465.5	459.6	453.6	465.5	541.4	569.3	571.4	579.3	593.4	597.4	607.3
67.5°	443.6	445.5	433.5	445.5	527.5	549.5	549.5	565.5	571.4	579.3	589.4
70°	419.6	421.6	411.6	425.5	517.5	527.5	525.5	547.4	551.4	557.4	567.4
72.5°	389.5	389.5	385.6	405.6	501.4	505.4	501.4	519.5	521.5	527.5	531.4
75°	357.6	357.6	353.7	381.6	491.6	481.5	469.5	483.5	487.5	491.6	491.6
77.5°	315.7	319.6	319.6	353.7	457.4	471.5	431.5	439.5	445.5	447.5	441.5
80°	263.7	273.8	277.7	321.7	383.5	435.6	385.6	391.7	393.5	393.5	385.6
82.5°	201.8	219.7	229.7	277.7	293.7	365.6	335.6	341.6	335.6	323.7	319.6
85°	139.9	163.9	175.8	211.8	221.8	281.7	279.7	279.7	267.8	251.7	249.6
87.5°	75.9	89.9	97.8	125.9	151.9	189.8	205.8	199.9	189.8	179.8	181.7
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°	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0
2.5°	11016.4	11288.1	11721.7	12053.3	12387.0	12708.6	13056.2	13322.0	13547.7	13635.6	13903.3
5°	8858.6	9198.4	9607.8	10347.0	10870.5	11447.9	12115.3	12998.2	13337.9	13807.5	14576.6
7.5°	6263.4	6571.1	7230.4	7827.7	8568.9	9386.1	10287.1	11505.9	11951.4	12704.5	13957.2
10°	4677.0	5034.7	5564.1	6067.6	6720.8	7556.1	8590.9	9953.5	10494.9	11312.0	12754.6
12.5°	3768.0	4189.5	4751.0	5224.5	5730.0	6319.3	7324.3	8818.8	9544.0	10259.2	11717.6
15°	2895.0	3336.5	3858.0	4459.2	5016.8	5652.0	6704.9	8339.1	9174.3	9919.5	11164.2
17.5°	2003.8	2381.4	3038.7	3666.2	4379.3	5192.6	6533.2	8441.2	9438.0	10297.1	11260.2
20°	1420.5	1636.3	2175.8	2903.0	3791.9	4812.8	6501.2	8976.6	10273.1	11254.1	11875.5
22.5°	1194.7	1274.7	1588.4	2255.6	3282.5	4529.3	6613.1	9727.7	11400.0	12652.6	12856.5
25°	1088.8	1136.8	1300.7	1770.1	2829.0	4323.5	6990.6	10846.6	12794.5	14051.2	14015.3
27.5°	1031.0	1080.9	1188.7	1494.4	2487.3	4195.5	7368.3	12173.1	14388.8	15569.6	15122.1
30°	1012.8	1080.9	1194.7	1408.5	2243.6	3993.8	7678.0	13337.9	15615.5	16594.5	15625.5
32.5°	998.9	1008.9	1060.9	1214.7	2011.8	3758.0	7887.7	14382.9	16816.4	17569.5	16350.8
35°	807.1	857.2	941.1	1088.8	1876.0	3616.1	7887.7	15283.9	17999.0	18554.4	17042.0
37.5°	777.2	821.1	895.0	1021.0	1800.2	3546.2	7729.8	16153.0	19207.7	19671.3	17611.5
40°	761.3	797.2	867.0	969.0	1768.1	3466.3	7500.0	16920.1	20388.6	20790.1	18142.9
42.5°	749.1	781.2	847.1	937.0	1726.2	3378.4	7314.3	17535.5	21413.3	21745.0	18650.3
45°	743.2	777.2	849.1	953.0	1642.3	3262.6	7252.3	18200.7	22256.5	22542.2	19199.7
47.5°	743.2	783.2	859.0	987.0	1542.4	3142.7	7446.1	19077.8	23053.7	23193.6	19847.1
50°	737.1	781.2	887.0	953.0	1396.5	2990.8	7901.8	20182.7	23916.7	23932.7	20666.1
52.5°	725.2	777.2	955.0	933.0	1228.7	2791.0	8517.0	21601.3	25193.4	25289.4	21948.8
55°	711.3	771.1	937.0	887.0	1090.8	2553.3	9020.5	23325.4	26987.5	27253.3	23834.9
57.5°	693.2	763.2	907.1	823.1	1000.9	2247.6	9202.2	24588.0	28240.1	28907.5	25960.6
60°	677.3	757.2	819.2	785.2	944.9	1989.8	8850.7	24338.3	28154.3	29592.8	27844.7
62.5°	661.3	763.2	747.2	761.3	919.1	1824.1	7931.7	22338.4	26729.7	28885.4	29241.2
65°	643.4	709.2	705.3	741.2	913.0	1758.2	6575.1	19339.6	23976.8	26649.8	29570.8
67.5°	619.3	655.4	675.3	715.2	933.0	1700.2	5306.4	15953.2	20150.7	23299.3	27852.6
70°	593.4	623.3	645.3	683.3	921.0	1674.3	4413.4	12580.8	15989.1	19095.9	24462.1
72.5°	559.5	585.3	605.4	641.3	909.1	1660.2	3728.1	10131.4	11937.3	14185.0	19889.1
75°	519.5	543.5	557.4	593.4	871.0	1520.4	2930.9	8573.0	8932.6	9867.6	15841.3
77.5°	473.4	491.6	503.5	543.5	771.1	1264.6	2119.8	6613.1	6936.7	7164.4	12145.2
80°	419.6	437.6	443.6	481.5	639.4	988.9	1382.5	4884.9	5188.5	5240.4	7931.7
82.5°	357.6	375.6	375.6	411.6	523.4	711.3	907.1	3346.5	3406.5	3582.3	5606.1
85°	287.6	301.7	301.7	319.6	405.6	531.4	623.3	1680.2	1662.3	1897.9	4856.9
87.5°	205.8	215.8	225.7	229.7	289.8	351.6	375.6	511.5	337.7	387.6	3118.7
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: P269735

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0
2.5°	14105.1	14219.0	14103.1	14019.2	13657.7	13360.0	12962.4	12758.5
5°	15162.0	15451.7	15353.8	15002.1	14246.9	13398.0	12432.9	11997.4
7.5°	15034.2	15707.5	15723.5	15066.2	13953.4	12702.7	11396.0	10776.6
10°	14039.3	14900.2	15146.1	14508.6	13328.0	11929.4	10430.9	9723.8
12.5°	12928.3	13771.5	13959.3	13739.4	12752.6	11348.0	9827.6	9134.3
15°	12019.3	12396.9	12620.6	12812.4	12259.1	11116.3	9793.7	9032.5
17.5°	11465.8	11423.9	11487.9	11821.5	11915.5	11382.0	10313.1	9474.1
20°	11266.2	10624.9	10608.9	11068.3	11753.7	12015.3	11328.0	10321.2
22.5°	11376.0	10337.1	10205.3	10750.6	11839.5	12928.3	12658.6	11509.9
25°	11755.6	10361.1	10255.2	10782.6	12151.3	13901.4	14095.1	13048.2
27.5°	12353.0	10513.0	10373.1	10914.4	12564.8	14718.5	15509.6	14538.7
30°	12920.4	10776.6	10602.9	11174.1	12942.3	15042.1	16376.7	15701.5
32.5°	13609.6	11270.1	10964.4	11651.7	13409.9	15557.6	17149.9	16664.4
35°	14284.9	11973.4	11593.7	12389.0	13931.4	16199.0	18032.9	17895.1
37.5°	15026.2	12892.5	12578.7	13341.9	14644.6	16804.2	19159.8	19337.6
40°	15817.4	14111.1	13739.4	14732.5	15751.4	17563.5	20336.5	20764.1
42.5°	16614.5	15463.8	15020.2	16027.1	16968.2	18312.7	21343.5	21976.9
45°	17527.5	16932.2	16722.4	17811.2	18136.9	19025.9	22086.6	22873.9
47.5°	18590.5	18598.4	18936.0	19371.6	19315.6	19833.0	22833.8	23675.0
50°	19831.2	20678.2	21423.4	21713.1	20530.4	20700.2	23870.8	24747.9
52.5°	21321.5	23165.6	24088.6	23898.8	21839.0	21759.0	25513.1	26226.3
55°	23185.6	25798.9	26715.9	26579.9	23343.4	23201.6	27558.9	27974.5
57.5°	25343.3	28350.1	29193.2	28581.8	25149.5	24783.9	29251.1	29339.1
60°	27239.2	30372.0	31111.2	30433.9	26971.5	26468.1	30308.1	29882.5
62.5°	28294.2	31057.2	31576.7	30847.4	28220.3	28262.1	30539.8	29588.8
65°	27822.7	29325.1	29493.0	29433.0	27898.7	29303.2	29706.7	28232.2
67.5°	25241.4	24945.8	25227.5	25617.0	25141.5	27932.5	27399.2	25277.3
70°	20694.2	19069.8	19631.3	19893.1	20108.7	24036.7	23780.9	20588.3
72.5°	15595.6	13360.0	13803.4	13749.5	14748.5	19279.7	18494.5	15138.1
75°	11050.3	9058.5	9114.5	9092.5	10291.2	15084.1	13391.9	10357.1
77.5°	7731.8	6563.0	6593.0	6716.8	6918.7	11376.0	9567.8	7566.1
80°	5316.3	4980.7	5146.6	5156.6	4795.0	7641.9	7068.6	6071.6
82.5°	3959.8	3462.3	3422.5	3480.4	3758.0	6191.5	5432.3	4211.6
85°	3242.6	2049.8	1648.3	2065.8	3330.5	6131.6	3608.2	2221.7
87.5°	1826.1	973.0	439.5	815.1	1328.7	4059.7	1042.9	283.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)