

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: P269655

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269655  
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-09-LED-E1-SLR-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 32826.6 lumens  
Efficiency: N/A  
Efficacy: 87.8 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): 374  
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

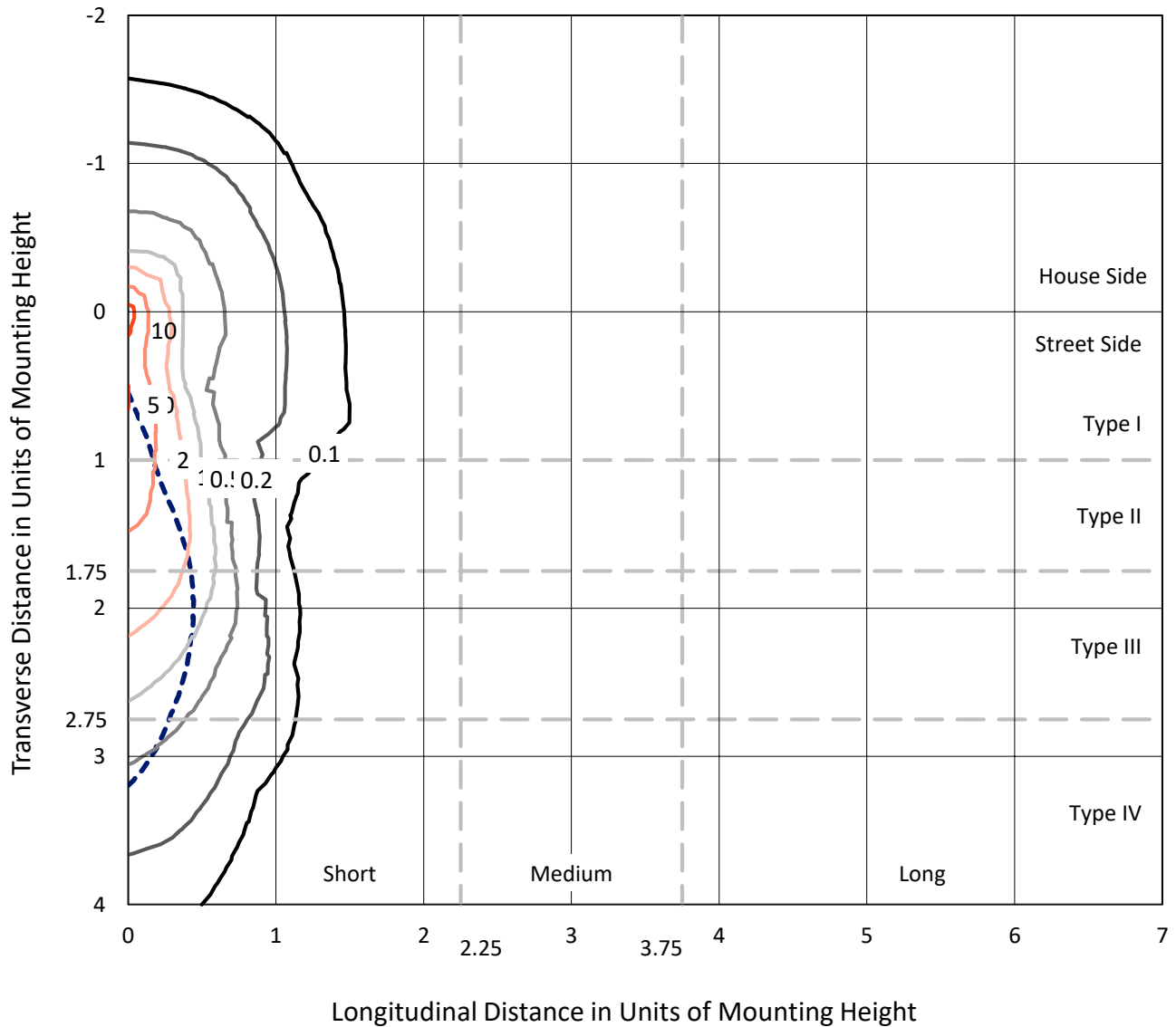


REPORT NUMBER: P269655

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-800

### Iso-Footcandle Lines of Horizontal Illumination

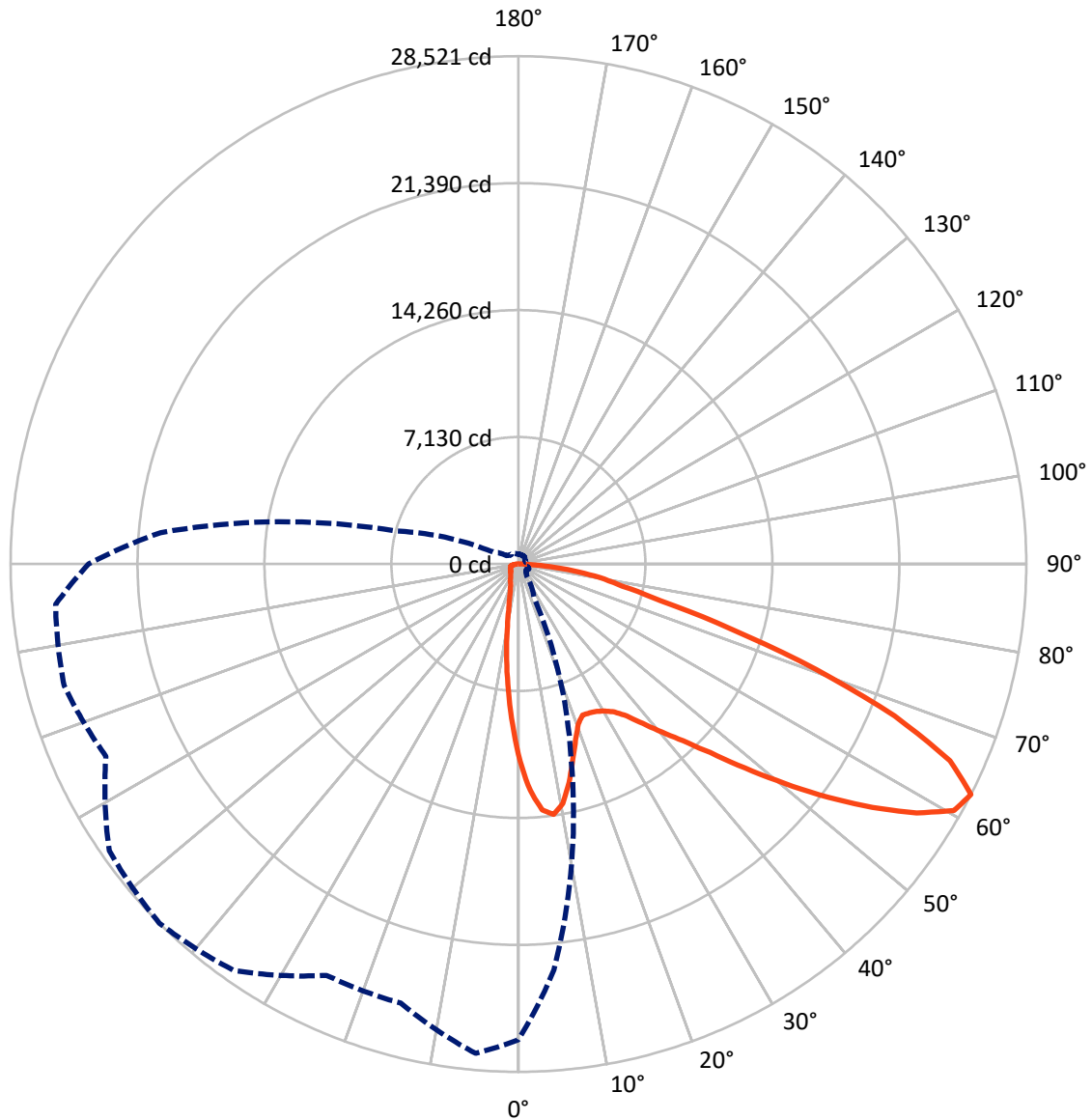
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269655  
CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269655

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5432.4	0.0	5432.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	27394.3	0.0	27394.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	32826.6	0.0	32826.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	807.3	2.5
10°-20°	1480.5	4.5
20°-30°	2158.5	6.6
30°-40°	3324.4	10.1
40°-50°	4892.6	14.9
50°-60°	7176.5	21.9
60°-70°	8022.3	24.4
70°-80°	3927.6	12.0
80°-90°	1037.0	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°	32826.6	100.0
0°-180°	32826.6	100.0



REPORT NUMBER: P269655

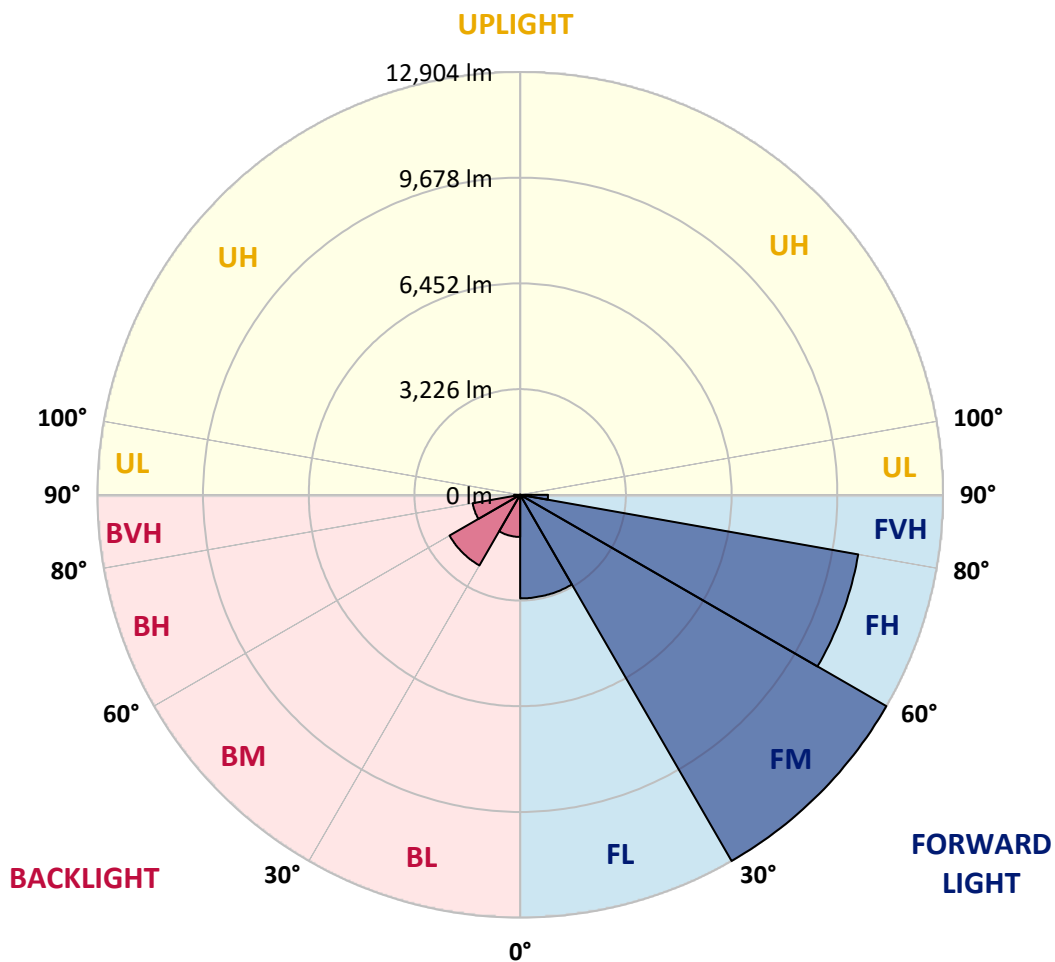
CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3161.1	9.6			
FM	(30°-60°)	12904.4	39.3			
FH	(60°-80°)	10477.1	31.9			G4/12000
FVH	(80°-90°)	851.6	2.6			G5
BL	(0°-30°)	1285.2	3.9	B3/2500		
BM	(30°-60°)	2489.1	7.6	B2/2500		
BH	(60°-80°)	1472.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	185.4	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





REPORT NUMBER: P269655

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7
2.5°	11523.6	11289.1	10899.3	10493.3	10246.1	9957.4	9731.8	9533.4	9136.3	9058.7	9129.0
5°	10836.2	10365.3	9630.8	8890.9	8398.3	7869.5	7458.1	7128.0	6624.5	6536.0	6642.4
7.5°	9733.7	9170.5	8199.8	7256.0	6559.5	5899.0	5455.0	5101.4	4707.9	4538.3	4549.1
10°	8782.5	8147.4	6999.8	5973.0	5402.8	4957.0	4583.5	4220.7	3822.0	3560.3	3488.2
12.5°	8250.3	7519.4	6196.8	5280.1	4751.3	4282.1	3879.7	3491.7	3065.8	2798.8	2723.0
15°	8158.2	7364.2	5895.3	4836.1	4173.9	3580.1	3105.6	2672.5	2234.1	2017.5	1972.4
17.5°	8557.1	7642.2	5797.9	4441.0	3630.7	2898.0	2315.2	1831.6	1474.3	1366.1	1357.0
20°	9322.3	8176.4	5785.4	4069.2	3094.8	2235.8	1613.3	1261.4	1104.3	1073.7	1075.5
22.5°	10395.8	9004.6	5940.5	3789.5	2602.1	1667.3	1212.6	1055.7	994.3	965.4	965.4
25°	11785.4	10145.0	6297.7	3585.6	2174.4	1331.7	1070.2	976.3	918.4	898.7	902.3
27.5°	13131.6	11254.9	6712.9	3425.0	1894.7	1208.9	1014.1	929.3	878.8	859.0	868.0
30°	14181.7	12240.0	7059.3	3206.6	1752.2	1174.8	1033.9	947.4	875.2	844.5	846.4
32.5°	15051.6	13102.7	7349.8	3049.7	1625.9	1006.9	891.5	853.5	844.5	808.5	790.4
35°	16163.2	14042.8	7544.8	3053.2	1566.4	898.7	794.0	727.2	678.5	637.0	637.0
37.5°	17465.9	15121.9	7752.3	3094.8	1544.6	835.6	759.6	693.0	647.8	608.2	600.8
40°	18754.5	16179.4	7941.7	3134.5	1532.0	797.5	732.7	671.3	629.8	590.0	579.2
42.5°	19849.8	17049.1	8111.3	3154.3	1488.8	794.0	712.7	656.8	617.1	573.8	563.0
45°	20659.9	17778.1	8293.6	3185.0	1445.5	808.5	712.7	655.0	606.4	564.9	554.0
47.5°	21383.7	18633.5	8598.5	3185.0	1393.1	781.3	736.3	656.8	604.5	561.3	552.2
50°	22352.6	19806.5	9175.9	3111.0	1319.2	752.5	776.0	649.7	588.3	554.0	543.1
52.5°	23687.9	21309.7	10092.6	2982.9	1205.4	696.5	770.6	646.1	572.0	536.0	523.4
55°	25266.9	22919.3	11092.5	2833.2	1035.7	656.8	743.4	637.0	554.0	514.3	501.7
57.5°	26499.5	24027.2	11796.2	2602.1	887.9	635.2	658.6	627.9	532.3	490.8	480.1
60°	26990.2	23983.9	11989.3	2293.6	815.7	617.1	575.6	703.7	514.3	472.8	460.1
62.5°	26724.9	22876.0	11447.9	2077.1	799.4	593.7	539.5	651.5	499.8	460.1	442.1
65°	25499.7	20912.6	10013.2	2019.3	846.4	570.2	516.0	510.6	480.1	442.1	424.1
67.5°	22830.9	17978.5	8017.6	2024.7	905.9	546.8	492.6	467.4	452.9	422.3	406.0
70°	18595.6	14214.2	5976.6	2039.2	936.6	519.7	467.4	440.3	424.1	393.4	382.6
72.5°	13672.9	10955.3	4341.7	1945.3	942.0	489.0	433.2	409.6	393.4	360.8	351.9
75°	9354.7	8380.2	3011.7	1611.4	821.1	445.6	395.2	373.5	362.7	323.0	317.6
77.5°	6833.8	6290.7	1927.3	1196.5	633.3	391.7	348.3	332.1	324.7	281.4	274.3
80°	5484.0	4976.9	1205.4	819.3	463.7	328.4	292.3	283.3	276.0	232.8	227.5
82.5°	3804.0	3332.9	774.1	532.3	348.3	254.4	231.0	227.5	216.5	176.8	171.4
85°	2006.6	1809.9	490.8	362.7	252.7	175.0	160.5	160.5	155.1	117.3	113.6
87.5°	256.2	416.9	249.0	189.5	139.0	77.7	77.7	75.7	81.1	66.7	57.8
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: P269655

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7
2.5°	8963.1	9049.6	8966.7	8972.1	9064.1	9338.4	9462.9	9565.8	9675.9	9748.0	9780.6
5°	6496.4	6698.4	6766.9	6911.3	7124.3	7474.3	7613.2	7714.4	7781.1	7820.9	7837.1
7.5°	4442.7	4565.5	4702.5	4935.4	5399.2	5604.9	5697.0	5673.4	5597.6	5570.6	5543.5
10°	3349.2	3300.5	3275.2	3403.3	3778.7	3986.1	4051.1	3987.9	3946.6	3955.4	4000.6
12.5°	2594.9	2510.1	2407.3	2392.7	2639.9	2825.9	2867.4	2871.1	2946.8	3013.5	3112.7
15°	1891.1	1882.0	1831.6	1800.9	1941.6	2093.2	2111.2	2143.7	2212.3	2261.0	2347.7
17.5°	1333.5	1382.2	1421.9	1441.8	1548.3	1656.6	1636.7	1620.5	1607.8	1607.8	1649.4
20°	1075.5	1108.0	1158.5	1216.2	1324.6	1400.3	1351.6	1286.6	1239.8	1225.3	1230.7
22.5°	969.0	994.3	1023.2	1073.7	1171.1	1223.5	1171.1	1124.1	1077.2	1061.1	1055.7
25°	915.0	947.4	974.4	1012.3	1084.6	1120.6	1070.2	1035.7	1006.9	987.1	972.7
27.5°	884.2	913.0	920.4	938.4	999.8	1032.2	1006.9	992.4	974.4	956.3	938.4
30°	851.8	846.4	833.6	835.6	884.2	916.7	915.0	918.4	916.7	911.3	907.6
32.5°	777.8	767.0	756.2	767.0	812.1	841.0	842.7	849.9	849.9	848.1	862.6
35°	647.8	667.7	680.2	712.7	767.0	792.1	781.3	763.3	730.9	711.0	709.2
37.5°	599.1	602.8	624.3	669.4	729.1	752.5	736.3	694.7	673.1	669.4	674.8
40°	575.6	579.2	592.0	633.3	693.0	716.4	701.9	671.3	651.5	649.7	658.6
42.5°	559.5	563.0	570.2	599.1	647.8	676.8	678.5	656.8	633.3	635.2	644.3
45°	550.4	552.2	550.4	564.9	609.9	644.3	658.6	644.3	624.3	627.9	638.9
47.5°	548.5	543.1	536.0	539.5	586.5	620.8	638.9	633.3	624.3	627.9	637.0
50°	541.4	528.7	519.7	518.0	564.9	600.8	617.1	617.1	620.8	627.9	637.0
52.5°	519.7	505.2	505.2	499.8	550.4	584.6	595.4	597.4	602.8	615.3	627.9
55°	492.6	487.2	492.6	483.6	539.5	572.0	577.4	581.1	584.6	595.4	613.5
57.5°	469.2	462.0	474.6	471.0	530.4	559.5	559.5	566.7	566.7	581.1	595.4
60°	456.6	442.1	447.5	451.0	518.0	548.5	544.9	552.2	555.8	568.4	579.2
62.5°	440.3	427.7	427.7	436.7	503.5	532.3	530.4	536.0	550.4	554.0	564.9
65°	420.4	415.0	409.6	420.4	489.0	514.3	516.0	523.4	536.0	539.5	548.5
67.5°	400.6	402.4	391.7	402.4	476.5	496.3	496.3	510.6	516.0	523.4	532.3
70°	378.9	380.7	371.7	384.4	467.4	476.5	474.6	494.4	498.0	503.5	512.6
72.5°	351.9	351.9	348.3	366.2	452.9	456.6	452.9	469.2	471.0	476.5	480.1
75°	323.0	323.0	319.3	344.7	443.9	434.9	424.1	436.7	440.3	443.9	443.9
77.5°	285.1	288.7	288.7	319.3	413.2	425.8	389.8	397.1	402.4	404.1	398.8
80°	238.2	247.3	250.8	290.5	346.4	393.4	348.3	353.8	355.5	355.5	348.3
82.5°	182.3	198.4	207.5	250.8	265.3	330.2	303.2	308.6	303.2	292.3	288.7
85°	126.3	148.0	158.8	191.2	200.3	254.4	252.7	252.7	241.9	227.5	225.6
87.5°	68.6	81.1	88.5	113.6	137.1	171.4	185.9	180.5	171.4	162.5	164.2
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: P269655

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7
2.5°	9950.2	10195.6	10587.2	10886.6	11188.0	11478.6	11792.6	12032.5	12236.5	12315.9	12557.6
5°	8001.3	8308.1	8677.9	9345.6	9818.5	10339.9	10942.7	11740.2	12047.0	12471.1	13165.7
7.5°	5657.2	5935.1	6530.6	7070.1	7739.5	8477.7	9291.4	10392.2	10794.7	11474.9	12606.5
10°	4224.4	4547.4	5025.6	5480.3	6070.4	6824.8	7759.5	8990.1	9479.2	10217.2	11520.0
12.5°	3403.3	3784.1	4291.2	4718.8	5175.3	5707.7	6615.4	7965.2	8620.2	9266.2	10583.6
15°	2614.7	3013.5	3484.5	4027.7	4531.2	5105.0	6056.0	7532.1	8286.3	8959.4	10083.7
17.5°	1809.9	2151.0	2744.7	3311.3	3955.4	4690.0	5900.7	7624.2	8524.6	9300.5	10170.3
20°	1283.0	1477.9	1965.1	2622.0	3425.0	4347.1	5872.0	8107.7	9278.9	10165.0	10726.1
22.5°	1079.1	1151.3	1434.7	2037.3	2964.9	4090.8	5973.0	8786.2	10296.6	11428.1	11612.1
25°	983.5	1026.8	1174.8	1598.9	2555.1	3905.0	6314.0	9796.7	11556.2	12691.3	12658.7
27.5°	931.2	976.3	1073.7	1349.9	2246.7	3789.5	6655.2	10995.0	12996.1	14062.6	13658.4
30°	915.0	976.3	1079.1	1272.2	2026.4	3607.2	6934.7	12047.0	14104.2	14988.4	14113.2
32.5°	902.3	911.3	958.2	1097.2	1817.1	3394.3	7124.3	12990.7	15188.7	15869.0	14768.2
35°	729.1	774.1	849.9	983.5	1694.5	3266.1	7124.3	13804.7	16256.9	16758.6	15392.5
37.5°	701.9	741.7	808.5	922.1	1625.9	3203.0	6981.6	14589.6	17348.6	17767.3	15906.8
40°	687.6	720.0	783.1	875.2	1596.9	3130.9	6774.2	15282.5	18415.2	18777.9	16386.9
42.5°	676.8	705.6	765.1	846.4	1559.1	3051.5	6606.3	15838.2	19340.9	19640.5	16845.2
45°	671.3	701.9	767.0	860.8	1483.3	2946.8	6550.4	16439.3	20102.5	20360.4	17341.5
47.5°	671.3	707.3	776.0	891.5	1393.1	2838.6	6725.5	17231.4	20822.4	20948.7	17926.1
50°	665.9	705.6	801.2	860.8	1261.4	2701.4	7136.9	18229.2	21601.9	21616.4	18666.1
52.5°	655.0	701.9	862.6	842.7	1109.8	2521.0	7692.6	19510.5	22755.1	22841.7	19824.4
55°	642.4	696.5	846.4	801.2	985.4	2306.2	8147.4	21067.8	24375.5	24615.5	21528.1
57.5°	626.2	689.3	819.3	743.4	904.1	2030.1	8311.7	22208.3	25507.0	26109.6	23448.0
60°	611.7	683.9	739.8	709.2	853.5	1797.2	7994.0	21982.8	25429.3	26728.6	25149.7
62.5°	597.4	689.3	674.8	687.6	830.0	1647.5	7164.0	20176.4	24142.7	26089.8	26411.0
65°	581.1	640.6	637.0	669.4	824.6	1587.9	5938.6	17467.8	21656.1	24070.5	26708.8
67.5°	559.5	592.0	609.9	646.1	842.7	1535.7	4792.7	14409.2	18200.4	21044.4	25156.9
70°	536.0	563.0	582.9	617.1	831.9	1512.1	3986.1	11363.1	14441.6	17247.6	22094.6
72.5°	505.2	528.7	546.8	579.2	821.1	1499.6	3367.2	9150.8	10782.0	12812.2	17964.0
75°	469.2	490.8	503.5	536.0	786.7	1373.2	2647.2	7743.2	8068.0	8912.5	14308.1
77.5°	427.7	443.9	454.7	490.8	696.5	1142.3	1914.6	5973.0	6265.3	6471.0	10969.7
80°	378.9	395.2	400.6	434.9	577.4	893.3	1248.7	4412.0	4686.4	4733.3	7164.0
82.5°	323.0	339.3	339.3	371.7	472.8	642.4	819.3	3022.5	3076.8	3235.5	5063.4
85°	259.9	272.5	272.5	288.7	366.2	480.1	563.0	1517.5	1501.3	1714.2	4386.9
87.5°	185.9	194.9	203.9	207.5	261.6	317.6	339.3	462.0	305.0	350.1	2816.8
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: P269655

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7
2.5°	12739.9	12842.8	12738.1	12662.4	12335.7	12066.8	11707.8	11523.6
5°	13694.5	13956.2	13867.8	13550.2	12868.1	12101.2	11229.5	10836.2
7.5°	13579.0	14187.1	14201.7	13608.0	12602.9	11473.2	10293.0	9733.7
10°	12680.4	13458.1	13680.1	13104.5	12037.9	10774.8	9421.5	8782.5
12.5°	11677.1	12438.7	12608.3	12409.7	11518.2	10249.8	8876.4	8250.3
15°	10855.9	11197.1	11399.2	11572.4	11072.6	10040.4	8845.8	8158.2
17.5°	10356.2	10318.3	10376.1	10677.3	10762.1	10280.4	9315.0	8557.1
20°	10175.7	9596.5	9582.0	9997.1	10616.0	10852.5	10231.6	9322.3
22.5°	10275.0	9336.7	9217.5	9710.1	10693.7	11677.1	11433.4	10395.8
25°	10617.8	9358.3	9262.7	9739.1	10975.1	12555.9	12730.9	11785.4
27.5°	11157.4	9495.4	9369.1	9858.1	11348.6	13293.9	14008.4	13131.6
30°	11669.8	9733.7	9576.7	10092.6	11689.7	13586.2	14791.8	14181.7
32.5°	12292.3	10179.4	9903.3	10524.0	12111.9	14051.8	15490.1	15051.6
35°	12902.4	10814.5	10471.6	11189.8	12583.0	14631.1	16287.6	16163.2
37.5°	13571.9	11644.5	11361.3	12050.7	13227.2	15177.9	17305.4	17465.9
40°	14286.5	12745.3	12409.7	13306.6	14226.8	15863.6	18368.3	18754.5
42.5°	15006.5	13966.9	13566.5	14475.8	15325.9	16540.2	19277.7	19849.8
45°	15831.1	15293.4	15103.8	16087.3	16381.5	17184.4	19949.0	20659.9
47.5°	16791.1	16798.3	17103.3	17496.6	17446.2	17913.6	20623.8	21383.7
50°	17911.8	18676.8	19349.9	19611.5	18543.4	18696.7	21560.5	22352.6
52.5°	19257.9	20923.4	21757.2	21585.7	19725.3	19653.1	23043.9	23687.9
55°	20941.5	23301.9	24130.1	24007.5	21084.1	20955.9	24891.7	25266.9
57.5°	22890.4	25606.1	26367.7	25815.5	22715.4	22385.1	26420.1	26499.5
60°	24602.9	27432.4	28100.1	27488.3	24361.0	23906.4	27374.6	26990.2
62.5°	25555.6	28051.4	28520.5	27861.8	25488.9	25526.7	27584.0	26724.9
65°	25129.7	26486.9	26638.3	26584.3	25198.4	26466.9	26831.5	25499.7
67.5°	22798.4	22531.3	22785.7	23137.6	22708.2	25229.1	24747.2	22830.9
70°	18691.3	17224.2	17731.3	17967.7	18162.6	21710.2	21479.3	18595.6
72.5°	14086.1	12066.8	12467.4	12418.7	13321.0	17413.6	16704.5	13672.9
75°	9980.8	8181.8	8232.2	8212.3	9295.1	13624.1	12095.7	9354.7
77.5°	6983.6	5927.8	5955.0	6066.9	6249.1	10275.0	8641.9	6833.8
80°	4801.8	4498.7	4648.5	4657.5	4330.9	6902.2	6384.4	5484.0
82.5°	3576.5	3127.2	3091.2	3143.4	3394.3	5592.2	4906.5	3804.0
85°	2928.7	1851.4	1488.8	1865.9	3008.2	5538.1	3259.1	2006.6
87.5°	1649.4	878.8	397.1	736.3	1200.0	3666.8	942.0	256.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)