

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: P269423

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269423  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
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-T2R-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26034.8 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 249  
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

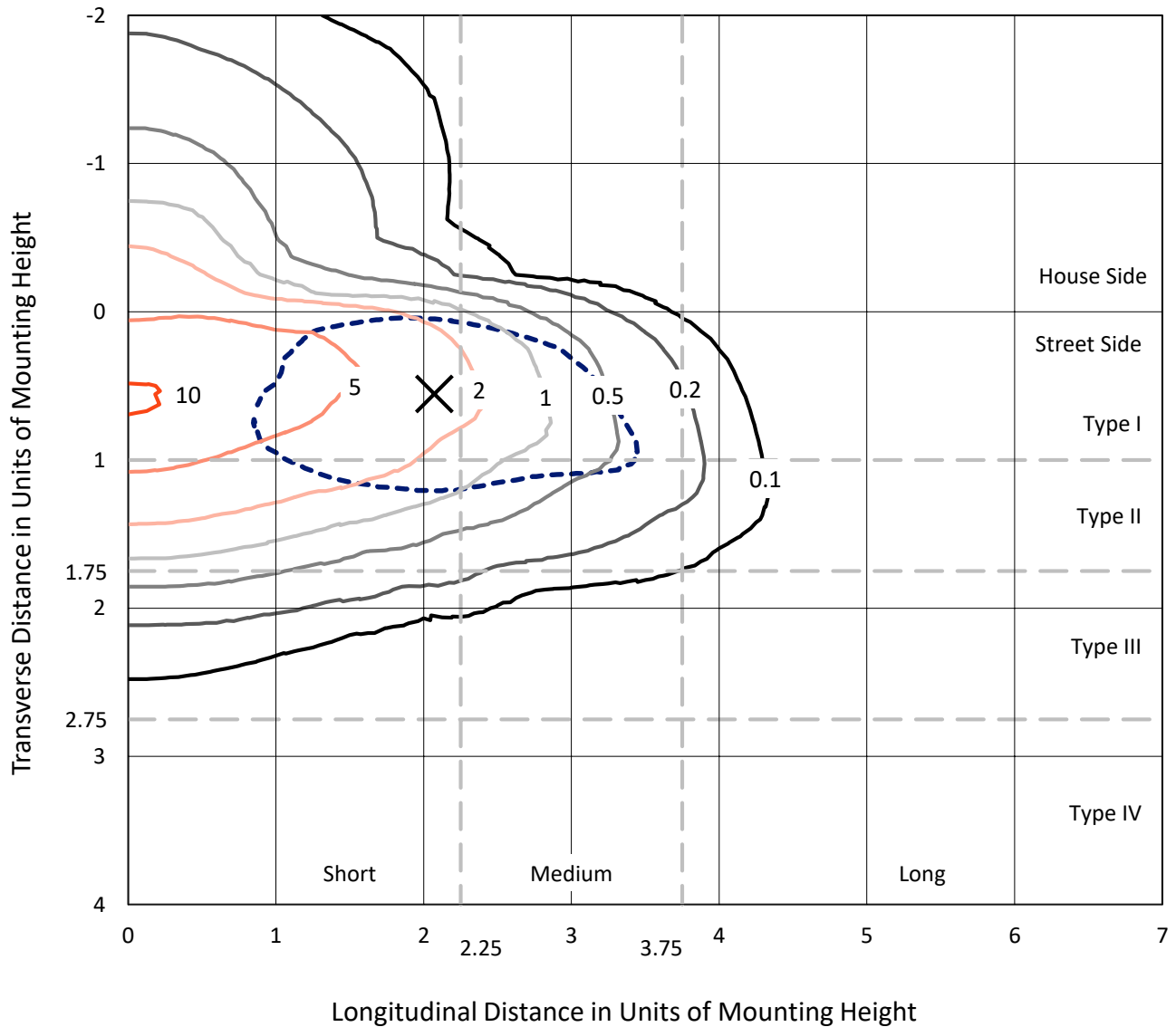


REPORT NUMBER: P269423

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-7027-800

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

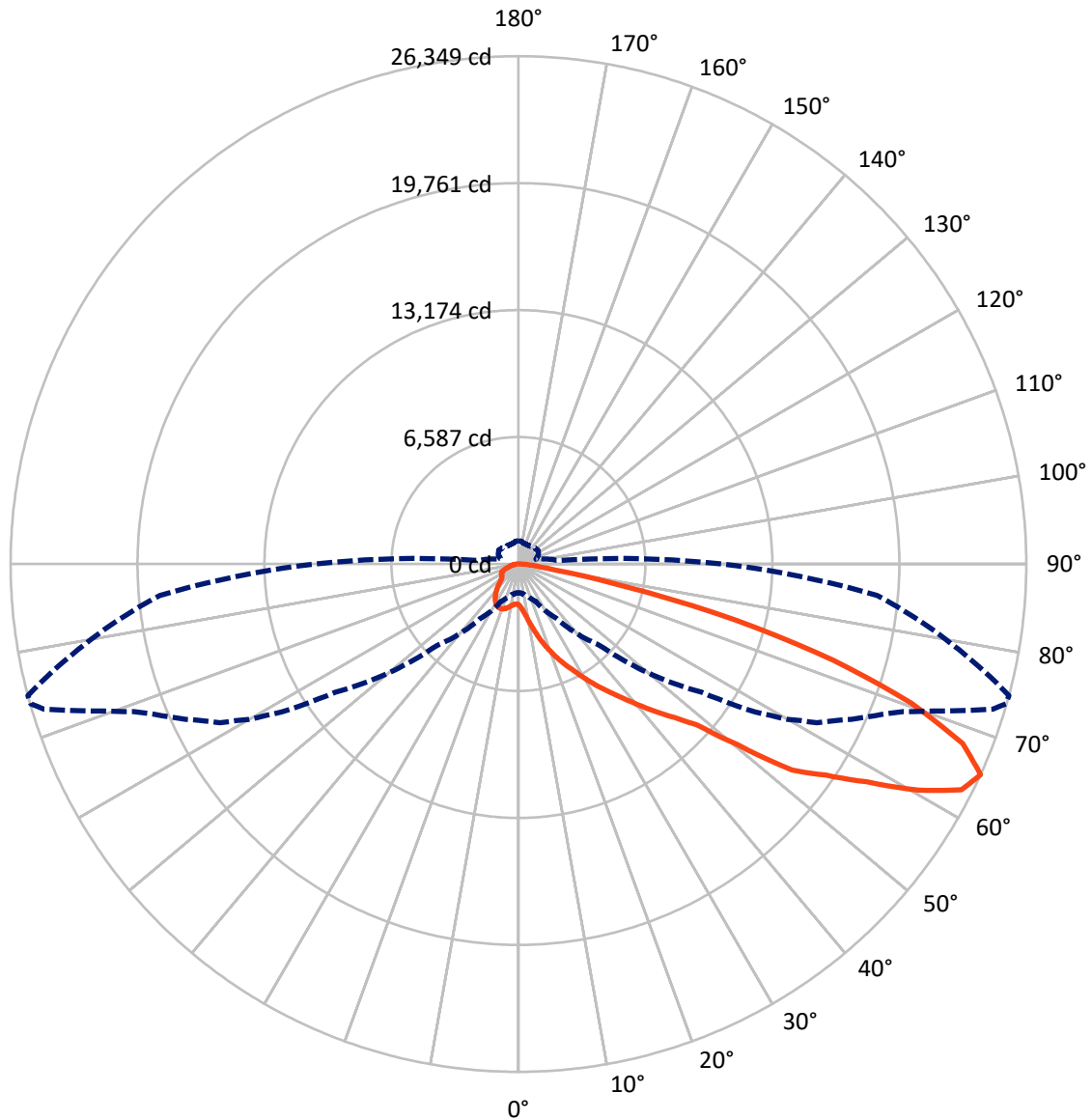


Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P269423

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-7027-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P269423

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-7027-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4014.0	0.0	4014.0
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	22020.8	0.0	22020.8
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	26034.8	0.0	26034.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.5	1.0
10°-20°	1021.8	3.9
20°-30°	2096.5	8.1
30°-40°	3527.2	13.5
40°-50°	4873.6	18.7
50°-60°	6083.7	23.4
60°-70°	5474.7	21.0
70°-80°	2294.9	8.8
80°-90°	400.9	1.5
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°	26034.8	100.0
0°-180°	26034.8	100.0



REPORT NUMBER: P269423

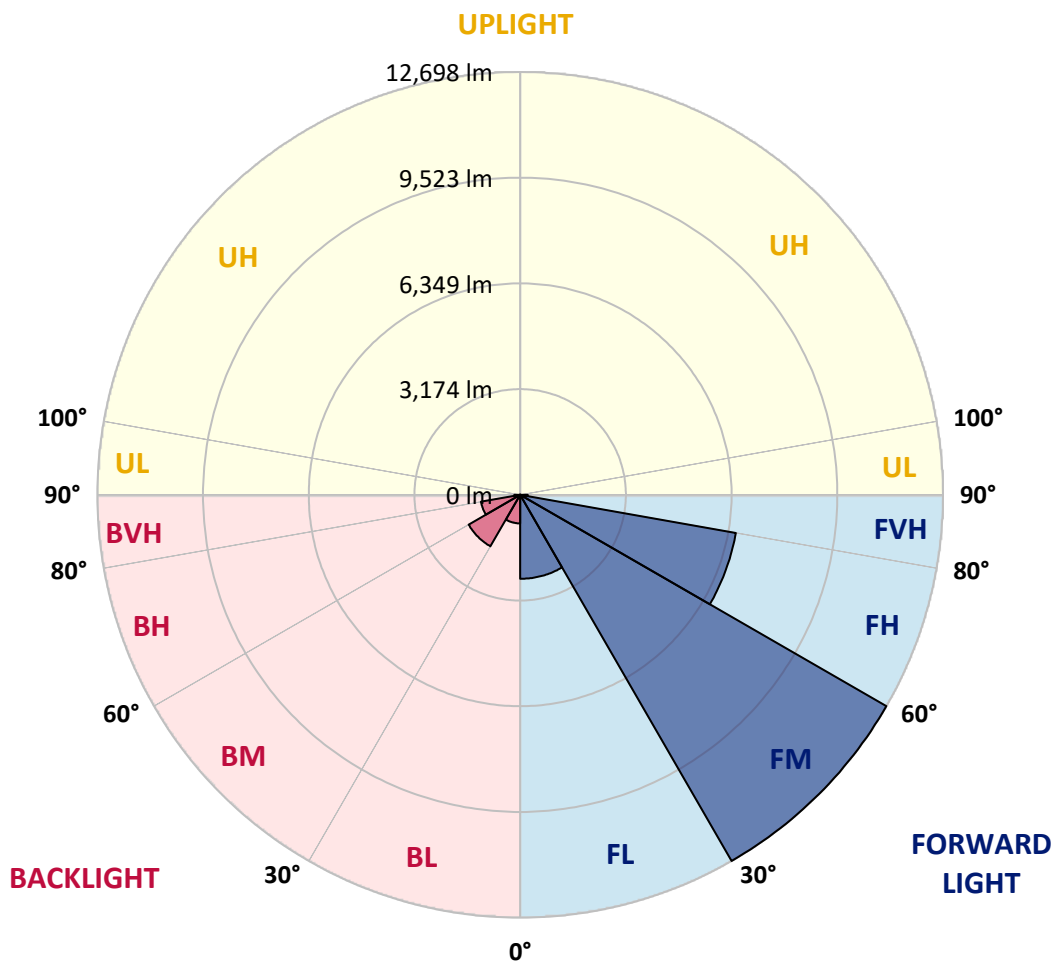
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2521.4	9.7			
FM (30°-60°)	12697.8	48.8			
FH (60°-80°)	6576.3	25.3			G3/7500
FVH (80°-90°)	225.4	0.9			G3/500
BL (0°-30°)	858.4	3.3	B2/1000		
BM (30°-60°)	1786.7	6.9	B2/2500		
BH (60°-80°)	1193.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	175.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P269423

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-7027-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8
2.5°	2686.4	2656.7	2664.3	2614.8	2554.5	2475.6	2388.1	2386.9	2388.1	2379.5	2347.5
5°	3725.2	3689.5	3675.9	3565.0	3402.3	3170.7	2919.3	2892.2	2881.0	2852.7	2787.4
7.5°	4483.0	4463.3	4442.4	4358.5	4210.6	3952.0	3614.3	3556.4	3501.0	3487.3	3413.4
10°	4972.3	4967.3	4922.9	4900.8	4808.4	4584.1	4255.0	4199.5	4139.2	4118.3	4040.7
12.5°	5359.2	5357.9	5337.0	5343.2	5263.1	5100.3	4817.0	4766.4	4722.1	4658.0	4602.6
15°	5626.5	5627.8	5658.7	5693.1	5680.8	5571.2	5305.0	5282.8	5244.6	5200.2	5134.9
17.5°	5845.9	5852.1	5884.2	5947.0	6014.7	6006.2	5795.4	5776.9	5743.7	5683.2	5648.7
20°	6341.3	6364.8	6303.0	6303.0	6310.6	6343.8	6242.7	6227.9	6181.1	6149.1	6121.9
22.5°	7178.0	7205.1	7065.9	6924.1	6784.9	6683.8	6582.8	6601.4	6569.2	6547.0	6531.0
25°	8264.9	8285.8	8060.3	7821.3	7537.9	7168.1	6917.9	6906.9	6889.7	6876.2	6868.7
27.5°	9287.7	9296.3	9083.1	8733.1	8404.2	7873.0	7258.1	7244.7	7223.6	7197.8	7175.7
30°	10162.6	10160.1	9940.9	9606.8	9254.3	8666.6	7774.4	7732.6	7670.9	7600.6	7546.5
32.5°	10920.4	10916.7	10676.4	10330.1	9960.4	9452.9	8481.7	8395.5	8299.4	8162.5	8080.1
35°	11516.9	11514.5	11287.7	10926.7	10502.8	10193.3	9292.6	9186.6	9064.6	8881.1	8754.2
37.5°	11742.4	11742.4	11615.4	11368.9	10994.4	10782.4	10193.3	10065.2	9934.6	9726.4	9583.5
40°	11610.6	11613.0	11640.1	11594.6	11412.2	11249.5	11033.8	10957.4	10845.2	10658.0	10508.9
42.5°	11168.2	11181.7	11361.7	11582.1	11673.4	11647.6	11779.4	11744.9	11666.0	11521.8	11403.5
45°	10607.5	10649.3	10846.6	11262.9	11746.1	11991.4	12404.2	12407.7	12393.0	12315.5	12224.2
47.5°	9837.2	9896.4	10156.4	10719.7	11576.0	12325.3	13038.8	13072.0	13102.8	13052.4	13010.4
50°	8814.4	8884.7	9274.1	10021.0	11229.7	12671.5	14237.7	14388.2	14528.6	14511.3	14539.6
52.5°	7719.0	7801.6	8278.5	9110.3	10634.6	12751.6	15004.2	15249.4	15494.7	15695.5	15908.8
55°	6730.7	6686.4	7163.3	8039.4	9656.2	12390.6	15693.1	15988.8	16262.3	16508.8	16762.7
57.5°	5391.2	5463.9	5942.1	6808.3	8361.1	11371.5	16167.5	16600.0	16993.1	17401.0	17760.8
60°	3940.9	4013.5	4532.3	5412.2	6954.9	9826.2	15805.1	16460.8	17090.4	17715.3	18203.3
62.5°	2379.5	2433.8	2890.9	3728.9	5362.9	7993.7	14191.0	15051.0	15977.8	16724.6	17472.6
65°	1481.1	1511.9	1680.8	2141.6	3444.2	5967.9	11594.6	12532.3	13530.5	14478.1	15255.6
67.5°	1212.5	1223.6	1254.5	1353.0	1891.6	3891.5	8629.7	9460.2	10361.1	11277.9	12142.8
70°	1090.5	1083.1	1083.1	1089.4	1212.5	2092.4	5650.0	6190.9	6941.5	7738.7	8529.9
72.5°	984.6	977.1	963.6	945.1	989.6	1276.6	2920.5	3328.4	3869.4	4577.9	5335.8
75°	884.8	874.9	858.9	835.5	866.2	963.6	1402.3	1573.7	1837.4	2214.4	2637.1
77.5°	781.3	768.9	754.1	736.9	776.3	749.2	821.9	883.6	984.6	1105.4	1264.4
80°	664.1	653.1	648.1	639.6	686.3	570.6	580.5	618.7	677.7	743.1	817.0
82.5°	519.9	519.9	539.7	543.5	595.1	410.3	433.7	466.9	497.8	532.3	566.8
85°	342.6	344.9	411.6	437.5	469.5	276.0	325.4	336.4	361.1	380.8	395.6
87.5°	107.2	115.8	251.3	278.5	269.9	156.6	199.7	204.5	221.8	235.4	247.8
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: P269423

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-7027-800

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8
2.5°	2347.5	2332.7	2319.2	2317.9	2308.0	2294.5	2299.4	2278.6	2279.7	2268.6	2256.4
5°	2760.3	2750.4	2701.2	2687.5	2650.5	2627.3	2623.5	2574.3	2568.1	2539.7	2509.0
7.5°	3354.4	3322.2	3253.2	3220.0	3157.2	3110.3	3088.2	3022.7	2990.7	2916.7	2883.5
10°	3976.5	3936.0	3850.9	3804.1	3743.6	3668.5	3627.9	3532.9	3495.9	3428.2	3346.8
12.5°	4553.2	4512.6	4425.1	4389.4	4309.3	4229.2	4184.8	4077.5	4029.5	3921.1	3857.1
15°	5086.8	5046.1	4969.9	4932.9	4852.7	4787.3	4728.3	4622.3	4565.5	4464.5	4380.8
17.5°	5604.4	5561.2	5494.8	5461.4	5383.8	5317.2	5253.2	5153.3	5095.5	4994.4	4919.3
20°	6084.9	6053.0	6004.9	5960.6	5882.9	5822.5	5746.1	5659.9	5576.0	5502.1	5430.7
22.5°	6504.0	6491.6	6439.9	6420.1	6353.6	6301.9	6235.3	6150.2	6089.9	5996.2	5929.7
25°	6865.0	6861.3	6836.7	6830.5	6783.7	6734.5	6719.6	6649.3	6593.9	6511.4	6442.4
27.5°	7175.7	7179.3	7173.1	7190.4	7178.0	7155.9	7157.1	7133.7	7101.6	7032.7	6972.3
30°	7520.6	7500.8	7511.9	7536.6	7544.1	7546.5	7587.2	7600.6	7598.3	7552.6	7523.0
32.5°	8008.6	7961.8	7918.6	7915.0	7939.6	7949.5	8018.5	8054.2	8084.9	8096.1	8101.0
35°	8630.8	8537.2	8447.3	8399.2	8357.3	8368.4	8417.7	8475.6	8543.4	8590.2	8645.6
37.5°	9414.5	9300.1	9141.1	9027.6	8999.3	8937.7	8969.8	9015.4	9082.0	9154.5	9250.7
40°	10364.7	10190.9	10012.2	9862.0	9780.6	9667.2	9666.0	9657.4	9698.0	9765.8	9901.4
42.5°	11279.1	11125.0	10935.2	10777.5	10671.5	10520.1	10489.1	10409.1	10427.5	10486.8	10618.5
45°	12135.6	12008.5	11892.8	11710.3	11620.4	11456.5	11404.7	11309.9	11256.9	11284.0	11415.8
47.5°	12964.8	12883.5	12762.7	12644.5	12575.5	12428.8	12362.2	12294.5	12226.7	12224.2	12362.2
50°	14581.6	14538.3	14395.5	14272.2	14305.5	14125.6	14136.6	13954.4	14036.8	14046.7	14336.3
52.5°	16101.0	16251.2	16357.2	16486.7	16570.5	16586.5	16641.9	16724.6	16824.4	17021.4	17290.0
55°	16971.0	17159.6	17269.1	17367.7	17530.5	17564.9	17657.4	17766.9	17854.5	18076.4	18304.3
57.5°	18004.8	18354.8	18524.8	18681.3	18900.7	18984.5	19138.5	19258.0	19371.4	19634.0	19909.9
60°	18641.9	19068.3	19414.6	19662.2	19937.1	20134.3	20367.1	20554.4	20820.6	21134.9	21546.3
62.5°	18135.4	18761.5	19221.2	19646.2	20019.5	20396.6	20730.6	21080.6	21484.9	21960.4	22598.8
65°	16118.2	16755.2	17542.7	17983.9	18478.0	19059.7	19567.4	20134.3	20685.0	21377.5	22321.5
67.5°	12975.8	13716.5	14601.3	15046.2	15614.2	16263.6	16832.9	17525.5	18168.7	19007.9	20174.9
70°	9353.1	10310.4	11054.8	11519.3	12182.4	12851.4	13401.0	14207.0	14739.3	15599.4	16805.9
72.5°	5922.3	6677.7	7589.6	8174.9	8764.0	9441.7	10003.6	10698.6	11195.2	11979.0	13072.0
75°	3184.2	3741.3	4542.2	5097.9	5728.9	6308.1	6966.0	7431.9	7799.1	8418.9	9306.3
77.5°	1492.3	1831.1	2236.6	2664.3	3091.7	3537.9	3971.6	4348.8	4506.4	4861.4	5385.1
80°	905.8	1015.4	1133.8	1265.5	1444.2	1588.5	1779.5	1917.4	1927.3	2039.4	2199.6
82.5°	605.1	645.7	681.5	714.7	760.3	796.1	836.7	884.8	904.6	930.4	982.1
85°	412.9	432.5	439.9	460.9	455.9	468.2	484.2	500.3	508.9	507.7	531.1
87.5°	253.9	263.7	268.7	273.5	269.9	264.9	272.4	281.0	283.4	276.0	278.5
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: P269423

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-7027-800

**CANDELA DISTRIBUTION (continued):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8
2.5°	2258.8	2247.6	2236.6	2229.2	2226.7	2161.4	2133.0	2114.6	2075.2	2043.1	2017.2
5°	2491.7	2468.3	2449.8	2427.6	2415.3	2250.2	2189.8	2147.8	2078.9	2038.2	2001.2
7.5°	2866.3	2800.9	2762.7	2719.7	2682.7	2384.6	2284.7	2219.4	2123.2	2068.9	2027.0
10°	3291.4	3223.7	3163.2	3096.6	3038.7	2563.1	2417.7	2316.6	2189.8	2119.6	2064.0
12.5°	3765.9	3699.3	3623.0	3537.9	3464.0	2789.9	2587.7	2443.6	2269.8	2176.2	2098.6
15°	4326.5	4209.5	4117.0	4018.5	3932.2	3061.0	2786.3	2586.6	2354.8	2227.9	2124.4
17.5°	4847.9	4724.5	4598.9	4512.6	4412.8	3365.4	2985.7	2731.9	2425.2	2261.3	2129.4
20°	5356.8	5222.3	5114.0	4998.1	4893.3	3680.8	3199.0	2860.2	2470.7	2262.6	2098.6
22.5°	5805.2	5721.5	5600.8	5475.0	5369.0	3996.3	3398.6	2968.5	2487.9	2234.2	2044.4
25°	6315.4	6226.7	6078.8	5972.9	5854.6	4318.0	3594.6	3052.4	2478.2	2181.2	1960.6
27.5°	6860.0	6761.5	6610.0	6499.1	6356.0	4651.9	3774.5	3112.7	2441.1	2094.8	1848.4
30°	7428.2	7338.3	7189.1	7076.9	6932.8	5005.5	3975.3	3153.4	2367.3	1975.4	1717.7
32.5°	8038.2	7962.9	7815.2	7698.0	7544.1	5388.8	4162.7	3165.7	2255.0	1833.6	1579.8
35°	8617.4	8565.6	8441.2	8331.4	8171.3	5751.0	4361.0	3159.6	2121.9	1678.4	1454.0
37.5°	9269.3	9238.3	9176.7	9037.6	8841.6	6242.7	4598.9	3133.6	1959.4	1524.3	1358.0
40°	9964.2	9966.6	9900.1	9805.3	9622.9	6839.2	4882.3	3083.2	1781.9	1388.8	1270.6
42.5°	10699.9	10738.1	10706.0	10638.3	10463.3	7440.5	5221.2	3021.5	1609.4	1256.9	1184.2
45°	11542.7	11589.7	11638.9	11539.1	11368.9	8234.1	5667.2	2941.4	1423.3	1147.2	1125.0
47.5°	12515.0	12588.9	12633.4	12634.5	12464.5	9217.5	6391.8	2893.4	1258.2	1073.4	1096.7
50°	14566.7	14590.2	14695.0	14877.3	14746.7	11493.5	7657.4	2863.8	1146.0	1027.8	1075.8
52.5°	17523.0	17780.5	17961.7	17949.4	17772.0	12938.9	8354.9	2711.1	1079.5	1010.5	1065.8
55°	18727.0	19048.6	19383.7	19472.5	19334.5	14172.4	9014.1	2558.3	1047.5	1022.8	1069.6
57.5°	20331.3	20873.6	21333.2	21526.8	21327.1	15751.1	9881.6	2478.2	1037.6	1056.0	1093.1
60°	22205.7	22876.1	23479.9	23827.4	23827.4	17564.9	10781.2	2444.8	1024.0	1105.4	1132.5
62.5°	23409.7	24394.3	25306.2	25815.0	25800.2	18827.9	11180.5	2331.6	993.3	1139.9	1186.8
65°	23414.5	24585.3	25747.2	26319.0	26348.5	18672.7	10521.2	2059.2	936.6	1144.8	1240.9
67.5°	21462.7	22710.9	24065.1	24704.7	24852.6	17189.1	9107.7	1693.1	844.0	1095.6	1260.6
70°	18126.8	19345.5	20728.2	21356.7	21619.1	14653.1	7335.7	1305.0	725.8	987.1	1220.0
72.5°	14280.9	15476.2	16438.7	16898.2	17102.8	11200.2	5342.0	985.8	595.1	831.8	1110.2
75°	10110.9	11007.9	11519.3	11621.6	11653.6	6751.7	3245.8	733.1	490.5	647.0	937.8
77.5°	5706.8	6091.1	6049.2	6094.9	5715.2	2606.3	1413.5	525.0	404.1	491.7	727.1
80°	2227.9	2297.0	2157.6	2114.6	1939.6	969.8	623.6	366.0	322.9	372.2	508.9
82.5°	982.1	1014.1	984.6	992.0	948.9	500.3	373.3	264.9	246.4	272.4	337.7
85°	541.0	550.8	548.3	564.3	541.0	199.7	177.4	162.7	172.6	184.8	216.9
87.5°	263.7	266.2	257.5	271.1	262.5	101.1	87.5	92.4	101.1	103.6	103.6
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: P269423

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-7027-800

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8
2.5°	1998.8	1988.8	1990.1	1987.7	1982.6	1982.6
5°	1981.5	1971.6	1971.6	1969.2	1963.1	1964.2
7.5°	1998.8	1982.6	1976.6	1967.9	1959.4	1959.4
10°	2018.5	1990.1	1972.9	1958.0	1946.9	1946.9
12.5°	2033.3	1988.8	1960.6	1940.9	1929.7	1929.7
15°	2038.2	1980.3	1940.9	1917.4	1907.6	1906.4
17.5°	2022.2	1946.9	1898.9	1871.8	1859.5	1855.8
20°	1972.9	1886.6	1828.7	1797.9	1780.6	1774.5
22.5°	1898.9	1800.4	1732.7	1700.5	1678.4	1674.7
25°	1795.4	1689.4	1622.9	1592.1	1579.8	1576.0
27.5°	1674.7	1576.0	1519.5	1499.7	1488.6	1487.4
30°	1560.0	1476.3	1434.4	1419.6	1406.0	1403.5
32.5°	1452.9	1399.9	1383.8	1362.9	1330.8	1327.2
35°	1376.5	1371.5	1360.5	1313.6	1274.2	1263.0
37.5°	1329.6	1375.2	1318.5	1226.1	1197.8	1195.4
40°	1302.5	1336.9	1239.8	1207.6	1210.0	1207.6
42.5°	1240.9	1276.6	1242.1	1227.4	1237.2	1239.8
45°	1179.3	1218.7	1260.6	1250.8	1274.2	1274.2
47.5°	1144.8	1204.0	1259.5	1259.5	1293.9	1306.2
50°	1105.4	1191.6	1239.8	1256.9	1284.0	1274.2
52.5°	1102.8	1170.8	1211.4	1242.1	1254.5	1243.3
55°	1106.6	1153.5	1183.0	1217.6	1232.3	1233.6
57.5°	1111.6	1143.5	1163.2	1179.3	1223.6	1223.6
60°	1123.8	1134.9	1146.0	1154.6	1212.5	1213.8
62.5°	1143.5	1126.4	1123.8	1132.5	1206.5	1201.5
65°	1174.4	1114.0	1095.6	1104.1	1200.2	1185.5
67.5°	1216.2	1095.6	1059.8	1065.8	1195.4	1163.2
70°	1254.5	1065.8	1015.4	1009.2	1148.6	1091.8
72.5°	1258.2	1031.4	953.8	935.2	998.1	943.8
75°	1196.5	1008.0	886.0	831.8	824.4	817.0
77.5°	1078.2	994.5	807.1	722.1	707.3	712.3
80°	902.0	943.8	712.3	611.1	691.3	682.7
82.5°	674.1	833.0	605.1	541.0	539.7	476.9
85°	374.7	649.5	492.9	405.5	282.2	273.5
87.5°	104.7	361.1	344.9	229.2	156.6	162.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)