

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: P191424

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191424  
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-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41620.8 lumens  
Efficiency: N/A  
Efficacy: 109.0 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 - G4

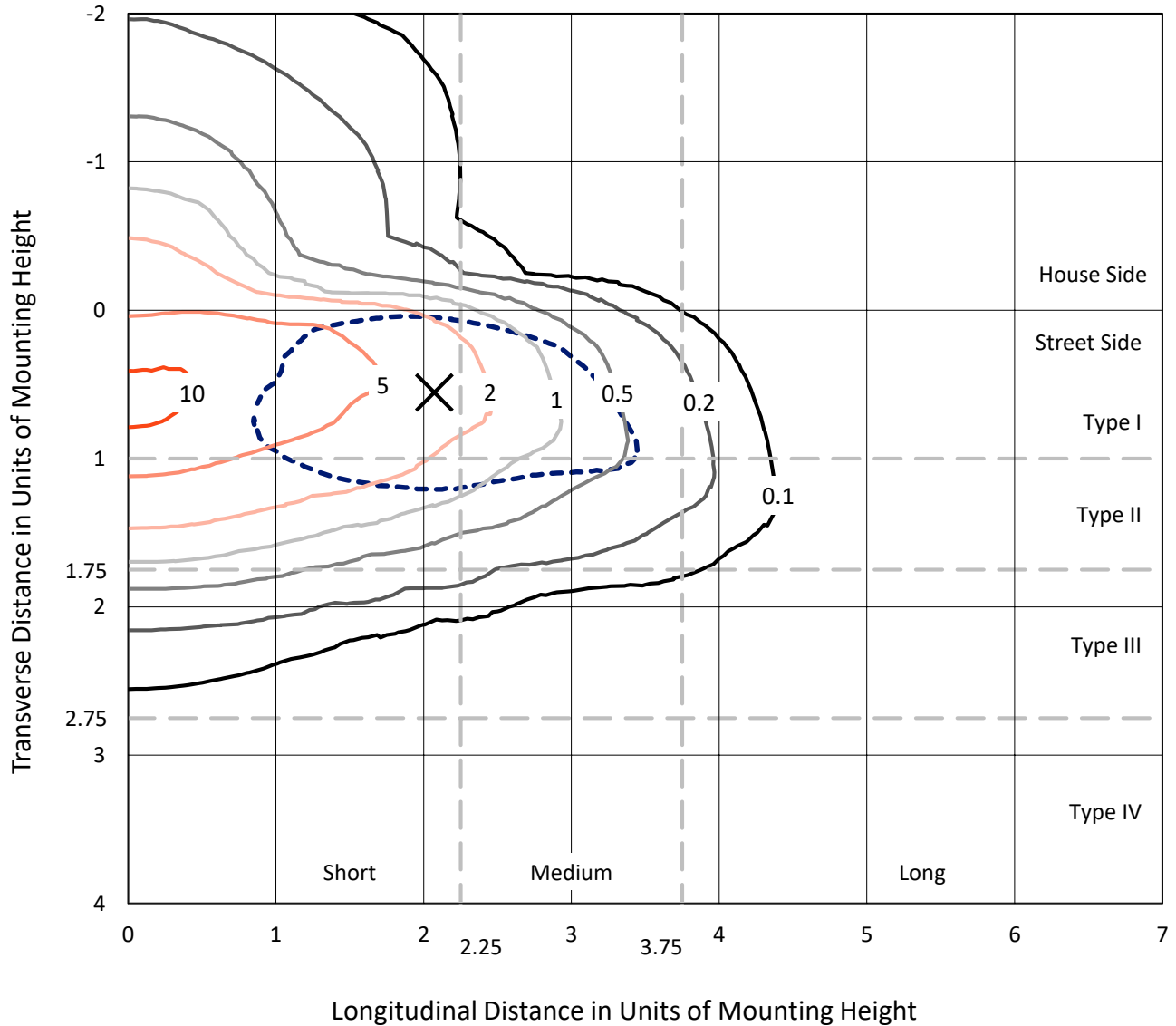
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P191424  
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### Iso-Footcandle Lines of Horizontal Illumination

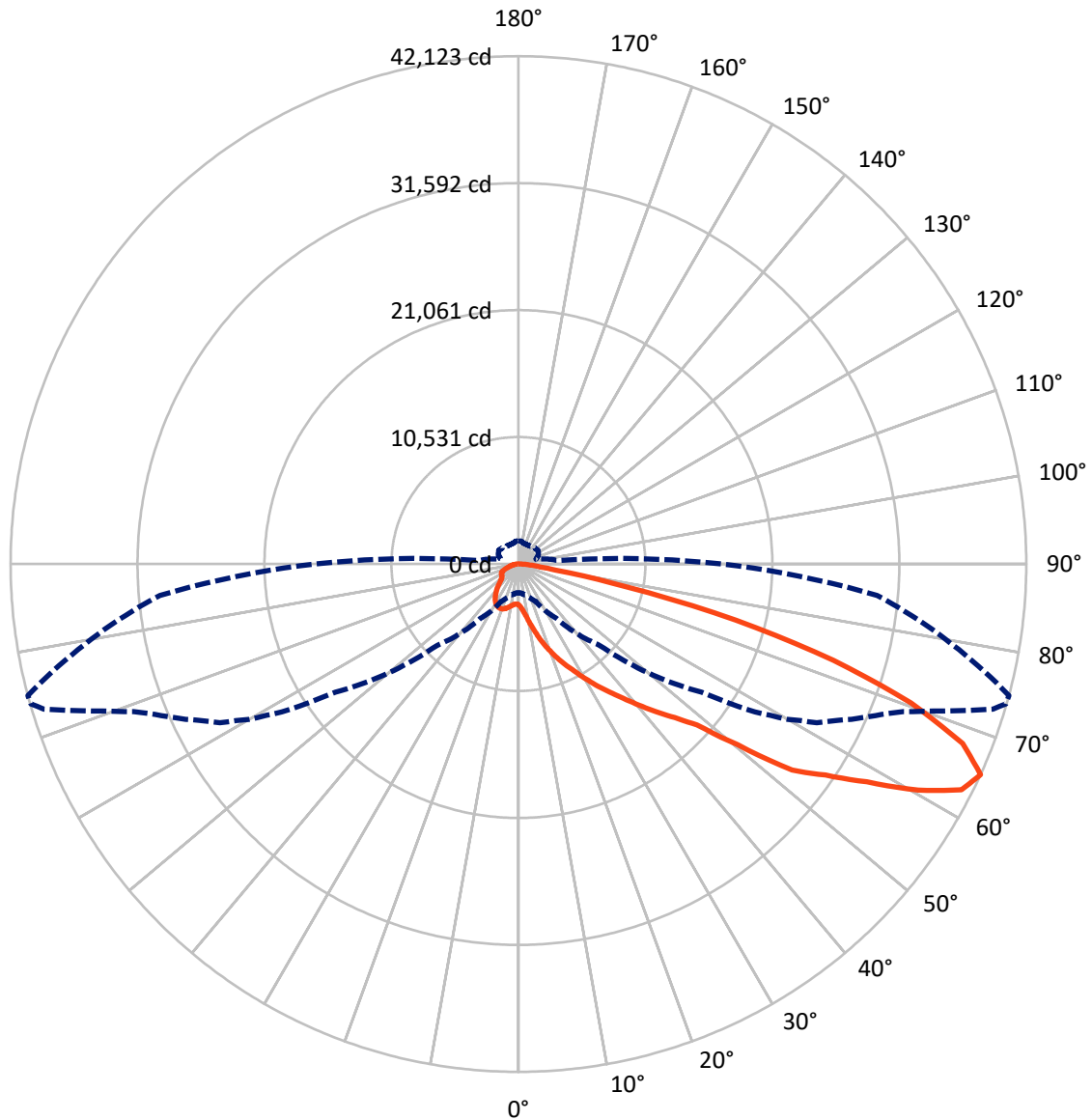
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P191424  
CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-1200

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6417.0	0.0	6417.0
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	35203.9	0.0	35203.9
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	41620.8	0.0	41620.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.1	1.0
10°-20°	1633.6	3.9
20°-30°	3351.5	8.1
30°-40°	5638.8	13.5
40°-50°	7791.2	18.7
50°-60°	9725.8	23.4
60°-70°	8752.1	21.0
70°-80°	3668.8	8.8
80°-90°	641.0	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°	41620.8	100.0
0°-180°	41620.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P191424

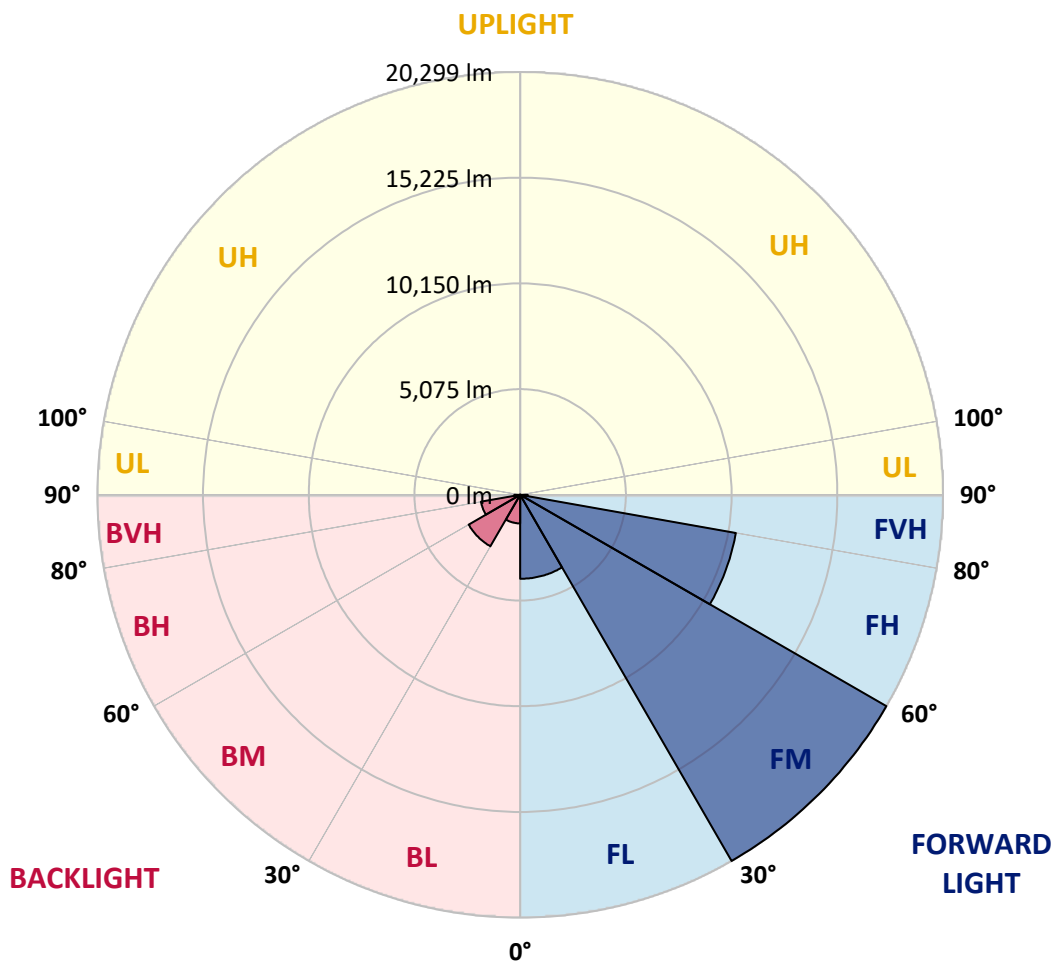
CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4030.9	9.7			
FM	(30°-60°)	20299.5	48.8			
FH	(60°-80°)	10513.3	25.3			G4/12000
FVH	(80°-90°)	360.3	0.9			G3/500
BL	(0°-30°)	1372.3	3.3	B3/2500		
BM	(30°-60°)	2856.3	6.9	B3/5000		
BH	(60°-80°)	1907.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	280.7	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





REPORT NUMBER: P191424

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5
2.5°	4294.6	4247.3	4259.2	4180.3	4083.8	3957.7	3817.9	3815.9	3817.9	3804.0	3752.8
5°	5955.3	5898.1	5876.5	5699.2	5439.1	5068.8	4666.9	4623.6	4605.8	4560.5	4456.2
7.5°	7166.9	7135.3	7101.8	6967.9	6731.5	6317.7	5778.0	5685.5	5596.8	5575.1	5456.9
10°	7948.9	7941.1	7870.2	7834.7	7687.0	7328.4	6802.4	6713.7	6617.3	6583.7	6459.6
12.5°	8567.5	8565.6	8532.0	8541.9	8413.9	8153.8	7700.7	7620.0	7549.1	7446.6	7358.0
15°	8995.0	8997.0	9046.3	9101.4	9081.7	8906.3	8480.9	8445.4	8384.3	8313.4	8209.0
17.5°	9345.7	9355.5	9406.7	9507.2	9615.5	9601.7	9264.9	9235.3	9182.1	9085.6	9030.5
20°	10137.6	10175.1	10076.6	10076.6	10088.3	10141.5	9980.0	9956.4	9881.5	9830.3	9787.0
22.5°	11475.3	11518.5	11295.9	11069.5	10846.8	10685.2	10523.7	10553.3	10502.0	10466.6	10441.0
25°	13212.7	13246.3	12885.8	12503.5	12050.5	11459.5	11059.5	11041.8	11014.2	10992.6	10980.8
27.5°	14847.8	14861.6	14520.9	13961.3	13435.3	12586.3	11603.3	11581.6	11548.1	11506.8	11471.3
30°	16246.6	16242.6	15892.0	15358.1	14794.7	13854.9	12428.8	12361.7	12263.2	12150.9	12064.3
32.5°	17458.1	17452.3	17068.0	16514.5	15923.5	15111.8	13559.5	13421.6	13268.0	13049.3	12917.3
35°	18411.6	18407.7	18045.2	17468.0	16790.3	16295.8	14855.8	14686.3	14491.3	14197.7	13994.9
37.5°	18772.1	18772.1	18569.2	18175.2	17576.3	17237.4	16295.8	16090.9	15882.1	15549.2	15320.6
40°	18561.3	18565.2	18608.6	18535.7	18244.1	17984.1	17639.4	17517.2	17338.0	17038.5	16800.1
42.5°	17854.1	17875.8	18163.4	18516.0	18661.8	18620.5	18831.2	18776.1	18649.9	18419.5	18230.3
45°	16957.8	17024.8	17339.9	18005.8	18778.0	19170.1	19830.0	19835.9	19812.3	19688.1	19542.4
47.5°	15726.5	15821.1	16236.7	17137.0	18506.2	19703.9	20844.6	20897.8	20947.0	20866.3	20799.2
50°	14091.4	14203.7	14826.2	16020.0	17952.6	20257.5	22761.4	23001.7	23226.3	23198.7	23244.0
52.5°	12340.1	12472.0	13234.4	14564.2	17001.0	20385.6	23986.7	24378.8	24770.8	25091.9	25432.7
55°	10760.1	10689.2	11451.6	12852.3	15436.9	19808.3	25088.0	25560.7	25998.1	26392.0	26797.8
57.5°	8618.8	8735.0	9499.3	10884.2	13366.4	18179.2	25846.4	26537.8	27166.3	27818.3	28393.5
60°	6300.0	6416.3	7245.7	8652.2	11118.7	15708.7	25267.2	26315.2	27321.9	28320.7	29100.8
62.5°	3804.0	3890.8	4621.6	5961.2	8573.5	12779.4	22686.5	24061.5	25543.0	26736.8	27932.6
65°	2367.9	2417.2	2687.1	3423.8	5506.1	9540.7	18535.7	20034.9	21630.6	23145.5	24388.6
67.5°	1938.5	1956.2	2005.5	2163.0	3023.9	6221.3	13795.9	15123.7	16563.7	18029.4	19412.3
70°	1743.4	1731.7	1731.7	1741.5	1938.5	3345.0	9032.5	9897.3	11097.0	12371.6	13636.3
72.5°	1574.0	1562.3	1540.6	1511.0	1581.9	2040.9	4668.8	5321.0	6185.8	7318.5	8530.1
75°	1414.4	1398.7	1373.1	1335.7	1384.9	1540.6	2241.9	2515.6	2937.3	3540.1	4215.8
77.5°	1249.0	1229.3	1205.6	1178.0	1241.1	1197.8	1314.0	1412.5	1574.0	1767.0	2021.2
80°	1061.8	1044.1	1036.2	1022.4	1097.3	912.1	927.9	989.0	1083.5	1188.0	1306.1
82.5°	831.4	831.4	862.9	868.8	951.5	656.0	693.5	746.7	795.9	851.0	906.2
85°	547.7	551.6	658.0	699.4	750.5	441.3	520.1	537.8	577.3	608.8	632.4
87.5°	171.3	185.2	401.9	445.2	431.4	250.2	319.2	327.0	354.6	376.2	396.0
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: P191424  
 CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-1200

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5
2.5°	3752.8	3729.2	3707.6	3705.5	3689.8	3668.1	3676.0	3642.5	3644.5	3626.8	3607.0
5°	4412.8	4397.1	4318.3	4296.6	4237.5	4200.0	4194.1	4115.3	4105.5	4060.2	4010.9
7.5°	5362.3	5311.2	5200.8	5147.6	5047.1	4972.3	4936.9	4832.4	4781.2	4663.0	4609.8
10°	6357.2	6292.2	6156.2	6081.3	5984.9	5864.7	5799.7	5648.0	5588.9	5480.6	5350.5
12.5°	7279.1	7214.2	7074.2	7017.1	6889.1	6761.0	6690.1	6518.8	6441.9	6268.5	6166.1
15°	8132.2	8067.1	7945.0	7885.9	7757.9	7653.4	7558.9	7389.5	7298.9	7137.3	7003.3
17.5°	8959.5	8890.6	8784.2	8731.0	8606.9	8500.5	8398.1	8238.5	8146.0	7984.4	7864.2
20°	9727.9	9676.6	9599.8	9528.9	9404.8	9308.2	9186.1	9048.2	8914.2	8796.0	8681.8
22.5°	10397.7	10377.9	10295.2	10263.7	10157.3	10074.5	9968.1	9832.3	9735.7	9586.0	9479.6
25°	10974.8	10968.9	10929.5	10919.7	10844.8	10766.0	10742.4	10630.1	10541.5	10409.4	10299.2
27.5°	11471.3	11477.2	11467.4	11494.9	11475.3	11439.8	11441.7	11404.4	11353.1	11242.7	11146.3
30°	12022.9	11991.3	12009.1	12048.5	12060.3	12064.3	12129.2	12150.9	12147.0	12074.1	12026.8
32.5°	12803.0	12728.2	12659.2	12653.3	12692.7	12708.4	12818.8	12875.9	12925.2	12942.9	12950.8
35°	13797.9	13648.1	13504.4	13427.5	13360.6	13378.3	13457.0	13549.6	13658.0	13732.8	13821.5
37.5°	15050.8	14867.6	14613.5	14432.2	14386.9	14288.4	14339.6	14412.5	14518.8	14635.2	14788.8
40°	16569.7	16291.9	16006.2	15765.9	15635.9	15454.6	15452.7	15438.9	15503.8	15612.3	15828.9
42.5°	18031.3	17785.1	17481.7	17229.6	17060.2	16817.8	16768.6	16640.5	16670.1	16764.7	16975.5
45°	19400.6	19197.6	19012.5	18720.9	18577.1	18315.1	18232.4	18080.7	17996.0	18039.2	18250.1
47.5°	20726.3	20596.3	20403.3	20214.1	20103.8	19869.4	19763.0	19654.7	19546.3	19542.4	19763.0
50°	23311.0	23242.1	23013.5	22816.5	22869.7	22582.0	22599.8	22308.2	22440.3	22456.0	22918.9
52.5°	25740.0	25980.3	26149.8	26356.6	26490.5	26516.2	26604.8	26736.8	26896.3	27211.6	27641.1
55°	27130.8	27432.3	27607.5	27765.1	28025.2	28080.3	28228.1	28403.5	28543.3	28897.8	29262.3
57.5°	28783.7	29343.1	29614.9	29865.2	30215.8	30349.8	30596.0	30787.1	30968.4	31388.0	31829.2
60°	29802.1	30483.7	31037.4	31433.3	31872.6	32187.8	32560.1	32859.5	33285.1	33787.5	34445.4
62.5°	28992.5	29993.2	30728.0	31407.7	32004.6	32607.4	33141.3	33700.7	34346.9	35107.4	36127.8
65°	25767.6	26786.1	28044.9	28750.1	29540.2	30469.9	31281.6	32187.8	33068.4	34175.6	35684.5
67.5°	20744.1	21928.1	23342.5	24053.7	24961.8	26000.0	26910.2	28017.3	29045.7	30387.3	32252.8
70°	14952.3	16483.0	17672.8	18415.6	19475.3	20545.1	21423.8	22712.1	23563.2	24938.2	26866.8
72.5°	9467.8	10675.4	12133.2	13069.0	14010.6	15094.2	15992.4	17103.5	17897.4	19150.4	20897.8
75°	5090.5	5980.9	7261.4	8149.8	9158.5	10084.5	11136.4	11881.1	12468.1	13459.1	14877.4
77.5°	2385.6	2927.4	3575.5	4259.2	4942.7	5655.9	6349.4	6952.1	7204.2	7771.7	8608.8
80°	1448.0	1623.3	1812.4	2023.2	2308.8	2539.4	2844.7	3065.3	3081.0	3260.3	3516.5
82.5°	967.3	1032.3	1089.4	1142.6	1215.5	1272.7	1337.6	1414.4	1445.9	1487.4	1570.1
85°	659.9	691.5	703.3	736.7	728.9	748.6	774.2	799.8	813.7	811.6	849.0
87.5°	405.8	421.6	429.4	437.3	431.4	423.5	435.4	449.2	453.1	441.3	445.2
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5
2.5°	3611.0	3593.3	3575.5	3563.8	3559.8	3455.4	3410.1	3380.5	3317.4	3266.3	3224.9
5°	3983.4	3945.9	3916.4	3880.9	3861.2	3597.2	3500.6	3433.7	3323.4	3258.4	3199.3
7.5°	4582.2	4477.8	4416.7	4347.7	4288.7	3811.9	3652.3	3548.0	3394.4	3307.6	3240.6
10°	5261.9	5153.5	5057.0	4950.6	4858.0	4097.6	3865.1	3703.6	3500.6	3388.4	3299.7
12.5°	6020.3	5913.9	5791.7	5655.9	5537.6	4460.1	4137.0	3906.5	3628.7	3479.1	3354.9
15°	6916.7	6729.5	6581.8	6424.1	6286.2	4893.5	4454.1	4135.1	3764.7	3561.7	3396.3
17.5°	7750.0	7553.0	7352.0	7214.2	7054.6	5380.1	4773.3	4367.5	3877.0	3614.9	3404.2
20°	8563.5	8348.8	8175.5	7990.3	7822.8	5884.4	5114.1	4572.4	3949.8	3616.9	3354.9
22.5°	9280.6	9146.7	8953.7	8752.7	8583.3	6388.7	5433.3	4745.7	3977.4	3571.6	3268.2
25°	10096.2	9954.4	9718.0	9548.5	9359.5	6902.9	5746.5	4879.7	3961.7	3486.9	3134.2
27.5°	10967.0	10809.4	10567.1	10389.8	10161.3	7436.8	6034.1	4976.2	3902.6	3349.0	2955.0
30°	11875.1	11731.3	11493.0	11313.7	11083.2	8002.1	6355.2	5041.2	3784.4	3158.0	2746.2
32.5°	12850.3	12730.1	12493.7	12306.6	12060.3	8614.8	6654.6	5060.9	3605.1	2931.4	2525.6
35°	13776.2	13693.4	13494.5	13319.1	13063.1	9194.0	6971.8	5051.0	3392.3	2683.1	2324.6
37.5°	14818.4	14769.1	14670.5	14448.0	14134.7	9980.0	7352.0	5009.7	3132.3	2436.9	2170.9
40°	15929.4	15933.4	15827.0	15675.3	15383.7	10933.5	7805.1	4928.9	2848.6	2220.2	2031.1
42.5°	17105.5	17166.5	17115.3	17007.0	16727.3	11894.9	8346.9	4830.5	2572.8	2009.4	1893.2
45°	18453.0	18527.8	18606.7	18447.1	18175.2	13163.5	9060.0	4702.4	2275.3	1834.0	1798.7
47.5°	20007.3	20125.5	20196.4	20198.4	19926.6	14735.6	10218.4	4625.6	2011.3	1715.9	1753.3
50°	23287.4	23324.8	23492.3	23783.8	23574.9	18374.1	12241.6	4578.3	1832.1	1643.0	1719.8
52.5°	28013.4	28425.1	28714.6	28695.0	28411.3	20685.0	13356.6	4334.0	1725.7	1615.4	1704.0
55°	29938.1	30452.2	30988.0	31129.9	30909.3	22656.9	14410.5	4089.8	1674.5	1635.1	1710.0
57.5°	32503.0	33369.8	34104.6	34413.9	34094.7	25180.5	15797.4	3961.7	1658.7	1688.3	1747.4
60°	35499.4	36571.0	37536.4	38091.9	38091.9	28080.3	17235.5	3908.5	1637.0	1767.0	1810.4
62.5°	37424.0	38998.1	40455.9	41269.5	41245.9	30099.6	17873.8	3727.2	1587.8	1822.3	1897.1
65°	37431.9	39303.4	41161.1	42075.2	42122.5	29851.3	16819.9	3291.9	1497.2	1830.2	1983.8
67.5°	34311.4	36307.1	38472.1	39494.5	39730.9	27479.5	14560.3	2706.7	1349.5	1751.3	2015.3
70°	28978.7	30927.0	33137.4	34142.0	34561.6	23425.3	11727.4	2086.2	1160.3	1578.0	1950.3
72.5°	22830.3	24741.2	26279.8	27014.6	27341.6	17905.3	8539.9	1576.0	951.5	1329.7	1774.9
75°	16163.9	17598.0	18415.6	18579.0	18630.3	10793.7	5189.0	1172.2	784.1	1034.2	1499.1
77.5°	9123.1	9737.7	9670.7	9743.6	9136.9	4166.6	2259.6	839.2	646.2	786.0	1162.3
80°	3561.7	3672.1	3449.5	3380.5	3100.8	1550.4	996.9	585.1	516.2	594.9	813.7
82.5°	1570.1	1621.3	1574.0	1585.9	1516.9	799.8	596.9	423.5	394.0	435.4	539.8
85°	864.8	880.6	876.7	902.2	864.8	319.2	283.7	260.0	275.8	295.5	346.7
87.5°	421.6	425.5	411.7	433.4	419.6	161.5	139.8	147.7	161.5	165.5	165.5
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: P191424

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-1200

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5
2.5°	3195.3	3179.5	3181.6	3177.6	3169.7	3169.7
5°	3167.8	3152.0	3152.0	3148.0	3138.2	3140.2
7.5°	3195.3	3169.7	3159.9	3146.1	3132.3	3132.3
10°	3226.9	3181.6	3154.0	3130.3	3112.6	3112.6
12.5°	3250.5	3179.5	3134.2	3102.7	3085.0	3085.0
15°	3258.4	3165.8	3102.7	3065.3	3049.5	3047.6
17.5°	3232.7	3112.6	3035.8	2992.4	2972.7	2966.9
20°	3154.0	3016.1	2923.5	2874.2	2846.7	2836.8
22.5°	3035.8	2878.2	2769.8	2718.6	2683.1	2677.3
25°	2870.3	2700.9	2594.5	2545.2	2525.6	2519.6
27.5°	2677.3	2519.6	2429.0	2397.5	2379.8	2377.7
30°	2494.1	2360.0	2293.0	2269.4	2247.7	2243.8
32.5°	2322.6	2237.9	2212.3	2178.8	2127.6	2121.7
35°	2200.5	2192.6	2174.9	2100.0	2037.0	2019.2
37.5°	2125.6	2198.5	2107.9	1960.2	1914.9	1910.9
40°	2082.3	2137.5	1981.9	1930.6	1934.5	1930.6
42.5°	1983.8	2040.9	1985.8	1962.1	1977.9	1981.9
45°	1885.3	1948.3	2015.3	1999.6	2037.0	2037.0
47.5°	1830.2	1924.7	2013.4	2013.4	2068.5	2088.1
50°	1767.0	1904.9	1981.9	2009.4	2052.8	2037.0
52.5°	1763.2	1871.5	1936.5	1985.8	2005.5	1987.7
55°	1769.1	1843.9	1891.2	1946.4	1970.0	1971.9
57.5°	1777.0	1828.1	1859.7	1885.3	1956.2	1956.2
60°	1796.6	1814.4	1832.1	1845.9	1938.5	1940.4
62.5°	1828.1	1800.6	1796.6	1810.4	1928.7	1920.8
65°	1877.4	1780.9	1751.3	1765.1	1918.7	1895.1
67.5°	1944.4	1751.3	1694.2	1704.0	1910.9	1859.7
70°	2005.5	1704.0	1623.3	1613.4	1836.0	1745.5
72.5°	2011.3	1648.9	1524.8	1495.2	1595.7	1509.1
75°	1912.9	1611.5	1416.4	1329.7	1318.0	1306.1
77.5°	1723.8	1589.8	1290.4	1154.4	1130.8	1138.6
80°	1442.1	1509.1	1138.6	977.1	1105.2	1091.4
82.5°	1077.6	1331.7	967.3	864.8	862.9	762.4
85°	598.8	1038.2	788.0	648.1	451.1	437.3
87.5°	167.5	577.3	551.6	366.4	250.2	260.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)