

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: P269582

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269582
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-08-LED-E1-T2R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28449.2 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 257
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

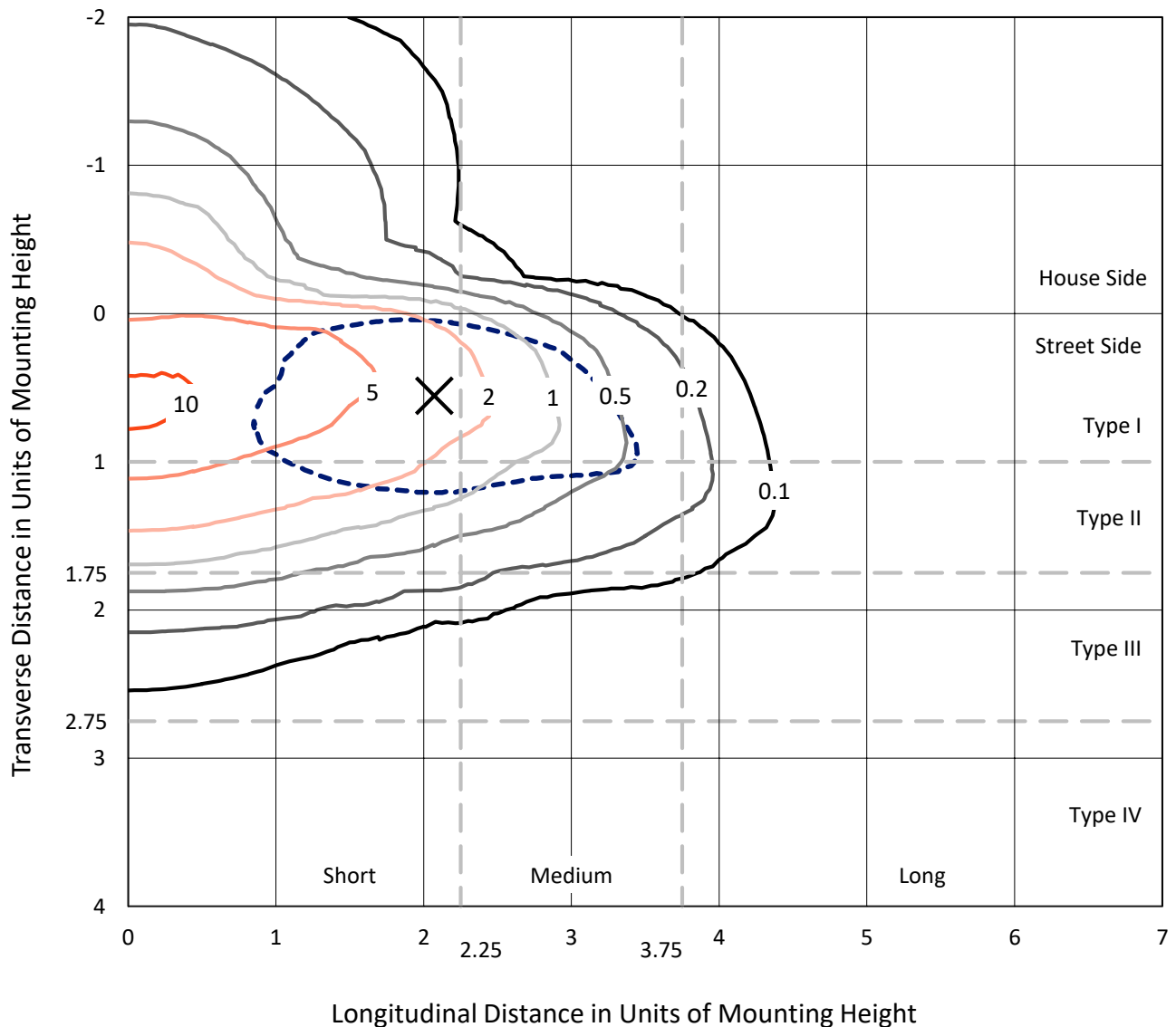


REPORT NUMBER: P269582

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7027-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

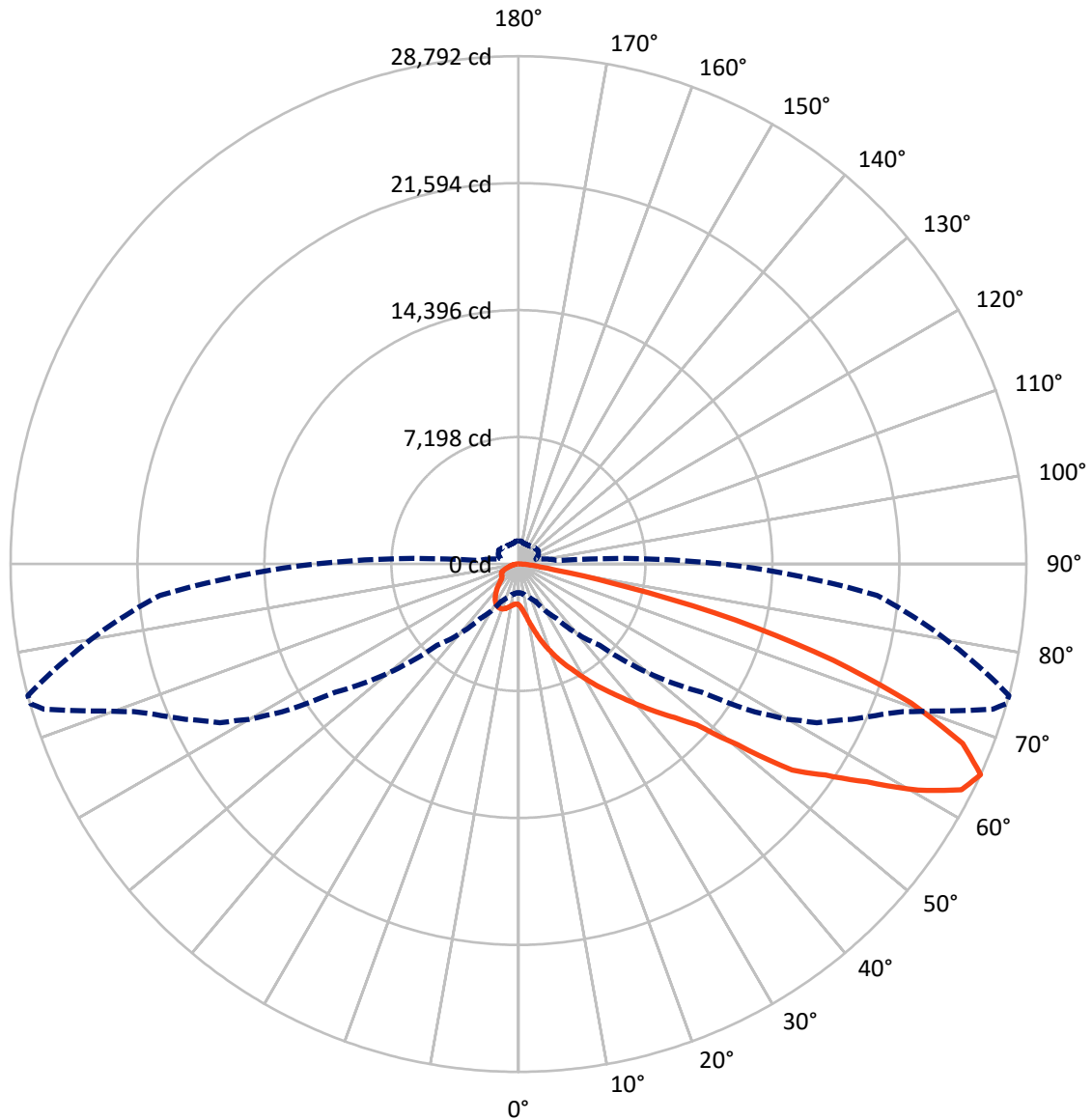


Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P269582

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7027-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269582

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4386.2	0.0	4386.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	24063.0	0.0	24063.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	28449.2	0.0	28449.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	1.0
10°-20°	1116.6	3.9
20°-30°	2290.9	8.1
30°-40°	3854.3	13.5
40°-50°	5325.6	18.7
50°-60°	6647.9	23.4
60°-70°	5982.4	21.0
70°-80°	2507.8	8.8
80°-90°	438.1	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°	28449.2	100.0
0°-180°	28449.2	100.0



REPORT NUMBER: P269582

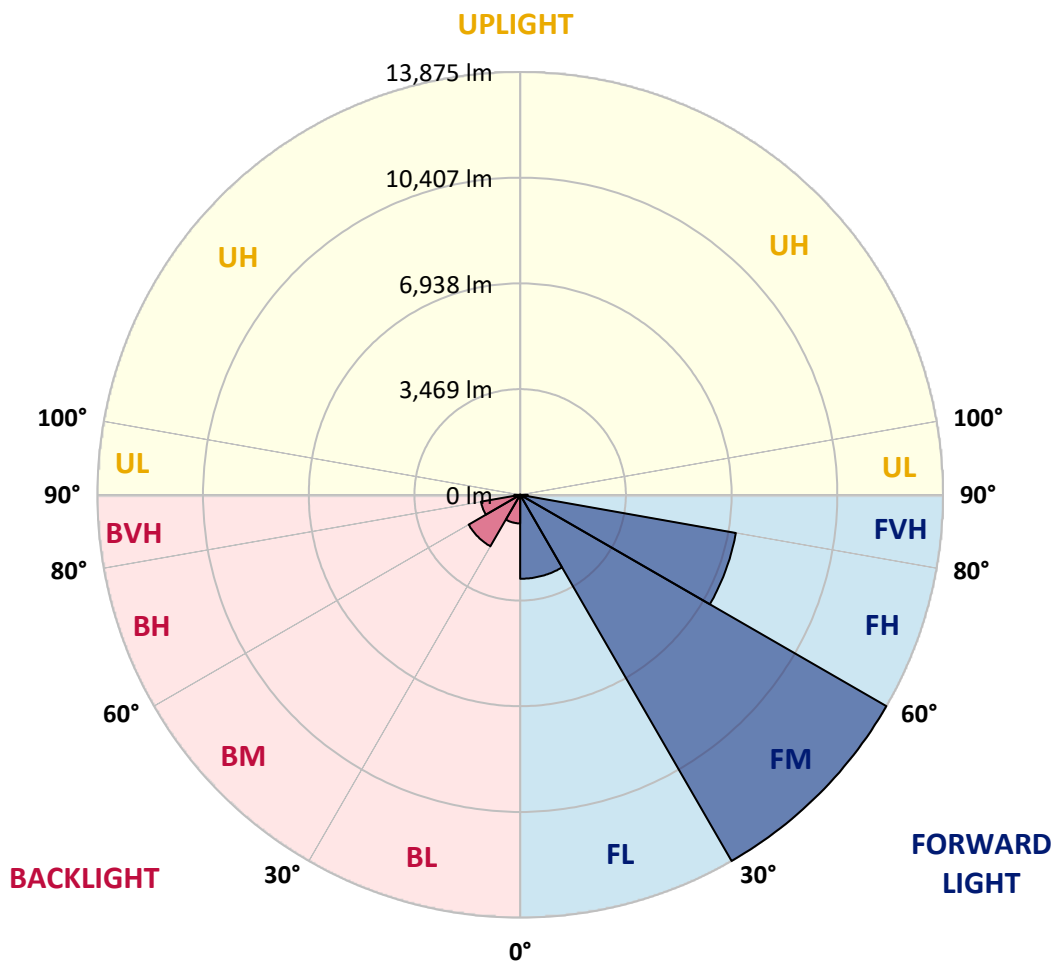
CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2755.2	9.7			
FM (30°-60°)	13875.4	48.8			
FH (60°-80°)	7186.2	25.3			G3/7500
FVH (80°-90°)	246.3	0.9			G3/500
BL (0°-30°)	938.0	3.3	B2/1000		
BM (30°-60°)	1952.4	6.9	B2/2500		
BH (60°-80°)	1304.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	191.9	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: P269582

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1
2.5°	2935.5	2903.2	2911.2	2857.4	2791.5	2705.2	2609.7	2608.3	2609.7	2600.2	2565.2
5°	4070.7	4031.7	4016.9	3895.6	3717.8	3464.8	3190.1	3160.3	3148.3	3117.3	3046.0
7.5°	4898.7	4877.3	4854.4	4762.8	4601.2	4318.4	3949.5	3886.2	3825.6	3810.8	3729.9
10°	5433.4	5428.0	5379.5	5355.2	5254.2	5009.2	4649.6	4589.1	4523.1	4500.1	4415.3
12.5°	5856.2	5854.9	5831.9	5838.7	5751.2	5573.4	5263.7	5208.6	5160.0	5089.9	5029.4
15°	6148.4	6149.7	6183.5	6221.1	6207.6	6087.9	5796.9	5772.7	5730.9	5682.5	5611.2
17.5°	6388.0	6394.9	6429.8	6498.5	6572.5	6563.1	6333.0	6312.7	6276.3	6210.3	6172.7
20°	6929.3	6954.9	6887.7	6887.7	6895.7	6932.1	6821.6	6805.5	6754.4	6719.3	6689.7
22.5°	7843.7	7873.4	7721.2	7566.3	7414.2	7303.7	7193.3	7213.5	7178.5	7154.3	7136.8
25°	9031.4	9054.2	8807.8	8546.7	8236.9	7833.0	7559.5	7547.5	7528.6	7513.9	7505.7
27.5°	10149.1	10158.5	9925.6	9543.1	9183.6	8603.2	7931.2	7916.5	7893.5	7865.3	7841.0
30°	11105.0	11102.4	10862.8	10497.9	10112.7	9470.3	8495.5	8449.6	8382.4	8305.5	8246.4
32.5°	11933.3	11929.2	11666.6	11288.2	10884.3	10329.5	9268.4	9174.1	9069.1	8919.6	8829.4
35°	12585.0	12582.3	12334.4	11939.9	11476.7	11138.8	10154.4	10038.6	9905.3	9704.7	9566.1
37.5°	12831.4	12831.4	12692.7	12423.4	12014.0	11782.3	11138.8	10998.7	10855.9	10628.3	10472.3
40°	12687.3	12689.9	12719.6	12669.8	12470.5	12292.8	12057.1	11973.6	11851.1	11646.3	11483.5
42.5°	12203.8	12218.7	12415.2	12656.3	12755.9	12727.6	12871.8	12834.1	12747.8	12590.4	12461.1
45°	11591.2	11637.0	11852.4	12307.6	12835.4	13103.3	13554.4	13558.5	13542.4	13457.5	13357.8
47.5°	10749.6	10814.2	11098.4	11713.7	12649.7	13468.3	14247.9	14284.3	14317.9	14262.7	14216.9
50°	9631.9	9708.7	10134.1	10950.2	12271.1	13846.7	15558.1	15722.5	15875.9	15857.2	15888.1
52.5°	8434.8	8525.0	9046.2	9955.1	11620.8	13934.1	16395.8	16663.6	16931.7	17151.1	17384.1
55°	7355.0	7306.5	7827.6	8785.0	10551.6	13539.7	17148.5	17471.7	17770.5	18039.9	18317.2
57.5°	5891.3	5970.7	6493.0	7439.8	9136.4	12426.1	17666.8	18139.6	18569.0	19014.8	19408.1
60°	4306.3	4385.7	4952.6	5914.1	7600.0	10737.5	17271.0	17987.3	18675.5	19358.1	19891.3
62.5°	2600.2	2659.4	3159.0	4074.7	5860.3	8735.1	15507.0	16446.9	17459.5	18275.5	19092.8
65°	1618.6	1652.3	1836.8	2340.4	3763.5	6521.3	12669.8	13694.5	14785.3	15820.7	16670.3
67.5°	1325.0	1337.1	1370.9	1478.5	2067.0	4252.4	9430.0	10337.5	11321.9	12323.7	13269.0
70°	1191.7	1183.6	1183.6	1190.3	1325.0	2286.5	6174.1	6765.1	7585.2	8456.5	9321.0
72.5°	1075.9	1067.8	1053.1	1032.8	1081.3	1395.1	3191.4	3637.1	4228.2	5002.5	5830.5
75°	966.8	956.1	938.5	912.9	946.6	1053.1	1532.4	1719.5	2007.7	2419.8	2881.7
77.5°	853.7	840.3	824.0	805.2	848.3	818.7	898.1	965.5	1075.9	1208.0	1381.6
80°	725.8	713.7	708.4	698.9	750.1	623.5	634.3	676.0	740.7	812.0	892.7
82.5°	568.3	568.3	589.7	593.8	650.5	448.4	473.9	510.3	544.1	581.7	619.4
85°	374.4	377.1	449.7	478.0	513.0	301.7	355.5	367.5	394.5	416.1	432.3
87.5°	117.1	126.7	274.7	304.3	295.0	170.9	218.2	223.5	242.5	257.2	270.7
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: P269582

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7027-600

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1
2.5°	2565.2	2549.0	2534.2	2533.0	2522.1	2507.3	2512.6	2489.8	2491.1	2479.1	2465.6
5°	3016.2	3005.5	2951.7	2936.9	2896.4	2870.9	2866.9	2813.0	2806.2	2775.3	2741.5
7.5°	3665.4	3630.3	3555.0	3518.5	3449.9	3398.6	3374.5	3303.1	3268.2	3187.2	3151.0
10°	4345.3	4300.9	4208.0	4156.8	4090.8	4008.6	3964.3	3860.6	3820.2	3746.1	3657.3
12.5°	4975.5	4931.1	4835.4	4796.4	4708.9	4621.4	4572.9	4455.8	4403.2	4284.7	4214.8
15°	5558.6	5514.2	5430.7	5390.3	5302.8	5231.4	5166.7	5050.9	4988.9	4878.5	4787.0
17.5°	6124.1	6077.0	6004.4	5968.0	5883.1	5810.3	5740.3	5631.4	5568.1	5457.7	5375.5
20°	6649.3	6614.3	6561.8	6513.3	6428.5	6362.4	6279.1	6184.7	6093.2	6012.4	5934.4
22.5°	7107.1	7093.6	7037.1	7015.6	6942.9	6886.2	6813.6	6720.7	6654.7	6552.3	6479.7
25°	7501.7	7497.7	7470.8	7463.9	7412.9	7358.9	7342.7	7266.0	7205.5	7115.2	7039.7
27.5°	7841.0	7845.1	7838.3	7857.1	7843.7	7819.4	7820.9	7795.2	7760.2	7684.8	7618.9
30°	8218.1	8196.6	8208.6	8235.5	8243.7	8246.4	8290.7	8305.5	8302.9	8253.1	8220.7
32.5°	8751.3	8700.2	8653.1	8648.9	8675.9	8686.7	8762.1	8801.1	8834.8	8846.9	8852.3
35°	9431.3	9329.0	9230.7	9178.2	9132.3	9144.4	9198.4	9261.6	9335.6	9386.8	9447.5
37.5°	10287.7	10162.4	9988.8	9864.8	9833.9	9766.6	9801.5	9851.4	9924.1	10003.5	10108.6
40°	11325.9	11136.1	10940.7	10776.5	10687.7	10563.8	10562.5	10553.0	10597.5	10671.4	10819.6
42.5°	12325.0	12156.8	11949.3	11777.0	11661.2	11495.6	11462.0	11374.3	11394.6	11459.1	11603.2
45°	13260.9	13122.3	12995.7	12796.4	12698.0	12519.0	12462.5	12358.7	12300.9	12330.5	12474.6
47.5°	14167.2	14078.2	13946.4	13817.1	13741.6	13581.5	13508.7	13434.6	13360.6	13357.8	13508.7
50°	15933.9	15886.7	15730.5	15595.8	15632.2	15435.7	15447.8	15248.5	15338.6	15349.3	15665.9
52.5°	17594.2	17758.5	17874.3	18015.6	18107.1	18124.7	18185.3	18275.5	18384.6	18600.0	18893.6
55°	18544.8	18750.9	18870.7	18978.4	19156.1	19193.8	19294.9	19414.7	19510.3	19752.7	20001.8
57.5°	19674.6	20056.9	20242.9	20413.9	20653.6	20745.1	20913.4	21044.1	21167.9	21454.7	21756.4
60°	20370.8	20836.6	21215.0	21485.8	21786.1	22001.5	22256.0	22460.6	22751.6	23094.9	23544.5
62.5°	19817.2	20501.4	21003.6	21468.2	21876.2	22288.2	22653.2	23035.5	23477.3	23997.1	24694.5
65°	17613.0	18309.2	19169.7	19651.7	20191.7	20827.3	21382.0	22001.5	22603.3	23360.2	24391.6
67.5°	14179.2	14988.6	15955.3	16441.5	17062.2	17771.9	18394.1	19150.7	19853.7	20770.7	22045.8
70°	10220.3	11266.6	12080.0	12587.6	13312.2	14043.3	14643.8	15524.5	16106.3	17046.1	18364.4
72.5°	6471.6	7297.0	8293.4	8933.0	9576.7	10317.4	10931.4	11690.8	12233.5	13089.9	14284.3
75°	3479.6	4088.1	4963.4	5570.7	6260.2	6893.1	7612.1	8121.0	8522.4	9199.7	10169.3
77.5°	1630.8	2001.0	2444.0	2911.2	3378.5	3865.9	4339.9	4752.0	4924.4	5312.1	5884.4
80°	989.8	1109.5	1238.9	1382.9	1578.1	1735.7	1944.4	2095.2	2106.0	2228.5	2403.7
82.5°	661.2	705.6	744.7	780.9	830.8	869.9	914.4	966.8	988.3	1016.6	1073.3
85°	451.0	472.7	480.8	503.6	498.2	511.7	529.2	546.7	556.1	554.9	580.3
87.5°	277.3	288.1	293.6	299.0	295.0	289.6	297.6	307.0	309.7	301.7	304.3
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: P269582

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7027-600

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1
2.5°	2468.3	2456.1	2444.0	2435.9	2433.1	2361.9	2330.9	2310.7	2267.6	2232.6	2204.4
5°	2722.8	2697.2	2676.9	2652.8	2639.3	2458.8	2392.8	2347.0	2271.6	2227.2	2186.8
7.5°	3132.1	3060.7	3018.9	2971.9	2931.4	2605.7	2496.5	2425.2	2320.1	2260.9	2215.1
10°	3596.6	3522.7	3456.6	3383.9	3320.7	2800.8	2641.9	2531.6	2392.8	2316.1	2255.5
12.5°	4115.0	4042.4	3958.9	3865.9	3785.2	3048.6	2827.8	2670.2	2480.4	2378.1	2293.3
15°	4727.8	4599.9	4498.8	4391.2	4296.9	3344.8	3044.5	2826.4	2573.3	2434.5	2321.5
17.5°	5297.3	5162.6	5025.4	4931.1	4822.0	3677.4	3262.7	2985.3	2650.0	2471.0	2326.9
20°	5853.4	5706.8	5588.3	5461.6	5347.3	4022.3	3495.7	3125.4	2699.9	2472.2	2293.3
22.5°	6343.7	6252.1	6120.2	5982.7	5867.0	4366.9	3713.9	3243.9	2718.7	2441.4	2233.9
25°	6901.0	6804.1	6642.5	6526.7	6397.5	4718.3	3927.8	3335.4	2707.9	2383.5	2142.4
27.5°	7496.3	7388.6	7222.9	7101.8	6945.5	5083.2	4124.5	3401.4	2667.5	2289.2	2019.8
30°	8117.1	8018.8	7855.9	7733.2	7575.8	5469.7	4344.1	3445.9	2586.7	2158.5	1877.1
32.5°	8783.5	8701.4	8539.8	8412.0	8243.7	5888.5	4548.7	3459.4	2464.2	2003.7	1726.4
35°	9416.6	9359.9	9223.9	9104.1	8929.1	6284.5	4765.5	3452.5	2318.7	1834.0	1588.9
37.5°	10128.7	10095.2	10027.8	9875.6	9661.6	6821.6	5025.4	3424.2	2141.0	1665.6	1483.9
40°	10888.3	10891.1	10818.3	10714.5	10515.3	7473.4	5335.0	3369.2	1947.2	1517.5	1388.3
42.5°	11692.2	11733.9	11698.8	11624.8	11433.6	8130.5	5705.3	3301.8	1758.6	1373.5	1294.1
45°	12613.2	12664.3	12718.3	12609.1	12423.4	8997.8	6192.8	3214.2	1555.2	1253.7	1229.4
47.5°	13675.6	13756.5	13805.0	13806.3	13620.5	10072.2	6984.6	3161.8	1374.9	1172.8	1198.5
50°	15917.6	15943.3	16057.7	16257.0	16114.2	12559.4	8367.5	3129.4	1252.2	1123.1	1175.5
52.5°	19148.1	19429.5	19627.4	19614.0	19420.1	14139.0	9129.7	2962.4	1179.6	1104.1	1164.8
55°	20463.7	20815.2	21181.3	21278.3	21127.5	15486.8	9850.0	2795.4	1144.6	1117.6	1168.9
57.5°	22216.9	22809.4	23311.6	23523.0	23304.9	17211.7	10798.0	2707.9	1133.8	1154.1	1194.3
60°	24264.9	24997.6	25657.4	26037.1	26037.1	19193.8	11781.0	2671.6	1119.0	1208.0	1237.4
62.5°	25580.7	26656.6	27653.0	28209.0	28192.9	20574.2	12217.4	2547.8	1085.3	1245.6	1296.8
65°	25586.0	26865.3	28135.1	28759.9	28792.1	20404.5	11497.0	2250.2	1023.3	1251.0	1356.0
67.5°	23452.9	24817.0	26297.0	26995.9	27157.4	18783.2	9952.4	1850.1	922.4	1197.1	1377.6
70°	19807.8	21139.6	22650.6	23337.2	23624.0	16012.0	8016.0	1426.0	793.2	1078.5	1333.1
72.5°	15605.3	16911.4	17963.0	18465.4	18688.9	12238.9	5837.4	1077.2	650.5	908.9	1213.3
75°	11048.6	12028.8	12587.6	12699.3	12734.5	7377.8	3546.9	801.2	535.8	707.0	1024.7
77.5°	6235.9	6656.0	6610.3	6660.0	6245.3	2847.9	1544.5	573.7	441.6	537.2	794.6
80°	2434.5	2510.0	2357.8	2310.7	2119.6	1059.7	681.4	399.9	352.9	406.7	556.1
82.5°	1073.3	1108.1	1075.9	1084.0	1036.9	546.7	408.0	289.6	269.3	297.6	368.9
85°	591.2	602.0	599.2	616.7	591.2	218.2	193.9	177.8	188.6	201.9	237.1
87.5°	288.1	290.8	281.3	296.3	286.7	110.4	95.6	101.0	110.4	113.0	113.0
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: P269582

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7027-600

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1
2.5°	2184.0	2173.4	2174.6	2172.0	2166.6	2166.6
5°	2165.3	2154.4	2154.4	2151.8	2145.1	2146.4
7.5°	2184.0	2166.6	2159.9	2150.5	2141.0	2141.0
10°	2205.7	2174.6	2155.8	2139.8	2127.5	2127.5
12.5°	2221.8	2173.4	2142.4	2120.8	2108.7	2108.7
15°	2227.2	2163.9	2120.8	2095.2	2084.4	2083.1
17.5°	2209.7	2127.5	2075.1	2045.4	2032.0	2028.0
20°	2155.8	2061.6	1998.3	1964.7	1945.8	1939.0
22.5°	2075.1	1967.3	1893.3	1858.2	1834.0	1829.9
25°	1962.0	1846.1	1773.4	1739.7	1726.4	1722.2
27.5°	1829.9	1722.2	1660.2	1638.8	1626.7	1625.4
30°	1704.8	1613.1	1567.5	1551.3	1536.5	1533.8
32.5°	1587.6	1529.8	1512.1	1489.3	1454.3	1450.3
35°	1504.1	1498.7	1486.7	1435.4	1392.4	1380.2
37.5°	1453.0	1502.8	1440.8	1339.8	1308.9	1306.1
40°	1423.4	1461.1	1354.6	1319.6	1322.3	1319.6
42.5°	1356.0	1395.1	1357.2	1341.2	1351.9	1354.6
45°	1288.7	1331.7	1377.6	1366.7	1392.4	1392.4
47.5°	1251.0	1315.6	1376.3	1376.3	1413.9	1427.3
50°	1208.0	1302.2	1354.6	1373.5	1403.2	1392.4
52.5°	1205.2	1279.2	1323.7	1357.2	1370.9	1358.6
55°	1209.2	1260.4	1292.8	1330.4	1346.6	1347.8
57.5°	1214.6	1249.6	1271.1	1288.7	1337.1	1337.1
60°	1228.1	1240.2	1252.2	1261.7	1325.0	1326.3
62.5°	1249.6	1230.8	1228.1	1237.4	1318.4	1313.0
65°	1283.3	1217.4	1197.1	1206.6	1311.5	1295.4
67.5°	1329.0	1197.1	1158.0	1164.8	1306.1	1271.1
70°	1370.9	1164.8	1109.5	1102.8	1255.0	1193.0
72.5°	1374.9	1127.1	1042.3	1022.0	1090.7	1031.4
75°	1307.6	1101.5	968.2	908.9	900.8	892.7
77.5°	1178.2	1086.7	882.0	789.2	772.9	778.3
80°	985.7	1031.4	778.3	667.9	755.5	746.0
82.5°	736.6	910.3	661.2	591.2	589.7	521.1
85°	409.4	709.7	538.7	443.0	308.4	299.0
87.5°	114.4	394.5	377.1	250.4	170.9	177.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)