

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: P191394

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191394
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 24997.9 lumens
Efficiency: N/A
Efficacy: 129.5 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): 193
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

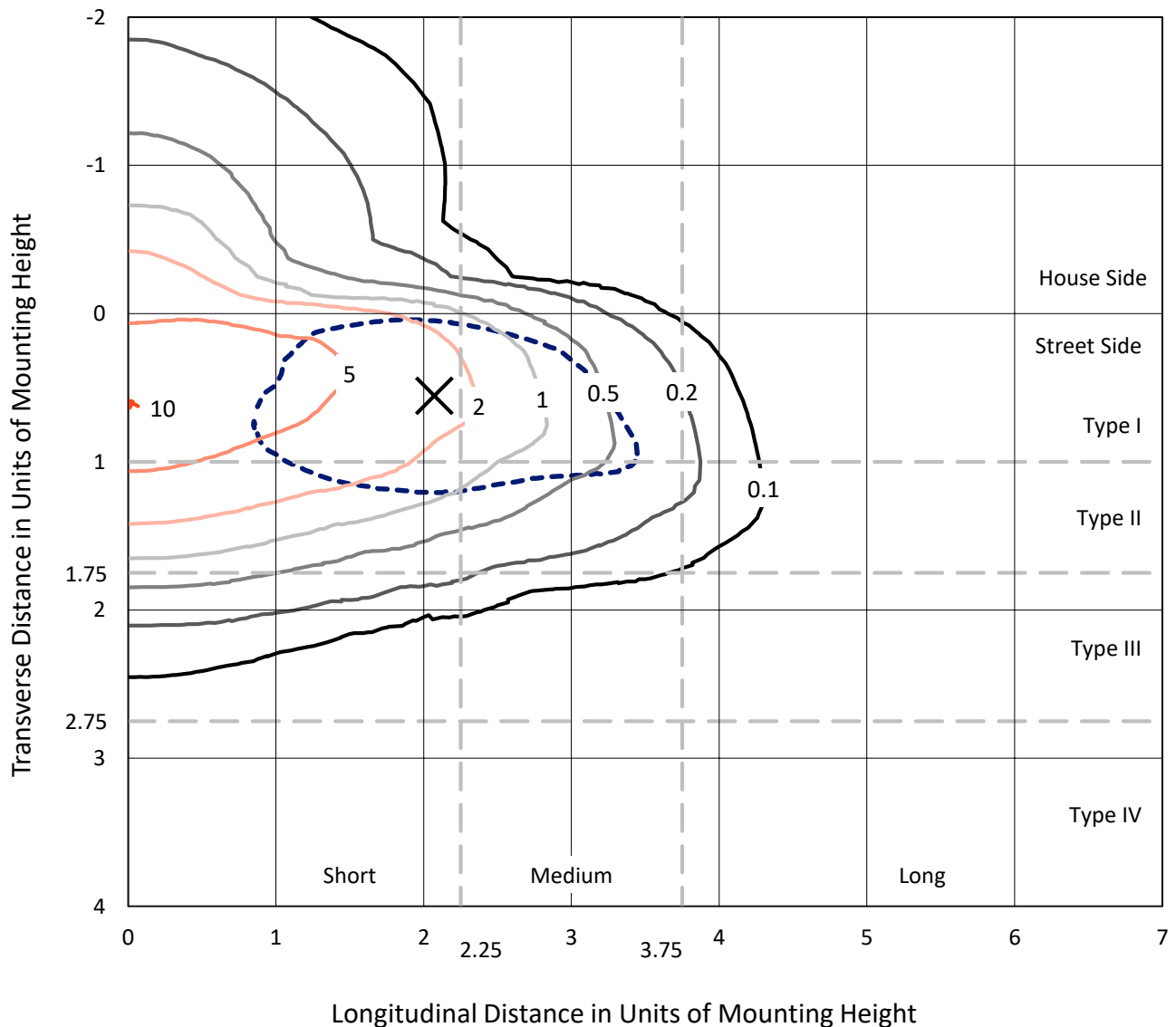


REPORT NUMBER: P191394

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

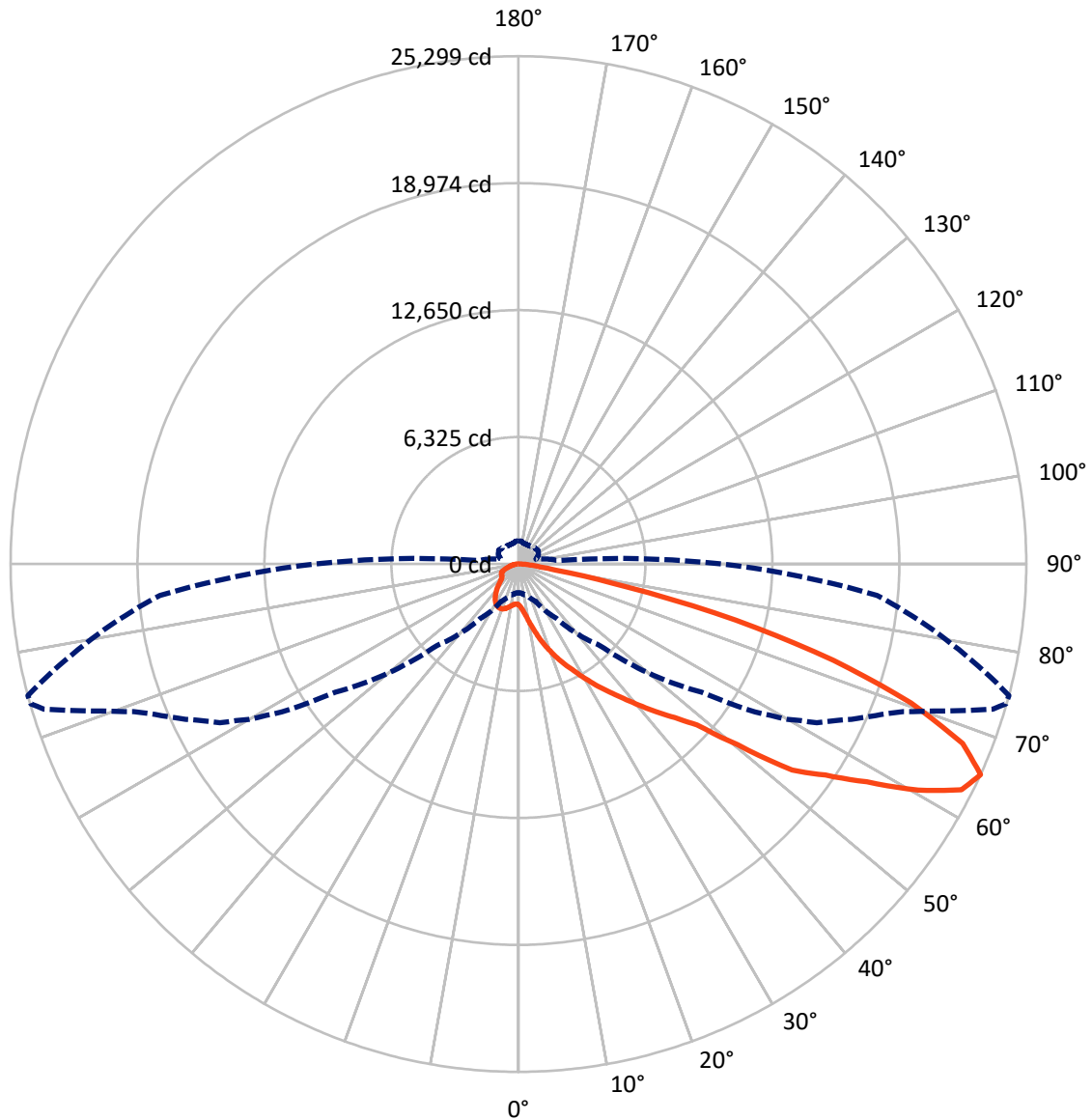


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P191394

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191394

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3854.1	0.0	3854.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	21143.8	0.0	21143.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	24997.9	0.0	24997.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	1.0
10°-20°	981.1	3.9
20°-30°	2013.0	8.1
30°-40°	3386.7	13.5
40°-50°	4679.5	18.7
50°-60°	5841.4	23.4
60°-70°	5256.6	21.0
70°-80°	2203.5	8.8
80°-90°	385.0	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°	24997.9	100.0
0°-180°	24997.9	100.0



REPORT NUMBER: P191394

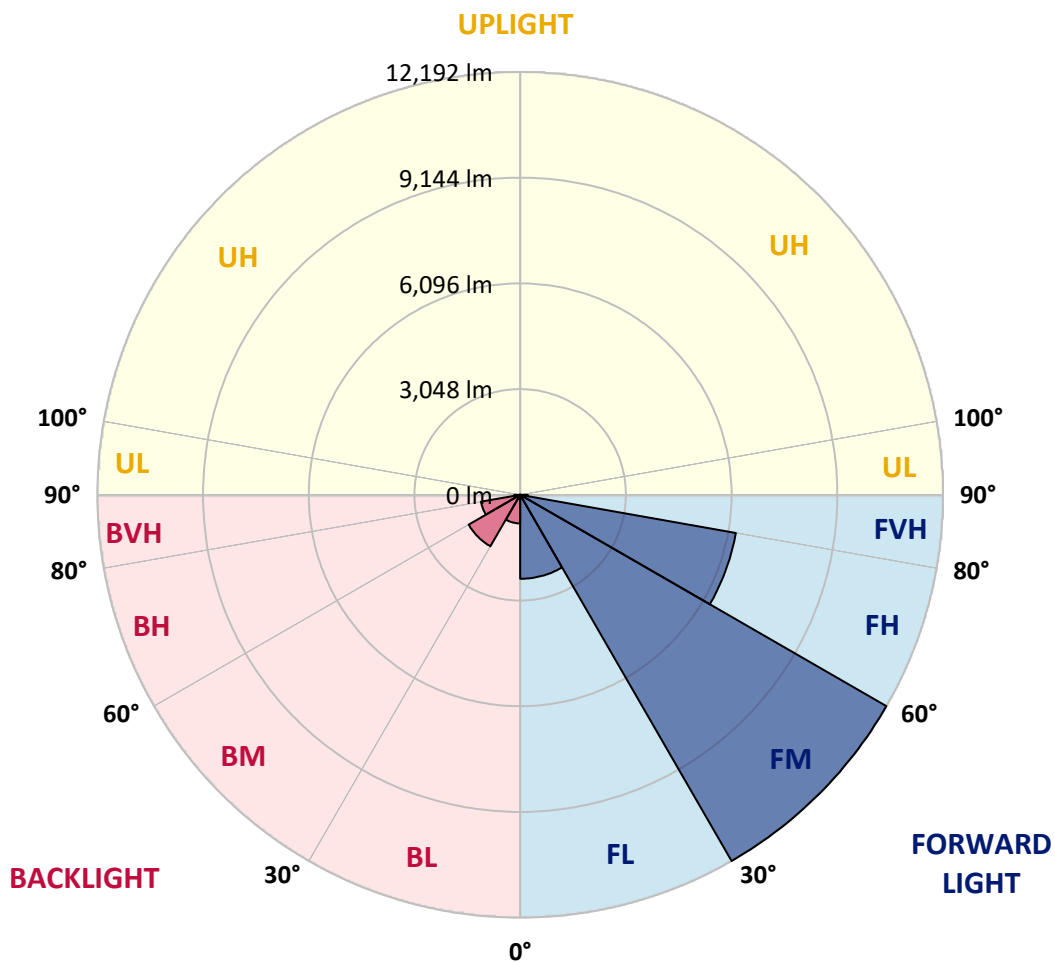
CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2421.0	9.7			
FM (30°-60°)	12192.1	48.8			
FH (60°-80°)	6314.4	25.3			G3/7500
FVH (80°-90°)	216.4	0.9			G2/225
BL (0°-30°)	824.2	3.3	B2/1000		
BM (30°-60°)	1715.5	6.9	B2/2500		
BH (60°-80°)	1145.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	168.6	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: P191394

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6
2.5°	2579.4	2550.9	2558.1	2510.7	2452.7	2377.0	2293.0	2291.8	2293.0	2284.8	2254.0
5°	3576.8	3542.5	3529.5	3423.0	3266.8	3044.4	2803.0	2777.0	2766.4	2739.2	2676.3
7.5°	4304.5	4285.6	4265.4	4185.0	4043.0	3794.5	3470.4	3414.7	3361.5	3348.4	3277.4
10°	4774.2	4769.5	4726.9	4705.6	4616.9	4401.6	4085.6	4032.4	3974.4	3954.2	3879.7
12.5°	5145.7	5144.5	5124.5	5130.3	5053.5	4897.3	4625.2	4576.6	4534.0	4472.4	4419.2
15°	5402.5	5403.6	5433.3	5466.3	5454.6	5349.2	5093.7	5072.4	5035.7	4993.1	4930.4
17.5°	5613.1	5619.0	5649.8	5710.1	5775.2	5766.9	5564.5	5546.8	5514.9	5456.9	5423.8
20°	6088.7	6111.2	6052.1	6052.1	6059.1	6091.2	5994.1	5979.9	5935.0	5904.2	5878.2
22.5°	6892.1	6918.2	6784.4	6648.4	6514.7	6417.7	6320.6	6338.4	6307.6	6286.3	6271.0
25°	7935.7	7955.8	7739.3	7509.8	7237.6	6882.7	6642.5	6631.8	6615.2	6602.2	6595.2
27.5°	8917.8	8926.1	8721.4	8385.3	8069.4	7559.5	6969.1	6956.1	6935.9	6911.1	6889.8
30°	9757.8	9755.5	9544.8	9224.3	8885.9	8321.4	7464.8	7424.6	7365.5	7297.9	7245.9
32.5°	10485.6	10482.0	10251.2	9918.7	9563.8	9076.3	8143.9	8061.2	7968.9	7837.5	7758.3
35°	11058.2	11055.8	10838.1	10491.4	10084.5	9787.4	8922.5	8820.8	8703.6	8527.3	8405.5
37.5°	11274.7	11274.7	11152.8	10916.2	10556.5	10353.0	9787.4	9664.3	9538.9	9339.0	9201.7
40°	11148.1	11150.5	11176.5	11132.8	10957.6	10801.4	10594.4	10521.0	10413.3	10233.5	10090.3
42.5°	10723.3	10736.4	10909.1	11120.9	11208.5	11183.6	11310.2	11277.1	11201.3	11062.9	10949.4
45°	10185.0	10225.2	10414.6	10814.4	11278.2	11513.7	11910.1	11913.6	11899.5	11824.9	11737.3
47.5°	9445.5	9502.3	9751.9	10292.6	11115.0	11834.3	12519.4	12551.4	12581.0	12532.5	12492.2
50°	8463.4	8530.9	8904.8	9621.8	10782.5	12166.9	13670.7	13815.1	13949.9	13933.3	13960.6
52.5°	7411.6	7490.9	7948.7	8747.4	10211.0	12243.7	14406.6	14642.1	14877.6	15070.4	15275.1
55°	6462.6	6420.0	6877.9	7719.2	9271.5	11897.0	15068.1	15352.0	15614.7	15851.3	16095.1
57.5°	5176.5	5246.3	5705.4	6537.2	8028.0	10918.6	15523.6	15938.9	16316.3	16708.0	17053.4
60°	3783.9	3853.7	4351.8	5196.6	6678.0	9434.9	15175.7	15805.2	16409.8	17009.6	17478.2
62.5°	2284.8	2336.8	2775.8	3580.3	5149.3	7675.4	13625.7	14451.6	15341.4	16058.4	16776.6
65°	1422.2	1451.8	1613.9	2056.4	3307.0	5730.3	11132.8	12033.2	12991.6	13901.4	14648.0
67.5°	1164.2	1175.0	1204.5	1299.1	1816.2	3736.5	8285.9	9083.4	9948.3	10828.7	11659.3
70°	1047.1	1040.0	1040.0	1046.0	1164.2	2009.1	5425.0	5944.4	6664.9	7430.5	8190.2
72.5°	945.4	938.3	925.3	907.6	950.1	1225.8	2804.2	3195.8	3715.3	4395.6	5123.2
75°	849.6	840.0	824.7	802.2	831.8	925.3	1346.5	1510.9	1764.2	2126.2	2532.0
77.5°	750.1	738.4	724.1	707.6	745.4	719.3	789.2	848.3	945.4	1061.3	1213.9
80°	637.7	627.1	622.4	614.1	659.1	547.8	557.3	593.9	650.8	713.5	784.5
82.5°	499.3	499.3	518.2	521.8	571.5	394.0	416.4	448.5	478.0	511.2	544.3
85°	328.9	331.3	395.2	420.0	450.8	265.0	312.4	323.0	346.7	365.6	379.8
87.5°	102.9	111.2	241.4	267.4	259.1	150.3	191.7	196.4	213.0	226.0	237.8
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: P191394

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-600

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6
2.5°	2254.0	2239.8	2226.8	2225.6	2216.1	2203.1	2207.8	2187.8	2188.9	2178.3	2166.4
5°	2650.4	2641.0	2593.6	2580.6	2545.1	2522.6	2519.0	2471.7	2465.8	2438.6	2408.9
7.5°	3220.7	3189.9	3123.7	3091.7	3031.3	2986.4	2965.1	2902.4	2871.6	2800.6	2768.7
10°	3818.2	3779.2	3697.5	3652.5	3594.5	3522.4	3483.4	3392.2	3356.7	3291.7	3213.6
12.5°	4371.9	4332.9	4248.8	4214.6	4137.6	4060.7	4018.2	3915.2	3869.1	3765.0	3703.4
15°	4884.3	4845.2	4771.9	4736.4	4659.4	4596.7	4540.0	4438.2	4383.8	4286.8	4206.3
17.5°	5381.2	5339.8	5275.9	5244.0	5169.4	5105.5	5044.0	4948.1	4892.6	4795.5	4723.4
20°	5842.7	5811.9	5765.8	5723.1	5648.6	5590.6	5517.3	5434.4	5354.0	5283.0	5214.4
22.5°	6244.9	6233.0	6183.4	6164.5	6100.6	6050.9	5987.0	5905.4	5847.4	5757.5	5693.5
25°	6591.6	6588.0	6564.4	6558.4	6513.5	6466.2	6452.0	6384.5	6331.3	6252.1	6185.8
27.5°	6889.8	6893.4	6887.4	6904.0	6892.1	6870.9	6872.0	6849.6	6818.8	6752.5	6694.5
30°	7221.1	7202.1	7212.8	7236.5	7243.5	7245.9	7284.9	7297.9	7295.6	7251.8	7223.5
32.5°	7689.6	7644.6	7603.3	7599.7	7623.3	7632.8	7699.0	7733.4	7763.0	7773.6	7778.3
35°	8287.1	8197.2	8110.9	8064.6	8024.4	8035.1	8082.4	8138.1	8203.1	8248.1	8301.3
37.5°	9039.6	8929.6	8777.0	8668.1	8640.9	8581.7	8612.5	8656.3	8720.1	8790.0	8882.3
40°	9951.9	9785.0	9613.5	9469.1	9391.1	9282.2	9281.0	9272.7	9311.8	9376.9	9507.0
42.5°	10829.8	10682.0	10499.7	10348.3	10246.5	10100.9	10071.4	9994.5	10012.2	10069.0	10195.6
45°	11652.1	11530.3	11419.1	11244.0	11157.5	11000.2	10950.5	10859.4	10808.5	10834.6	10961.1
47.5°	12448.4	12370.3	12254.4	12140.8	12074.5	11933.7	11869.8	11804.8	11739.7	11737.3	11869.8
50°	14000.8	13959.4	13822.1	13703.9	13735.8	13563.0	13573.6	13398.5	13477.8	13487.3	13765.3
52.5°	15459.7	15604.0	15705.8	15830.1	15910.5	15925.9	15979.1	16058.4	16154.2	16343.6	16601.5
55°	16295.0	16476.1	16581.3	16676.0	16832.1	16865.3	16954.1	17059.3	17143.3	17356.3	17575.2
57.5°	17287.8	17623.8	17787.1	17937.3	18147.9	18228.4	18376.3	18491.1	18599.9	18852.0	19116.9
60°	17899.5	18308.9	18641.3	18879.2	19143.0	19332.3	19556.0	19735.8	19991.3	20293.1	20688.3
62.5°	17413.2	18014.2	18455.6	18863.7	19222.3	19584.3	19905.0	20241.0	20629.1	21085.8	21698.7
65°	15476.2	16087.9	16844.0	17267.6	17742.1	18300.6	18788.0	19332.3	19861.2	20526.1	21432.5
67.5°	12459.1	13170.2	14019.7	14446.8	14992.4	15615.9	16162.5	16827.4	17445.1	18250.9	19371.3
70°	8980.5	9899.8	10614.4	11060.6	11697.1	12339.5	12867.3	13641.2	14152.2	14978.1	16136.4
72.5°	5686.5	6411.8	7287.3	7849.3	8414.9	9065.7	9605.2	10272.6	10749.4	11501.9	12551.4
75°	3057.4	3592.2	4361.2	4894.9	5500.7	6056.8	6688.7	7135.9	7488.5	8083.7	8935.5
77.5°	1432.8	1758.2	2147.5	2558.1	2968.6	3397.0	3813.5	4175.5	4327.0	4667.7	5170.6
80°	869.6	975.0	1088.5	1215.2	1386.7	1525.1	1708.5	1841.1	1850.5	1958.2	2112.0
82.5°	580.9	620.0	654.3	686.3	730.1	764.3	803.4	849.6	868.5	893.3	943.1
85°	396.4	415.3	422.4	442.5	437.8	449.6	465.0	480.4	488.7	487.4	509.9
87.5°	243.8	253.2	258.0	262.7	259.1	254.4	261.5	269.8	272.1	265.0	267.4
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: P191394

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-600

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6
2.5°	2168.8	2158.1	2147.5	2140.4	2138.1	2075.4	2048.2	2030.4	1992.5	1961.7	1936.9
5°	2392.5	2370.0	2352.2	2330.9	2319.0	2160.5	2102.6	2062.3	1996.1	1957.0	1921.5
7.5°	2752.1	2689.4	2652.7	2611.3	2575.8	2289.5	2193.6	2130.9	2038.6	1986.6	1946.4
10°	3160.3	3095.2	3037.2	2973.4	2917.8	2461.0	2321.5	2224.4	2102.6	2035.1	1981.9
12.5°	3615.8	3552.0	3478.6	3397.0	3326.0	2678.8	2484.7	2346.2	2179.5	2089.5	2015.0
15°	4154.2	4041.8	3953.1	3858.4	3775.6	2939.0	2675.2	2483.5	2261.1	2139.2	2039.9
17.5°	4654.7	4536.4	4415.7	4332.9	4237.1	3231.3	2866.9	2623.2	2328.5	2171.2	2044.6
20°	5143.4	5014.4	4910.3	4799.1	4698.5	3534.2	3071.6	2746.2	2372.3	2172.3	2015.0
22.5°	5574.1	5493.6	5377.7	5256.9	5155.2	3837.1	3263.2	2850.4	2388.9	2145.1	1962.9
25°	6063.8	5978.7	5836.8	5735.0	5621.4	4145.9	3451.4	2930.8	2379.4	2094.3	1882.4
27.5°	6586.9	6492.3	6346.7	6240.2	6102.9	4466.6	3624.1	2988.8	2343.9	2011.4	1774.8
30°	7132.3	7046.0	6902.8	6795.2	6656.6	4806.1	3817.0	3027.8	2272.9	1896.7	1649.4
32.5°	7718.0	7645.8	7503.9	7391.4	7243.5	5174.1	3996.9	3039.6	2165.3	1760.6	1516.8
35°	8274.1	8224.4	8104.9	7999.6	7845.8	5522.0	4187.3	3033.8	2037.5	1611.6	1396.2
37.5°	8900.0	8870.4	8811.3	8677.6	8489.5	5994.1	4415.7	3008.9	1881.3	1463.6	1303.9
40°	9567.4	9569.7	9505.9	9414.7	9239.6	6566.7	4687.9	2960.3	1710.9	1333.4	1219.9
42.5°	10273.7	10310.4	10279.6	10214.6	10046.5	7144.2	5013.2	2901.2	1545.3	1206.9	1137.0
45°	11083.1	11128.0	11175.3	11079.5	10916.2	7906.2	5441.5	2824.3	1366.6	1101.5	1080.2
47.5°	12016.6	12087.6	12130.2	12131.4	11968.0	8850.4	6137.3	2778.1	1208.0	1030.5	1053.0
50°	13986.6	14009.1	14109.7	14284.8	14159.4	11035.7	7352.4	2749.8	1100.4	986.7	1033.0
52.5°	16825.1	17072.4	17246.3	17234.5	17064.1	12423.6	8022.1	2603.0	1036.5	970.3	1023.5
55°	17981.1	18289.8	18611.8	18696.9	18564.4	13608.0	8655.1	2456.3	1005.8	982.0	1027.0
57.5°	19521.6	20042.3	20483.6	20669.3	20477.6	15123.6	9488.1	2379.4	996.3	1014.1	1049.5
60°	21321.3	21964.9	22544.7	22878.3	22878.3	16865.3	10351.9	2347.5	983.3	1061.3	1087.4
62.5°	22477.2	23422.6	24298.2	24786.8	24772.6	18078.1	10735.2	2238.6	953.7	1094.5	1139.5
65°	22482.0	23606.0	24721.8	25270.8	25299.2	17929.1	10102.2	1977.2	899.3	1099.2	1191.4
67.5°	20607.8	21806.3	23106.7	23720.8	23862.8	16504.5	8745.0	1625.7	810.5	1051.9	1210.5
70°	17404.9	18575.0	19902.6	20506.1	20758.0	14069.5	7043.6	1253.0	696.9	947.8	1171.4
72.5°	13712.1	14859.8	15783.9	16225.2	16421.6	10754.1	5129.2	946.5	571.5	798.6	1066.0
75°	9708.1	10569.5	11060.6	11158.8	11189.5	6482.7	3116.5	704.0	470.9	621.1	900.4
77.5°	5479.4	5848.5	5808.3	5852.1	5487.7	2502.4	1357.1	504.0	388.1	472.1	698.1
80°	2139.2	2205.5	2071.8	2030.4	1862.4	931.2	598.7	351.4	310.0	357.3	488.7
82.5°	943.1	973.7	945.4	952.5	911.0	480.4	358.5	254.4	236.6	261.5	324.2
85°	519.5	528.9	526.5	541.9	519.5	191.7	170.4	156.2	165.6	177.5	208.3
87.5°	253.2	255.5	247.2	260.3	252.1	97.0	84.0	88.7	97.0	99.4	99.4
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: P191394

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-600

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6
2.5°	1919.2	1909.6	1910.9	1908.5	1903.8	1903.8
5°	1902.6	1893.1	1893.1	1890.7	1884.8	1886.0
7.5°	1919.2	1903.8	1897.9	1889.6	1881.3	1881.3
10°	1938.1	1910.9	1894.3	1880.1	1869.4	1869.4
12.5°	1952.3	1909.6	1882.4	1863.5	1852.9	1852.9
15°	1957.0	1901.4	1863.5	1841.1	1831.6	1830.4
17.5°	1941.7	1869.4	1823.3	1797.3	1785.5	1781.9
20°	1894.3	1811.4	1755.9	1726.3	1709.8	1703.8
22.5°	1823.3	1728.7	1663.6	1632.8	1611.6	1608.0
25°	1723.9	1622.2	1558.3	1528.7	1516.8	1513.4
27.5°	1608.0	1513.4	1458.9	1439.9	1429.3	1428.1
30°	1497.9	1417.5	1377.2	1363.1	1350.0	1347.6
32.5°	1395.0	1344.2	1328.7	1308.7	1277.9	1274.3
35°	1321.7	1316.9	1306.2	1261.3	1223.4	1212.8
37.5°	1276.6	1320.4	1266.0	1177.3	1150.1	1147.8
40°	1250.7	1283.8	1190.3	1159.5	1161.9	1159.5
42.5°	1191.4	1225.8	1192.7	1178.4	1188.0	1190.3
45°	1132.3	1170.2	1210.5	1200.9	1223.4	1223.4
47.5°	1099.2	1156.0	1209.2	1209.2	1242.4	1254.2
50°	1061.3	1144.2	1190.3	1206.9	1232.9	1223.4
52.5°	1059.0	1124.0	1163.1	1192.7	1204.5	1193.9
55°	1062.5	1107.4	1135.9	1169.0	1183.2	1184.4
57.5°	1067.2	1098.0	1117.0	1132.3	1175.0	1175.0
60°	1079.1	1089.7	1100.4	1108.7	1164.2	1165.4
62.5°	1098.0	1081.5	1079.1	1087.4	1158.4	1153.6
65°	1127.6	1069.6	1051.9	1060.2	1152.5	1138.2
67.5°	1167.8	1051.9	1017.5	1023.5	1147.8	1117.0
70°	1204.5	1023.5	975.0	969.0	1102.7	1048.3
72.5°	1208.0	990.3	915.7	898.0	958.4	906.3
75°	1148.9	967.8	850.7	798.6	791.6	784.5
77.5°	1035.3	954.8	775.0	693.4	679.1	683.8
80°	866.1	906.3	683.8	586.9	663.8	655.5
82.5°	647.2	799.8	580.9	519.5	518.2	457.9
85°	359.7	623.6	473.3	389.2	271.0	262.7
87.5°	100.6	346.7	331.3	220.0	150.3	156.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)