

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: P193964

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193964
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 33201 lumens
Efficiency: N/A
Efficacy: 86.9 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 (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

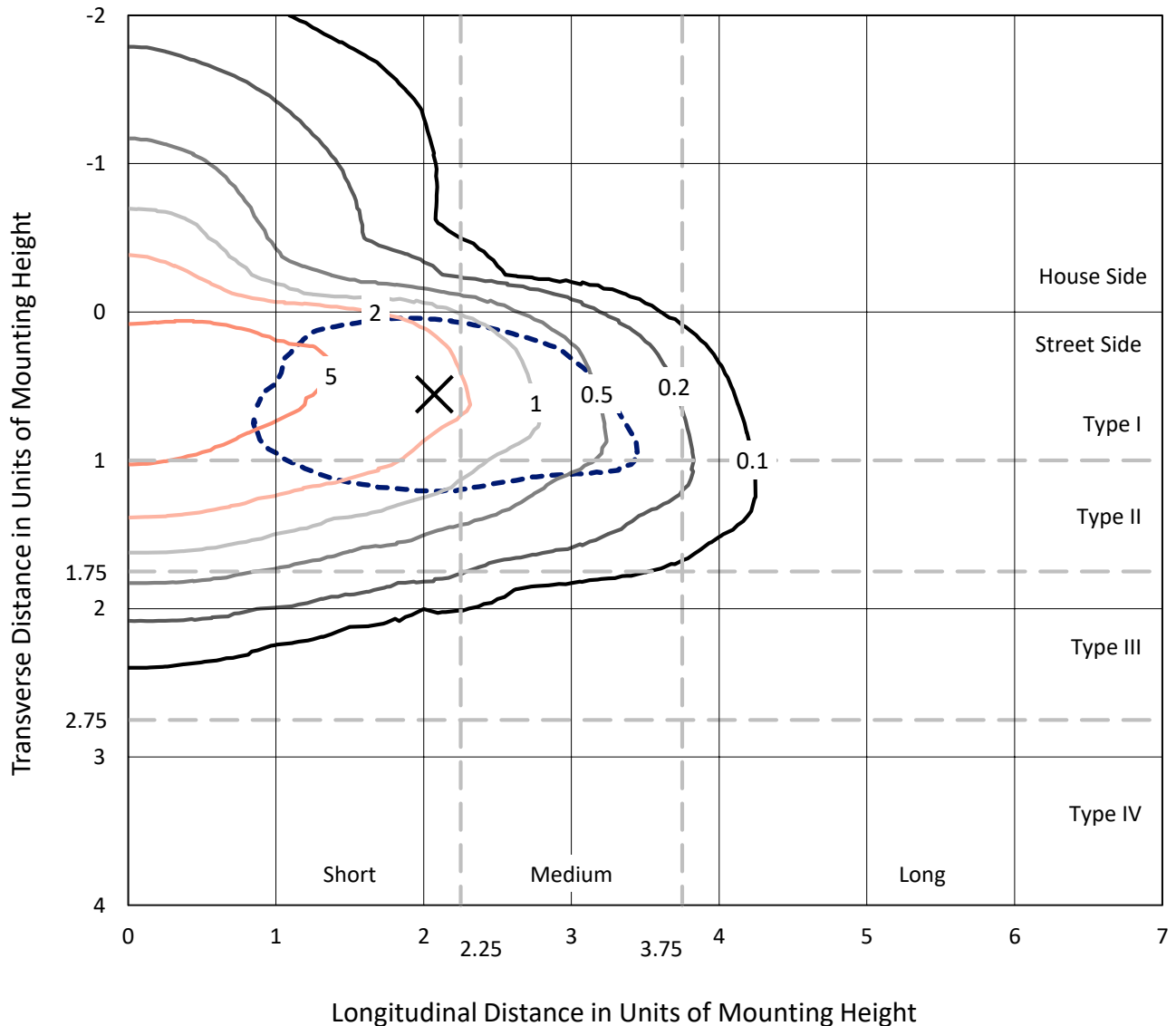


REPORT NUMBER: P193964

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

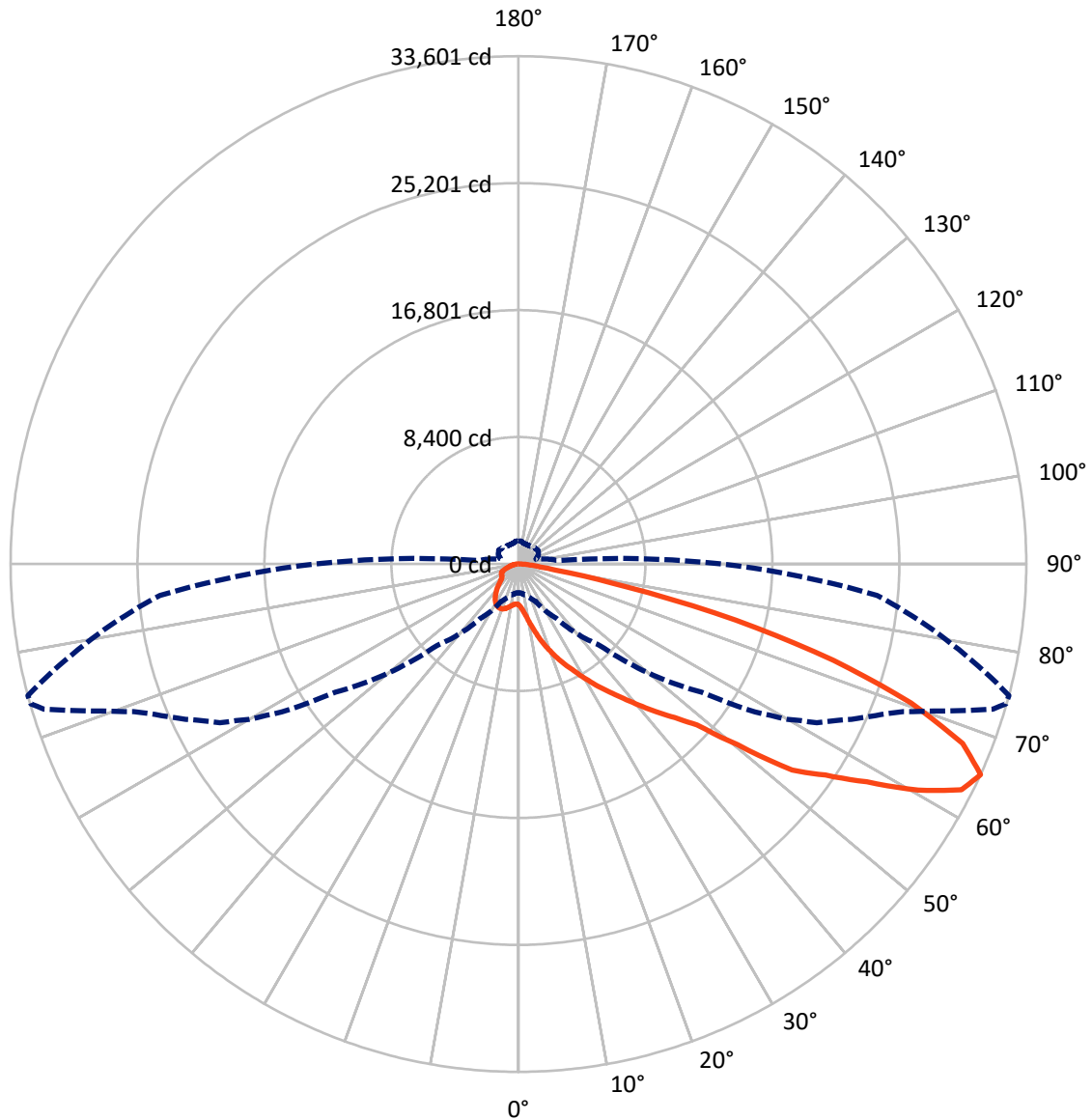
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193964
CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-8030-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193964

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5118.8	0.0	5118.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	28082.2	0.0	28082.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	33201.0	0.0	33201.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.5	1.0
10°-20°	1303.1	3.9
20°-30°	2673.5	8.1
30°-40°	4498.1	13.5
40°-50°	6215.1	18.7
50°-60°	7758.3	23.4
60°-70°	6981.6	21.0
70°-80°	2926.6	8.8
80°-90°	511.3	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°	33201.0	100.0
0°-180°	33201.0	100.0



REPORT NUMBER: P193964

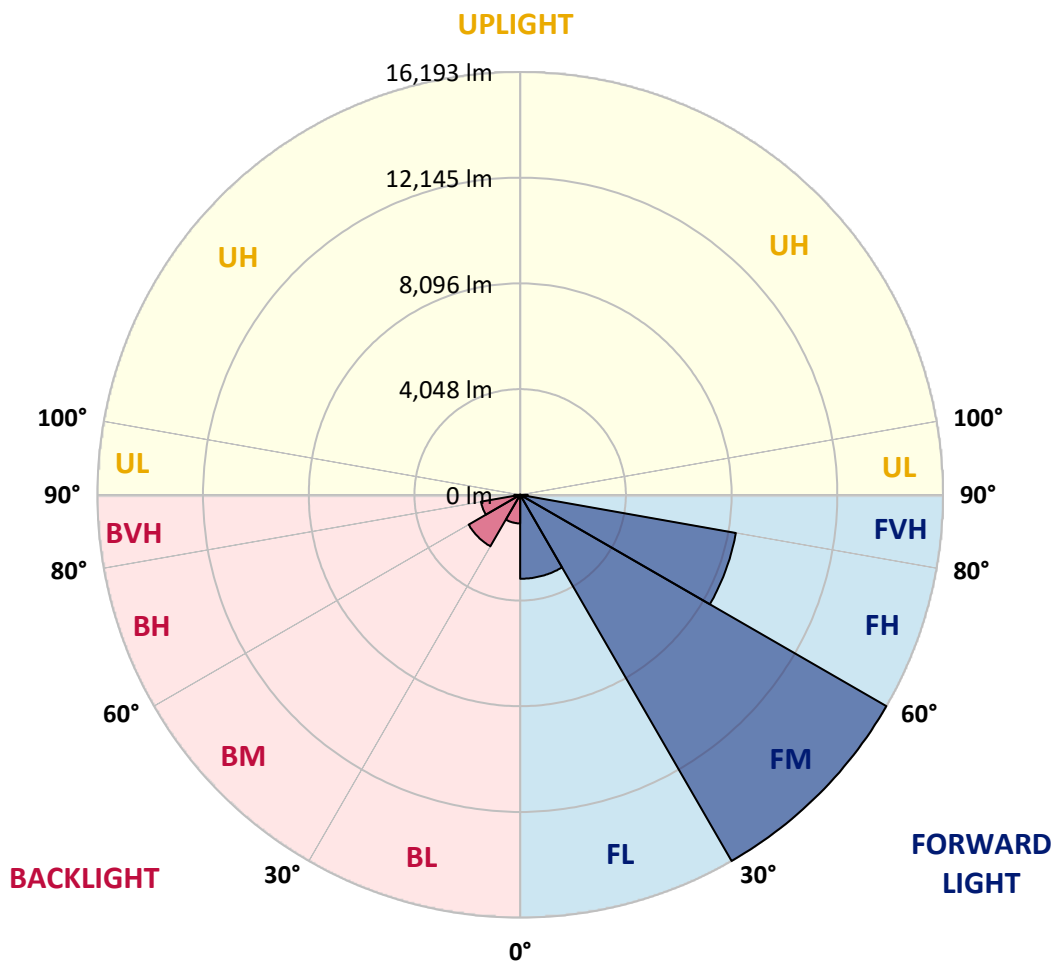
CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3215.4	9.7			
FM (30°-60°)	16192.9	48.8			
FH (60°-80°)	8386.5	25.3			G4/12000
FVH (80°-90°)	287.4	0.9			G3/500
BL (0°-30°)	1094.7	3.3	B3/2500		
BM (30°-60°)	2278.4	6.9	B2/2500		
BH (60°-80°)	1521.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	223.9	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-G4

Type II Short





REPORT NUMBER: P193964

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2
2.5°	3425.8	3388.1	3397.5	3334.7	3257.7	3157.1	3045.5	3043.9	3045.5	3034.5	2993.7
5°	4750.6	4705.0	4687.7	4546.3	4338.8	4043.4	3722.8	3688.2	3674.1	3638.0	3554.7
7.5°	5717.0	5691.9	5665.2	5558.3	5369.7	5039.7	4609.1	4535.3	4464.6	4447.3	4353.0
10°	6340.9	6334.6	6278.0	6249.7	6131.9	5845.9	5426.3	5355.6	5278.6	5251.9	5152.9
12.5°	6834.3	6832.8	6806.0	6813.9	6711.8	6504.3	6142.9	6078.5	6021.9	5940.2	5869.4
15°	7175.3	7176.9	7216.2	7260.2	7244.5	7104.6	6765.2	6736.9	6688.2	6631.6	6548.3
17.5°	7455.1	7462.9	7503.8	7583.9	7670.4	7659.4	7390.6	7367.1	7324.6	7247.6	7203.6
20°	8086.8	8116.6	8038.1	8038.1	8047.5	8089.9	7961.1	7942.2	7882.5	7841.6	7807.1
22.5°	9153.8	9188.4	9010.8	8830.1	8652.5	8523.7	8394.8	8418.4	8377.5	8349.2	8328.8
25°	10539.9	10566.6	10279.0	9974.1	9612.7	9141.2	8822.2	8808.1	8786.1	8768.8	8759.4
27.5°	11844.2	11855.2	11583.3	11137.0	10717.4	10040.1	9256.0	9238.7	9212.0	9179.0	9150.7
30°	12959.9	12956.8	12677.1	12251.2	11801.7	11052.2	9914.4	9861.0	9782.4	9692.8	9623.7
32.5°	13926.4	13921.7	13615.2	13173.6	12702.2	12054.8	10816.4	10706.4	10583.9	10409.4	10304.1
35°	14687.0	14683.8	14394.7	13934.2	13393.7	12999.2	11850.5	11715.3	11559.7	11325.6	11163.7
37.5°	14974.6	14974.6	14812.7	14498.4	14020.7	13750.4	12999.2	12835.8	12669.2	12403.6	12221.3
40°	14806.4	14809.5	14844.1	14786.0	14553.4	14346.0	14071.0	13973.5	13830.5	13591.7	13401.5
42.5°	14242.2	14259.5	14489.0	14770.3	14886.5	14853.5	15021.7	14977.7	14877.1	14693.3	14542.4
45°	13527.2	13580.7	13832.1	14363.2	14979.3	15292.0	15818.4	15823.1	15804.3	15705.3	15589.0
47.5°	12545.1	12620.5	12952.1	13670.2	14762.4	15717.9	16627.7	16670.2	16709.5	16645.0	16591.6
50°	11240.7	11330.3	11826.9	12779.2	14320.8	16159.4	18156.8	18348.5	18527.6	18505.6	18541.8
52.5°	9843.7	9949.0	10557.1	11617.9	13561.8	16261.6	19134.2	19447.0	19759.7	20015.8	20287.7
55°	8583.4	8526.8	9135.0	10252.3	12314.0	15801.1	20012.7	20389.8	20738.7	21053.0	21376.7
57.5°	6875.2	6967.9	7577.6	8682.4	10662.4	14501.5	20617.7	21169.3	21670.6	22190.7	22649.6
60°	5025.6	5118.3	5779.9	6901.9	8869.4	12530.9	20155.7	20991.7	21794.7	22591.5	23213.8
62.5°	3034.5	3103.7	3686.7	4755.3	6839.0	10194.1	18097.1	19194.0	20375.7	21328.0	22281.9
65°	1888.9	1928.2	2143.5	2731.2	4392.3	7610.6	14786.0	15981.9	17254.8	18463.2	19454.8
67.5°	1546.3	1560.5	1599.8	1725.5	2412.2	4962.7	11005.0	12064.2	13212.9	14382.1	15485.3
70°	1390.8	1381.3	1381.3	1389.2	1546.3	2668.4	7205.2	7895.1	8852.1	9868.8	10877.7
72.5°	1255.6	1246.2	1228.9	1205.3	1261.9	1628.0	3724.4	4244.5	4934.4	5838.0	6804.5
75°	1128.3	1115.7	1095.3	1065.5	1104.7	1228.9	1788.3	2006.8	2343.1	2823.9	3362.9
77.5°	996.3	980.6	961.7	939.7	990.0	955.5	1048.2	1126.7	1255.6	1409.6	1612.3
80°	847.0	832.9	826.6	815.6	875.3	727.6	740.2	788.9	864.3	947.6	1041.9
82.5°	663.2	663.2	688.3	693.0	759.0	523.3	553.2	595.6	634.9	678.9	722.9
85°	436.9	440.0	524.9	557.9	598.7	352.0	414.9	429.0	460.4	485.6	504.4
87.5°	136.7	147.7	320.6	355.2	344.2	199.6	254.6	260.9	282.9	300.2	315.9
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: P193964

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-8030-1200

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2
2.5°	2993.7	2974.8	2957.5	2955.9	2943.4	2926.1	2932.4	2905.7	2907.2	2893.1	2877.4
5°	3520.1	3507.5	3444.7	3427.4	3380.2	3350.4	3345.7	3282.8	3274.9	3238.8	3199.5
7.5°	4277.5	4236.7	4148.7	4106.3	4026.1	3966.4	3938.1	3854.8	3814.0	3719.7	3677.2
10°	5071.1	5019.3	4910.8	4851.1	4774.1	4678.3	4626.4	4505.4	4458.3	4371.8	4268.1
12.5°	5806.6	5754.7	5643.2	5597.6	5495.4	5393.3	5336.7	5200.0	5138.7	5000.4	4918.7
15°	6487.0	6435.2	6337.7	6290.6	6188.5	6105.2	6029.7	5894.6	5822.3	5693.4	5586.6
17.5°	7147.1	7092.1	7007.2	6964.8	6865.8	6780.9	6699.2	6571.9	6498.0	6369.2	6273.3
20°	7759.9	7719.1	7657.8	7601.2	7502.2	7425.2	7327.8	7217.8	7110.9	7016.6	6925.5
22.5°	8294.2	8278.5	8212.5	8187.4	8102.5	8036.5	7951.6	7843.2	7766.2	7646.8	7561.9
25°	8754.7	8750.0	8718.5	8710.7	8650.9	8588.1	8569.2	8479.7	8408.9	8303.7	8215.7
27.5°	9150.7	9155.4	9147.5	9169.5	9153.8	9125.5	9127.1	9097.2	9056.4	8968.4	8891.4
30°	9590.7	9565.5	9579.7	9611.1	9620.5	9623.7	9675.5	9692.8	9689.7	9631.5	9593.8
32.5°	10213.0	10153.3	10098.3	10093.6	10125.0	10137.6	10225.6	10271.1	10310.4	10324.6	10330.9
35°	11006.6	10887.2	10772.4	10711.1	10657.7	10671.9	10734.7	10808.6	10895.0	10954.7	11025.4
37.5°	12006.0	11859.9	11657.2	11512.6	11476.5	11397.9	11438.7	11496.9	11581.7	11674.5	11797.0
40°	13217.6	12996.1	12768.2	12576.5	12472.8	12328.2	12326.6	12315.6	12367.5	12453.9	12626.8
42.5°	14383.7	14187.2	13945.2	13744.1	13608.9	13415.7	13376.4	13274.2	13297.8	13373.2	13541.4
45°	15475.9	15314.0	15166.3	14933.7	14819.0	14610.0	14544.0	14423.0	14355.4	14390.0	14558.1
47.5°	16533.5	16429.7	16275.7	16124.9	16036.9	15849.9	15765.0	15678.6	15592.1	15589.0	15765.0
50°	18595.2	18540.2	18357.9	18200.8	18243.2	18013.8	18027.9	17795.3	17900.6	17913.2	18282.5
52.5°	20532.8	20724.6	20859.7	21024.7	21131.6	21152.0	21222.7	21328.0	21455.3	21706.7	22049.3
55°	21642.3	21882.7	22022.6	22148.3	22355.8	22399.8	22517.6	22657.5	22769.0	23051.9	23342.6
57.5°	22960.8	23407.1	23623.9	23823.5	24103.2	24210.1	24406.5	24559.0	24703.5	25038.3	25390.3
60°	23773.2	24316.9	24758.5	25074.4	25424.8	25676.3	25973.3	26212.1	26551.6	26952.3	27477.2
62.5°	23127.3	23925.7	24511.8	25054.0	25530.1	26011.0	26436.9	26883.2	27398.6	28005.2	28819.2
65°	20554.8	21367.3	22371.5	22934.1	23564.2	24305.9	24953.4	25676.3	26378.7	27261.9	28465.6
67.5°	16547.6	17492.0	18620.4	19187.7	19912.1	20740.3	21466.3	22349.5	23169.8	24239.9	25728.1
70°	11927.5	13148.5	14097.7	14690.1	15535.6	16388.9	17089.8	18117.5	18796.4	19893.3	21431.7
72.5°	7552.5	8515.8	9678.7	10425.1	11176.3	12040.6	12757.2	13643.5	14276.8	15276.3	16670.2
75°	4060.7	4771.0	5792.4	6501.2	7305.8	8044.4	8883.5	9477.5	9945.8	10736.3	11867.8
77.5°	1903.1	2335.2	2852.2	3397.5	3942.8	4511.7	5064.9	5545.7	5746.9	6199.5	6867.3
80°	1155.0	1294.9	1445.8	1613.9	1841.8	2025.6	2269.2	2445.2	2457.8	2600.8	2805.1
82.5°	771.6	823.5	869.0	911.5	969.6	1015.2	1067.0	1128.3	1153.5	1186.5	1252.5
85°	526.4	551.6	561.0	587.7	581.4	597.2	617.6	638.0	649.0	647.4	677.3
87.5°	323.7	336.3	342.6	348.9	344.2	337.9	347.3	358.3	361.4	352.0	355.2
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: P193964

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-8030-1200

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2
2.5°	2880.5	2866.4	2852.2	2842.8	2839.6	2756.4	2720.2	2696.6	2646.4	2605.5	2572.5
5°	3177.5	3147.7	3124.1	3095.8	3080.1	2869.5	2792.5	2739.1	2651.1	2599.2	2552.1
7.5°	3655.2	3572.0	3523.2	3468.2	3421.1	3040.8	2913.5	2830.2	2707.6	2638.5	2585.1
10°	4197.4	4111.0	4034.0	3949.1	3875.2	3268.7	3083.2	2954.4	2792.5	2702.9	2632.2
12.5°	4802.4	4717.6	4620.1	4511.7	4417.4	3557.8	3300.1	3116.2	2894.7	2775.2	2676.2
15°	5517.4	5368.1	5250.3	5124.6	5014.6	3903.5	3553.1	3298.5	3003.1	2841.2	2709.2
17.5°	6182.2	6025.0	5864.7	5754.7	5627.4	4291.7	3807.7	3484.0	3092.7	2883.6	2715.5
20°	6831.2	6659.9	6521.6	6373.9	6240.3	4694.0	4079.5	3647.4	3150.8	2885.2	2676.2
22.5°	7403.2	7296.3	7142.3	6982.0	6846.9	5096.3	4334.1	3785.7	3172.8	2849.1	2607.1
25°	8053.8	7940.6	7752.1	7616.9	7466.1	5506.4	4584.0	3892.5	3160.2	2781.5	2500.2
27.5°	8748.4	8622.7	8429.4	8287.9	8105.6	5932.3	4813.4	3969.5	3113.1	2671.5	2357.2
30°	9472.8	9358.1	9168.0	9025.0	8841.1	6383.3	5069.6	4021.4	3018.8	2519.1	2190.6
32.5°	10250.7	10154.8	9966.3	9817.0	9620.5	6872.0	5308.4	4037.1	2875.8	2338.3	2014.6
35°	10989.3	10923.3	10764.6	10624.7	10420.4	7334.1	5561.4	4029.3	2706.1	2140.3	1854.3
37.5°	11820.6	11781.3	11702.7	11525.2	11275.3	7961.1	5864.7	3996.3	2498.6	1943.9	1731.8
40°	12706.9	12710.1	12625.2	12504.2	12271.6	8721.7	6226.2	3931.8	2272.3	1771.0	1620.2
42.5°	13645.1	13693.8	13652.9	13566.5	13343.4	9488.5	6658.3	3853.2	2052.3	1602.9	1510.2
45°	14720.0	14779.7	14842.5	14715.3	14498.4	10500.6	7227.2	3751.1	1815.0	1463.0	1434.8
47.5°	15959.9	16054.2	16110.7	16112.3	15895.4	11754.6	8151.2	3689.8	1604.5	1368.8	1398.6
50°	18576.4	18606.2	18739.8	18972.4	18805.8	14657.1	9765.1	3652.1	1461.5	1310.6	1371.9
52.5°	22346.3	22674.8	22905.8	22890.1	22663.8	16500.4	10654.6	3457.2	1376.6	1288.6	1359.3
55°	23881.7	24291.8	24719.2	24832.4	24656.4	18073.5	11495.3	3262.4	1335.8	1304.3	1364.0
57.5°	25927.7	26619.2	27205.3	27452.0	27197.5	20086.5	12601.6	3160.2	1323.2	1346.8	1393.9
60°	28317.9	29172.8	29942.8	30386.0	30386.0	22399.8	13748.8	3117.8	1305.9	1409.6	1444.2
62.5°	29853.2	31108.8	32271.7	32920.8	32901.9	24010.5	14258.0	2973.2	1266.6	1453.6	1513.3
65°	29859.5	31352.4	32834.3	33563.5	33601.2	23812.5	13417.2	2625.9	1194.3	1459.9	1582.5
67.5°	27370.3	28962.2	30689.3	31504.9	31693.4	21920.5	11614.7	2159.2	1076.5	1397.0	1607.6
70°	23116.3	24670.5	26433.7	27235.2	27569.9	18686.4	9355.0	1664.2	925.6	1258.7	1555.8
72.5°	18211.8	19736.1	20963.4	21549.6	21810.5	14283.1	6812.3	1257.2	759.0	1060.7	1415.9
75°	12893.9	14038.0	14690.1	14820.5	14861.4	8610.1	4139.3	935.0	625.4	825.0	1195.9
77.5°	7277.5	7767.8	7714.4	7772.5	7288.5	3323.7	1802.5	669.4	515.4	627.0	927.2
80°	2841.2	2929.2	2751.6	2696.6	2473.5	1236.7	795.2	466.7	411.7	474.6	649.0
82.5°	1252.5	1293.3	1255.6	1265.0	1210.0	638.0	476.2	337.9	314.3	347.3	430.6
85°	689.9	702.4	699.3	719.7	689.9	254.6	226.3	207.4	220.0	235.7	276.6
87.5°	336.3	339.4	328.4	345.7	334.7	128.9	111.6	117.9	128.9	132.0	132.0
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: P193964

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-8030-1200

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	2698.2	2698.2	2698.2	2698.2	2698.2	2698.2
2.5°	2548.9	2536.4	2537.9	2534.8	2528.5	2528.5
5°	2526.9	2514.4	2514.4	2511.2	2503.4	2504.9
7.5°	2548.9	2528.5	2520.6	2509.6	2498.6	2498.6
10°	2574.1	2537.9	2515.9	2497.1	2482.9	2482.9
12.5°	2592.9	2536.4	2500.2	2475.1	2460.9	2460.9
15°	2599.2	2525.4	2475.1	2445.2	2432.6	2431.1
17.5°	2578.8	2482.9	2421.6	2387.1	2371.4	2366.6
20°	2515.9	2405.9	2332.1	2292.8	2270.8	2262.9
22.5°	2421.6	2295.9	2209.5	2168.6	2140.3	2135.6
25°	2289.6	2154.5	2069.6	2030.3	2014.6	2009.9
27.5°	2135.6	2009.9	1937.6	1912.5	1898.3	1896.8
30°	1989.5	1882.6	1829.2	1810.3	1793.0	1789.9
32.5°	1852.8	1785.2	1764.8	1738.0	1697.2	1692.5
35°	1755.3	1749.0	1734.9	1675.2	1624.9	1610.8
37.5°	1695.6	1753.8	1681.5	1563.6	1527.5	1524.3
40°	1661.0	1705.0	1580.9	1540.0	1543.2	1540.0
42.5°	1582.5	1628.0	1584.0	1565.2	1577.8	1580.9
45°	1503.9	1554.2	1607.6	1595.0	1624.9	1624.9
47.5°	1459.9	1535.3	1606.0	1606.0	1650.0	1665.8
50°	1409.6	1519.6	1580.9	1602.9	1637.5	1624.9
52.5°	1406.5	1492.9	1544.8	1584.0	1599.8	1585.6
55°	1411.2	1470.9	1508.6	1552.6	1571.5	1573.0
57.5°	1417.5	1458.3	1483.5	1503.9	1560.5	1560.5
60°	1433.2	1447.3	1461.5	1472.5	1546.3	1547.9
62.5°	1458.3	1436.3	1433.2	1444.2	1538.5	1532.2
65°	1497.6	1420.6	1397.0	1408.0	1530.6	1511.8
67.5°	1551.0	1397.0	1351.5	1359.3	1524.3	1483.5
70°	1599.8	1359.3	1294.9	1287.0	1464.6	1392.3
72.5°	1604.5	1315.3	1216.3	1192.7	1272.9	1203.7
75°	1525.9	1285.5	1129.9	1060.7	1051.3	1041.9
77.5°	1375.0	1268.2	1029.3	920.9	902.0	908.3
80°	1150.3	1203.7	908.3	779.4	881.6	870.6
82.5°	859.6	1062.3	771.6	689.9	688.3	608.2
85°	477.7	828.2	628.6	517.0	359.9	348.9
87.5°	133.6	460.4	440.0	292.3	199.6	207.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)