

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: P193166

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193166
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 52728.5 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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



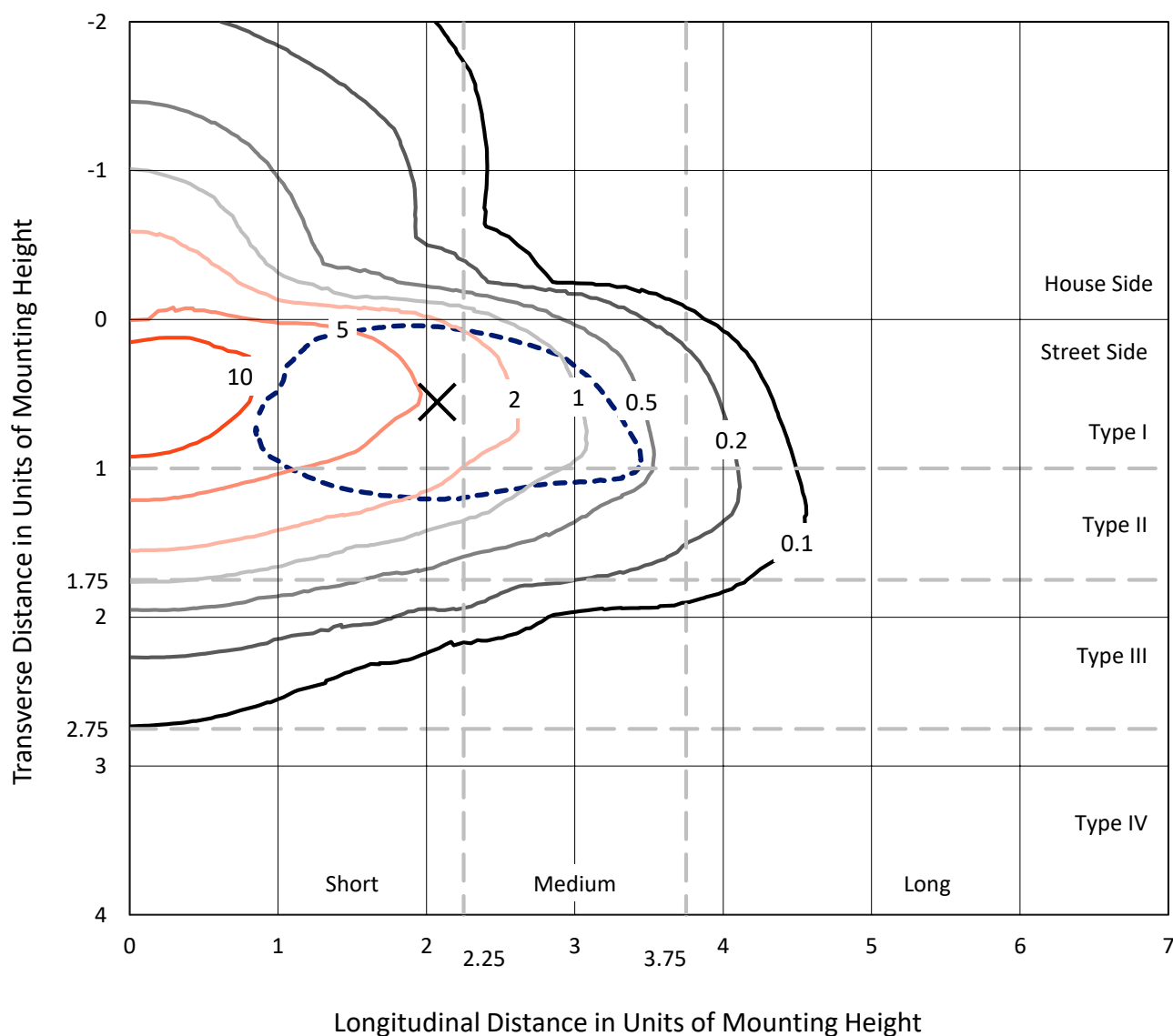
REPORT NUMBER: P193166

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

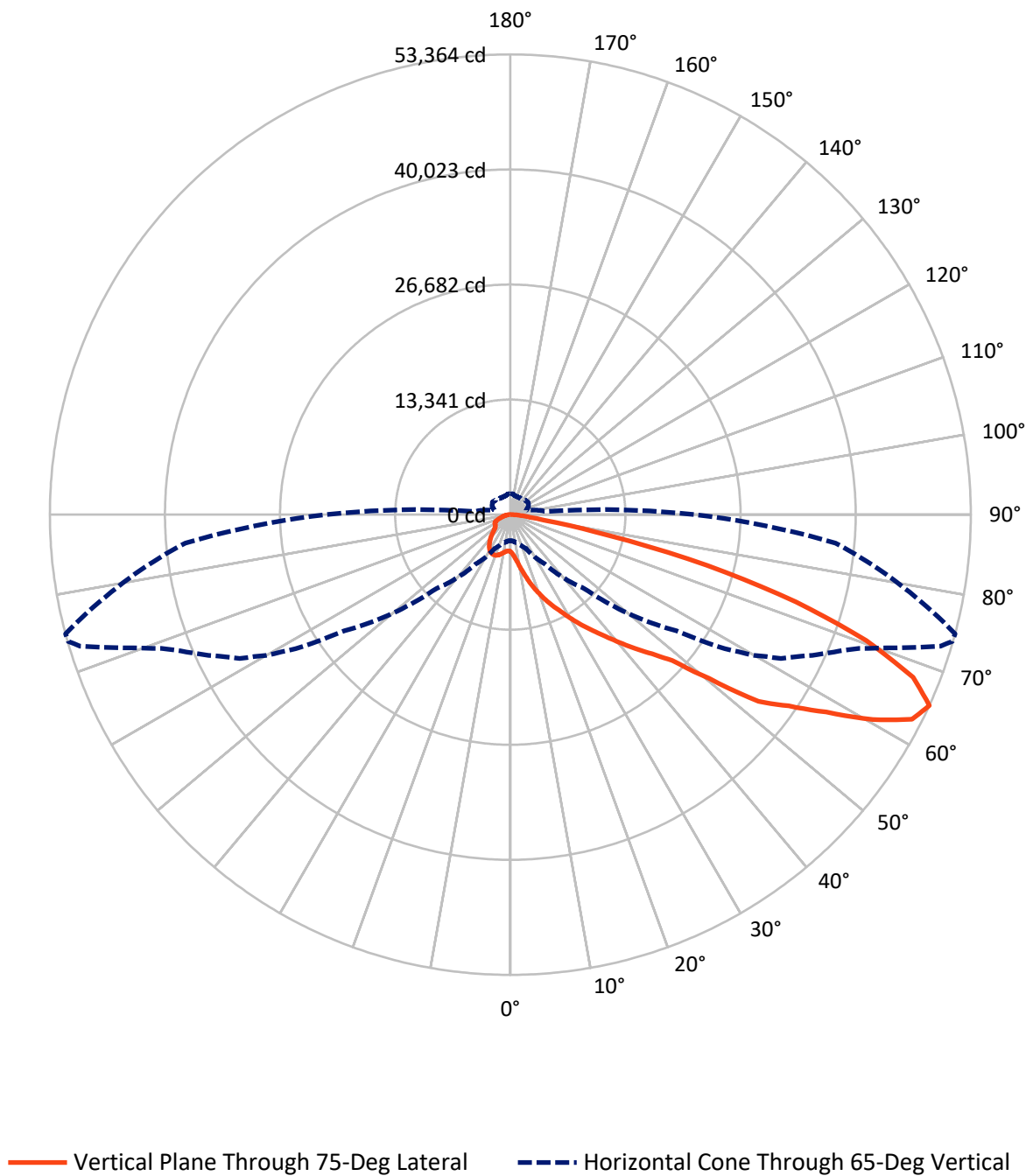


Based on 30 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193166

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P193166

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8129.5	0.0	8129.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	44599.0	0.0	44599.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	52728.5	0.0	52728.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.7	1.0
10°-20°	2069.5	3.9
20°-30°	4246.0	8.1
30°-40°	7143.6	13.5
40°-50°	9870.5	18.7
50°-60°	12321.4	23.4
60°-70°	11087.9	21.0
70°-80°	4647.9	8.8
80°-90°	812.0	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°	52728.5	100.0
0°-180°	52728.5	100.0

Coefficient of Utilization



REPORT NUMBER: P193166

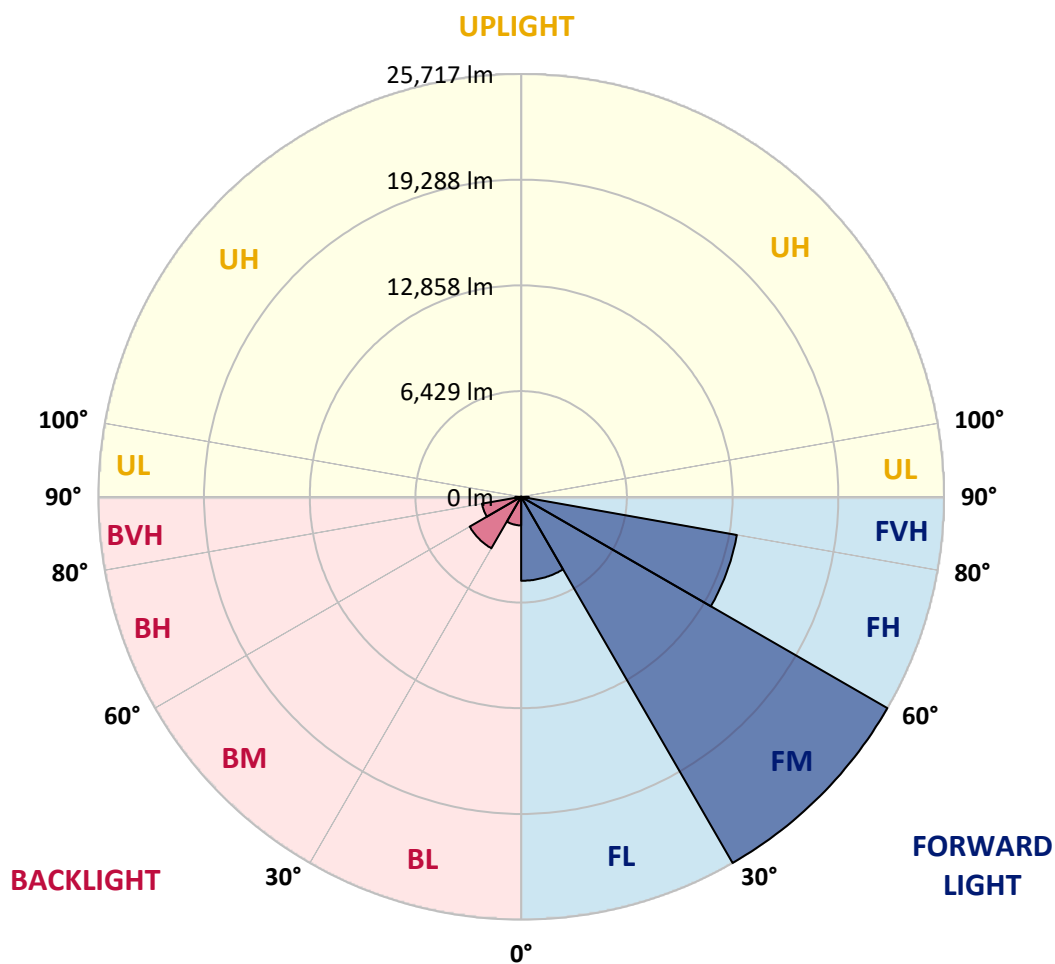
CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5106.6	9.7			
FM	(30°-60°)	25717.0	48.8			
FH	(60°-80°)	13319.0	25.3			G5
FVH	(80°-90°)	456.4	0.9			G3/500
BL	(0°-30°)	1738.6	3.3	B3/2500		
BM	(30°-60°)	3618.5	6.9	B3/5000		
BH	(60°-80°)	2416.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	355.6	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-G5

Type II Short



REPORT NUMBER: P193166

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1
2.5°	5440.8	5380.8	5395.8	5296.1	5173.7	5013.9	4836.8	4834.2	4836.8	4819.3	4754.4
5°	7544.7	7472.2	7444.8	7220.2	6890.8	6421.6	5912.4	5857.5	5835.1	5777.6	5645.4
7.5°	9079.6	9039.6	8997.2	8827.5	8528.0	8003.9	7320.1	7202.7	7090.4	7062.9	6913.3
10°	10070.3	10060.4	9970.6	9925.5	9738.4	9284.2	8617.9	8505.5	8383.3	8340.8	8183.5
12.5°	10854.1	10851.5	10809.1	10821.6	10659.4	10329.9	9755.9	9653.6	9563.7	9433.9	9321.7
15°	11395.6	11398.0	11460.5	11530.3	11505.4	11283.3	10744.2	10699.3	10621.8	10532.0	10399.8
17.5°	11839.9	11852.3	11917.2	12044.5	12181.8	12164.3	11737.5	11700.0	11632.8	11510.4	11440.5
20°	12843.1	12890.5	12765.8	12765.8	12780.7	12848.2	12643.5	12613.6	12518.7	12453.8	12398.8
22.5°	14537.7	14592.6	14310.7	14023.7	13741.6	13536.9	13332.3	13369.7	13304.8	13259.9	13227.5
25°	16738.9	16781.4	16324.7	15840.5	15266.5	14517.9	14011.1	13988.7	13953.7	13926.3	13911.3
27.5°	18810.5	18827.9	18396.2	17687.3	17021.0	15945.3	14700.0	14672.5	14630.1	14577.7	14532.8
30°	20582.5	20577.5	20133.2	19456.9	18743.1	17552.6	15745.7	15660.7	15536.0	15393.7	15284.0
32.5°	22117.4	22109.8	21623.2	20921.8	20173.1	19144.9	17178.3	17003.6	16808.9	16531.8	16364.7
35°	23325.3	23320.3	22861.1	22129.8	21271.2	20644.9	18820.5	18605.8	18358.8	17987.0	17729.8
37.5°	23782.0	23782.0	23524.9	23025.8	22267.0	21837.7	20644.9	20385.3	20120.7	19698.9	19409.5
40°	23515.0	23519.9	23574.9	23482.5	23113.1	22783.8	22346.9	22192.2	21965.1	21585.7	21283.7
42.5°	22619.0	22646.3	23010.8	23457.5	23642.2	23589.8	23856.9	23787.0	23627.2	23335.3	23095.7
45°	21483.4	21568.3	21967.5	22811.1	23789.4	24286.1	25122.2	25129.7	25099.7	24942.5	24757.8
47.5°	19923.5	20043.4	20569.9	21710.5	23445.1	24962.5	26407.5	26474.9	26537.3	26435.0	26350.2
50°	17852.1	17994.4	18783.0	20295.5	22743.7	25663.8	28835.9	29140.3	29424.8	29389.9	29447.3
52.5°	15633.4	15800.6	16766.5	18451.0	21538.3	25826.0	30388.3	30884.9	31381.6	31788.3	32220.1
55°	13631.7	13541.9	14507.8	16282.3	19556.7	25094.7	31783.4	32382.4	32936.4	33435.5	33949.7
57.5°	10919.0	11066.1	12034.5	13789.1	16933.6	23030.8	32744.2	33620.2	34416.3	35242.4	35971.2
60°	7981.4	8128.7	9179.4	10961.3	14086.0	19901.1	32010.4	33338.2	34613.6	35878.9	36867.3
62.5°	4819.3	4929.1	5854.9	7552.1	10861.5	16189.9	28741.0	30483.2	32359.9	33872.3	35387.2
65°	2999.9	3062.3	3404.2	4337.6	6975.6	12087.0	23482.5	25381.8	27403.4	29322.6	30897.3
67.5°	2455.8	2478.3	2540.8	2740.3	3830.9	7881.5	17477.7	19159.8	20984.3	22841.0	24593.0
70°	2208.7	2193.8	2193.8	2206.3	2455.8	4237.7	11443.0	12538.6	14058.6	15673.4	17275.5
72.5°	1994.1	1979.1	1951.7	1914.2	2004.1	2585.6	5915.0	6741.0	7836.6	9271.7	10806.7
75°	1792.0	1771.9	1739.5	1692.1	1754.4	1951.7	2840.2	3187.1	3721.2	4484.9	5340.9
77.5°	1582.3	1557.4	1527.5	1492.5	1572.4	1517.4	1664.7	1789.4	1994.1	2238.7	2560.6
80°	1345.2	1322.7	1312.8	1295.3	1390.1	1155.5	1175.5	1252.8	1372.7	1504.9	1654.7
82.5°	1053.3	1053.3	1093.1	1100.7	1205.4	831.1	878.6	945.8	1008.3	1078.2	1148.1
85°	693.8	698.8	833.5	886.0	950.9	559.1	658.9	681.3	731.3	771.2	801.1
87.5°	217.1	234.6	509.1	564.0	546.6	317.0	404.3	414.3	449.3	476.7	501.6
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: P193166

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7030-1200

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1
2.5°	4754.4	4724.5	4696.9	4694.6	4674.5	4647.2	4657.0	4614.7	4617.2	4594.7	4569.8
5°	5590.5	5570.5	5470.7	5443.2	5368.4	5320.9	5313.5	5213.7	5201.2	5143.7	5081.3
7.5°	6793.4	6728.5	6588.8	6521.3	6394.1	6299.3	6254.3	6122.2	6057.3	5907.4	5840.0
10°	8053.8	7971.4	7799.3	7704.4	7582.0	7429.8	7347.4	7155.3	7080.4	6943.2	6778.5
12.5°	9221.8	9139.4	8962.2	8889.9	8727.6	8565.4	8475.6	8258.5	8161.1	7941.5	7811.7
15°	10302.5	10220.1	10065.4	9990.4	9828.3	9696.0	9576.1	9361.6	9246.7	9042.1	8872.4
17.5°	11350.6	11263.3	11128.5	11061.2	10904.0	10769.1	10639.3	10437.2	10320.0	10115.2	9963.1
20°	12324.0	12259.1	12161.7	12071.9	11914.7	11792.5	11637.6	11462.9	11293.2	11143.6	10998.8
22.5°	13172.6	13147.6	13042.9	13002.8	12868.1	12763.2	12628.5	12456.3	12333.9	12144.2	12009.6
25°	13903.8	13896.3	13846.4	13834.0	13739.2	13639.3	13609.4	13467.1	13354.8	13187.5	13047.7
27.5°	14532.8	14540.2	14527.7	14562.7	14537.7	14492.8	14495.3	14447.9	14383.0	14243.2	14121.0
30°	15231.5	15191.6	15214.2	15263.9	15279.0	15284.0	15366.3	15393.7	15388.8	15296.4	15236.5
32.5°	16219.9	16125.0	16037.7	16030.2	16080.1	16100.1	16239.9	16312.2	16374.5	16397.1	16407.0
35°	17480.2	17290.5	17108.4	17011.0	16926.1	16948.7	17048.5	17165.7	17303.1	17397.9	17510.2
37.5°	19067.5	18835.4	18513.4	18283.9	18226.4	18101.6	18166.5	18258.9	18393.7	18541.0	18735.6
40°	20991.8	20639.8	20278.0	19973.4	19808.8	19579.1	19576.6	19559.1	19641.5	19778.7	20053.3
42.5°	22843.6	22531.7	22147.3	21827.9	21613.2	21306.2	21243.9	21081.6	21119.0	21238.8	21505.8
45°	24578.1	24321.1	24086.4	23717.1	23534.9	23203.0	23098.2	22905.9	22798.7	22853.5	23120.6
47.5°	26257.7	26093.1	25848.4	25608.8	25469.1	25172.1	25037.3	24900.0	24762.8	24757.8	25037.3
50°	29532.2	29444.9	29155.3	28905.7	28973.2	28608.8	28631.3	28261.9	28429.0	28449.0	29035.5
52.5°	32609.4	32914.0	33128.6	33390.6	33560.3	33592.8	33705.1	33872.3	34074.4	34473.8	35017.8
55°	34371.5	34753.3	34975.4	35175.0	35504.6	35574.4	35761.5	35983.7	36160.9	36610.1	37071.8
57.5°	36465.4	37174.2	37518.6	37835.5	38279.7	38449.5	38761.5	39003.6	39233.2	39764.8	40323.8
60°	37755.7	38619.3	39320.5	39822.2	40378.7	40778.1	41249.7	41629.1	42168.2	42804.6	43638.1
62.5°	36729.9	37997.7	38928.6	39789.7	40545.9	41309.7	41985.9	42694.8	43513.4	44476.7	45769.6
65°	32644.4	33934.8	35529.5	36423.0	37423.7	38601.8	39630.0	40778.1	41893.6	43296.2	45207.9
67.5°	26280.2	27780.2	29572.1	30473.1	31623.7	32938.9	34091.9	35494.5	36797.3	38497.0	40860.4
70°	18942.8	20881.9	22389.4	23330.2	24672.9	26028.2	27141.3	28773.5	29851.7	31593.7	34037.0
72.5°	11994.6	13524.4	15371.3	16556.8	17749.7	19122.4	20260.5	21668.1	22673.9	24261.1	26474.9
75°	6449.0	7577.1	9199.3	10324.9	11602.8	12775.6	14108.4	15051.9	15795.6	17051.0	18847.9
77.5°	3022.3	3708.7	4529.8	5395.8	6261.8	7165.3	8043.7	8807.5	9127.0	9845.7	10906.4
80°	1834.4	2056.5	2296.1	2563.1	2925.0	3217.0	3603.8	3883.4	3903.4	4130.4	4454.9
82.5°	1225.5	1307.8	1380.2	1447.5	1539.9	1612.2	1694.6	1792.0	1831.8	1884.2	1989.1
85°	836.1	876.0	891.0	933.4	923.5	948.4	980.8	1013.3	1030.8	1028.2	1075.6
87.5°	514.2	534.1	544.1	554.1	546.6	536.6	551.5	569.0	574.0	559.1	564.0
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: P193166

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7030-1200

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1
2.5°	4574.6	4552.3	4529.8	4514.8	4509.7	4377.6	4320.1	4282.8	4202.8	4137.9	4085.5
5°	5046.3	4998.9	4961.6	4916.6	4891.6	4557.2	4435.0	4350.0	4210.3	4128.0	4053.1
7.5°	5805.2	5672.8	5595.5	5508.1	5433.3	4829.3	4627.1	4494.8	4300.2	4190.3	4105.5
10°	6666.1	6528.9	6406.6	6271.8	6154.5	5191.1	4896.7	4692.0	4435.0	4292.7	4180.4
12.5°	7627.1	7492.2	7337.6	7165.3	7015.5	5650.4	5241.0	4949.1	4597.2	4407.5	4250.3
15°	8762.6	8525.5	8338.3	8138.6	7963.9	6199.5	5642.9	5238.6	4769.3	4512.3	4302.6
17.5°	9818.2	9568.7	9314.2	9139.4	8937.3	6815.9	6047.2	5533.1	4911.6	4579.7	4312.7
20°	10849.0	10577.0	10357.3	10122.8	9910.6	7454.8	6479.0	5792.6	5004.0	4582.3	4250.3
22.5°	11757.5	11587.7	11343.2	11088.6	10874.0	8093.7	6883.3	6012.2	5038.9	4524.8	4140.5
25°	12790.8	12611.0	12311.6	12096.8	11857.3	8745.1	7280.1	6182.0	5019.0	4417.5	3970.7
27.5°	13893.9	13694.2	13387.2	13162.6	12873.0	9421.4	7644.5	6304.3	4944.1	4242.7	3743.7
30°	15044.4	14862.2	14560.2	14333.0	14041.1	10137.7	8051.4	6386.6	4794.3	4000.6	3479.1
32.5°	16279.7	16127.5	15828.1	15591.0	15279.0	10913.9	8430.7	6411.6	4567.2	3713.7	3199.5
35°	17452.7	17347.9	17095.9	16873.8	16549.3	11647.7	8832.4	6399.1	4297.7	3399.2	2945.0
37.5°	18773.0	18710.6	18585.9	18303.8	17907.0	12643.5	9314.2	6346.7	3968.2	3087.2	2750.3
40°	20180.6	20185.6	20050.8	19858.6	19489.3	13851.5	9888.2	6244.3	3608.9	2812.7	2573.2
42.5°	21670.6	21747.9	21683.0	21545.8	21191.4	15069.4	10574.4	6119.6	3259.4	2545.6	2398.5
45°	23377.6	23472.5	23572.3	23370.2	23025.8	16676.6	11477.9	5957.4	2882.6	2323.5	2278.6
47.5°	25346.8	25496.5	25586.5	25588.9	25244.5	18668.2	12945.5	5860.0	2548.2	2173.8	2221.2
50°	29502.3	29549.7	29761.7	30131.2	29866.7	23277.9	15508.6	5800.1	2321.0	2081.5	2178.7
52.5°	35489.6	36011.2	36378.1	36353.1	35993.8	26205.4	16921.2	5490.6	2186.3	2046.5	2158.9
55°	37927.9	38579.3	39258.2	39437.7	39158.3	28703.6	18256.3	5181.2	2121.4	2071.4	2166.3
57.5°	41177.4	42275.4	43206.3	43598.3	43193.9	31900.7	20013.4	5019.0	2101.4	2138.9	2213.7
60°	44973.4	46331.1	47554.0	48257.8	48257.8	35574.4	21835.4	4951.5	2074.0	2238.7	2293.6
62.5°	47411.8	49405.8	51252.7	52283.4	52253.5	38132.6	22644.0	4721.9	2011.6	2308.5	2403.3
65°	47421.7	49792.7	52146.1	53304.2	53364.1	37818.1	21308.8	4170.4	1896.7	2318.6	2513.2
67.5°	43468.5	45996.6	48739.5	50034.7	50334.2	34813.2	18446.1	3429.2	1709.6	2218.7	2553.2
70°	36712.4	39180.8	41981.0	43253.8	43785.4	29677.0	14857.2	2643.0	1470.0	1999.1	2470.8
72.5°	28923.2	31344.1	33293.3	34224.2	34638.5	22683.9	10819.1	1996.6	1205.4	1684.7	2248.7
75°	20477.6	22294.6	23330.2	23537.4	23602.3	13674.3	6573.8	1485.0	993.2	1310.2	1899.3
77.5°	11557.8	12336.5	12251.7	12344.0	11575.3	5278.6	2862.6	1063.2	818.6	995.8	1472.5
80°	4512.3	4652.0	4370.1	4282.8	3928.3	1964.2	1262.8	741.3	653.9	753.7	1030.8
82.5°	1989.1	2054.0	1994.1	2009.1	1921.8	1013.3	756.2	536.6	499.1	551.5	683.9
85°	1095.7	1115.6	1110.6	1143.1	1095.7	404.3	359.4	329.4	349.4	374.3	439.2
87.5°	534.1	539.0	521.6	549.0	531.5	204.7	177.2	187.2	204.7	209.7	209.7
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: P193166

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7030-1200

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1
2.5°	4048.0	4028.2	4030.7	4025.6	4015.6	4015.6
5°	4013.2	3993.2	3993.2	3988.2	3975.7	3978.2
7.5°	4048.0	4015.6	4003.2	3985.7	3968.2	3968.2
10°	4088.1	4030.7	3995.7	3965.8	3943.2	3943.2
12.5°	4118.0	4028.2	3970.7	3930.8	3908.3	3908.3
15°	4128.0	4010.7	3930.8	3883.4	3863.4	3860.9
17.5°	4095.5	3943.2	3845.9	3791.1	3766.0	3758.6
20°	3995.7	3821.1	3703.7	3641.3	3606.3	3593.9
22.5°	3845.9	3646.3	3509.0	3444.2	3399.2	3391.7
25°	3636.2	3421.7	3286.9	3224.5	3199.5	3192.0
27.5°	3391.7	3192.0	3077.3	3037.3	3014.9	3012.4
30°	3159.7	2989.9	2905.1	2875.0	2847.7	2842.7
32.5°	2942.5	2835.2	2802.7	2760.3	2695.4	2687.9
35°	2787.8	2777.8	2755.3	2660.5	2580.6	2558.2
37.5°	2692.9	2785.2	2670.4	2483.3	2425.9	2420.8
40°	2637.9	2707.9	2510.8	2445.9	2450.8	2445.9
42.5°	2513.2	2585.6	2515.7	2485.7	2505.8	2510.8
45°	2388.4	2468.2	2553.2	2533.1	2580.6	2580.6
47.5°	2318.6	2438.3	2550.6	2550.6	2620.6	2645.5
50°	2238.7	2413.4	2510.8	2545.6	2600.6	2580.6
52.5°	2233.7	2370.9	2453.3	2515.7	2540.8	2518.2
55°	2241.2	2336.1	2395.9	2465.8	2495.7	2498.2
57.5°	2251.2	2316.1	2355.9	2388.4	2478.3	2478.3
60°	2276.1	2298.6	2321.0	2338.4	2455.8	2458.4
62.5°	2316.1	2281.2	2276.1	2293.6	2443.4	2433.3
65°	2378.5	2256.2	2218.7	2236.2	2430.9	2400.9
67.5°	2463.2	2218.7	2146.4	2158.9	2420.8	2355.9
70°	2540.8	2158.9	2056.5	2044.0	2326.0	2211.2
72.5°	2548.2	2088.9	1931.7	1894.2	2021.6	1911.7
75°	2423.4	2041.5	1794.5	1684.7	1669.7	1654.7
77.5°	2183.8	2014.0	1634.7	1462.6	1432.6	1442.5
80°	1827.0	1911.7	1442.5	1237.9	1400.1	1382.6
82.5°	1365.2	1687.1	1225.5	1095.7	1093.1	965.9
85°	758.7	1315.3	998.3	821.1	571.5	554.1
87.5°	212.2	731.3	698.8	464.3	317.0	329.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)