

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: P193953

Luminaire Tested: **GLEON-AF-05-LED-E1-T2R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193953
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-05-LED-E1-T2R-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25291 lumens
Efficiency: N/A
Efficacy: 90.6 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

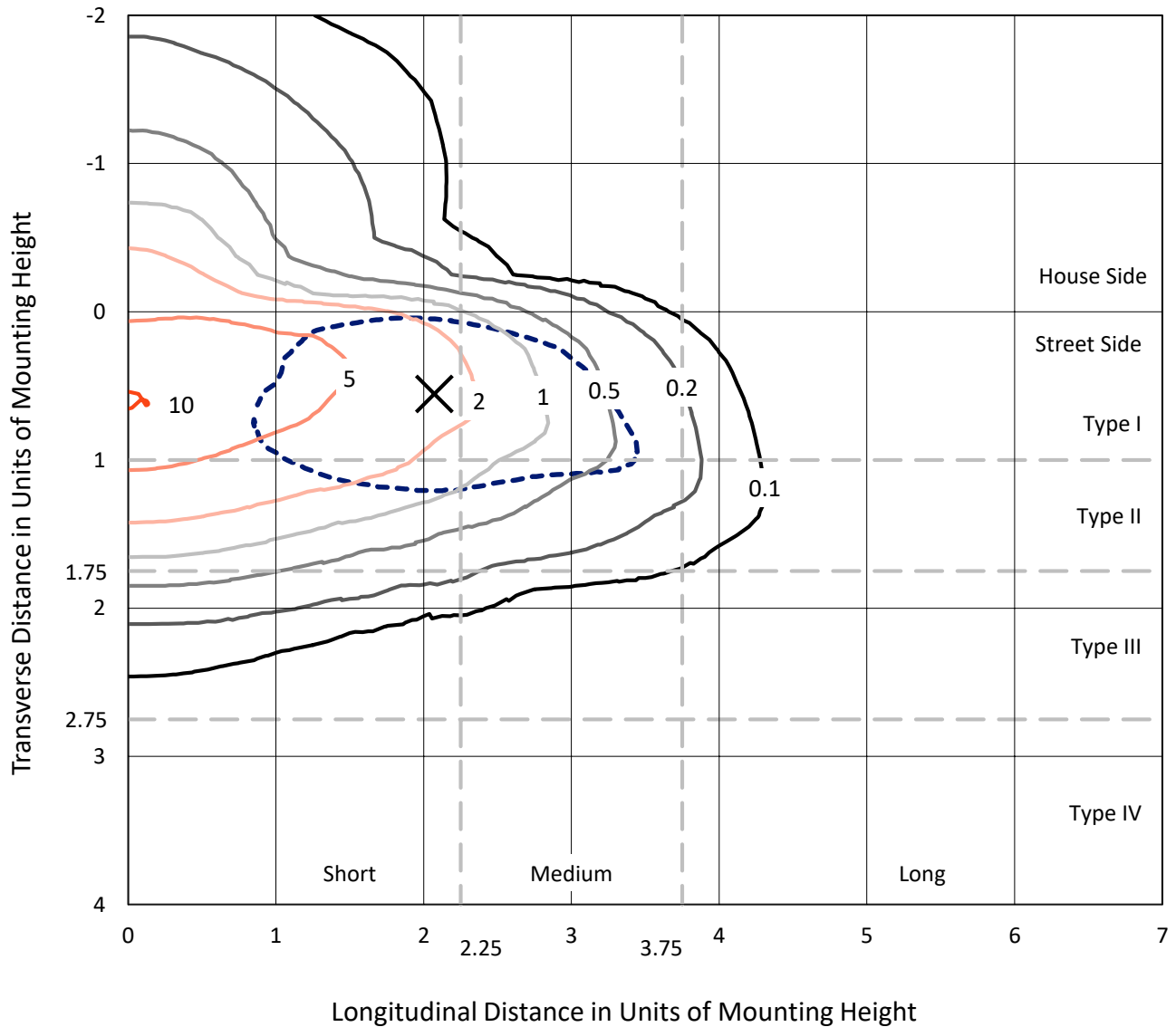
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193953
 CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030

Iso-Footcandle Lines of Horizontal Illumination

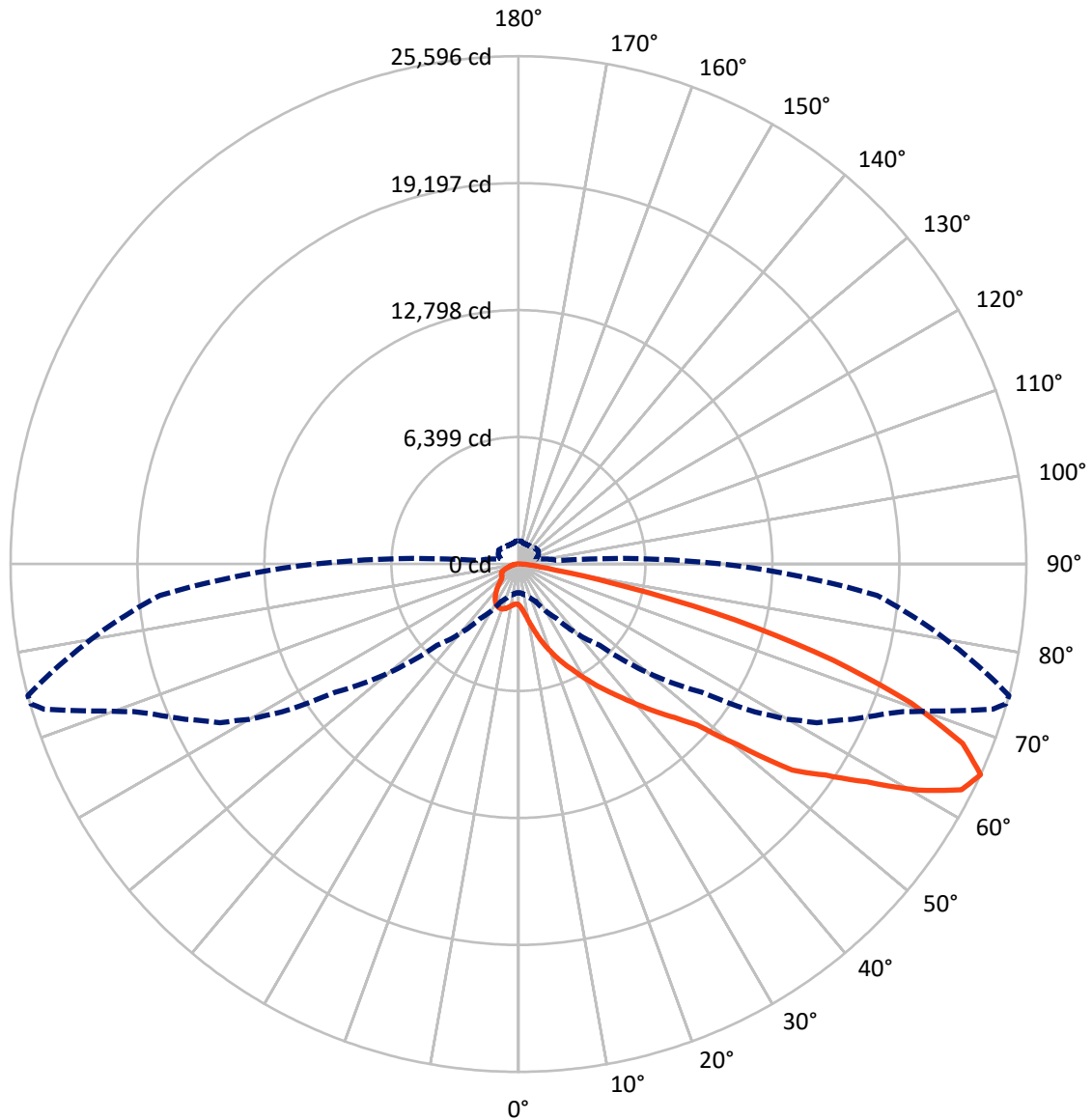
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193953
CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193953

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3899.3	0.0	3899.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	21391.7	0.0	21391.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	25291.0	0.0	25291.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	1.0
10°-20°	992.6	3.9
20°-30°	2036.6	8.1
30°-40°	3426.4	13.5
40°-50°	4734.3	18.7
50°-60°	5909.9	23.4
60°-70°	5318.3	21.0
70°-80°	2229.4	8.8
80°-90°	389.5	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°	25291.0	100.0
0°-180°	25291.0	100.0



REPORT NUMBER: P193953

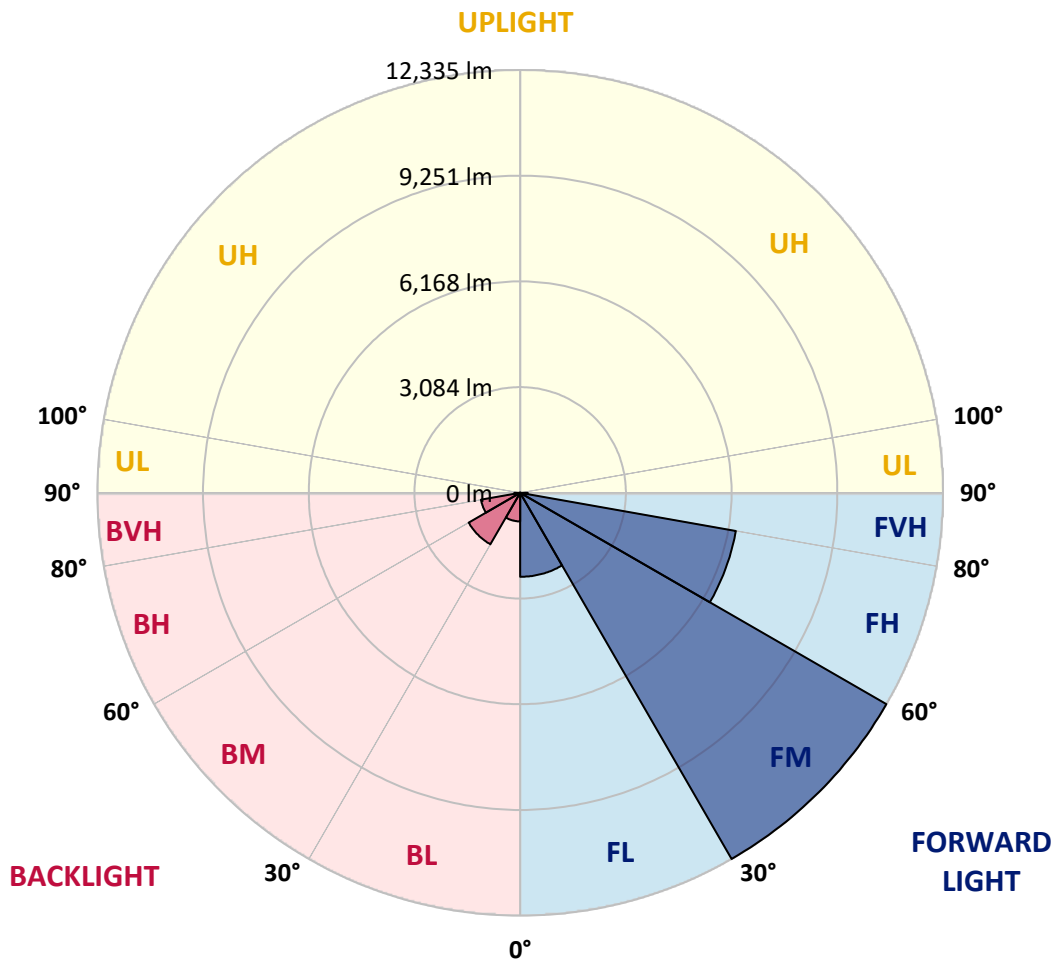
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2449.4	9.7			
FM	(30°-60°)	12335.0	48.8			
FH	(60°-80°)	6388.4	25.3			G3/7500
FVH	(80°-90°)	218.9	0.9			G2/225
BL	(0°-30°)	833.9	3.3	B2/1000		
BM	(30°-60°)	1735.6	6.9	B2/2500		
BH	(60°-80°)	1159.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	170.6	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: P193953

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4
2.5°	2609.6	2580.9	2588.1	2540.2	2481.5	2404.9	2319.9	2318.7	2319.9	2311.6	2280.4
5°	3618.8	3584.0	3570.9	3463.1	3305.1	3080.1	2835.9	2809.5	2798.8	2771.2	2707.8
7.5°	4355.0	4335.8	4315.5	4234.1	4090.4	3839.0	3511.0	3454.8	3400.9	3387.7	3315.9
10°	4830.2	4825.4	4782.3	4760.8	4671.0	4453.1	4133.5	4079.6	4021.0	4000.6	3925.2
12.5°	5206.1	5204.9	5184.5	5190.5	5112.7	4954.7	4679.4	4630.3	4587.2	4524.9	4471.1
15°	5465.8	5467.0	5497.0	5530.5	5518.5	5412.0	5153.4	5131.9	5094.8	5051.7	4988.2
17.5°	5678.9	5684.9	5716.0	5777.1	5842.9	5834.5	5629.8	5611.9	5579.6	5520.9	5487.4
20°	6160.1	6182.9	6123.0	6123.0	6130.2	6162.5	6064.4	6050.0	6004.5	5973.4	5947.1
22.5°	6973.0	6999.3	6864.0	6726.4	6591.1	6492.9	6394.8	6412.7	6381.6	6360.1	6344.5
25°	8028.8	8049.1	7830.1	7597.8	7322.5	6963.4	6720.4	6709.6	6692.8	6679.7	6672.5
27.5°	9022.4	9030.7	8823.6	8483.7	8164.1	7648.1	7050.8	7037.6	7017.3	6992.1	6970.6
30°	9872.3	9869.9	9656.8	9332.4	8990.0	8419.0	7552.3	7511.6	7451.8	7383.6	7330.9
32.5°	10608.5	10604.9	10371.5	10035.1	9676.0	9182.8	8239.5	8155.7	8062.3	7929.4	7849.2
35°	11187.9	11185.5	10965.2	10614.5	10202.7	9902.2	9027.1	8924.2	8805.7	8627.3	8504.0
37.5°	11406.9	11406.9	11283.6	11044.2	10680.3	10474.4	9902.2	9777.7	9650.8	9448.5	9309.7
40°	11278.8	11281.2	11307.6	11263.3	11086.1	10928.1	10718.6	10644.4	10535.5	10353.5	10208.7
42.5°	10849.1	10862.3	11037.0	11251.3	11339.9	11314.8	11442.8	11409.3	11332.7	11192.6	11077.7
45°	10304.4	10345.1	10536.7	10941.3	11410.5	11648.7	12049.8	12053.3	12039.0	11963.6	11875.0
47.5°	9556.2	9613.7	9866.3	10413.4	11245.3	11973.1	12666.2	12698.6	12728.5	12679.4	12638.7
50°	8562.7	8630.9	9009.2	9734.6	10908.9	12309.5	13831.0	13977.0	14113.5	14096.8	14124.3
52.5°	7498.5	7578.7	8041.9	8850.0	10330.8	12387.3	14575.6	14813.8	15052.0	15247.1	15454.2
55°	6538.4	6495.3	6958.6	7809.7	9380.3	12036.6	15244.7	15532.0	15797.8	16037.2	16283.8
57.5°	5237.2	5307.8	5772.3	6613.8	8122.2	11046.6	15705.6	16125.8	16507.7	16903.9	17253.4
60°	3828.2	3898.9	4402.8	5257.6	6756.3	9545.5	15353.7	15990.5	16602.2	17209.1	17683.2
62.5°	2311.6	2364.2	2808.3	3622.3	5209.7	7765.4	13785.5	14621.1	15521.3	16246.7	16973.3
65°	1438.9	1468.8	1632.8	2080.5	3345.8	5797.4	11263.3	12174.3	13143.9	14064.4	14819.8
67.5°	1177.9	1188.7	1218.6	1314.4	1837.5	3780.4	8383.1	9189.9	10065.0	10955.6	11796.0
70°	1059.4	1052.2	1052.2	1058.2	1177.9	2032.6	5488.6	6014.1	6743.1	7517.6	8286.2
72.5°	956.5	949.3	936.1	918.2	961.3	1240.2	2837.1	3233.3	3758.8	4447.1	5183.3
75°	859.5	849.9	834.4	811.6	841.5	936.1	1362.3	1528.7	1784.8	2151.1	2561.7
77.5°	758.9	747.0	732.6	715.9	754.2	727.8	798.4	858.3	956.5	1073.8	1228.2
80°	645.2	634.4	629.7	621.3	666.8	554.2	563.8	600.9	658.4	721.8	793.7
82.5°	505.2	505.2	524.3	527.9	578.2	398.6	421.4	453.7	483.6	517.1	550.7
85°	332.8	335.2	399.8	425.0	456.1	268.1	316.0	326.8	350.7	369.9	384.3
87.5°	104.1	112.5	244.2	270.5	262.2	152.0	193.9	198.7	215.5	228.6	240.6
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: P193953
 CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4
2.5°	2280.4	2266.1	2252.9	2251.7	2242.1	2229.0	2233.7	2213.4	2214.6	2203.8	2191.8
5°	2681.4	2671.9	2624.0	2610.8	2574.9	2552.2	2548.6	2500.7	2494.7	2467.2	2437.2
7.5°	3258.4	3227.3	3160.3	3128.0	3066.9	3021.4	2999.9	2936.4	2905.3	2833.5	2801.2
10°	3863.0	3823.5	3740.9	3695.4	3636.7	3563.7	3524.2	3432.0	3396.1	3330.3	3251.3
12.5°	4423.2	4383.7	4298.7	4264.0	4186.2	4108.4	4065.3	3961.1	3914.4	3809.1	3746.8
15°	4941.5	4902.0	4827.8	4791.9	4714.1	4650.6	4593.2	4490.2	4435.2	4337.0	4255.6
17.5°	5444.3	5402.4	5337.8	5305.4	5230.0	5165.4	5103.1	5006.2	4949.9	4851.7	4778.7
20°	5911.2	5880.0	5833.3	5790.3	5714.8	5656.2	5582.0	5498.2	5416.8	5344.9	5275.5
22.5°	6318.2	6306.2	6255.9	6236.8	6172.1	6121.8	6057.2	5974.6	5915.9	5825.0	5760.3
25°	6668.9	6665.3	6641.4	6635.4	6589.9	6542.0	6527.6	6459.4	6405.5	6325.3	6258.3
27.5°	6970.6	6974.2	6968.2	6984.9	6973.0	6951.4	6952.6	6929.9	6898.7	6831.7	6773.0
30°	7305.7	7286.6	7297.4	7321.3	7328.5	7330.9	7370.4	7383.6	7381.2	7336.9	7308.1
32.5°	7779.8	7734.3	7692.4	7688.8	7712.8	7722.3	7789.4	7824.1	7854.0	7864.8	7869.6
35°	8384.3	8293.3	8205.9	8159.3	8118.6	8129.3	8177.2	8233.5	8299.3	8344.8	8398.7
37.5°	9145.7	9034.3	8879.9	8769.8	8742.2	8682.4	8713.5	8757.8	8822.4	8893.1	8986.4
40°	10068.6	9899.8	9726.2	9580.2	9501.2	9391.1	9389.9	9381.5	9421.0	9486.8	9618.5
42.5°	10956.8	10807.2	10622.8	10469.6	10366.7	10219.4	10189.5	10111.7	10129.6	10187.1	10315.2
45°	11788.8	11665.5	11553.0	11375.8	11288.4	11129.2	11078.9	10986.8	10935.3	10961.6	11089.7
47.5°	12594.4	12515.4	12398.1	12283.2	12216.1	12073.7	12009.1	11943.2	11877.4	11875.0	12009.1
50°	14165.0	14123.1	13984.2	13864.5	13896.8	13722.1	13732.8	13555.7	13635.9	13645.5	13926.8
52.5°	15641.0	15787.0	15890.0	16015.7	16097.1	16112.6	16166.5	16246.7	16343.7	16535.2	16796.2
55°	16486.1	16669.3	16775.8	16871.6	17029.6	17063.1	17152.9	17259.4	17344.4	17559.9	17781.3
57.5°	17490.5	17830.4	17995.6	18147.7	18360.7	18442.1	18591.8	18707.9	18818.0	19073.0	19341.1
60°	18109.3	18523.5	18859.9	19100.5	19367.5	19559.0	19785.3	19967.2	20225.8	20531.0	20930.9
62.5°	17617.4	18225.5	18672.0	19085.0	19447.7	19814.0	20138.4	20478.4	20871.0	21333.1	21953.2
65°	15657.7	16276.6	17041.6	17470.1	17950.1	18515.2	19008.4	19559.0	20094.1	20766.9	21683.8
67.5°	12605.2	13324.6	14184.1	14616.3	15168.1	15799.0	16352.0	17024.8	17649.7	18464.9	19598.5
70°	9085.8	10015.9	10739.0	11190.3	11834.3	12484.3	13018.2	13801.1	14318.2	15153.8	16325.7
72.5°	5753.1	6486.9	7372.8	7941.4	8513.6	9172.0	9717.9	10393.0	10875.4	11636.8	12698.6
75°	3093.2	3634.3	4412.4	4952.3	5565.2	6127.8	6767.1	7219.6	7576.3	8178.4	9040.3
77.5°	1449.7	1778.9	2172.7	2588.1	3003.5	3436.8	3858.2	4224.5	4377.7	4722.5	5231.2
80°	879.9	986.4	1101.3	1229.4	1403.0	1543.0	1728.6	1862.6	1872.2	1981.2	2136.8
82.5°	587.8	627.3	662.0	694.3	738.6	773.3	812.8	859.5	878.7	903.8	954.1
85°	401.0	420.2	427.4	447.7	442.9	454.9	470.5	486.0	494.4	493.2	515.9
87.5°	246.6	256.2	261.0	265.8	262.2	257.4	264.6	272.9	275.3	268.1	270.5
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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 CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4
2.5°	2194.2	2183.5	2172.7	2165.5	2163.1	2099.7	2072.1	2054.2	2015.9	1984.8	1959.6
5°	2420.5	2397.7	2379.8	2358.2	2346.3	2185.9	2127.2	2086.5	2019.5	1980.0	1944.0
7.5°	2784.4	2721.0	2683.8	2641.9	2606.0	2316.3	2219.4	2155.9	2062.6	2009.9	1969.2
10°	3197.4	3131.5	3072.9	3008.2	2952.0	2489.9	2348.7	2250.5	2127.2	2059.0	2005.1
12.5°	3658.3	3593.6	3519.4	3436.8	3365.0	2710.2	2513.9	2373.8	2205.0	2114.0	2038.6
15°	4202.9	4089.2	3999.4	3903.7	3819.9	2973.5	2706.6	2512.7	2287.6	2164.3	2063.8
17.5°	4709.3	4589.6	4467.5	4383.7	4286.7	3269.2	2900.5	2653.9	2355.8	2196.6	2068.5
20°	5203.7	5073.2	4967.9	4855.3	4753.6	3575.7	3107.6	2778.4	2400.1	2197.8	2038.6
22.5°	5639.4	5558.0	5440.7	5318.6	5215.7	3882.1	3301.5	2883.8	2416.9	2170.3	1985.9
25°	6135.0	6048.8	5905.2	5802.2	5687.3	4194.6	3491.9	2965.2	2407.3	2118.8	1904.5
27.5°	6664.1	6568.3	6421.1	6313.4	6174.5	4519.0	3666.6	3023.8	2371.4	2035.0	1795.6
30°	7216.0	7128.6	6983.7	6874.8	6734.7	4862.5	3861.8	3063.3	2299.6	1918.9	1668.7
32.5°	7808.5	7735.5	7591.8	7478.1	7328.5	5234.8	4043.7	3075.3	2190.6	1781.2	1534.6
35°	8371.1	8320.9	8200.0	8093.4	7937.8	5586.7	4236.4	3069.3	2061.4	1630.4	1412.5
37.5°	9004.4	8974.5	8914.6	8779.3	8589.0	6064.4	4467.5	3044.2	1903.3	1480.8	1319.2
40°	9679.5	9681.9	9617.3	9525.1	9348.0	6643.8	4742.8	2995.1	1731.0	1349.1	1234.2
42.5°	10394.2	10431.3	10400.2	10334.3	10164.4	7227.9	5072.0	2935.2	1563.4	1221.0	1150.4
45°	11213.0	11258.5	11306.4	11209.4	11044.2	7998.9	5505.3	2857.4	1382.6	1114.5	1092.9
47.5°	12157.5	12229.3	12272.4	12273.6	12108.4	8954.1	6209.2	2810.7	1222.2	1042.7	1065.4
50°	14150.6	14173.4	14275.1	14452.3	14325.4	11165.1	7438.6	2782.0	1113.3	998.4	1045.0
52.5°	17022.4	17272.6	17448.6	17436.6	17264.2	12569.3	8116.2	2633.6	1048.6	981.6	1035.5
55°	18191.9	18504.4	18830.0	18916.2	18782.1	13767.6	8756.6	2485.1	1017.5	993.6	1039.1
57.5°	19750.5	20277.3	20723.8	20911.7	20717.8	15301.0	9599.3	2407.3	1007.9	1025.9	1061.8
60°	21571.3	22222.5	22809.1	23146.6	23146.6	17063.1	10473.2	2375.0	994.8	1073.8	1100.1
62.5°	22740.8	23697.3	24583.1	25077.5	25063.2	18290.1	10861.1	2264.9	964.8	1107.3	1152.8
65°	22745.6	23882.8	25011.7	25567.1	25595.9	18139.3	10220.6	2000.3	909.8	1112.1	1205.5
67.5°	20849.5	22062.1	23377.7	23999.0	24142.6	16698.0	8847.6	1644.8	820.0	1064.2	1224.6
70°	17609.0	18792.9	20136.0	20746.5	21001.5	14234.4	7126.2	1267.7	705.1	958.9	1185.1
72.5°	13872.9	15034.1	15969.0	16415.5	16614.2	10880.2	5189.3	957.7	578.2	808.0	1078.6
75°	9822.0	10693.5	11190.3	11289.6	11320.7	6558.8	3153.1	712.3	476.4	628.5	911.0
77.5°	5543.7	5917.1	5876.4	5920.7	5552.0	2531.8	1373.0	510.0	392.6	477.6	706.3
80°	2164.3	2231.3	2096.1	2054.2	1884.2	942.1	605.7	355.5	313.6	361.5	494.4
82.5°	954.1	985.2	956.5	963.6	921.7	486.0	362.7	257.4	239.4	264.6	328.0
85°	525.5	535.1	532.7	548.3	525.5	193.9	172.4	158.0	167.6	179.6	210.7
87.5°	256.2	258.6	250.2	263.4	255.0	98.2	85.0	89.8	98.2	100.6	100.6
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: P193953

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-8030

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4
2.5°	1941.7	1932.1	1933.3	1930.9	1926.1	1926.1
5°	1924.9	1915.3	1915.3	1912.9	1906.9	1908.1
7.5°	1941.7	1926.1	1920.1	1911.7	1903.3	1903.3
10°	1960.8	1933.3	1916.5	1902.2	1891.4	1891.4
12.5°	1975.2	1932.1	1904.5	1885.4	1874.6	1874.6
15°	1980.0	1923.7	1885.4	1862.6	1853.1	1851.9
17.5°	1964.4	1891.4	1844.7	1818.4	1806.4	1802.8
20°	1916.5	1832.7	1776.5	1746.5	1729.8	1723.8
22.5°	1844.7	1748.9	1683.1	1652.0	1630.4	1626.8
25°	1744.1	1641.2	1576.5	1546.6	1534.6	1531.1
27.5°	1626.8	1531.1	1476.0	1456.8	1446.1	1444.9
30°	1515.5	1434.1	1393.4	1379.0	1365.9	1363.5
32.5°	1411.4	1359.9	1344.3	1324.0	1292.8	1289.2
35°	1337.1	1332.3	1321.6	1276.1	1237.8	1227.0
37.5°	1291.6	1335.9	1280.9	1191.1	1163.6	1161.2
40°	1265.3	1298.8	1204.3	1173.1	1175.5	1173.1
42.5°	1205.5	1240.2	1206.7	1192.3	1201.9	1204.3
45°	1145.6	1183.9	1224.6	1215.0	1237.8	1237.8
47.5°	1112.1	1169.5	1223.4	1223.4	1256.9	1268.9
50°	1073.8	1157.6	1204.3	1221.0	1247.4	1237.8
52.5°	1071.4	1137.2	1176.7	1206.7	1218.6	1207.8
55°	1075.0	1120.5	1149.2	1182.7	1197.1	1198.3
57.5°	1079.8	1110.9	1130.0	1145.6	1188.7	1188.7
60°	1091.7	1102.5	1113.3	1121.7	1177.9	1179.1
62.5°	1110.9	1094.1	1091.7	1100.1	1171.9	1167.1
65°	1140.8	1082.2	1064.2	1072.6	1166.0	1151.6
67.5°	1181.5	1064.2	1029.5	1035.5	1161.2	1130.0
70°	1218.6	1035.5	986.4	980.4	1115.7	1060.6
72.5°	1222.2	1002.0	926.5	908.6	969.6	917.0
75°	1162.4	979.2	860.7	808.0	800.8	793.7
77.5°	1047.4	966.0	784.1	701.5	687.1	691.9
80°	876.3	917.0	691.9	593.7	671.6	663.2
82.5°	654.8	809.2	587.8	525.5	524.3	463.3
85°	363.9	630.9	478.8	393.8	274.1	265.8
87.5°	101.8	350.7	335.2	222.7	152.0	158.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)