

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: P193158

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193158
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-10-LED-E1-T2R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 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: 59364.9 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 558
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



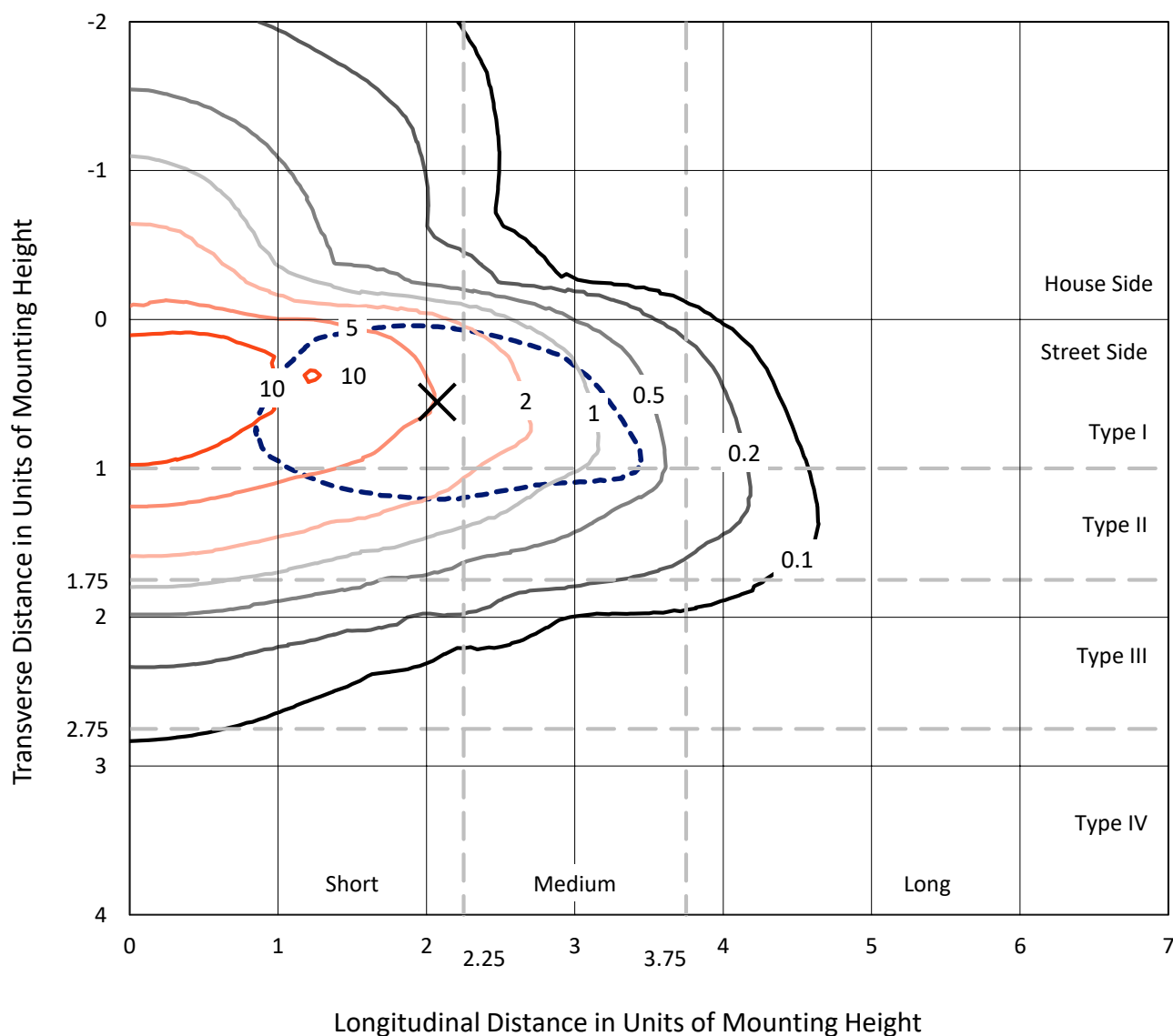
REPORT NUMBER: P193158

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

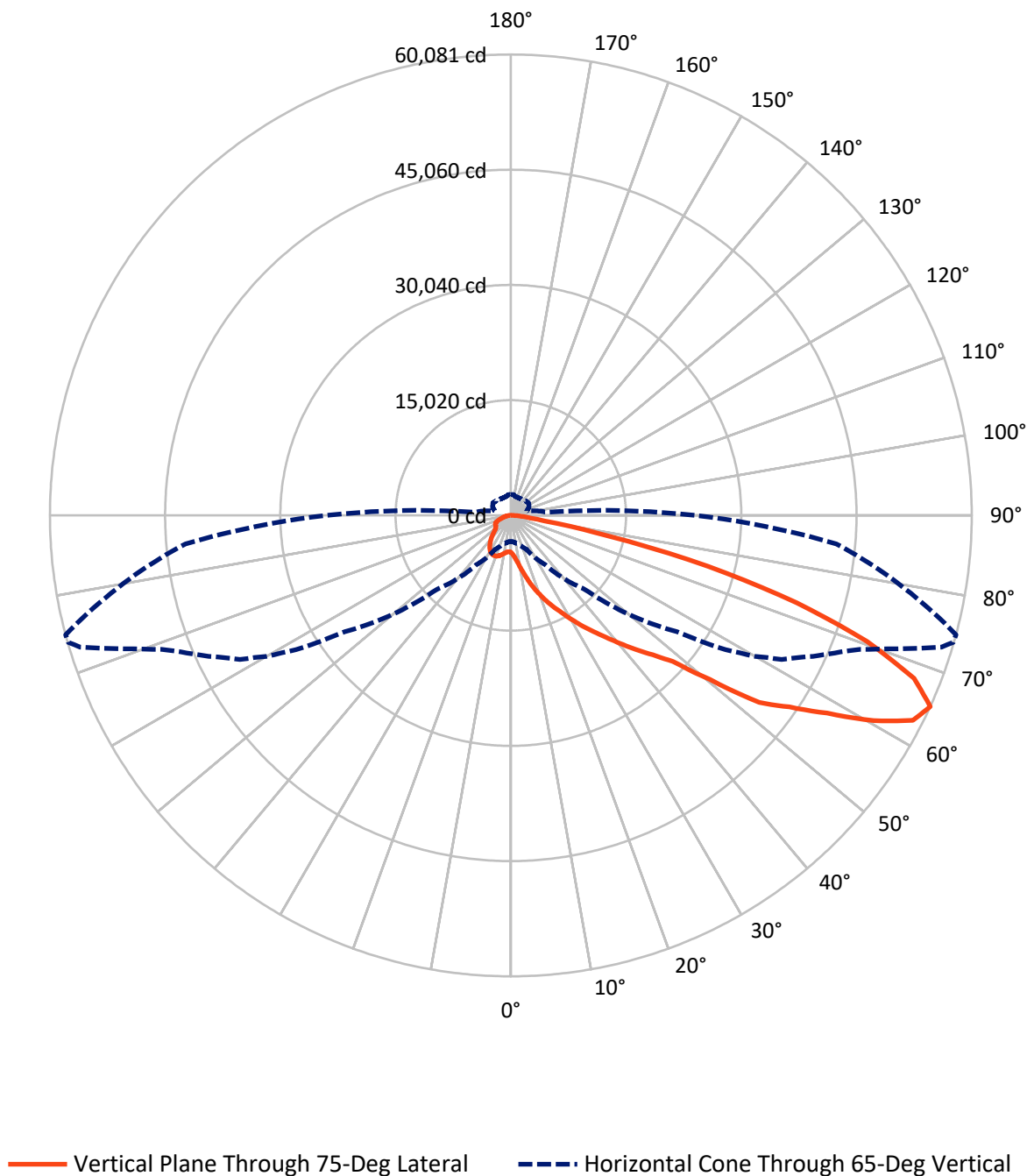


Based on 30 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193158

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P193158

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-7030

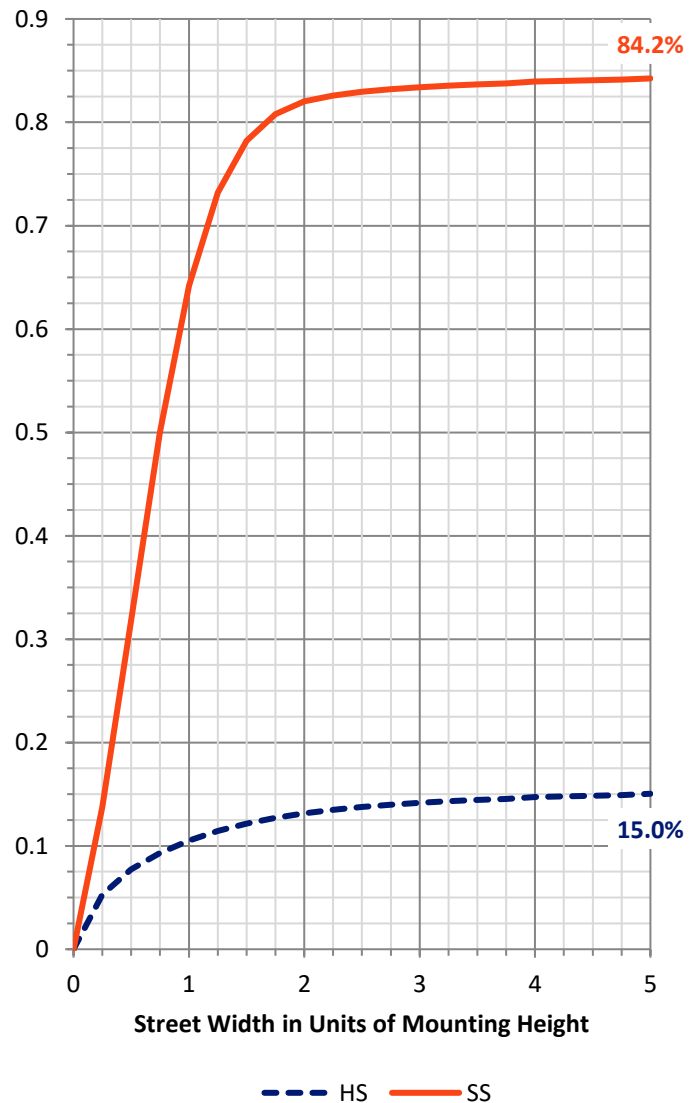
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9152.7	0.0	9152.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	50212.3	0.0	50212.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	59364.9	0.0	59364.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.3	1.0
10°-20°	2330.0	3.9
20°-30°	4780.4	8.1
30°-40°	8042.7	13.5
40°-50°	11112.8	18.7
50°-60°	13872.1	23.4
60°-70°	12483.4	21.0
70°-80°	5232.9	8.8
80°-90°	914.2	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°	59364.9	100.0
0°-180°	59364.9	100.0

Coefficient of Utilization



REPORT NUMBER: P193158

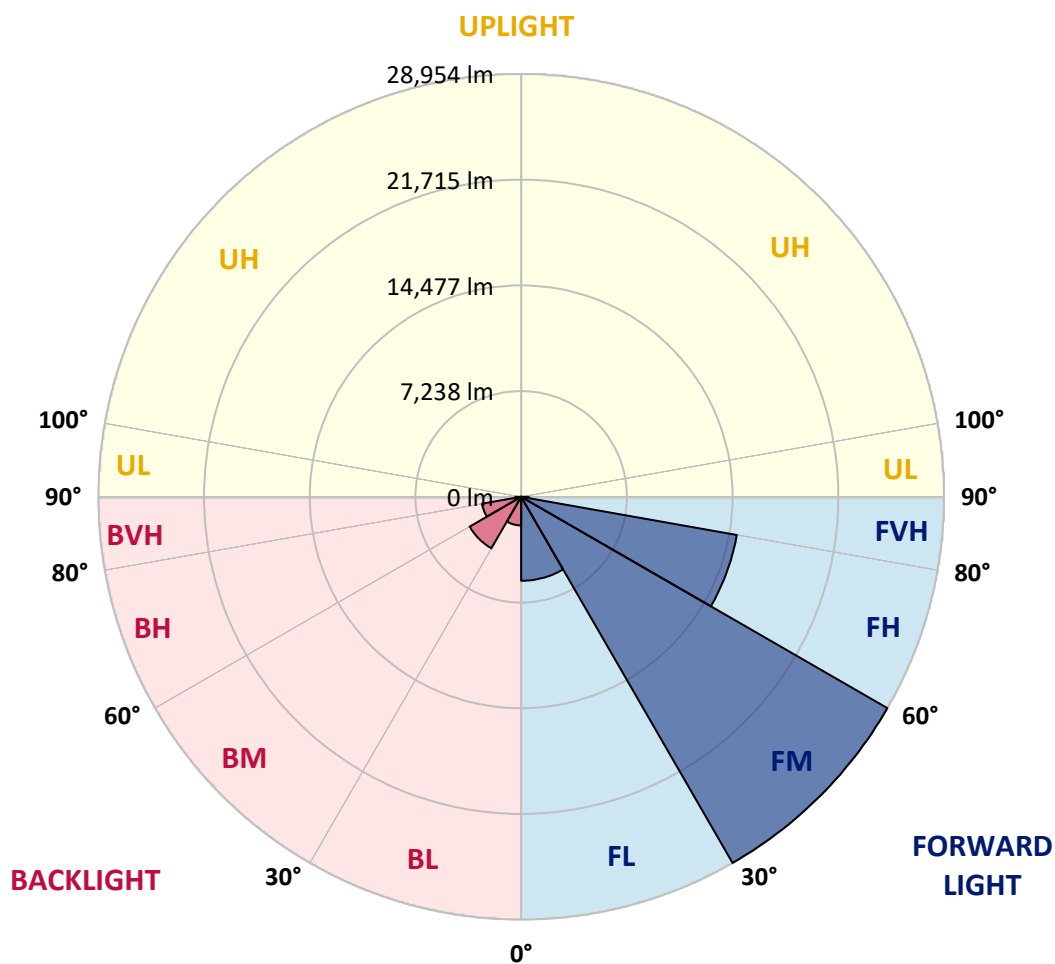
CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5749.3	9.7			
FM	(30°-60°)	28953.7	48.8			
FH	(60°-80°)	14995.4	25.3			G5
FVH	(80°-90°)	513.9	0.9			G4/750
BL	(0°-30°)	1957.4	3.3	B3/2500		
BM	(30°-60°)	4074.0	6.9	B3/5000		
BH	(60°-80°)	2721.0	4.6	B4/5000		G4/5000
BVH	(80°-90°)	400.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



REPORT NUMBER: P193158

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6
2.5°	6125.5	6058.1	6075.0	5962.5	5824.8	5645.0	5445.5	5442.8	5445.5	5425.9	5352.8
5°	8494.3	8412.8	8381.9	8128.9	7758.1	7229.8	6656.6	6594.8	6569.4	6504.9	6355.9
7.5°	10222.3	10177.3	10129.5	9938.4	9601.2	9011.2	8241.3	8109.2	7982.8	7951.9	7783.3
10°	11337.9	11326.6	11225.4	11174.8	10964.0	10452.8	9702.4	9576.0	9438.4	9390.7	9213.5
12.5°	12220.1	12217.3	12169.6	12183.6	12000.9	11630.0	10983.8	10868.6	10767.4	10621.3	10494.8
15°	12829.9	12832.6	12902.9	12981.5	12953.4	12703.3	12096.4	12045.9	11958.8	11857.6	11708.7
17.5°	13329.9	13344.1	13417.1	13560.3	13715.0	13695.3	13214.8	13172.7	13096.8	12959.1	12880.5
20°	14459.6	14512.9	14372.4	14372.4	14389.3	14465.2	14234.8	14201.1	14094.2	14021.2	13959.4
22.5°	16367.5	16429.4	16111.8	15788.6	15471.1	15240.7	15010.2	15052.4	14979.3	14928.8	14892.2
25°	18845.8	18893.5	18379.3	17834.2	17187.9	16344.9	15774.6	15749.2	15710.0	15679.0	15662.2
27.5°	21177.9	21197.6	20711.5	19913.5	19163.3	17952.2	16550.0	16519.2	16471.4	16412.4	16361.8
30°	23172.9	23167.4	22667.2	21905.7	21102.2	19761.7	17727.5	17631.9	17491.5	17331.2	17207.6
32.5°	24901.1	24892.5	24344.7	23555.1	22712.2	21554.4	19340.3	19143.7	18924.5	18612.6	18424.3
35°	26261.0	26255.3	25738.3	24915.1	23948.4	23243.2	21189.2	20947.5	20669.3	20250.6	19961.2
37.5°	26775.2	26775.2	26485.7	25923.8	25069.6	24586.3	23243.2	22951.0	22653.2	22178.2	21852.3
40°	26474.5	26480.2	26542.1	26438.0	26022.2	25651.3	25159.5	24985.3	24729.6	24302.5	23962.5
42.5°	25465.8	25496.7	25906.9	26409.9	26617.8	26558.8	26859.5	26780.7	26601.1	26272.3	26002.5
45°	24187.3	24282.9	24732.5	25682.2	26783.6	27342.7	28284.1	28292.4	28258.9	28081.9	27873.9
47.5°	22431.2	22566.0	23158.9	24443.1	26395.8	28104.2	29731.2	29807.0	29877.3	29762.1	29666.5
50°	20099.0	20259.1	21147.0	22849.8	25606.3	28893.8	32465.2	32808.0	33128.3	33088.9	33153.6
52.5°	17601.0	17789.3	18876.6	20773.4	24249.1	29076.5	34212.9	34772.1	35331.2	35789.2	36275.3
55°	15347.4	15246.4	16333.7	18331.5	22018.2	28253.2	35783.6	36457.9	37081.7	37643.7	38222.6
57.5°	12293.2	12459.0	13549.1	15524.5	19064.9	25929.4	36865.3	37851.7	38748.0	39678.0	40498.6
60°	8985.9	9151.8	10334.8	12341.0	15858.9	22405.9	36039.2	37534.2	38970.0	40394.6	41507.3
62.5°	5425.9	5549.5	6591.9	8502.7	12228.6	18227.6	32358.4	34319.7	36432.7	38135.5	39841.1
65°	3377.4	3447.6	3832.7	4883.6	7853.5	13608.1	26438.0	28576.3	30852.3	33013.1	34786.1
67.5°	2765.0	2790.2	2860.4	3085.3	4313.1	8873.6	19677.5	21571.3	23625.3	25716.0	27688.4
70°	2486.7	2470.0	2470.0	2483.9	2765.0	4771.2	12883.2	14116.8	15828.0	17645.9	19449.9
72.5°	2245.1	2228.3	2197.3	2155.1	2256.3	2911.0	6659.4	7589.4	8823.0	10438.6	12166.7
75°	2017.5	1995.0	1958.5	1905.1	1975.3	2197.3	3197.6	3588.2	4189.5	5049.3	6013.1
77.5°	1781.5	1753.4	1719.6	1680.3	1770.2	1708.4	1874.3	2014.6	2245.1	2520.5	2883.0
80°	1514.6	1489.2	1478.0	1458.3	1565.1	1301.0	1323.4	1410.5	1545.5	1694.4	1863.0
82.5°	1185.8	1185.8	1230.7	1239.1	1357.2	935.7	989.2	1065.0	1135.2	1213.9	1292.5
85°	781.1	786.7	938.5	997.5	1070.5	629.5	741.8	767.1	823.3	868.3	901.9
87.5°	244.4	264.1	573.2	635.1	615.3	356.8	455.2	466.4	505.8	536.7	564.8
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: P193158

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-7030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6
2.5°	5352.8	5319.1	5288.1	5285.3	5262.9	5232.0	5243.3	5195.4	5198.2	5173.0	5144.9
5°	6294.1	6271.6	6159.3	6128.4	6044.0	5990.5	5982.2	5869.9	5855.8	5791.2	5721.0
7.5°	7648.4	7575.4	7418.0	7342.2	7198.9	7092.1	7041.5	6892.6	6819.5	6650.9	6575.1
10°	9067.4	8974.7	8780.8	8674.1	8536.3	8365.0	8272.2	8055.9	7971.5	7817.1	7631.5
12.5°	10382.5	10289.7	10090.2	10008.7	9826.1	9643.4	9542.2	9297.9	9188.2	8941.0	8794.9
15°	11599.1	11506.4	11332.2	11247.9	11065.2	10916.3	10781.4	10539.8	10410.6	10180.1	9989.0
17.5°	12779.3	12680.9	12529.2	12453.3	12276.3	12124.6	11978.4	11750.9	11618.7	11388.4	11217.0
20°	13875.1	13802.0	13692.5	13591.3	13414.3	13276.6	13102.4	12905.7	12714.6	12546.0	12383.1
22.5°	14830.5	14802.3	14684.3	14639.4	14487.7	14369.7	14217.9	14024.1	13886.3	13672.8	13521.1
25°	15653.8	15645.3	15589.1	15575.1	15468.3	15356.0	15322.2	15162.0	15035.6	14847.4	14690.0
27.5°	16361.8	16370.4	16356.2	16395.6	16367.5	16316.9	16319.7	16266.3	16193.2	16035.9	15898.2
30°	17148.6	17103.7	17128.9	17185.2	17202.0	17207.6	17300.3	17331.2	17325.6	17221.7	17154.2
32.5°	18261.3	18154.5	18056.1	18047.8	18103.9	18126.4	18283.8	18365.3	18435.6	18460.8	18472.0
35°	19680.4	19466.7	19261.7	19152.0	19056.5	19081.8	19194.2	19326.3	19480.8	19587.6	19713.9
37.5°	21467.4	21206.0	20843.6	20585.1	20520.4	20379.9	20453.0	20556.9	20708.7	20874.5	21093.6
40°	23633.8	23237.6	22830.2	22487.3	22301.9	22043.4	22040.6	22020.8	22113.6	22268.1	22577.3
42.5°	25718.6	25367.5	24934.7	24575.0	24333.4	23987.8	23917.5	23734.9	23777.1	23911.9	24212.6
45°	27671.5	27382.1	27118.0	26702.1	26497.0	26123.4	26005.3	25788.9	25668.1	25729.9	26030.6
47.5°	29562.6	29377.1	29101.7	28832.0	28674.6	28340.3	28188.6	28034.0	27879.4	27873.9	28188.6
50°	33249.1	33150.8	32824.9	32543.9	32619.7	32209.5	32234.8	31818.9	32007.2	32029.7	32690.0
52.5°	36713.7	37056.5	37298.2	37593.2	37784.2	37820.7	37947.2	38135.5	38363.1	38812.6	39425.2
55°	38697.5	39127.4	39377.5	39602.2	39973.1	40051.8	40262.6	40512.6	40712.0	41217.8	41737.7
57.5°	41054.9	41853.0	42240.7	42597.6	43097.7	43288.7	43640.0	43912.5	44171.0	44769.5	45399.0
60°	42507.7	43479.8	44269.4	44834.2	45460.8	45910.4	46441.4	46868.5	47475.5	48192.0	49130.5
62.5°	41352.8	42780.1	43828.3	44797.6	45649.1	46508.8	47270.4	48068.3	48990.0	50074.6	51530.1
65°	36753.0	38205.7	40001.2	41007.1	42133.8	43460.2	44617.8	45910.4	47166.3	48745.5	50897.9
67.5°	29587.9	31276.5	33294.0	34308.4	35603.8	37084.6	38382.8	39961.9	41428.6	43342.2	46003.1
70°	21326.9	23510.1	25207.3	26266.6	27778.3	29304.1	30557.3	32395.0	33608.8	35570.1	38320.9
72.5°	13504.2	15226.7	17305.9	18640.6	19983.7	21529.2	22810.5	24395.2	25527.7	27314.7	29807.0
75°	7260.8	8530.8	10357.1	11624.4	13063.0	14383.7	15884.1	16946.3	17783.6	19197.0	21220.2
77.5°	3402.8	4175.5	5099.9	6075.0	7050.0	8067.1	9056.2	9916.1	10275.8	11084.9	12279.1
80°	2065.2	2315.3	2585.1	2885.7	3293.2	3622.0	4057.5	4372.1	4394.6	4650.3	5015.6
82.5°	1379.6	1472.4	1553.8	1629.7	1733.7	1815.2	1907.8	2017.5	2062.5	2121.5	2239.5
85°	941.3	986.3	1003.1	1050.8	1039.6	1067.8	1104.3	1140.7	1160.5	1157.7	1211.0
87.5°	578.8	601.4	612.5	623.8	615.3	604.1	621.0	640.7	646.3	629.5	635.1
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: P193158

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-7030

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6
2.5°	5150.5	5125.3	5099.9	5083.1	5077.4	4928.4	4863.9	4821.7	4731.8	4658.7	4599.7
5°	5681.6	5628.2	5586.0	5535.4	5507.3	5130.9	4993.1	4897.5	4740.2	4647.6	4563.2
7.5°	6535.8	6386.9	6299.7	6201.3	6117.1	5437.1	5209.5	5060.6	4841.4	4717.9	4622.2
10°	7505.1	7350.6	7213.0	7061.2	6929.1	5844.5	5513.0	5282.5	4993.1	4833.0	4706.6
12.5°	8586.9	8435.3	8261.0	8067.1	7898.6	6361.5	5900.8	5572.0	5175.7	4962.2	4785.2
15°	9865.4	9598.5	9387.8	9162.9	8966.3	6979.7	6353.1	5898.0	5369.6	5080.2	4844.2
17.5°	11054.0	10773.0	10486.3	10289.7	10062.1	7673.8	6808.3	6229.4	5529.8	5156.1	4855.5
20°	12214.5	11908.1	11660.9	11396.9	11158.0	8393.1	7294.3	6521.6	5633.7	5158.9	4785.2
22.5°	13237.3	13046.2	12770.9	12484.2	12242.6	9112.4	7749.6	6768.9	5673.1	5094.3	4661.5
25°	14400.6	14198.2	13861.0	13619.3	13349.7	9845.8	8196.4	6960.1	5650.7	4973.5	4470.5
27.5°	15642.5	15417.7	15072.1	14819.3	14493.2	10607.2	8606.6	7097.7	5566.3	4776.9	4214.7
30°	16937.8	16732.7	16392.7	16137.0	15808.2	11413.7	9064.5	7190.5	5397.7	4504.2	3917.0
32.5°	18328.8	18157.4	17820.1	17553.3	17202.0	12287.6	9491.7	7218.5	5142.1	4181.1	3602.3
35°	19649.4	19531.4	19247.5	18997.5	18632.2	13113.7	9944.1	7204.4	4838.5	3827.1	3315.7
37.5°	21135.7	21065.5	20925.0	20607.5	20160.7	14234.8	10486.3	7145.4	4467.7	3475.7	3096.5
40°	22720.6	22726.2	22574.5	22358.0	21942.2	15594.8	11132.7	7030.3	4063.1	3166.8	2897.0
42.5°	24398.0	24485.1	24412.2	24257.5	23858.5	16966.0	11905.4	6889.8	3669.7	2866.1	2700.3
45°	26320.0	26426.7	26539.2	26311.6	25923.8	18775.5	12922.5	6707.1	3245.4	2616.0	2565.4
47.5°	28537.0	28705.5	28806.7	28809.5	28421.7	21017.7	14574.7	6597.5	2868.8	2447.4	2500.7
50°	33215.4	33268.8	33507.6	33923.5	33625.6	26207.6	17460.5	6530.1	2613.2	2343.4	2453.0
52.5°	39956.2	40543.5	40956.6	40928.5	40523.8	29503.6	19050.9	6181.7	2461.4	2304.1	2430.6
55°	42701.5	43434.9	44199.2	44401.5	44086.7	32316.2	20554.2	5833.3	2388.4	2332.1	2439.0
57.5°	46359.9	47596.3	48644.4	49085.5	48630.3	35915.7	22532.3	5650.7	2365.9	2408.1	2492.3
60°	50633.7	52162.3	53539.1	54331.6	54331.6	40051.8	24583.5	5574.7	2335.0	2520.5	2582.3
62.5°	53378.9	55624.1	57703.3	58863.9	58830.1	42931.9	25493.9	5316.2	2264.7	2599.2	2706.0
65°	53390.2	56059.7	58709.3	60013.1	60080.5	42577.9	23990.6	4695.3	2135.5	2610.3	2829.5
67.5°	48939.4	51785.8	54873.9	56332.1	56669.3	39194.8	20767.7	3860.7	1924.7	2498.0	2874.5
70°	41333.1	44112.0	47264.7	48697.7	49296.2	33412.1	16727.1	2975.6	1655.1	2250.7	2781.7
72.5°	32563.5	35289.1	37483.6	38531.7	38998.1	25538.8	12180.8	2247.9	1357.2	1896.6	2531.6
75°	23054.9	25100.4	26266.6	26499.8	26572.8	15395.2	7401.2	1671.8	1118.4	1475.2	2138.3
77.5°	13012.4	13889.1	13793.7	13897.6	13032.1	5942.8	3222.9	1197.1	921.6	1121.1	1657.8
80°	5080.2	5237.6	4920.1	4821.7	4422.7	2211.4	1421.8	834.5	736.2	848.6	1160.5
82.5°	2239.5	2312.5	2245.1	2262.0	2163.6	1140.7	851.3	604.1	561.9	621.0	769.9
85°	1233.5	1256.1	1250.4	1287.0	1233.5	455.2	404.6	370.9	393.4	421.5	494.5
87.5°	601.4	606.9	587.3	618.2	598.5	230.4	199.5	210.8	230.4	236.0	236.0
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: P193158

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-7030

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	4824.6	4824.6	4824.6	4824.6	4824.6	4824.6
2.5°	4557.6	4535.2	4538.0	4532.3	4521.0	4521.0
5°	4518.3	4495.8	4495.8	4490.1	4476.2	4479.0
7.5°	4557.6	4521.0	4507.1	4487.4	4467.7	4467.7
10°	4602.5	4538.0	4498.6	4464.9	4439.5	4439.5
12.5°	4636.3	4535.2	4470.5	4425.5	4400.2	4400.2
15°	4647.6	4515.4	4425.5	4372.1	4349.7	4346.9
17.5°	4611.0	4439.5	4330.1	4268.2	4240.2	4231.6
20°	4498.6	4301.9	4169.9	4099.6	4060.3	4046.2
22.5°	4330.1	4105.2	3950.7	3877.6	3827.1	3818.6
25°	4094.0	3852.4	3700.6	3630.3	3602.3	3593.9
27.5°	3818.6	3593.9	3464.6	3419.6	3394.3	3391.5
30°	3557.3	3366.2	3270.6	3237.0	3206.1	3200.4
32.5°	3312.8	3192.0	3155.5	3107.7	3034.6	3026.3
35°	3138.6	3127.3	3102.1	2995.4	2905.4	2880.1
37.5°	3031.8	3135.8	3006.6	2795.8	2731.2	2725.6
40°	2970.0	3048.7	2826.7	2753.7	2759.3	2753.7
42.5°	2829.5	2911.0	2832.3	2798.6	2821.1	2826.7
45°	2689.1	2779.0	2874.5	2852.0	2905.4	2905.4
47.5°	2610.3	2745.2	2871.7	2871.7	2950.3	2978.4
50°	2520.5	2717.2	2826.7	2866.1	2927.9	2905.4
52.5°	2514.8	2669.4	2762.1	2832.3	2860.4	2835.2
55°	2523.3	2630.0	2697.5	2776.2	2809.8	2812.7
57.5°	2534.5	2607.6	2652.5	2689.1	2790.2	2790.2
60°	2562.5	2588.0	2613.2	2632.8	2765.0	2767.7
62.5°	2607.6	2568.2	2562.5	2582.3	2750.8	2739.5
65°	2677.8	2540.2	2498.0	2517.7	2736.8	2703.1
67.5°	2773.3	2498.0	2416.5	2430.6	2725.6	2652.5
70°	2860.4	2430.6	2315.3	2301.3	2618.8	2489.6
72.5°	2868.8	2351.8	2174.8	2132.7	2276.0	2152.4
75°	2728.4	2298.5	2020.3	1896.6	1879.8	1863.0
77.5°	2458.7	2267.5	1840.5	1646.5	1612.8	1624.1
80°	2056.8	2152.4	1624.1	1393.7	1576.3	1556.6
82.5°	1537.0	1899.5	1379.6	1233.5	1230.7	1087.4
85°	854.2	1480.8	1124.0	924.5	643.4	623.8
87.5°	238.8	823.3	786.7	522.6	356.8	370.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)