

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: P192718

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58459.2 lumens
Efficiency: N/A
Efficacy: 104.8 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 - G4

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



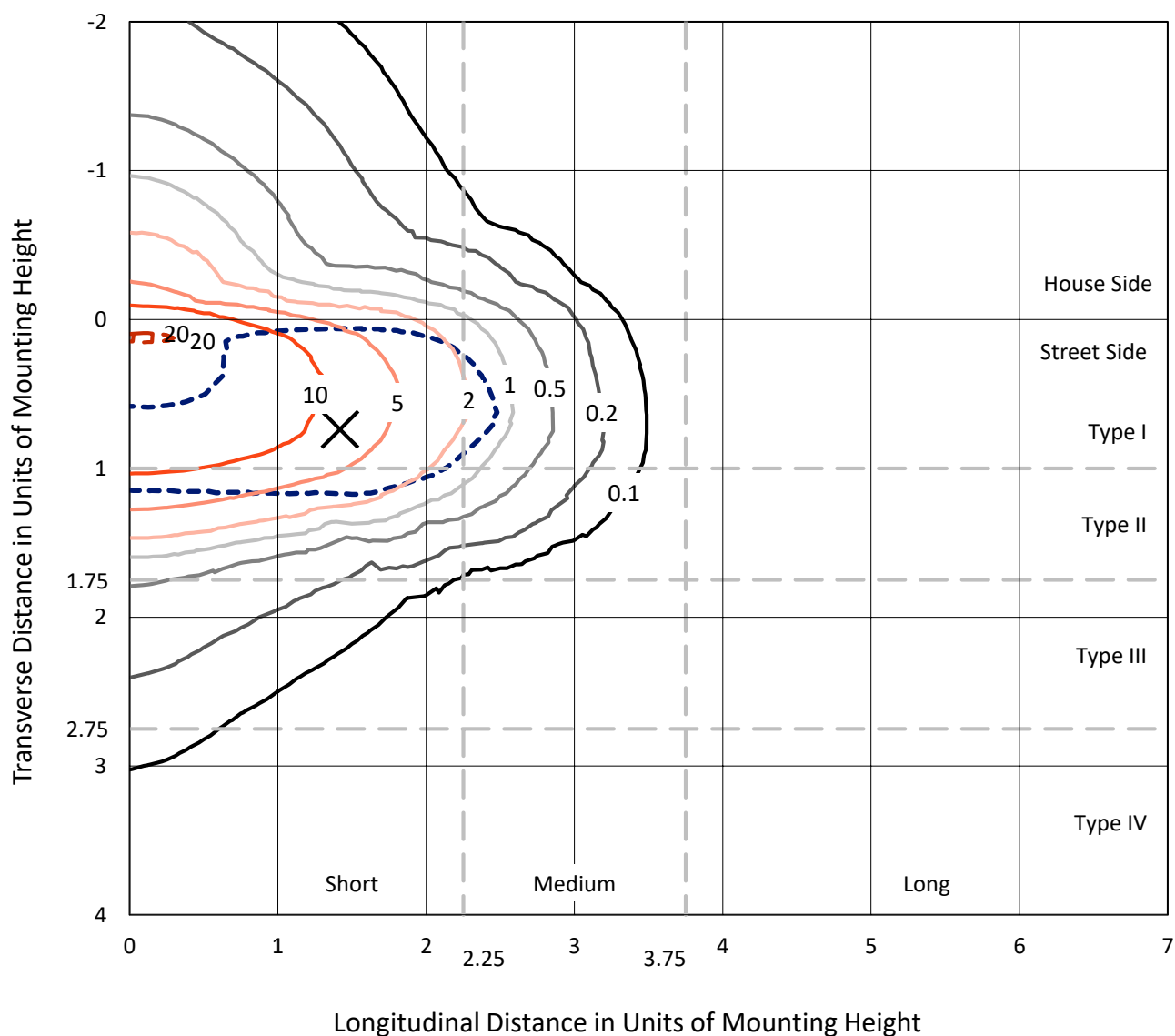
REPORT NUMBER: P192718

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

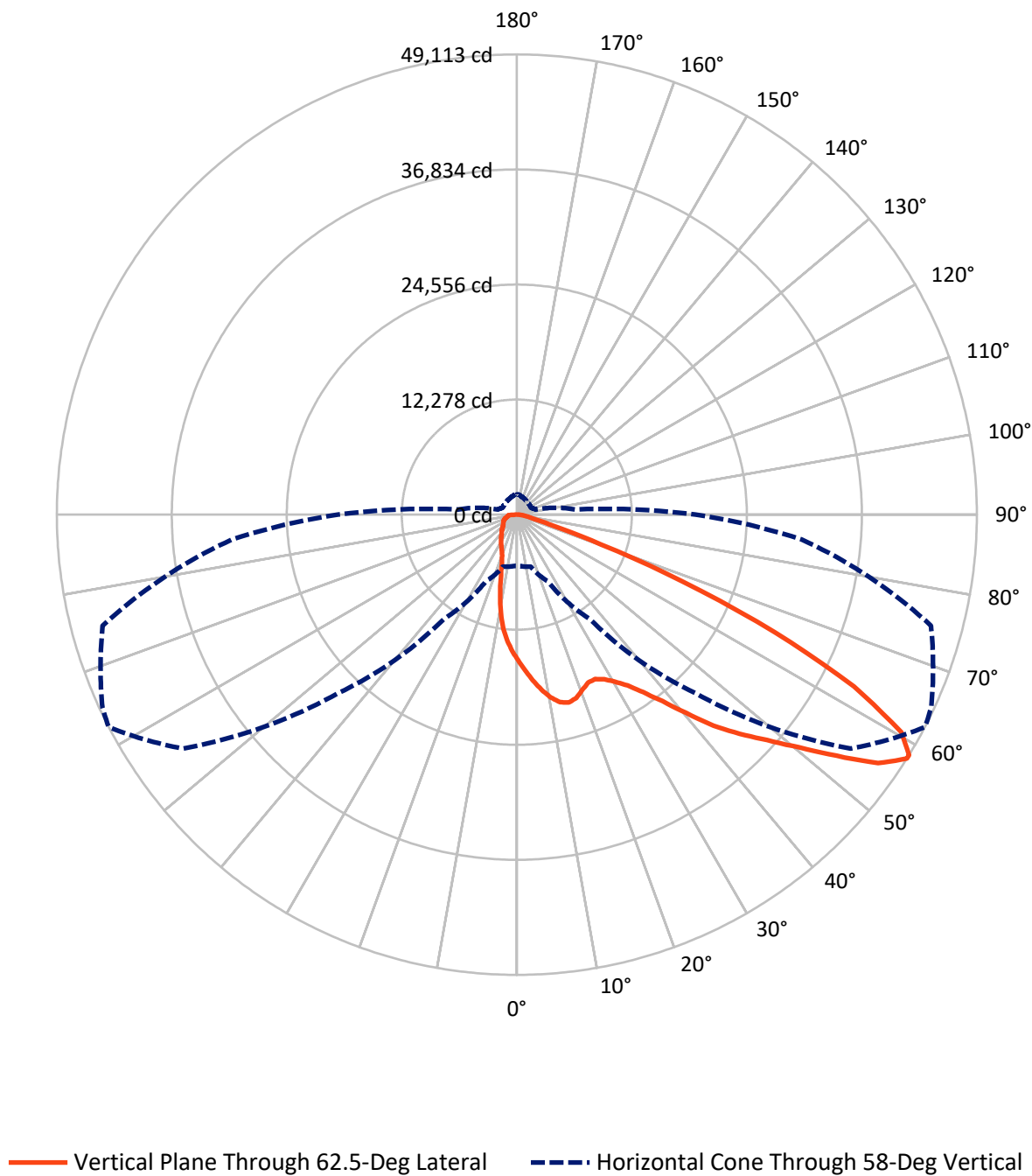


Based on 30 foot mounting height. Maximum calculated value = 21 fc
Type II - Short - Full Cutoff

REPORT NUMBER: P192718

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

Luminous Intensity Polar Plot



REPORT NUMBER: P192718

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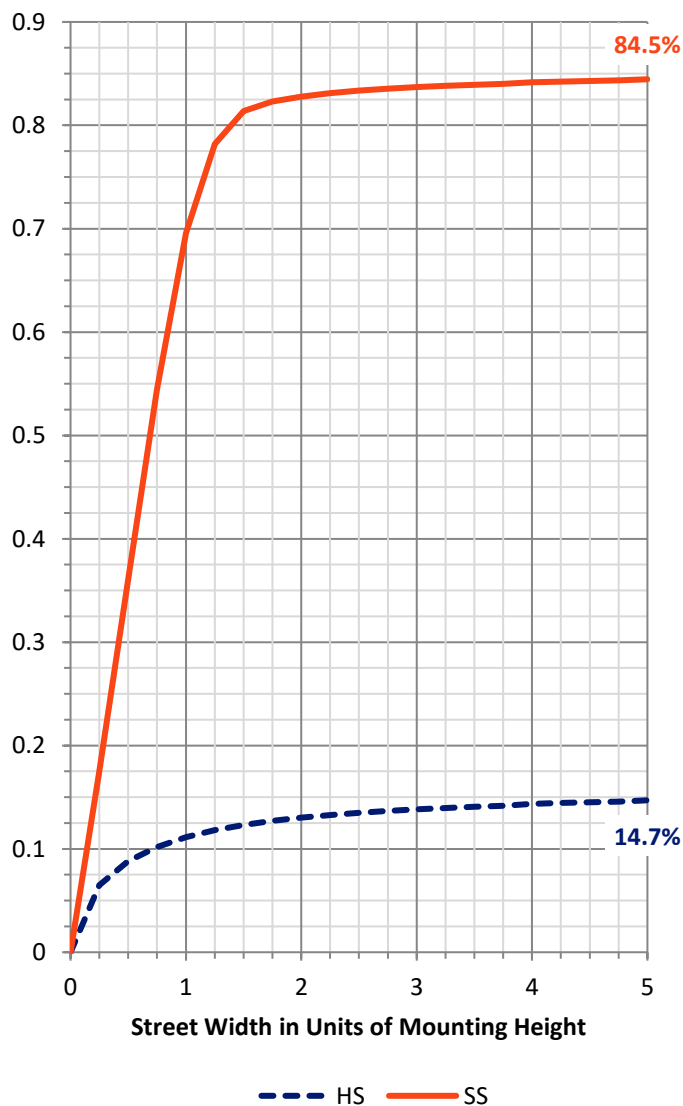
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8915.2	0.0	8915.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	49543.9	0.0	49543.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	58459.2	0.0	58459.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1388.8	2.4
10°-20°	3550.0	6.1
20°-30°	5738.7	9.8
30°-40°	9110.1	15.6
40°-50°	13329.9	22.8
50°-60°	13942.0	23.8
60°-70°	8236.9	14.1
70°-80°	2320.4	4.0
80°-90°	842.4	1.4
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°	58459.2	100.0
0°-180°	58459.2	100.0

Coefficient of Utilization



REPORT NUMBER: P192718

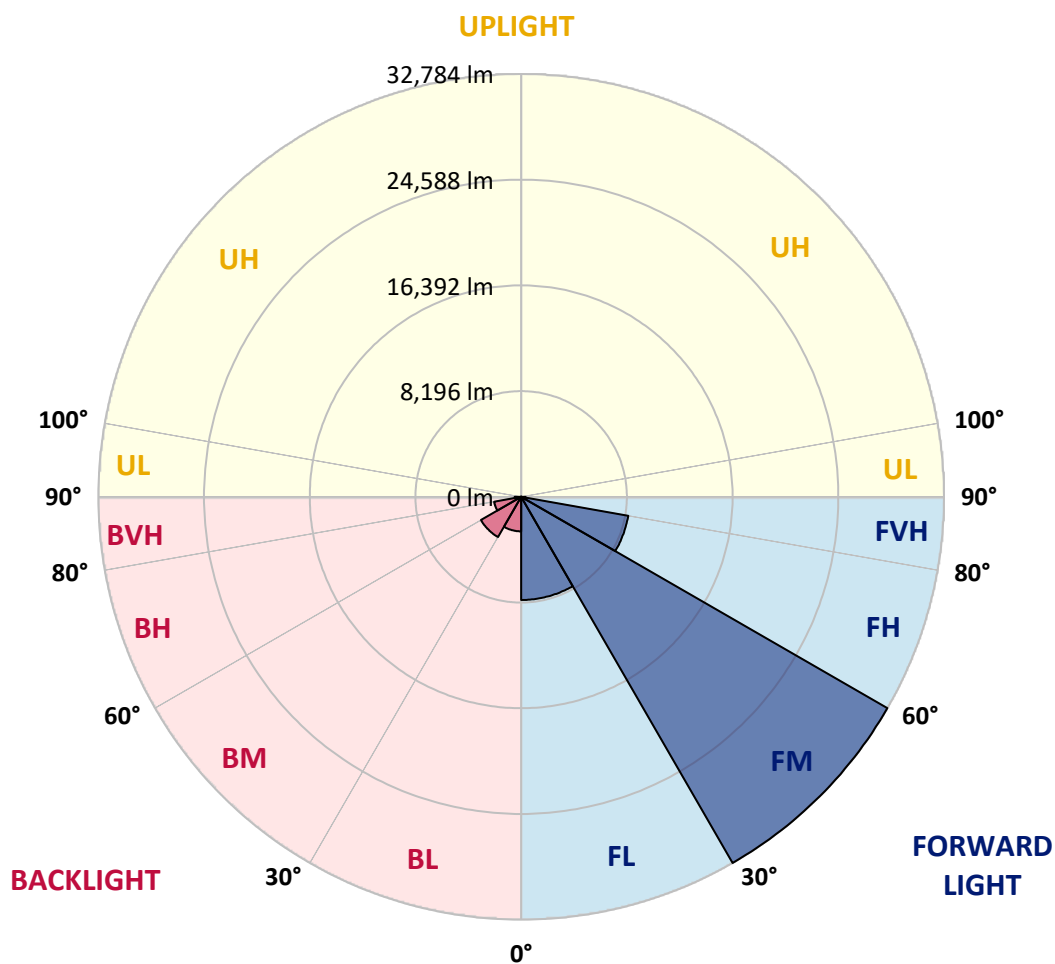
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7997.9	13.7			
FM	(30°-60°)	32783.6	56.1			
FH	(60°-80°)	8430.1	14.4			G4/12000
FVH	(80°-90°)	332.3	0.6			G3/500
BL	(0°-30°)	2679.5	4.6	B4/5000		
BM	(30°-60°)	3598.4	6.2	B3/5000		
BH	(60°-80°)	2127.3	3.6	B3/2500		G3/2500
BVH	(80°-90°)	510.1	0.9			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P192718

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	15528.5	15528.5	15528.5	15528.5	15528.5	15528.5	15528.5	15528.5	15528.5	15528.5	15528.5
2.5°	17744.5	17601.3	17510.6	17430.6	17326.0	17103.1	16803.0	16613.1	16516.7	16189.2	15801.0
5°	19484.2	19357.6	19264.0	19156.7	18969.5	18619.9	18135.4	17750.0	17560.0	16904.9	16128.7
7.5°	19076.8	19129.1	19291.6	19575.1	19817.3	19770.6	19338.4	18848.4	18597.9	17686.7	16508.5
10°	16621.4	16712.2	16993.0	17656.4	18730.0	19831.1	20167.0	19828.4	19575.1	18460.2	16899.3
12.5°	16128.7	16125.8	16147.9	16324.0	16962.7	18512.6	20194.5	20535.9	20384.4	19198.0	17298.6
15°	16329.6	16335.1	16318.5	16392.8	16591.0	17204.9	19352.1	20808.3	20915.7	19941.2	17711.5
17.5°	16858.0	16844.3	16781.0	16781.0	16852.5	17092.1	18361.1	20555.1	21050.6	20599.0	18074.9
20°	17744.5	17681.2	17513.2	17359.1	17282.0	17411.4	17953.7	19971.5	20816.6	21174.5	18374.9
22.5°	18818.0	18768.5	18496.0	18165.7	17898.7	17895.9	18162.9	19462.3	20412.0	21716.8	18628.1
25°	20205.5	20125.7	19721.0	19192.5	18724.6	18545.5	18619.9	19437.4	20191.7	22305.9	18853.9
27.5°	21835.1	21689.3	21210.3	20447.8	19759.5	19398.9	19291.6	19886.2	20392.7	23035.3	19167.7
30°	23811.6	23643.7	23029.8	22036.1	21064.3	20472.5	20244.0	20681.6	21058.8	23924.5	19671.5
32.5°	26060.6	25818.4	25108.3	24012.6	22735.3	21832.4	21460.7	21733.3	22033.3	24995.4	20301.8
35°	29168.5	28879.5	27852.7	26341.5	24899.0	23657.5	23062.9	23261.1	23552.9	26591.9	21213.0
37.5°	31288.2	31158.8	30476.1	29055.7	27486.6	26057.9	25138.5	25254.0	25419.2	28587.6	22380.2
40°	31268.9	31321.3	31335.0	31348.7	30280.6	28912.5	27924.3	27803.2	27770.1	30779.0	23707.1
42.5°	29702.5	29917.4	30611.0	32017.7	32667.3	32039.7	31134.1	30784.5	30611.0	33361.1	25113.7
45°	27304.9	27420.6	28719.9	31467.1	33889.6	35136.5	34451.2	33350.1	33036.1	35734.0	26280.9
47.5°	26068.9	26195.6	27013.2	30008.2	33875.9	37638.9	38035.4	35937.7	35376.1	37798.6	27288.4
50°	23126.2	23390.4	24420.0	27470.1	32639.8	38789.5	41781.9	39020.8	37859.1	39808.1	28298.7
52.5°	17722.5	18129.8	19283.2	23296.8	29504.4	38219.8	44779.6	42759.0	41118.4	41889.2	29165.7
55°	11179.1	11481.8	12450.8	16453.5	23602.4	35255.0	45916.5	46803.0	45343.9	43860.2	29917.4
57.5°	6078.2	6213.0	6576.5	9084.3	15352.3	28700.5	44259.4	49104.3	48498.6	45533.9	30484.4
58°	5439.5	5530.3	5756.1	7873.0	13615.4	26908.5	43524.4	49112.5	48809.7	45778.9	30528.4
60°	4035.6	3988.8	3787.8	4492.5	7578.4	18589.6	39081.4	47147.0	48036.2	46079.0	30313.8
62.5°	3545.6	3432.7	3022.5	2975.7	3686.0	8564.0	29903.6	40386.1	42486.5	44366.7	29008.9
65°	3330.9	3209.7	2681.2	2510.6	2659.2	3622.7	17615.1	30289.0	32923.3	39174.9	25672.5
67.5°	3171.2	3014.4	2463.8	2229.8	2240.8	2395.0	7060.9	19076.8	22041.6	29743.8	19968.8
70°	3017.0	2846.4	2279.2	2009.5	1946.2	1893.9	2807.9	9549.5	12238.9	18787.7	12731.7
72.5°	2851.8	2684.0	2116.9	1836.1	1712.2	1538.8	1833.4	3906.2	5456.1	8888.8	5775.3
75°	2612.4	2460.9	1954.4	1681.9	1505.8	1274.5	1384.7	2039.9	2447.2	3540.1	2783.1
77.5°	2317.8	2193.9	1772.8	1555.3	1335.1	1035.0	1065.3	1414.9	1569.1	2026.1	1654.4
80°	1665.4	1709.5	1577.3	1398.4	1189.2	839.5	817.6	1032.3	1114.9	1302.1	1076.3
82.5°	1169.9	1194.8	1304.8	1142.5	982.8	660.7	602.9	726.7	776.3	856.1	580.8
85°	806.6	779.0	894.7	795.5	710.1	440.5	412.9	492.8	523.1	531.3	300.0
87.5°	484.4	484.4	517.6	426.6	382.6	228.5	223.0	280.8	300.0	286.3	165.2
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: P192718

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15528.5	15528.5	15528.5	15528.5	15528.5	15528.5	15528.5	15528.5	15528.5	15528.5	15528.5
2.5°	15569.8	15374.3	14958.6	14625.6	14204.4	13766.6	13521.7	13260.1	13081.3	12951.9	13158.3
5°	15688.1	15288.9	14430.1	13615.4	12715.1	11779.2	11068.9	10408.2	9948.6	9662.4	9932.1
7.5°	15875.4	15261.5	13893.3	12500.5	10884.5	9326.5	7933.6	7060.9	6551.6	6301.1	6458.1
10°	16090.1	15217.4	13263.0	10989.2	8676.9	6714.1	5673.5	5321.2	5205.5	5158.6	5180.7
12.5°	16269.0	15123.7	12489.4	9161.3	6515.9	5302.0	5001.8	4993.5	5018.4	5023.8	5032.2
15°	16395.7	14986.2	11341.5	7256.4	5211.0	4831.1	4814.6	4864.2	4910.9	4930.3	4941.2
17.5°	16481.0	14702.7	10045.0	5736.7	4668.7	4602.6	4641.3	4704.4	4754.1	4767.8	4778.9
20°	16472.7	14287.0	8500.6	4784.4	4374.2	4374.2	4440.3	4489.8	4492.5	4476.1	4484.3
22.5°	16387.4	13717.2	7003.1	4277.8	4112.6	4159.5	4225.5	4178.7	3986.0	3859.4	3867.7
25°	16244.2	13037.3	5720.3	3955.7	3870.4	3953.0	3933.8	3581.4	3306.0	3182.1	3182.1
27.5°	16117.6	12233.4	4734.8	3674.9	3628.2	3730.0	3388.6	3069.3	2953.8	2895.9	2876.7
30°	16026.7	11366.2	4076.9	3405.2	3399.7	3325.5	2939.9	2851.8	2832.6	2785.8	2769.2
32.5°	16048.8	10488.2	3655.7	3168.4	3187.7	2846.4	2725.3	2744.5	2727.9	2678.5	2656.4
35°	16230.5	9654.0	3380.4	2953.8	2895.9	2571.1	2598.6	2634.5	2628.9	2560.1	2538.1
37.5°	16555.3	8863.9	3198.8	2774.8	2527.0	2433.4	2477.6	2532.5	2518.8	2472.0	2455.5
40°	16896.6	8120.7	3050.1	2634.5	2309.6	2339.9	2378.5	2408.7	2422.5	2436.3	2425.2
42.5°	17229.7	7344.4	2868.4	2491.2	2218.7	2251.9	2268.3	2298.6	2372.9	2425.2	2422.5
45°	17428.0	6615.0	2681.2	2287.6	2147.2	2166.4	2155.4	2216.0	2306.8	2392.1	2395.0
47.5°	17648.1	6047.8	2532.5	2100.4	2078.3	2092.1	2059.1	2119.6	2202.2	2306.8	2317.8
50°	17915.1	5709.3	2414.2	1951.7	1984.8	1984.8	1976.5	2031.5	2147.2	2268.3	2290.3
52.5°	18218.0	5643.2	2315.1	1844.4	1891.2	1888.4	1896.6	1979.2	2105.9	2224.3	2243.5
55°	18586.8	5822.1	2207.7	1764.5	1800.4	1811.3	1838.9	1932.5	2039.9	2174.7	2183.0
57.5°	19016.2	6185.5	2122.4	1701.2	1717.8	1753.5	1797.6	1882.9	1998.6	2147.2	2155.4
58°	19087.8	6262.6	2108.6	1695.7	1701.2	1742.4	1792.1	1874.7	1990.2	2152.7	2160.9
60°	19090.6	6518.6	2078.3	1670.9	1637.9	1706.7	1761.8	1844.4	1976.5	2172.0	2191.2
62.5°	18413.5	6515.9	2056.4	1635.2	1571.8	1657.1	1720.5	1816.9	1962.8	2218.7	2257.3
65°	16214.0	5921.2	1951.7	1580.1	1519.6	1613.1	1684.7	1797.6	2001.3	2422.5	2447.2
67.5°	12682.0	4853.2	1756.3	1503.0	1450.8	1569.1	1662.7	1794.8	2042.6	2469.3	2485.7
70°	8385.0	3630.9	1541.5	1414.9	1379.2	1516.7	1673.8	1888.4	1995.7	2370.2	2326.1
72.5°	4352.2	2549.1	1368.2	1304.8	1296.6	1470.0	1833.4	1877.4	1948.9	2229.8	2174.7
75°	2284.8	1770.0	1216.7	1183.8	1197.5	1458.9	2163.7	1827.8	1888.4	2133.4	2238.0
77.5°	1398.4	1428.7	1087.3	1073.6	1101.2	1426.0	2160.9	1764.5	1800.4	1962.8	2078.3
80°	936.0	1158.9	988.2	991.0	1010.3	1304.8	1940.7	1665.4	1693.0	1855.3	1973.8
82.5°	591.8	685.5	897.4	944.2	919.4	1076.3	1648.9	1516.7	1555.3	2122.4	2243.5
85°	300.0	429.4	779.0	908.4	828.6	754.2	1337.9	1329.5	1349.0	1530.5	1599.3
87.5°	137.6	236.8	608.3	792.7	624.9	470.7	971.8	985.5	1062.5	1087.3	1087.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)