

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: P193111

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17247.7 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 166
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



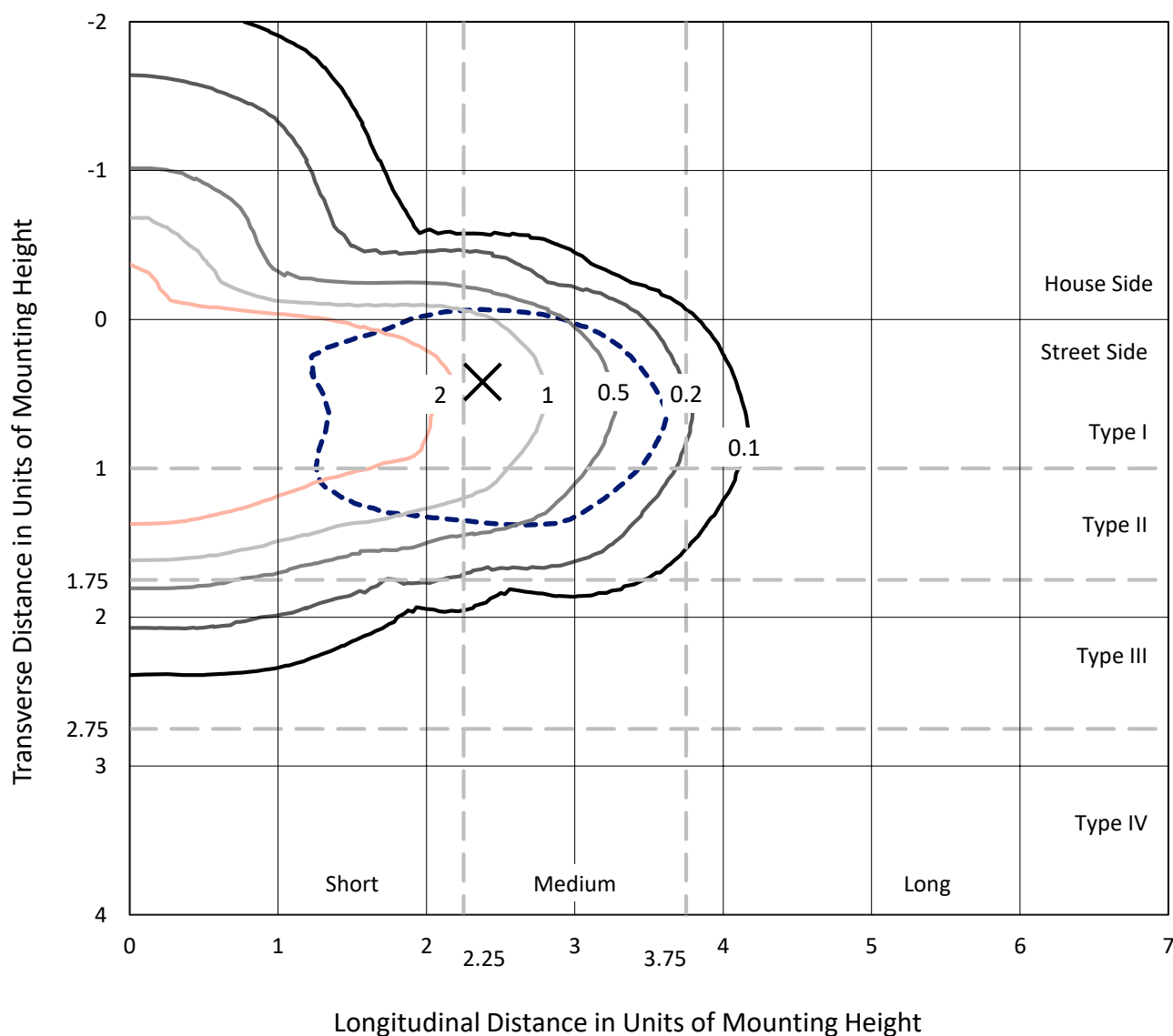
REPORT NUMBER: P193111

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

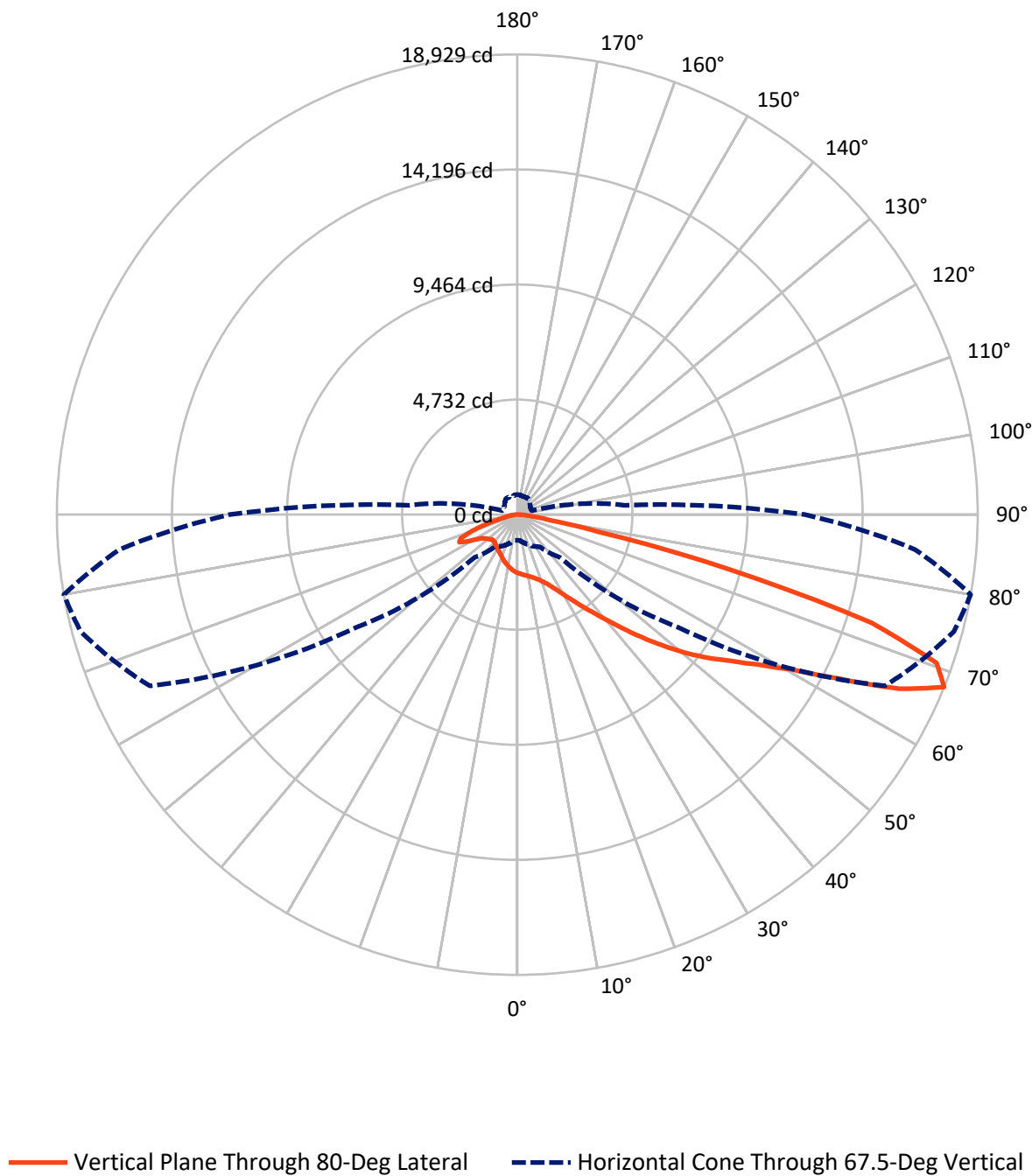


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193111

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P193111

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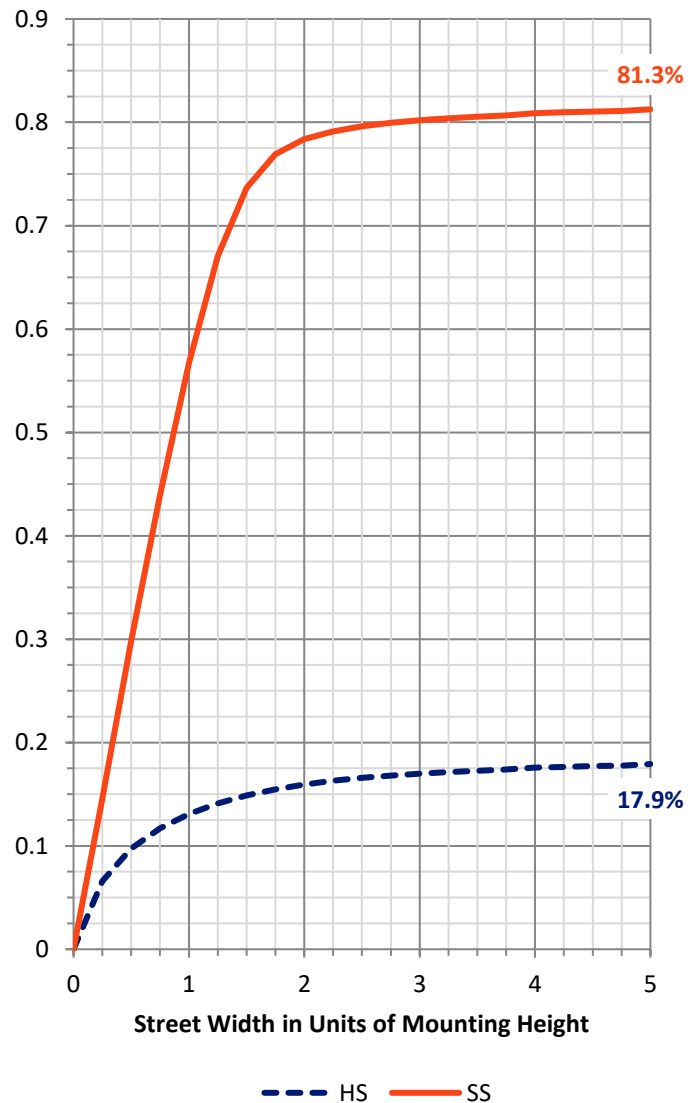
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3176.4	0.0	3176.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	14071.3	0.0	14071.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	17247.7	0.0	17247.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.0	1.3
10°-20°	636.7	3.7
20°-30°	1054.0	6.1
30°-40°	1724.0	10.0
40°-50°	2783.6	16.1
50°-60°	4018.7	23.3
60°-70°	4434.8	25.7
70°-80°	2044.2	11.9
80°-90°	330.6	1.9
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°	17247.7	100.0
0°-180°	17247.7	100.0

Coefficient of Utilization



REPORT NUMBER: P193111

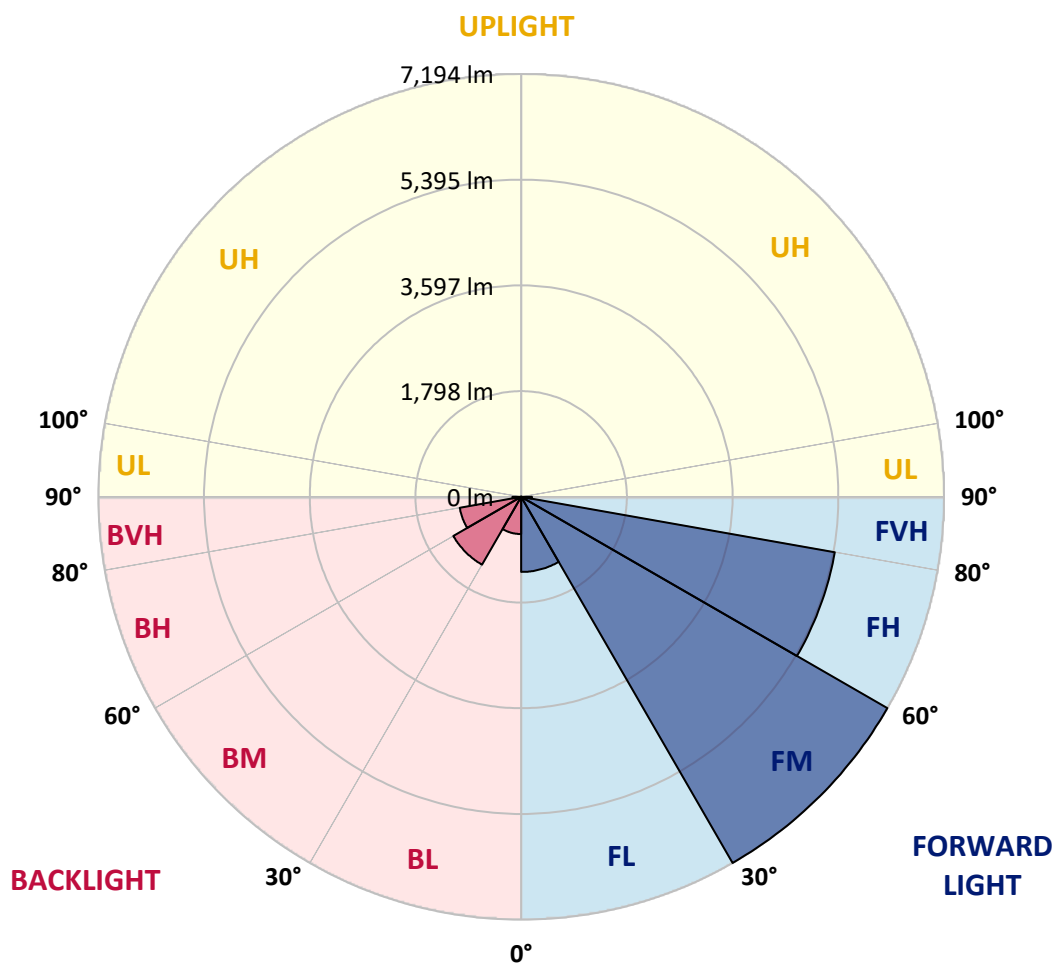
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1278.0	7.4			
FM	(30°-60°)	7193.6	41.7			
FH	(60°-80°)	5417.9	31.4			G3/7500
FVH	(80°-90°)	181.8	1.1			G2/225
BL	(0°-30°)	633.7	3.7	B2/1000		
BM	(30°-60°)	1332.7	7.7	B2/2500		
BH	(60°-80°)	1061.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	148.9	0.9			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 Medium



REPORT NUMBER: P193111

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2
2.5°	2621.2	2606.0	2608.4	2604.2	2591.5	2569.4	2545.6	2502.4	2457.3	2433.5	2414.8
5°	2840.3	2836.1	2830.2	2816.4	2784.3	2738.4	2681.5	2605.1	2522.7	2479.4	2437.8
7.5°	3004.2	3001.6	2994.0	2985.5	2954.1	2898.8	2813.1	2704.3	2584.7	2525.3	2460.7
10°	3017.7	3022.0	3027.9	3050.8	3055.1	3025.4	2938.0	2806.4	2649.2	2572.8	2490.4
12.5°	2902.3	2911.6	2934.6	2993.1	3055.1	3091.6	3046.5	2913.3	2724.8	2632.3	2527.8
15°	2749.4	2754.5	2782.5	2863.2	2974.5	3087.3	3129.8	3031.3	2822.5	2708.6	2583.9
17.5°	2684.1	2686.5	2706.2	2759.7	2863.2	3024.6	3176.5	3159.6	2942.2	2803.8	2652.6
20°	2650.9	2656.8	2684.9	2737.6	2802.9	2943.9	3183.4	3298.0	3084.8	2922.6	2739.2
22.5°	2745.1	2742.6	2752.8	2779.1	2834.3	2919.3	3178.3	3440.6	3266.6	3075.5	2852.2
25°	2965.1	2974.5	2956.7	2926.9	2944.7	3004.2	3205.4	3595.1	3494.1	3271.7	2999.9
27.5°	3278.5	3269.1	3242.9	3173.1	3136.7	3162.1	3295.4	3761.6	3776.9	3529.7	3195.2
30°	3591.0	3583.2	3557.8	3473.0	3398.2	3376.8	3470.3	3952.7	4113.9	3839.7	3434.7
32.5°	3915.3	3906.8	3883.0	3798.1	3708.0	3658.9	3719.0	4173.3	4511.4	4209.9	3716.6
35°	4315.2	4299.1	4249.0	4131.0	4042.6	4004.5	4032.4	4451.1	4969.8	4648.1	4058.8
37.5°	4691.4	4715.9	4665.1	4502.0	4387.5	4373.7	4405.3	4789.8	5464.0	5138.0	4451.9
40°	5069.2	5073.5	5027.6	4894.3	4776.3	4754.2	4833.2	5200.8	6047.4	5723.9	4930.0
42.5°	5459.8	5468.3	5391.1	5267.9	5181.3	5185.6	5275.6	5682.2	6716.5	6414.2	5480.2
45°	5922.6	5935.3	5850.4	5689.0	5610.1	5768.9	5731.5	6222.4	7450.2	7198.8	6112.0
47.5°	6406.5	6426.1	6361.6	6210.4	6112.0	6330.2	6187.5	6820.9	8239.8	8040.3	6805.6
50°	6670.6	6698.6	6761.5	6750.5	6729.3	6692.6	6696.2	7462.9	9054.1	8916.5	7518.9
52.5°	6528.9	6528.0	6757.2	7035.7	7332.9	7355.0	7316.0	8139.6	9814.9	9773.4	8190.5
55°	5880.2	5924.2	6271.6	6810.7	7622.5	8129.4	8244.9	8914.9	10562.1	10610.5	8872.4
57.5°	4800.1	4836.6	5305.3	6056.8	7231.9	8589.6	9566.0	10041.6	11397.7	11623.5	9780.2
60°	3255.5	3299.6	3796.4	4699.0	6180.7	8333.2	10823.7	12052.4	12397.9	12911.6	11053.8
62.5°	1913.0	1953.0	2358.1	2964.3	4351.7	7141.9	11375.6	14913.1	13986.6	14855.2	12996.6
65°	1317.0	1344.1	1541.1	1845.2	2500.6	4810.2	10691.2	16888.1	16431.2	17263.4	15249.2
67.5°	1059.7	1056.3	1212.6	1419.8	1609.9	2480.3	8084.4	16664.8	18581.1	18928.5	16418.5
70°	872.9	869.4	975.6	1147.1	1286.4	1396.8	4403.4	14063.1	18143.0	18284.0	15341.8
72.5°	730.3	733.6	801.5	928.9	1055.5	1052.0	1935.1	9893.0	14272.7	15247.5	12229.8
75°	616.4	618.2	663.2	753.2	856.8	847.5	1049.6	5359.6	8296.7	8975.1	6779.3
77.5°	524.8	526.4	555.4	605.4	679.3	675.9	765.9	2315.5	3461.0	3418.5	2318.9
80°	467.8	467.8	481.4	490.8	531.5	516.2	568.0	1112.4	1463.0	1351.0	925.5
82.5°	366.8	368.5	451.7	448.3	418.6	399.2	399.2	655.5	775.2	716.6	541.7
85°	206.3	205.5	291.2	351.5	368.5	281.1	278.5	366.8	422.0	371.9	262.3
87.5°	88.3	90.0	135.1	156.2	208.9	175.0	172.4	189.3	214.8	186.0	121.4
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: P193111

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2	2396.2
2.5°	2397.0	2375.0	2326.5	2266.2	2212.0	2176.3	2144.0	2097.3	2099.9	2067.6	2043.8
5°	2395.4	2349.5	2237.4	2104.2	1975.9	1883.3	1813.7	1750.9	1735.6	1705.9	1688.0
7.5°	2397.0	2322.3	2133.9	1920.7	1762.0	1644.8	1585.4	1552.1	1544.5	1534.3	1535.2
10°	2403.0	2297.7	2020.1	1749.1	1582.7	1505.5	1491.1	1501.2	1513.1	1516.5	1517.4
12.5°	2416.6	2275.7	1895.2	1596.4	1470.6	1446.9	1471.5	1506.3	1529.3	1540.3	1539.5
15°	2447.2	2258.6	1775.5	1476.6	1408.7	1421.5	1467.3	1516.5	1549.7	1564.9	1565.8
17.5°	2480.3	2234.1	1652.3	1384.9	1362.8	1395.1	1451.9	1509.8	1550.5	1567.5	1570.8
20°	2523.6	2203.4	1523.3	1316.1	1319.6	1356.0	1409.6	1467.3	1512.2	1526.7	1533.5
22.5°	2580.4	2170.3	1410.4	1260.1	1270.2	1298.3	1339.9	1390.0	1429.1	1435.8	1441.7
25°	2656.8	2134.7	1320.4	1209.2	1213.5	1229.5	1257.6	1287.3	1314.4	1306.7	1312.8
27.5°	2759.7	2104.2	1253.3	1162.4	1154.8	1158.1	1172.7	1181.9	1196.4	1175.2	1177.7
30°	2880.2	2071.0	1201.6	1121.6	1100.5	1094.6	1097.9	1103.0	1114.0	1085.2	1080.9
32.5°	3020.3	2031.1	1153.1	1086.0	1056.3	1044.4	1046.1	1059.7	1102.1	1084.3	1075.0
35°	3183.4	1986.2	1102.1	1046.9	1026.6	1009.5	1007.9	1050.3	1176.8	1165.8	1157.4
37.5°	3374.4	1941.1	1051.2	1002.8	1004.5	985.8	979.8	1028.2	1191.4	1148.0	1142.1
40°	3617.2	1917.3	1007.9	956.1	977.4	974.8	962.9	987.4	1096.2	1017.2	1007.1
42.5°	3917.8	1920.7	975.6	906.0	945.1	972.2	953.5	954.4	993.5	934.0	924.7
45°	4288.9	1960.6	952.7	866.1	908.6	969.6	950.1	936.6	939.9	908.6	903.5
47.5°	4721.9	2042.9	936.6	833.0	873.7	960.4	949.4	931.4	923.8	906.9	902.6
50°	5203.4	2162.7	924.7	801.5	842.3	945.1	950.1	926.4	917.9	911.1	908.6
52.5°	5676.3	2299.4	906.9	774.4	817.7	926.4	952.7	921.3	912.0	906.9	904.3
55°	6203.6	2470.1	879.6	751.4	797.3	902.6	952.7	913.6	903.5	904.3	903.5
57.5°	6916.0	2746.0	847.5	731.9	772.7	873.7	936.6	905.1	892.4	893.3	894.1
60°	8029.3	3232.6	808.4	712.4	742.1	839.7	914.5	886.5	873.7	877.2	878.0
62.5°	9666.2	3946.7	757.3	683.5	709.8	803.3	883.9	862.7	849.9	858.4	858.4
65°	11368.0	4576.8	694.6	647.1	675.9	763.4	845.6	833.0	820.2	839.7	838.9
67.5°	11825.6	4435.8	631.7	607.2	641.9	719.3	799.9	793.1	786.2	820.2	818.6
70°	10505.3	3561.2	574.0	566.4	604.5	671.6	750.6	750.6	746.4	771.8	765.9
72.5°	8003.8	2525.3	518.8	523.1	562.1	619.8	697.1	703.1	696.3	709.0	703.9
75°	4284.6	1445.2	463.6	475.5	509.4	567.2	637.6	643.6	639.3	638.5	641.2
77.5°	1423.9	706.5	405.9	424.6	454.3	512.9	575.7	585.1	574.8	573.2	572.3
80°	634.2	444.1	342.2	366.8	393.2	450.9	510.4	518.0	507.0	522.3	502.7
82.5°	407.5	292.0	274.2	301.4	326.9	388.9	444.9	446.7	436.5	507.0	432.2
85°	197.9	180.9	206.3	231.0	253.1	305.7	368.5	369.4	343.8	313.3	302.3
87.5°	98.6	105.3	137.5	159.6	170.7	209.8	268.3	263.2	252.2	229.2	211.4
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)