

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: P193201

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19284.3 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 191
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

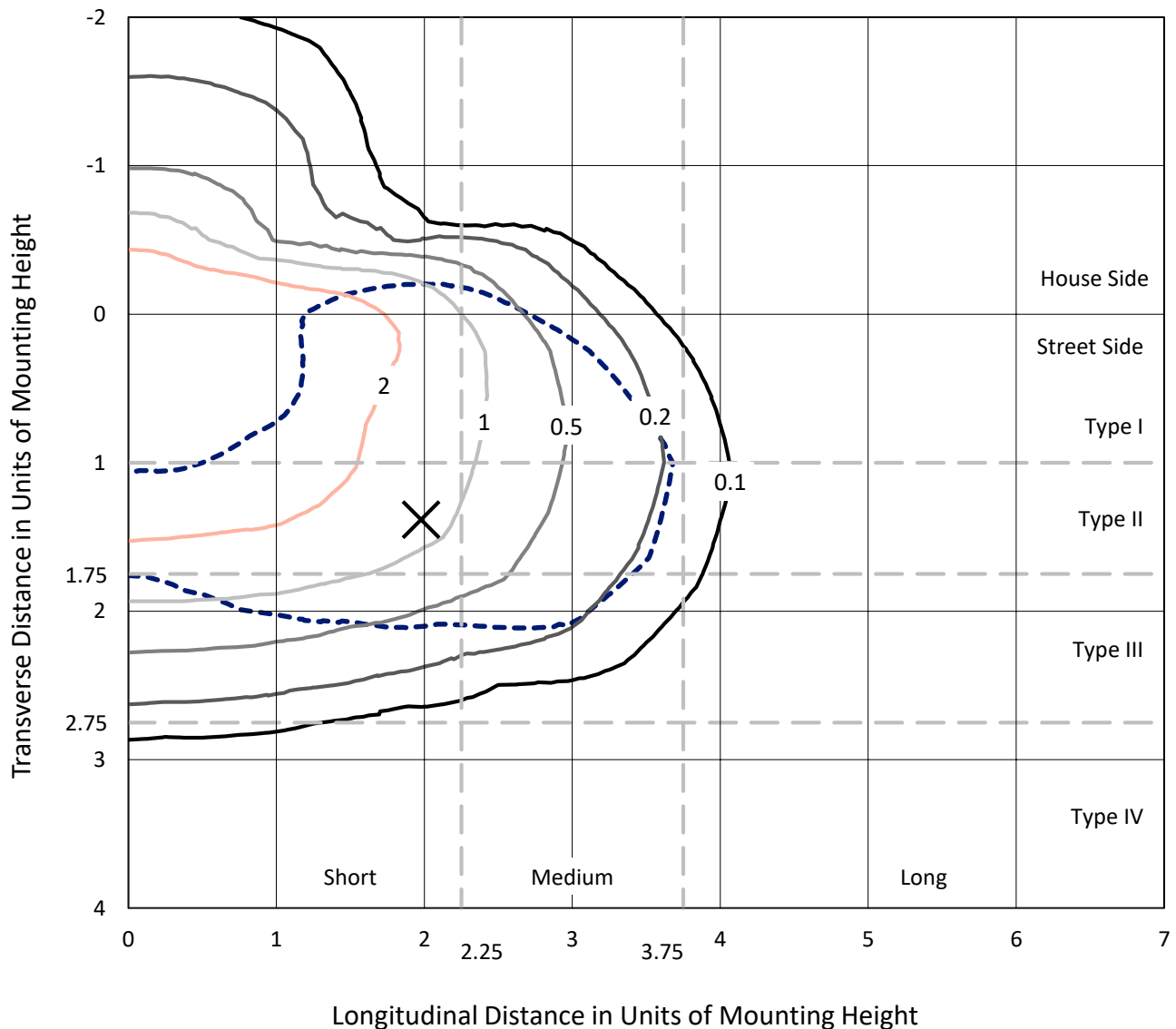


REPORT NUMBER: P193201

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

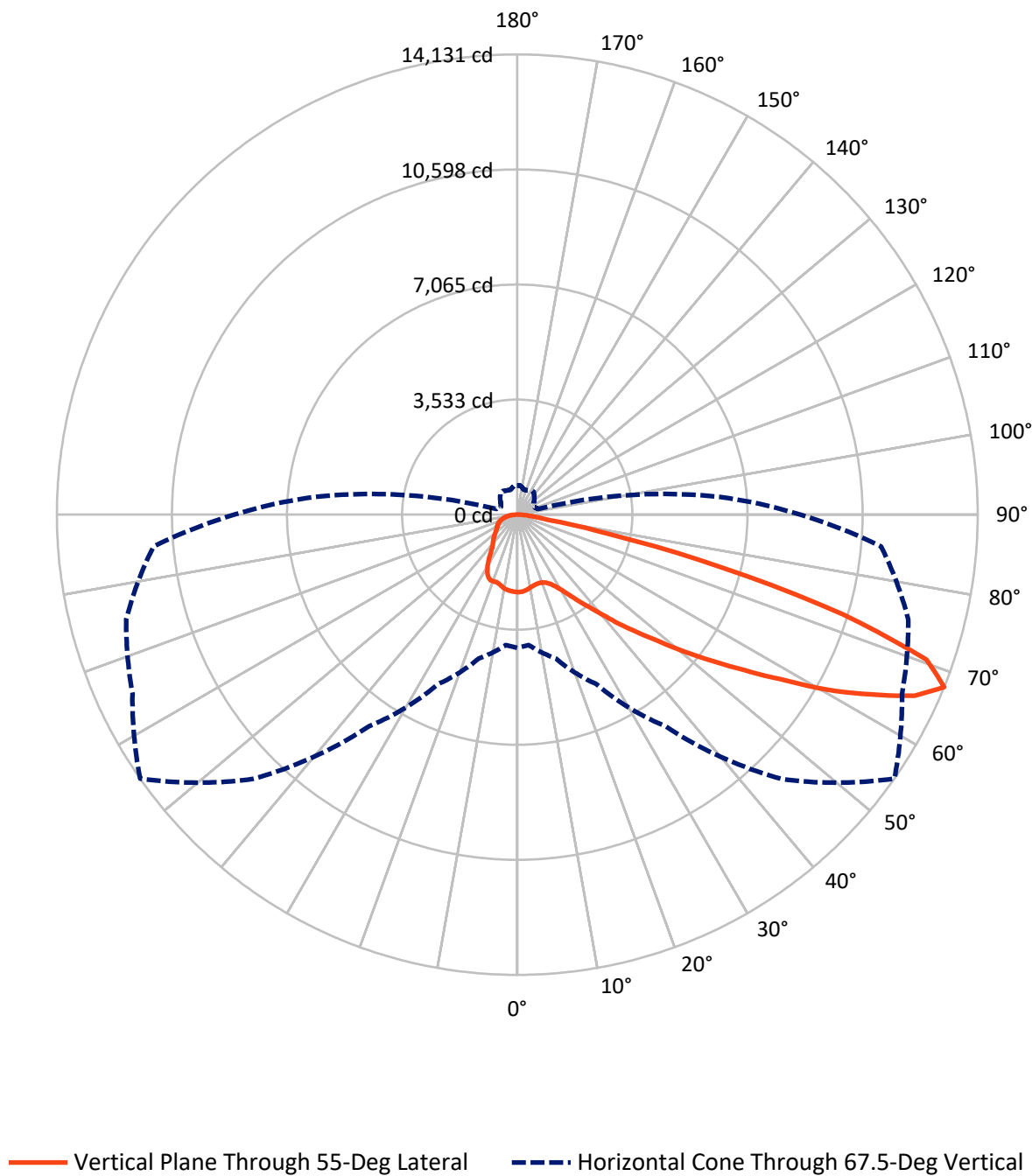


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type III - Short - Full Cutoff

REPORT NUMBER: P193201

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3-7030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P193201

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3-7030-1200

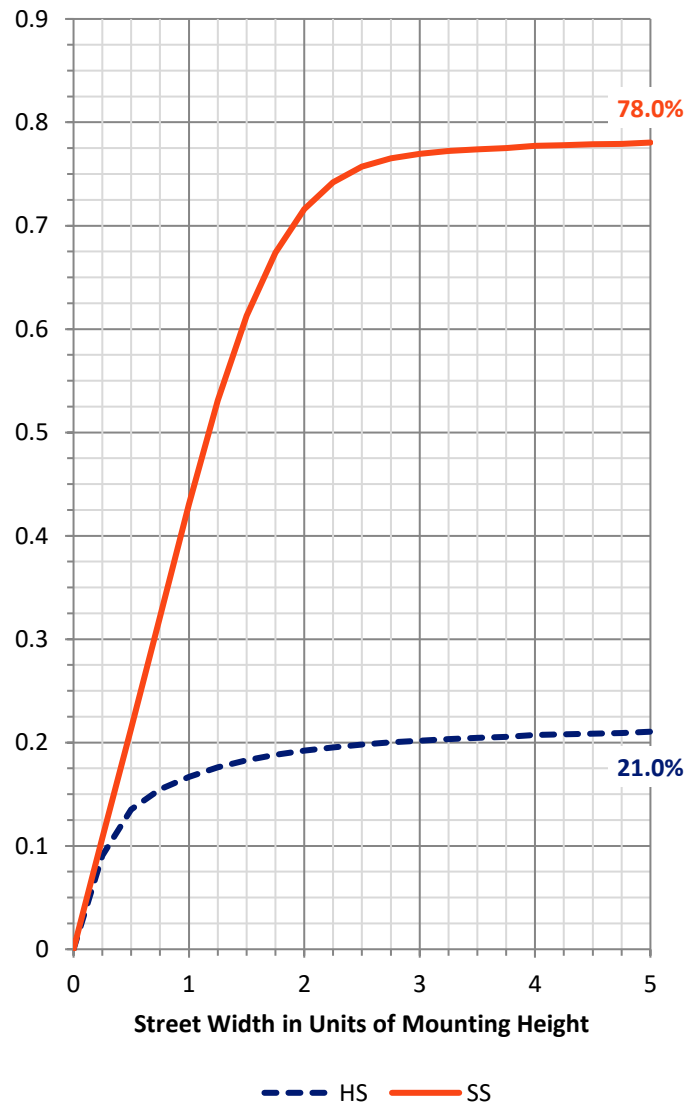
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4165.8	0.0	4165.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15118.4	0.0	15118.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	19284.3	0.0	19284.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	1.2
10°-20°	628.6	3.3
20°-30°	1053.0	5.5
30°-40°	1731.6	9.0
40°-50°	2914.8	15.1
50°-60°	4587.7	23.8
60°-70°	5474.9	28.4
70°-80°	2351.0	12.2
80°-90°	320.5	1.7
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°	19284.3	100.0
0°-180°	19284.3	100.0

Coefficient of Utilization



REPORT NUMBER: P193201

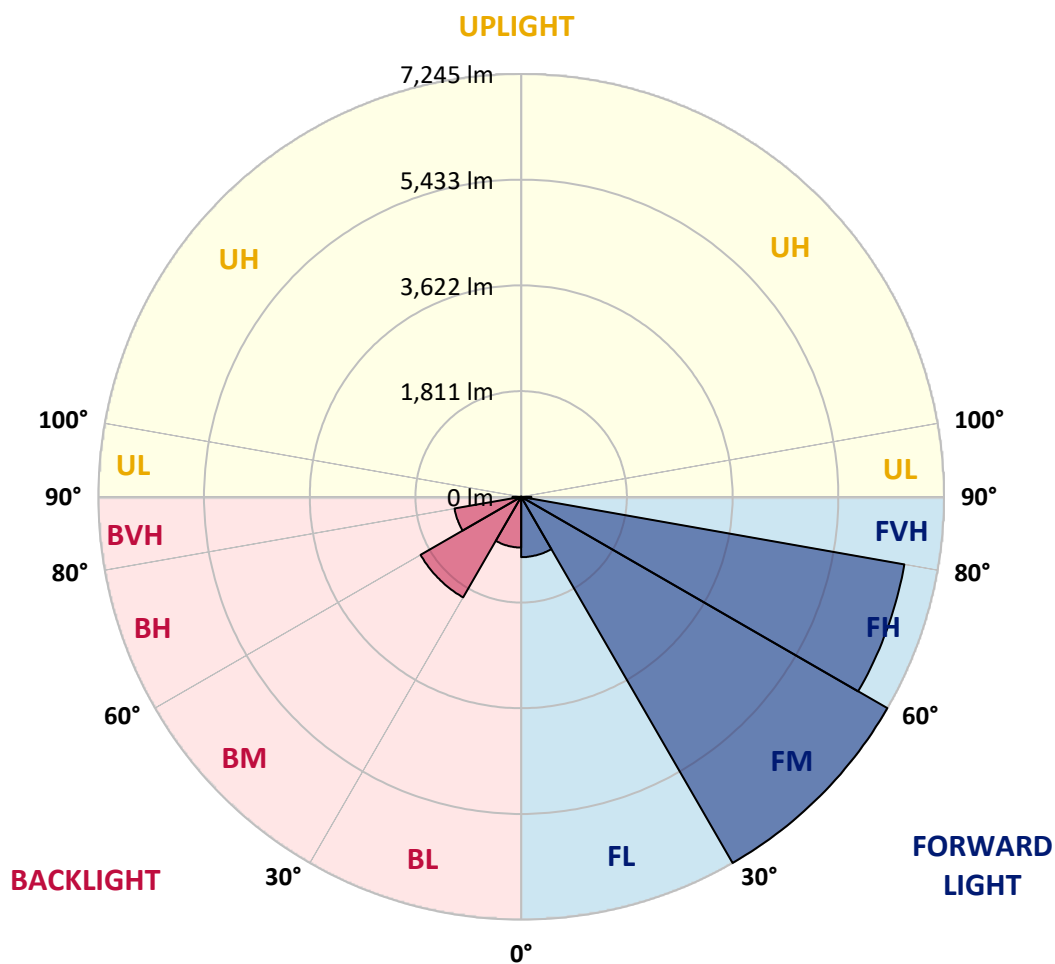
CATALOG NUMBER: GLEON-AF-03-LED-E1-T3-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1033.7	5.4			
FM	(30°-60°)	7244.6	37.6			
FH	(60°-80°)	6666.7	34.6			G3/7500
FVH	(80°-90°)	173.5	0.9			G2/225
BL	(0°-30°)	869.9	4.5	B2/1000		
BM	(30°-60°)	1989.5	10.3	B2/2500		
BH	(60°-80°)	1159.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	147.0	0.8			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 III Short



REPORT NUMBER: P193201

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2377.9	2377.9	2377.9	2377.9	2377.9	2377.9	2377.9	2377.9	2377.9	2377.9	2377.9
2.5°	2357.5	2358.4	2360.2	2367.7	2374.2	2372.3	2373.3	2369.7	2368.6	2363.1	2368.6
5°	2327.7	2330.5	2331.4	2343.5	2350.9	2352.8	2350.0	2345.4	2339.8	2334.3	2336.9
7.5°	2259.7	2267.1	2268.0	2284.8	2296.9	2312.8	2313.7	2314.6	2311.8	2308.1	2313.7
10°	2216.9	2218.7	2217.8	2229.9	2239.2	2256.9	2267.1	2284.8	2292.3	2294.1	2297.8
12.5°	2214.0	2212.2	2209.3	2209.3	2206.6	2214.0	2232.6	2257.9	2275.6	2281.2	2285.7
15°	2243.8	2242.9	2233.6	2219.6	2201.9	2196.3	2212.2	2240.2	2263.5	2275.6	2280.1
17.5°	2311.0	2305.3	2290.4	2258.7	2220.5	2205.6	2207.5	2230.7	2257.9	2273.6	2278.3
20°	2433.9	2433.9	2402.2	2342.5	2274.6	2239.2	2222.5	2236.4	2262.4	2283.8	2290.4
22.5°	2646.3	2648.1	2595.0	2497.2	2382.6	2307.1	2265.3	2262.4	2293.3	2317.4	2324.8
25°	2947.0	2939.6	2865.1	2725.4	2551.2	2426.4	2353.8	2336.9	2363.1	2390.0	2399.4
27.5°	3297.3	3270.2	3181.7	3013.2	2787.8	2605.2	2493.4	2466.4	2491.5	2522.4	2531.6
30°	3643.8	3615.8	3510.6	3326.2	3075.6	2844.6	2684.4	2640.6	2676.0	2719.8	2725.4
32.5°	3990.2	3990.2	3872.9	3657.8	3384.9	3130.6	2938.6	2886.5	2945.2	2998.3	3010.4
35°	4404.8	4406.7	4293.1	4034.1	3740.6	3471.5	3260.1	3221.8	3310.3	3347.6	3376.4
37.5°	4914.3	4924.6	4778.2	4465.3	4143.9	3860.7	3609.3	3557.2	3645.7	3747.1	3840.4
40°	5464.7	5477.8	5316.7	4931.0	4609.6	4313.4	4041.5	3947.4	4094.6	4288.3	4408.5
42.5°	5990.0	6057.2	5901.6	5504.8	5159.2	4852.8	4577.1	4440.2	4624.6	4917.1	5021.3
45°	6749.2	6797.7	6526.6	6167.0	5842.0	5499.2	5134.1	4989.8	5247.7	5616.6	5638.0
47.5°	7255.0	7218.6	7080.8	6857.2	6651.3	6331.0	5781.5	5623.1	5965.9	6399.9	6279.7
50°	7524.1	7535.3	7516.7	7529.7	7537.1	7336.0	6575.0	6358.1	6766.9	7291.3	7014.7
52.5°	7775.7	7701.1	7762.7	8068.1	8437.0	8362.4	7438.5	7212.1	7625.6	8280.4	7791.5
55°	7770.1	7656.5	7856.8	8396.0	9196.2	9281.8	8408.0	8147.3	8533.8	9341.3	8614.9
57.5°	7495.3	7500.8	7809.2	8515.2	9725.1	10146.2	9533.3	9142.0	9497.0	10416.2	9366.6
60°	7117.1	7168.4	7612.6	8495.7	10149.0	10855.0	10913.7	10214.1	10440.5	11393.3	9988.7
62.5°	6507.1	6561.0	7174.0	8292.6	10084.6	11537.7	12161.7	11430.6	11426.9	11985.7	10171.3
65°	5544.8	5529.1	6172.6	7533.4	9545.3	12042.5	13401.5	12482.3	12170.2	11995.0	9804.3
67.5°	4089.0	4018.2	4570.6	5737.6	7934.0	11477.1	14130.8	13029.9	12423.6	11206.1	8682.9
70°	2121.9	2051.1	2498.1	3350.3	5217.9	8957.6	13323.3	12746.7	11863.7	9393.6	6802.3
72.5°	907.2	895.2	1076.8	1469.7	2524.2	5166.7	10447.1	11032.9	10179.6	6998.8	4676.8
75°	610.1	606.4	674.3	801.1	1135.4	2096.6	6537.7	7831.4	7447.7	4339.6	2630.4
77.5°	478.8	474.0	514.2	575.6	735.9	827.1	2901.4	4204.6	3891.6	1889.0	1151.3
80°	374.4	370.7	395.8	429.4	529.1	521.6	954.7	1672.9	1294.7	723.8	559.9
82.5°	295.2	295.2	315.8	316.8	375.5	355.8	498.3	736.7	646.4	422.0	342.7
85°	270.1	270.1	291.5	236.5	245.0	224.5	309.2	436.8	409.8	173.2	149.0
87.5°	136.0	132.3	245.0	209.6	133.2	119.2	150.9	211.4	227.3	95.9	74.6
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: P193201

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3-7030-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2377.9	2377.9	2377.9	2377.9	2377.9	2377.9	2377.9	2377.9	2377.9	2377.9
2.5°	2366.8	2365.9	2367.7	2368.6	2376.1	2386.3	2391.0	2397.4	2401.3	2399.4
5°	2338.8	2340.7	2348.2	2353.8	2366.8	2383.6	2392.9	2400.3	2406.9	2404.0
7.5°	2315.5	2320.2	2331.4	2336.1	2343.5	2348.2	2347.2	2350.0	2355.6	2349.1
10°	2302.5	2308.1	2316.6	2310.0	2292.3	2267.1	2243.8	2231.7	2235.5	2230.7
12.5°	2289.5	2296.9	2290.4	2259.7	2210.4	2177.6	2160.0	2161.9	2170.2	2172.1
15°	2282.0	2284.8	2256.9	2199.2	2148.8	2144.2	2153.5	2151.7	2152.5	2152.5
17.5°	2282.0	2274.6	2222.5	2164.7	2143.2	2134.8	2106.0	2069.7	2053.8	2048.3
20°	2294.1	2274.6	2211.2	2173.0	2126.5	2054.7	1978.3	1911.3	1881.6	1873.1
22.5°	2330.5	2296.9	2242.9	2176.8	2044.5	1924.4	1803.3	1723.1	1669.2	1659.8
25°	2404.0	2366.8	2305.3	2127.4	1914.1	1742.6	1604.9	1515.4	1461.5	1454.0
27.5°	2532.6	2508.4	2338.8	2018.4	1740.8	1557.4	1429.7	1360.9	1320.7	1318.0
30°	2726.3	2714.2	2322.1	1857.3	1527.6	1377.6	1316.1	1276.0	1246.2	1245.3
32.5°	3035.5	2937.8	2267.1	1660.7	1332.9	1250.0	1224.8	1200.6	1177.4	1177.4
35°	3433.3	3118.5	2162.8	1450.2	1214.6	1179.2	1147.5	1109.3	1078.6	1076.8
37.5°	3900.9	3230.2	1975.6	1280.7	1158.7	1131.7	1085.2	1028.3	974.3	965.0
40°	4373.1	3263.8	1712.0	1176.4	1123.3	1084.2	1027.4	960.3	908.2	905.3
42.5°	4806.2	3199.4	1432.5	1104.7	1087.9	1035.8	976.1	916.5	875.6	874.6
45°	5169.5	3032.7	1197.8	1036.7	1050.6	992.0	938.9	890.5	858.8	852.2
47.5°	5511.4	2797.1	1032.9	965.0	1013.4	967.7	923.0	877.5	846.6	842.1
50°	5908.0	2542.8	917.4	895.2	980.8	959.4	936.2	888.6	837.4	831.8
52.5°	6388.7	2323.0	827.1	833.6	955.7	970.6	969.6	920.3	830.8	823.4
55°	6925.3	2078.9	759.2	783.4	945.4	991.1	978.0	950.1	836.4	825.2
57.5°	7453.3	1793.9	711.6	745.1	930.5	989.3	938.0	897.9	849.5	833.6
60°	7849.1	1411.1	675.3	711.6	897.9	958.4	894.2	841.1	846.6	834.5
62.5°	7875.3	1090.7	631.5	682.8	848.5	927.7	865.4	815.9	858.8	847.7
65°	7412.3	824.4	589.6	648.2	795.4	908.2	837.4	802.0	883.9	871.8
67.5°	6240.7	663.2	554.2	612.8	742.3	867.2	812.3	789.0	906.3	884.9
70°	4505.5	565.4	519.7	570.0	694.9	820.6	789.8	765.7	845.7	812.3
72.5°	2773.9	489.9	480.6	513.2	658.5	772.1	756.3	721.8	761.9	734.9
75°	1385.1	424.7	436.8	457.4	607.3	717.2	700.5	665.9	671.6	665.9
77.5°	663.2	363.3	385.5	401.4	541.2	654.8	637.1	601.7	595.1	596.1
80°	420.1	303.6	325.0	336.3	483.4	582.2	564.5	529.1	603.5	559.9
82.5°	262.7	246.8	252.4	272.9	420.9	506.8	483.4	451.8	544.0	430.4
85°	145.4	172.3	179.7	197.4	324.2	423.8	400.6	360.4	323.2	317.6
87.5°	86.7	102.4	105.2	118.3	218.0	306.5	271.1	257.1	213.3	212.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)