

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: P193061

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
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-SLR-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12479.6 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 124
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

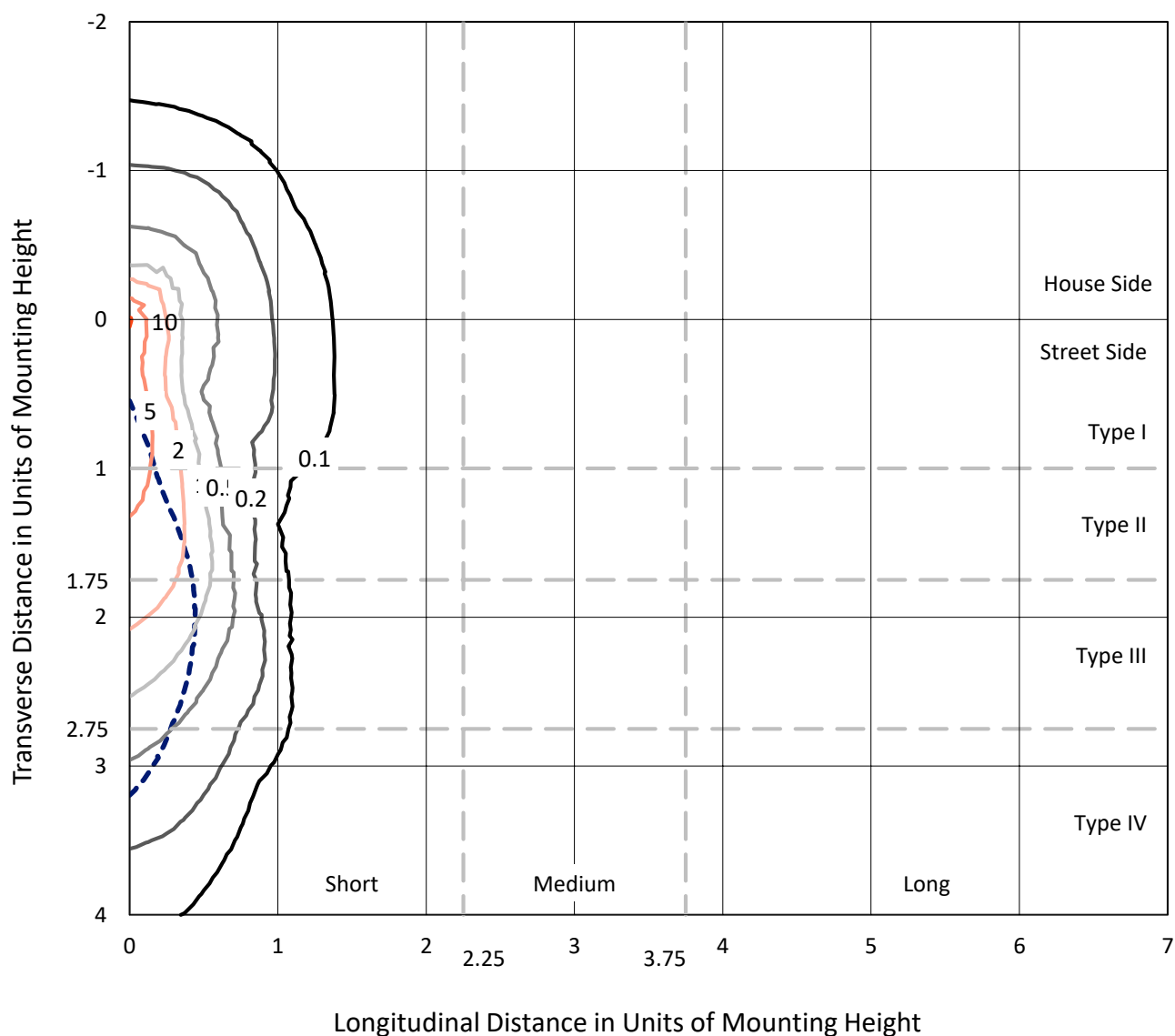


REPORT NUMBER: P193061

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

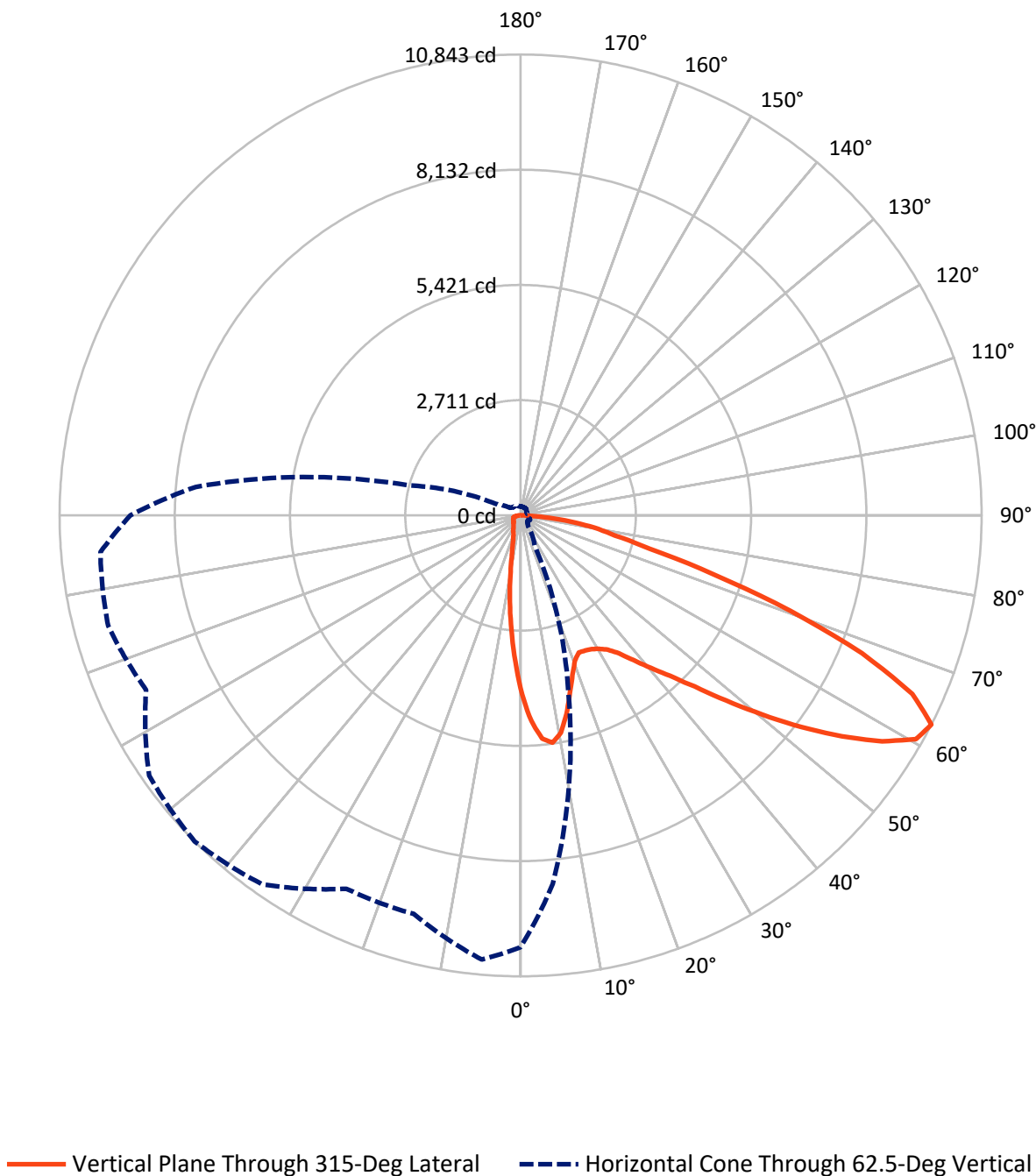


Based on 20 foot mounting height. Maximum calculated value = 10.5 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P193061

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7030-800

Luminous Intensity Polar Plot



REPORT NUMBER: P193061

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7030-800

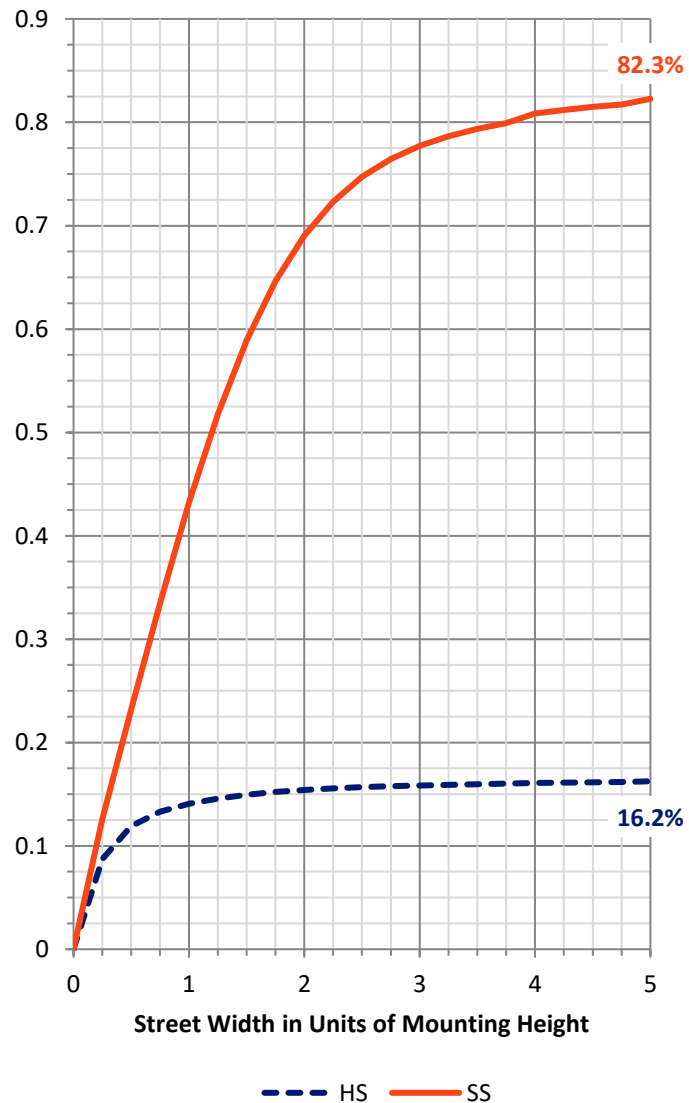
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2065.2	0.0	2065.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10414.4	0.0	10414.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	12479.6	0.0	12479.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	2.5
10°-20°	562.8	4.5
20°-30°	820.6	6.6
30°-40°	1263.8	10.1
40°-50°	1860.0	14.9
50°-60°	2728.3	21.9
60°-70°	3049.8	24.4
70°-80°	1493.1	12.0
80°-90°	394.2	3.2
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°	12479.6	100.0
0°-180°	12479.6	100.0

Coefficient of Utilization



REPORT NUMBER: P193061

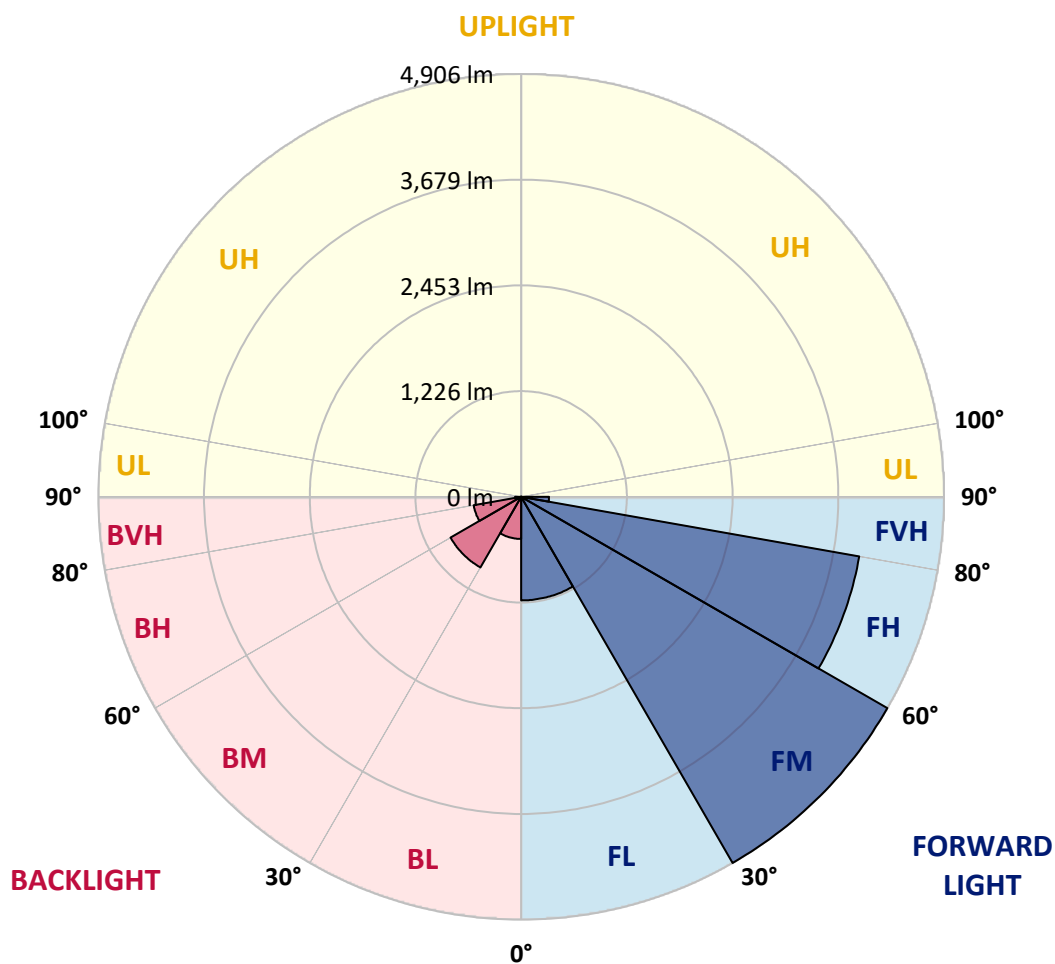
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1201.7	9.6			
FM	(30°-60°)	4905.8	39.3			
FH	(60°-80°)	3983.1	31.9			G2/5000
FVH	(80°-90°)	323.8	2.6			G3/500
BL	(0°-30°)	488.6	3.9	B1/500		
BM	(30°-60°)	946.3	7.6	B1/1000		
BH	(60°-80°)	559.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	70.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



REPORT NUMBER: P193061

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4
2.5°	4381.0	4291.7	4143.5	3989.2	3895.2	3785.5	3699.7	3624.2	3473.4	3443.9	3470.6
5°	4119.5	3940.6	3661.3	3380.1	3192.8	2991.7	2835.3	2709.7	2518.4	2484.8	2525.2
7.5°	3700.4	3486.4	3117.2	2758.5	2493.8	2242.5	2073.8	1939.4	1789.7	1725.3	1729.5
10°	3338.9	3097.4	2661.1	2270.7	2054.0	1884.5	1742.4	1604.6	1453.0	1353.5	1326.1
12.5°	3136.5	2858.7	2355.7	2007.3	1806.3	1628.0	1474.9	1327.5	1165.6	1063.9	1035.2
15°	3101.6	2799.7	2241.2	1838.5	1586.8	1361.1	1180.6	1016.0	849.3	767.0	749.8
17.5°	3253.0	2905.3	2204.2	1688.3	1380.3	1101.8	880.2	696.3	560.5	519.3	515.9
20°	3544.0	3108.3	2199.4	1547.0	1176.5	849.9	613.3	479.5	419.9	408.2	408.8
22.5°	3952.1	3423.2	2258.4	1440.7	989.3	633.9	461.0	401.3	378.0	367.0	367.0
25°	4480.4	3856.9	2394.2	1363.1	826.6	506.3	406.8	371.2	349.2	341.7	343.0
27.5°	4992.2	4278.7	2552.0	1302.1	720.3	459.7	385.5	353.4	334.2	326.5	330.0
30°	5391.4	4653.3	2683.7	1219.0	666.2	446.7	393.2	360.1	332.7	321.0	321.8
32.5°	5722.1	4981.2	2794.2	1159.4	618.1	382.9	338.9	324.5	321.0	307.3	300.5
35°	6144.6	5338.6	2868.3	1160.8	595.5	341.7	301.9	276.4	258.0	242.1	242.1
37.5°	6640.0	5748.9	2947.2	1176.5	587.3	317.6	288.8	263.5	246.3	231.2	228.5
40°	7129.8	6150.9	3019.2	1191.6	582.5	303.2	278.5	255.2	239.4	224.3	220.2
42.5°	7546.2	6481.5	3083.7	1199.1	566.0	301.9	271.0	249.6	234.6	218.2	214.0
45°	7854.2	6758.7	3152.9	1210.8	549.5	307.3	271.0	249.0	230.5	214.7	210.7
47.5°	8129.3	7083.9	3268.9	1210.8	529.6	297.0	279.9	249.6	229.8	213.4	209.9
50°	8497.7	7529.7	3488.4	1182.7	501.5	286.0	295.0	246.9	223.7	210.7	206.5
52.5°	9005.3	8101.2	3836.8	1134.0	458.3	264.9	293.0	245.7	217.4	203.8	199.0
55°	9605.6	8713.1	4217.0	1077.1	393.8	249.6	282.7	242.1	210.7	195.5	190.7
57.5°	10074.2	9134.4	4484.5	989.3	337.5	241.5	250.4	238.7	202.3	186.7	182.5
60°	10260.7	9117.9	4558.0	871.9	310.1	234.6	218.8	267.5	195.5	179.7	175.0
62.5°	10159.9	8696.7	4352.2	789.6	304.0	225.7	205.1	247.7	190.0	175.0	168.0
65°	9694.1	7950.2	3806.7	767.6	321.8	216.8	196.2	194.2	182.5	168.0	161.2
67.5°	8679.5	6834.8	3048.0	769.7	344.3	207.8	187.3	177.6	172.2	160.5	154.4
70°	7069.4	5403.8	2272.0	775.2	356.0	197.5	177.6	167.3	161.2	149.5	145.5
72.5°	5198.0	4164.9	1650.6	739.5	358.2	186.0	164.7	155.7	149.5	137.2	133.8
75°	3556.3	3185.9	1144.9	612.6	312.2	169.5	150.2	142.0	137.8	122.8	120.7
77.5°	2597.9	2391.4	732.7	454.8	240.8	148.9	132.4	126.2	123.5	107.0	104.3
80°	2084.7	1892.1	458.3	311.5	176.4	124.9	111.1	107.7	105.0	88.5	86.5
82.5°	1446.1	1267.1	294.4	202.3	132.4	96.7	87.9	86.5	82.3	67.2	65.1
85°	762.8	688.2	186.7	137.8	96.0	66.5	61.0	61.0	59.0	44.6	43.2
87.5°	97.5	158.4	94.6	72.0	52.8	29.5	29.5	28.9	30.9	25.3	22.0
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: P193061

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4
2.5°	3407.5	3440.3	3408.8	3410.8	3445.9	3550.2	3597.5	3636.5	3678.4	3705.8	3718.2
5°	2469.7	2546.5	2572.6	2627.4	2708.4	2841.5	2894.3	2932.7	2958.0	2973.2	2979.4
7.5°	1688.9	1735.6	1787.8	1876.3	2052.6	2130.8	2165.7	2156.9	2128.1	2117.8	2107.5
10°	1273.3	1254.8	1245.1	1293.8	1436.5	1515.4	1540.1	1516.1	1500.3	1503.7	1520.9
12.5°	986.5	954.3	915.1	909.7	1003.6	1074.3	1090.1	1091.5	1120.2	1145.7	1183.4
15°	718.9	715.5	696.3	684.6	738.1	795.7	802.6	815.0	841.1	859.6	892.5
17.5°	507.0	525.5	540.7	548.2	588.6	629.8	622.2	616.0	611.2	611.2	627.0
20°	408.8	421.2	440.5	462.3	503.5	532.3	513.8	489.2	471.4	465.8	467.8
22.5°	368.4	378.0	389.0	408.2	445.2	465.1	445.2	427.4	409.5	403.3	401.3
25°	347.8	360.1	370.5	384.8	412.4	426.0	406.8	393.8	382.9	375.3	369.8
27.5°	336.2	347.1	349.8	356.7	380.0	392.3	382.9	377.3	370.5	363.7	356.7
30°	323.9	321.8	317.0	317.6	336.2	348.5	347.8	349.2	348.5	346.5	345.0
32.5°	295.6	291.6	287.5	291.6	308.6	319.7	320.3	323.1	323.1	322.5	327.9
35°	246.3	253.8	258.6	271.0	291.6	301.1	297.0	290.2	277.8	270.3	269.7
37.5°	227.8	229.1	237.3	254.5	277.2	286.0	279.9	264.1	255.8	254.5	256.5
40°	218.8	220.2	225.0	240.8	263.5	272.4	266.8	255.2	247.7	246.9	250.4
42.5°	212.6	214.0	216.8	227.8	246.3	257.3	258.0	249.6	240.8	241.5	245.0
45°	209.2	209.9	209.2	214.7	231.8	245.0	250.4	245.0	237.3	238.7	242.9
47.5°	208.5	206.5	203.8	205.1	223.0	236.0	242.9	240.8	237.3	238.7	242.1
50°	205.9	201.0	197.5	196.8	214.7	228.5	234.6	234.6	236.0	238.7	242.1
52.5°	197.5	192.1	192.1	190.0	209.2	222.3	226.3	227.0	229.1	234.0	238.7
55°	187.3	185.2	187.3	183.9	205.1	217.4	219.5	220.9	222.3	226.3	233.3
57.5°	178.3	175.6	180.4	179.0	201.7	212.6	212.6	215.5	215.5	220.9	226.3
60°	173.6	168.0	170.1	171.5	196.8	208.5	207.1	209.9	211.3	216.2	220.2
62.5°	167.3	162.6	162.6	166.0	191.4	202.3	201.7	203.8	209.2	210.7	214.7
65°	159.8	157.8	155.7	159.8	186.0	195.5	196.2	199.0	203.8	205.1	208.5
67.5°	152.3	153.0	148.9	153.0	181.2	188.7	188.7	194.2	196.2	199.0	202.3
70°	144.1	144.8	141.3	146.1	177.6	181.2	180.4	187.9	189.3	191.4	194.8
72.5°	133.8	133.8	132.4	139.3	172.2	173.6	172.2	178.3	179.0	181.2	182.5
75°	122.8	122.8	121.4	131.0	168.8	165.3	161.2	166.0	167.3	168.8	168.8
77.5°	108.3	109.8	109.8	121.4	157.2	161.9	148.1	150.9	153.0	153.6	151.7
80°	90.5	94.0	95.4	110.5	131.7	149.5	132.4	134.5	135.2	135.2	132.4
82.5°	69.3	75.5	78.8	95.4	100.8	125.5	115.3	117.4	115.3	111.1	109.8
85°	48.1	56.3	60.4	72.7	76.2	96.7	96.0	96.0	91.9	86.5	85.8
87.5°	26.1	30.9	33.7	43.2	52.1	65.1	70.7	68.7	65.1	61.7	62.4
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: P193061

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4
2.5°	3782.7	3876.0	4024.9	4138.7	4253.4	4363.9	4483.1	4574.3	4651.9	4682.1	4774.0
5°	3041.8	3158.4	3299.1	3552.9	3732.7	3930.9	4160.0	4463.2	4579.8	4741.1	5005.1
7.5°	2150.7	2256.3	2482.7	2687.8	2942.4	3222.9	3532.4	3950.9	4103.8	4362.4	4792.5
10°	1606.0	1728.8	1910.6	2083.5	2307.8	2594.6	2949.9	3417.7	3603.7	3884.2	4379.5
12.5°	1293.8	1438.6	1631.4	1793.9	1967.5	2169.9	2514.9	3028.1	3277.1	3522.7	4023.5
15°	994.0	1145.7	1324.7	1531.2	1722.6	1940.8	2302.3	2863.4	3150.2	3406.0	3833.5
17.5°	688.2	817.7	1043.4	1258.8	1503.7	1783.0	2243.3	2898.4	3240.7	3535.7	3866.3
20°	487.8	561.8	747.2	996.8	1302.1	1652.6	2232.2	3082.3	3527.6	3864.4	4077.7
22.5°	410.3	437.7	545.4	774.5	1127.1	1555.2	2270.7	3340.3	3914.4	4344.5	4414.5
25°	373.8	390.4	446.7	607.8	971.5	1484.5	2400.4	3724.4	4393.4	4824.8	4812.5
27.5°	354.0	371.2	408.2	513.2	854.1	1440.7	2530.0	4179.9	4940.7	5346.2	5192.4
30°	347.8	371.2	410.3	483.7	770.4	1371.3	2636.4	4579.8	5361.9	5698.1	5365.4
32.5°	343.0	346.5	364.3	417.2	690.8	1290.4	2708.4	4938.6	5774.3	6032.9	5614.4
35°	277.2	294.4	323.1	373.8	644.2	1241.7	2708.4	5248.0	6180.4	6371.0	5851.7
37.5°	266.8	282.0	307.3	350.5	618.1	1217.7	2654.2	5546.4	6595.4	6754.5	6047.3
40°	261.3	273.7	297.7	332.7	607.2	1190.3	2575.3	5809.9	7000.8	7138.7	6229.8
42.5°	257.3	268.2	290.8	321.8	592.7	1160.0	2511.6	6021.2	7352.7	7466.7	6404.0
45°	255.2	266.8	291.6	327.2	563.9	1120.2	2490.2	6249.6	7642.2	7740.4	6592.7
47.5°	255.2	268.9	295.0	338.9	529.6	1079.2	2556.7	6550.8	7916.0	7964.0	6814.9
50°	253.2	268.2	304.7	327.2	479.5	1026.9	2713.2	6930.2	8212.4	8217.8	7096.2
52.5°	249.0	266.8	327.9	320.3	421.8	958.4	2924.6	7417.3	8650.7	8683.6	7536.6
55°	244.2	264.9	321.8	304.7	374.5	876.7	3097.4	8009.2	9266.8	9357.9	8184.2
57.5°	238.0	262.1	311.5	282.7	343.7	771.8	3159.8	8442.9	9696.9	9925.9	8914.1
60°	232.6	260.0	281.3	269.7	324.5	683.3	3039.0	8357.1	9667.4	10161.3	9561.1
62.5°	227.0	262.1	256.5	261.3	315.5	626.4	2723.5	7670.4	9178.3	9918.4	10040.6
65°	220.9	243.5	242.1	254.5	313.5	603.6	2257.8	6640.7	8232.9	9150.8	10153.8
67.5°	212.6	225.0	231.8	245.7	320.3	583.8	1822.1	5477.8	6919.2	8000.4	9563.8
70°	203.8	214.0	221.6	234.6	316.3	574.9	1515.4	4319.9	5490.2	6556.9	8399.7
72.5°	192.1	201.0	207.8	220.2	312.2	570.2	1280.1	3478.9	4099.0	4870.8	6829.4
75°	178.3	186.7	191.4	203.8	299.2	522.0	1006.4	2943.7	3067.2	3388.2	5439.5
77.5°	162.6	168.8	172.8	186.7	264.9	434.2	727.8	2270.7	2381.9	2460.1	4170.3
80°	144.1	150.2	152.3	165.3	219.5	339.6	474.7	1677.3	1781.6	1799.4	2723.5
82.5°	122.8	128.9	128.9	141.3	179.7	244.2	311.5	1149.1	1169.6	1230.0	1924.9
85°	98.8	103.6	103.6	109.8	139.3	182.5	214.0	576.9	570.8	651.7	1667.8
87.5°	70.7	74.1	77.6	78.8	99.4	120.7	128.9	175.6	116.0	133.1	1070.8
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: P193061

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4	4216.4
2.5°	4843.4	4882.4	4842.6	4813.9	4689.6	4587.5	4450.9	4381.0
5°	5206.2	5305.6	5272.1	5151.3	4892.0	4600.5	4269.1	4119.5
7.5°	5162.3	5393.5	5398.9	5173.3	4791.1	4361.7	3913.0	3700.4
10°	4820.6	5116.3	5200.7	4981.9	4576.5	4096.2	3581.7	3338.9
12.5°	4439.2	4728.7	4793.2	4717.7	4378.9	3896.6	3374.6	3136.5
15°	4127.0	4256.7	4333.6	4399.5	4209.4	3817.0	3362.9	3101.6
17.5°	3937.0	3922.6	3944.6	4059.2	4091.4	3908.2	3541.2	3253.0
20°	3868.5	3648.2	3642.8	3800.6	4035.8	4125.7	3889.7	3544.0
22.5°	3906.2	3549.5	3504.2	3691.5	4065.3	4439.2	4346.7	3952.1
25°	4036.6	3557.7	3521.3	3702.5	4172.4	4773.3	4839.8	4480.4
27.5°	4241.7	3609.8	3561.9	3747.7	4314.4	5053.9	5325.7	4992.2
30°	4436.5	3700.4	3640.7	3836.8	4444.0	5165.0	5623.3	5391.4
32.5°	4673.1	3869.9	3764.8	4000.8	4604.5	5342.0	5888.7	5722.1
35°	4905.0	4111.3	3981.0	4254.0	4783.6	5562.3	6192.0	6144.6
37.5°	5159.6	4426.8	4319.1	4581.2	5028.5	5770.1	6578.9	6640.0
40°	5431.2	4845.3	4717.7	5058.7	5408.6	6030.8	6983.0	7129.8
42.5°	5705.0	5309.8	5157.5	5503.3	5826.4	6288.1	7328.8	7546.2
45°	6018.4	5814.0	5742.0	6115.9	6227.7	6532.9	7583.9	7854.2
47.5°	6383.4	6386.2	6502.1	6651.7	6632.5	6810.1	7840.6	8129.3
50°	6809.5	7100.3	7356.2	7455.7	7049.5	7107.9	8196.5	8497.7
52.5°	7321.3	7954.4	8271.4	8206.1	7498.9	7471.4	8760.5	9005.3
55°	7961.2	8858.5	9173.4	9126.9	8015.5	7966.7	9463.0	9605.6
57.5°	8702.2	9734.7	10024.1	9814.2	8635.7	8510.1	10043.9	10074.2
60°	9353.2	10428.9	10682.8	10450.1	9261.3	9088.4	10407.0	10260.7
62.5°	9715.5	10664.1	10842.6	10592.1	9689.9	9704.4	10486.4	10159.9
65°	9553.5	10069.5	10127.0	10106.5	9579.7	10061.9	10200.5	9694.1
67.5°	8667.2	8565.6	8662.4	8796.1	8632.9	9591.3	9408.1	8679.5
70°	7105.7	6548.0	6740.9	6830.7	6904.7	8253.6	8165.7	7069.4
72.5°	5355.2	4587.5	4739.6	4721.2	5064.1	6620.1	6350.4	5198.0
75°	3794.3	3110.4	3129.6	3122.1	3533.7	5179.4	4598.4	3556.3
77.5°	2654.9	2253.6	2263.9	2306.4	2375.8	3906.2	3285.3	2597.9
80°	1825.5	1710.2	1767.2	1770.6	1646.4	2624.1	2427.0	2084.7
82.5°	1359.7	1188.8	1175.2	1195.1	1290.4	2125.9	1865.3	1446.1
85°	1113.5	703.8	566.0	709.3	1143.6	2105.4	1239.0	762.8
87.5°	627.0	334.2	150.9	279.9	456.1	1394.0	358.2	97.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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