

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: P192091

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192091
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-SLL-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15970 lumens
Efficiency: N/A
Efficacy: 96.2 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

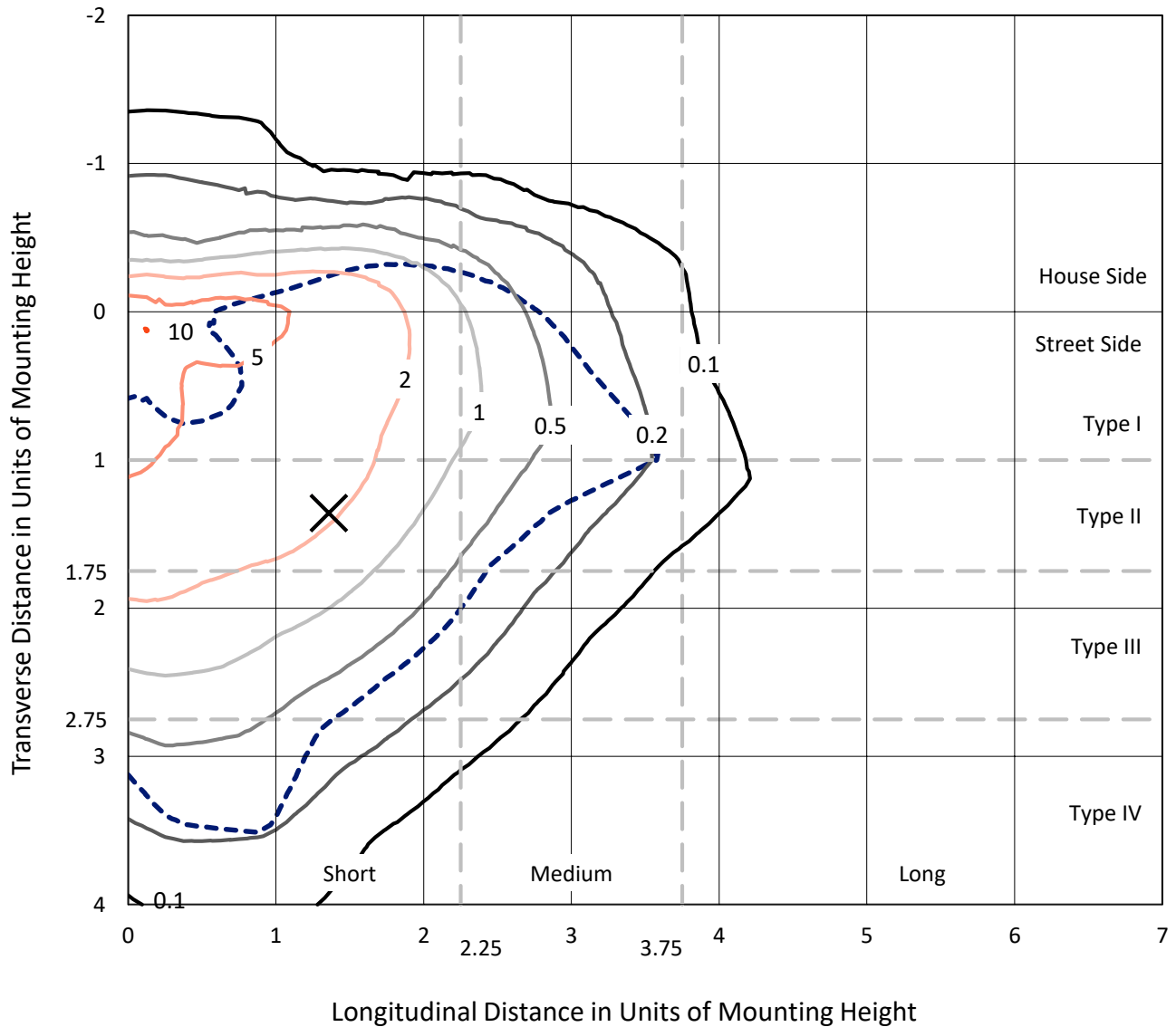
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P192091
 CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-7050

Iso-Footcandle Lines of Horizontal Illumination

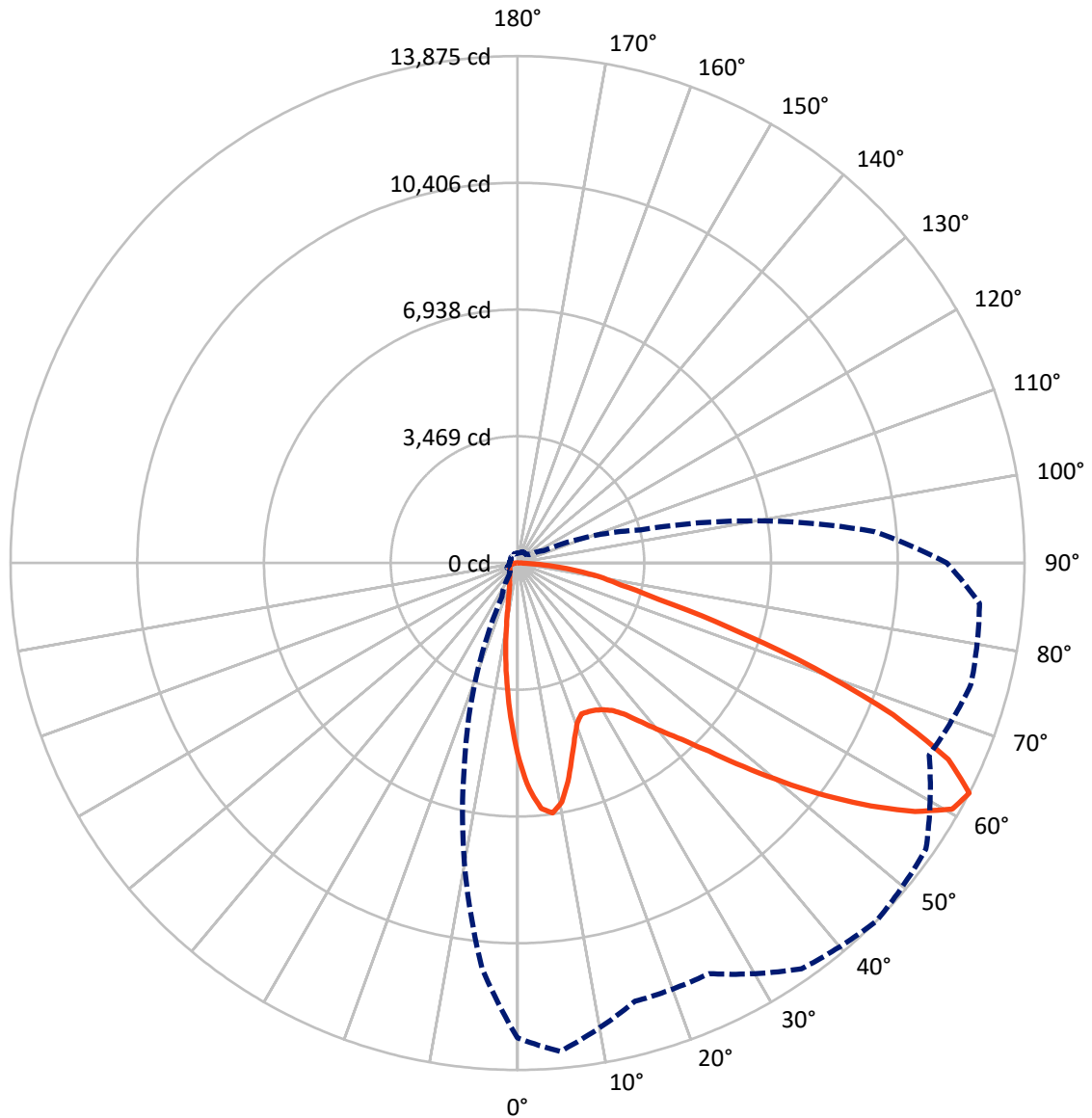
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P192091
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P192091

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2642.8	0.0	2642.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13327.2	0.0	13327.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	15970.0	0.0	15970.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.8	2.5
10°-20°	720.2	4.5
20°-30°	1050.1	6.6
30°-40°	1617.3	10.1
40°-50°	2380.2	14.9
50°-60°	3491.3	21.9
60°-70°	3902.8	24.4
70°-80°	1910.8	12.0
80°-90°	504.5	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°	15970.0	100.0
0°-180°	15970.0	100.0



REPORT NUMBER: P192091

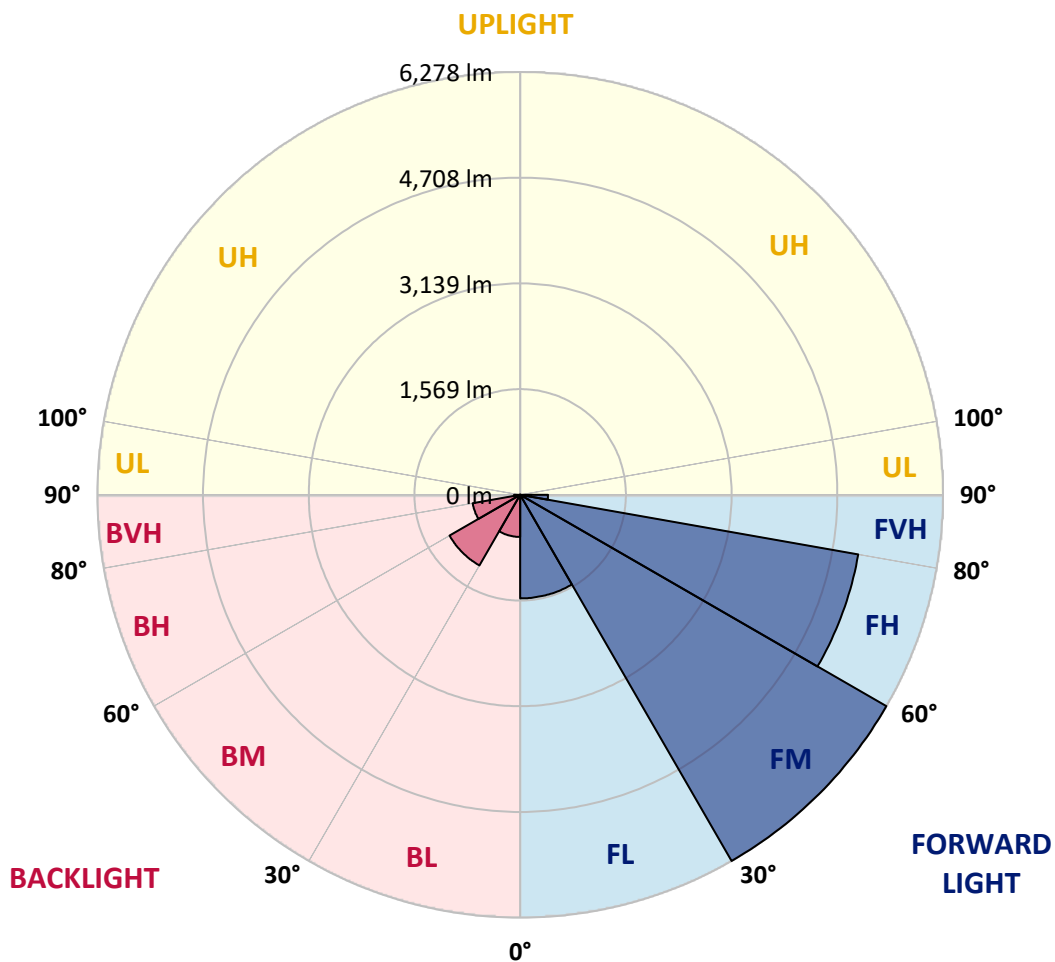
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1537.9	9.6			
FM	(30°-60°)	6278.0	39.3			
FH	(60°-80°)	5097.1	31.9			G3/7500
FVH	(80°-90°)	414.3	2.6			G3/500
BL	(0°-30°)	625.2	3.9	B2/1000		
BM	(30°-60°)	1210.9	7.6	B2/2500		
BH	(60°-80°)	716.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	90.2	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: P192091

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5
2.5°	5606.2	5695.8	5870.5	6001.3	6160.2	6197.0	6248.0	6197.9	6109.3	5991.6	5953.0
5°	5271.7	5463.1	5887.1	6260.3	6592.1	6746.6	6789.6	6662.3	6405.1	6067.1	5860.8
7.5°	4735.4	5007.5	5581.6	6131.2	6620.2	6909.0	6902.0	6606.1	6133.0	5582.5	5251.6
10°	4272.7	4583.5	5241.9	5856.4	6375.3	6655.3	6547.3	6168.9	5604.5	4970.6	4611.6
12.5°	4013.7	4318.4	4986.4	5603.6	6037.3	6133.8	6051.3	5680.8	5148.8	4508.0	4193.7
15°	3969.0	4303.4	4884.6	5386.7	5629.9	5545.6	5447.3	5281.4	4905.7	4358.7	4031.3
17.5°	4163.0	4531.7	5001.4	5235.7	5194.5	5047.9	5019.8	5038.2	4947.8	4524.7	4147.2
20°	4535.2	4977.6	5279.6	5164.6	4863.5	4661.6	4668.6	4950.4	5218.2	4945.2	4514.1
22.5°	5057.5	5562.3	5680.8	5202.4	4723.9	4484.3	4542.2	4998.7	5649.2	5559.7	5009.3
25°	5733.5	6193.5	6108.4	5339.3	4738.0	4506.2	4552.7	5165.5	6158.4	6174.2	5622.0
27.5°	6388.4	6815.1	6467.4	5521.1	4795.9	4558.0	4619.5	5428.0	6644.8	6841.4	6322.6
30°	6899.4	7196.1	6609.7	5687.0	4910.1	4659.0	4735.4	5677.3	6866.0	7291.8	6861.6
32.5°	7322.5	7535.8	6836.1	5892.4	5119.9	4817.9	4952.2	5980.2	7184.7	7720.2	7389.2
35°	7863.3	7923.9	7118.0	6121.5	5443.8	5094.4	5261.2	6276.9	7488.4	8153.0	7908.9
37.5°	8497.1	8419.0	7384.0	6435.0	5862.6	5527.2	5665.0	6602.6	7738.6	8643.7	8440.1
40°	9123.9	8936.1	7717.6	6921.3	6473.6	6037.3	6200.6	6950.3	7972.1	9135.3	8958.9
42.5°	9656.8	9378.5	8046.8	7455.9	7042.5	6600.0	6794.9	7300.6	8195.1	9555.0	9409.2
45°	10051.0	9705.1	8360.2	7969.5	7826.4	7348.0	7440.1	7701.7	8436.5	9905.3	9779.7
47.5°	10403.0	10033.4	8714.8	8487.5	8512.0	8320.7	8172.3	8168.8	8721.0	10191.5	10130.0
50°	10874.5	10489.1	9095.8	9021.2	9540.9	9413.6	9086.2	8714.0	9080.9	10516.3	10509.2
52.5°	11524.1	11210.7	9561.1	9596.2	10501.3	10584.7	10179.2	9368.9	9644.5	11112.4	11070.2
55°	12292.2	12109.6	10195.0	10257.3	11679.5	11739.2	11336.2	10187.9	10473.3	11975.3	11858.6
57.5°	12891.8	12853.2	10890.3	11050.9	12559.1	12827.8	12457.3	11136.1	11407.3	12702.2	12409.0
60°	13130.6	13317.6	11630.3	11851.5	13372.9	13670.5	13345.7	11969.2	12235.2	13003.3	12371.3
62.5°	13001.6	13419.5	12418.7	12400.2	13554.7	13875.1	13646.8	12432.7	12848.8	12692.6	11745.3
65°	12405.5	13053.4	12876.0	12258.9	12933.1	12959.4	12885.7	12225.5	12993.7	11710.2	10535.6
67.5°	11107.1	12039.4	12273.8	11047.4	11256.3	11085.1	10961.4	11091.3	12238.7	10238.0	8854.4
70°	9046.7	10449.6	10561.9	8836.0	8741.2	8626.2	8379.5	9093.2	10748.9	8390.9	7025.8
72.5°	6651.8	8126.6	8471.7	6480.6	6041.7	6065.4	5870.5	6852.8	8739.4	6233.0	5245.4
75°	4551.0	5884.5	6628.1	4522.0	3995.3	4004.9	3980.4	4855.6	6960.8	4335.9	3925.1
77.5°	3324.6	4204.2	4998.7	3040.1	2951.5	2897.0	2883.9	3397.4	5336.7	3148.1	3048.0
80°	2667.9	3106.0	3357.9	2106.9	2265.8	2261.5	2188.6	2336.1	3485.2	2302.7	2279.9
82.5°	1850.6	2387.0	2720.6	1651.3	1529.3	1503.8	1521.4	1740.0	2463.4	1574.1	1496.8
85°	976.2	1585.5	2694.3	1463.4	907.7	724.3	900.7	1424.8	2134.2	834.0	730.4
87.5°	124.7	458.3	1783.9	583.8	358.2	193.1	427.5	802.4	1370.4	170.3	148.4
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: P192091

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5
2.5°	5853.8	5737.0	5584.3	5442.9	5296.3	5150.6	4960.1	4840.7	4758.2	4742.4	4707.3
5°	5711.6	5323.5	5030.3	4776.6	4546.6	4221.8	4041.8	3892.6	3812.7	3804.8	3785.5
7.5°	5055.8	4520.3	4124.3	3765.3	3439.6	3177.1	2887.4	2752.2	2696.9	2710.1	2723.2
10°	4373.7	3774.9	3320.2	2953.2	2666.2	2444.9	2212.3	2055.1	1946.3	1924.3	1920.0
12.5°	3875.0	3218.4	2776.8	2517.8	2295.7	2087.6	1840.9	1655.7	1514.4	1466.1	1433.6
15°	3664.3	2946.2	2483.6	2204.4	1959.5	1695.2	1466.1	1272.1	1142.1	1100.0	1076.3
17.5°	3709.1	2870.7	2281.6	1924.3	1610.9	1335.3	1046.4	880.5	802.4	782.2	782.2
20°	3944.4	2856.7	2114.8	1666.2	1275.6	956.0	719.0	624.2	598.7	596.1	603.1
22.5°	4274.5	2905.8	1990.2	1442.4	991.1	697.9	560.1	525.0	513.6	516.2	524.1
25°	4766.1	3071.7	1899.8	1243.1	777.8	571.5	499.5	478.5	473.2	480.2	489.9
27.5°	5349.0	3237.7	1843.6	1093.0	656.7	522.3	474.9	453.0	456.5	465.3	474.1
30°	5860.8	3373.7	1754.9	985.9	618.9	525.0	474.9	445.1	441.6	443.3	446.0
32.5°	6319.9	3465.9	1651.3	884.0	533.8	466.2	443.3	438.9	419.6	412.6	413.5
35°	6715.9	3465.9	1589.0	824.3	478.5	413.5	376.6	354.7	345.0	345.9	355.5
37.5°	7097.8	3396.6	1558.3	791.0	448.6	393.3	360.8	341.5	328.3	325.7	327.5
40°	7434.9	3295.6	1523.1	776.9	425.8	381.0	350.3	334.5	320.4	316.0	316.9
42.5°	7705.3	3214.0	1484.5	758.5	411.7	372.2	343.3	329.2	313.4	309.0	308.1
45°	7997.6	3186.7	1433.6	721.6	418.8	373.1	341.5	326.6	310.8	305.5	303.8
47.5°	8383.0	3271.9	1380.9	677.7	433.7	377.5	344.1	326.6	309.9	305.5	303.8
50°	8868.5	3472.1	1314.2	613.6	418.8	389.8	343.3	323.9	309.9	305.5	302.0
52.5°	9491.8	3742.5	1226.4	539.9	410.0	419.6	341.5	318.7	305.5	299.4	293.2
55°	10249.4	3963.7	1121.9	479.3	389.8	411.7	338.9	312.5	298.5	289.7	284.4
57.5°	10804.2	4043.6	987.6	439.8	361.7	398.6	335.4	304.6	289.7	282.7	275.7
60°	10694.5	3889.1	874.4	415.2	345.0	359.9	332.7	297.6	281.8	276.5	270.4
62.5°	9815.7	3485.2	801.5	403.8	334.5	328.3	335.4	290.6	274.8	269.5	267.8
65°	8498.0	2889.1	772.5	401.2	325.7	309.9	311.7	282.7	266.9	262.5	260.7
67.5°	7010.0	2331.7	747.1	410.0	314.3	296.7	287.9	272.1	259.0	254.6	251.1
70°	5528.1	1939.3	735.7	404.7	300.2	283.6	273.9	260.7	249.3	244.9	242.3
72.5°	4451.8	1638.1	729.5	399.4	281.8	266.0	257.2	245.8	233.5	231.8	229.1
75°	3767.0	1287.9	668.1	382.8	260.7	244.9	238.8	228.3	216.0	216.0	214.2
77.5°	2905.8	931.4	555.7	338.9	238.8	221.2	216.0	208.1	194.0	196.6	195.8
80°	2146.4	607.5	434.6	280.9	211.6	194.9	192.3	184.4	169.4	172.9	172.9
82.5°	1470.5	398.6	312.5	230.0	180.8	165.0	165.0	157.1	140.5	142.2	147.5
85°	738.3	273.9	233.5	178.2	140.5	132.6	132.6	126.4	109.7	110.6	117.6
87.5°	224.7	165.0	154.5	127.3	101.0	99.2	94.8	90.4	79.9	79.0	83.4
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: P192091

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5
2.5°	4653.7	4603.7	4543.1	4409.7	4364.9	4362.2	4402.6	4360.5	4441.3	4407.0	4444.8
5°	3753.0	3703.8	3636.2	3465.9	3362.3	3292.1	3258.7	3160.4	3231.5	3179.7	3222.7
7.5°	2760.1	2771.5	2726.7	2626.7	2401.0	2287.8	2221.1	2161.4	2213.2	2207.9	2290.4
10°	1940.1	1970.9	1939.3	1838.3	1655.7	1593.4	1605.7	1629.4	1697.0	1732.1	1859.4
12.5°	1396.7	1395.0	1374.8	1284.4	1164.1	1171.1	1221.1	1262.4	1324.7	1361.6	1491.5
15°	1042.9	1027.1	1018.4	944.6	876.1	891.1	915.6	920.0	959.5	981.5	1086.8
17.5°	788.3	796.2	805.9	753.2	701.4	691.8	672.5	648.8	660.2	664.6	717.2
20°	625.9	657.5	681.2	644.4	591.7	563.6	539.0	523.2	523.2	522.3	537.3
22.5°	546.9	569.8	595.2	569.8	522.3	497.8	483.7	471.4	469.7	469.7	483.7
25°	503.9	520.6	545.2	527.6	492.5	474.1	460.9	445.1	438.9	437.2	446.8
27.5°	482.8	489.9	502.2	486.4	456.5	447.7	444.2	430.2	422.3	417.9	427.5
30°	446.8	445.1	446.0	430.2	406.5	405.6	411.7	414.4	411.7	410.9	425.8
32.5°	413.5	410.0	409.1	395.1	373.1	367.8	373.1	378.4	384.5	393.3	410.9
35°	371.3	380.1	385.4	373.1	346.8	331.0	324.8	315.2	309.9	309.9	330.1
37.5°	338.0	358.2	366.1	354.7	325.7	303.8	293.2	291.5	292.3	295.8	315.2
40°	326.6	341.5	348.5	337.1	308.1	287.9	281.8	280.0	281.8	287.1	306.4
42.5°	319.6	330.1	329.2	315.2	291.5	277.4	273.9	272.1	273.9	279.2	300.2
45°	313.4	320.4	313.4	296.7	274.8	267.8	268.6	267.8	269.5	274.8	295.0
47.5°	308.1	310.8	302.0	285.3	262.5	260.7	264.2	266.9	268.6	273.0	294.1
50°	300.2	300.2	292.3	274.8	252.0	252.8	257.2	263.4	264.2	269.5	286.2
52.5°	290.6	289.7	284.4	267.8	243.2	245.8	245.8	252.8	254.6	260.7	278.3
55°	282.7	280.9	278.3	262.5	235.3	239.7	237.0	239.7	244.1	250.2	269.5
57.5°	275.7	272.1	272.1	258.1	229.1	230.9	224.7	228.3	233.5	238.8	259.0
60°	268.6	265.1	266.9	252.0	219.5	217.7	215.1	222.1	223.9	230.0	250.2
62.5°	260.7	258.1	259.0	244.9	212.4	208.1	208.1	214.2	215.1	223.9	243.2
65°	254.6	251.1	250.2	237.9	204.5	199.3	201.9	204.5	206.3	215.1	233.5
67.5°	248.4	241.4	241.4	231.8	195.8	190.5	195.8	194.9	197.5	205.4	220.4
70°	240.5	230.9	231.8	227.4	187.0	180.8	185.2	184.4	186.1	191.4	206.3
72.5°	228.3	220.4	222.1	220.4	178.2	169.4	171.2	171.2	171.2	175.6	191.4
75°	212.4	206.3	211.6	216.0	167.7	155.4	157.1	157.1	154.5	157.1	176.5
77.5°	193.1	189.6	207.2	201.0	155.4	140.5	140.5	138.7	133.4	137.0	158.0
80°	172.1	169.4	191.4	168.6	141.3	122.0	120.3	115.9	110.6	113.2	134.3
82.5°	150.1	147.5	160.7	129.1	122.0	101.0	96.6	88.7	83.4	86.0	105.3
85°	122.9	122.9	123.8	97.4	93.1	77.3	72.0	61.5	55.3	57.1	75.5
87.5°	87.8	90.4	83.4	66.7	55.3	43.0	39.5	33.4	28.1	32.5	39.5
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: P192091

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5
2.5°	4637.9	4734.5	4844.2	4984.7	5104.9	5302.5	5492.1	5606.2
5°	3467.7	3628.3	3828.5	4085.7	4325.4	4685.3	5042.6	5271.7
7.5°	2481.8	2653.9	2869.8	3191.1	3530.0	3989.1	4461.4	4735.4
10°	2053.4	2229.8	2411.6	2628.4	2905.8	3405.3	3963.7	4272.7
12.5°	1698.7	1887.5	2083.2	2311.5	2568.7	3014.7	3658.2	4013.7
15°	1300.2	1510.9	1741.7	2030.6	2352.8	2868.1	3582.7	3969.0
17.5°	891.1	1126.3	1409.9	1766.3	2160.5	2820.7	3717.9	4163.0
20°	613.6	784.8	1087.7	1505.6	1979.6	2814.5	3977.7	4535.2
22.5°	513.6	589.9	811.2	1265.9	1843.6	2890.0	4380.7	5057.5
25°	474.9	520.6	647.9	1057.9	1744.4	3063.8	4935.5	5733.5
27.5°	452.1	493.4	588.2	921.8	1666.2	3265.8	5475.4	6388.4
30°	460.9	503.0	571.5	852.4	1560.0	3434.3	5954.7	6899.4
32.5°	415.2	433.7	489.9	791.0	1483.6	3575.7	6374.4	7322.5
35°	353.8	386.3	437.2	762.0	1485.4	3670.5	6831.8	7863.3
37.5°	337.1	369.6	406.5	751.5	1505.6	3771.4	7356.7	8497.1
40°	326.6	356.4	388.0	745.3	1524.9	3863.6	7871.2	9123.9
42.5°	319.6	346.8	386.3	724.3	1534.6	3946.1	8294.3	9656.8
45°	318.7	346.8	393.3	703.2	1549.5	4034.8	8649.0	10051.0
47.5°	319.6	358.2	380.1	677.7	1549.5	4183.2	9065.1	10403.0
50°	316.0	377.5	366.1	641.7	1513.5	4464.1	9635.7	10874.5
52.5°	314.3	374.9	338.9	586.4	1451.2	4910.1	10367.0	11524.1
55°	309.9	361.7	319.6	503.9	1378.3	5396.4	11150.1	12292.2
57.5°	305.5	320.4	309.0	431.9	1265.9	5738.8	11689.1	12891.8
60°	342.4	280.0	300.2	396.8	1115.8	5832.7	11668.1	13130.6
62.5°	316.9	262.5	288.8	388.9	1010.5	5569.3	11129.0	13001.6
65°	248.4	251.1	277.4	411.7	982.4	4871.4	10173.9	12405.5
67.5°	227.4	239.7	266.0	440.7	985.0	3900.5	8746.4	11107.1
70°	214.2	227.4	252.8	455.6	992.0	2907.6	6915.2	9046.7
72.5°	199.3	210.7	237.9	458.3	946.4	2112.2	5329.7	6651.8
75°	181.7	192.3	216.8	399.4	784.0	1465.2	4076.9	4551.0
77.5°	161.5	169.4	190.5	308.1	582.0	937.6	3060.3	3324.6
80°	137.8	142.2	159.8	225.6	398.6	586.4	2421.2	2667.9
82.5°	110.6	112.4	123.8	169.4	259.0	376.6	1621.5	1850.6
85°	78.1	78.1	85.2	122.9	176.5	238.8	880.5	976.2
87.5°	36.9	37.7	37.7	67.6	92.2	121.1	202.8	124.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)