

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: P193821

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193821
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA 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: 10529 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

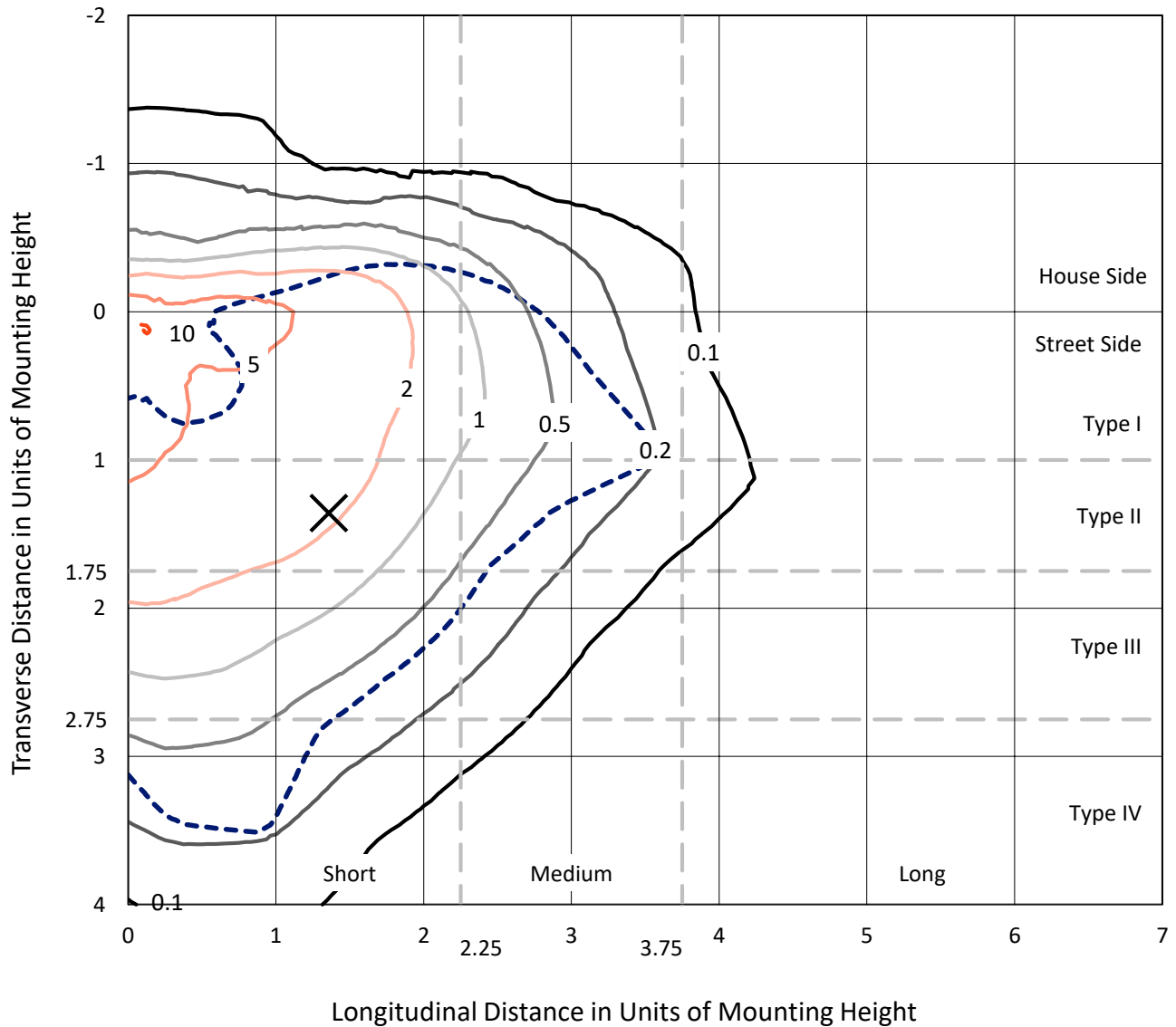
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193821
 CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-800

Iso-Footcandle Lines of Horizontal Illumination

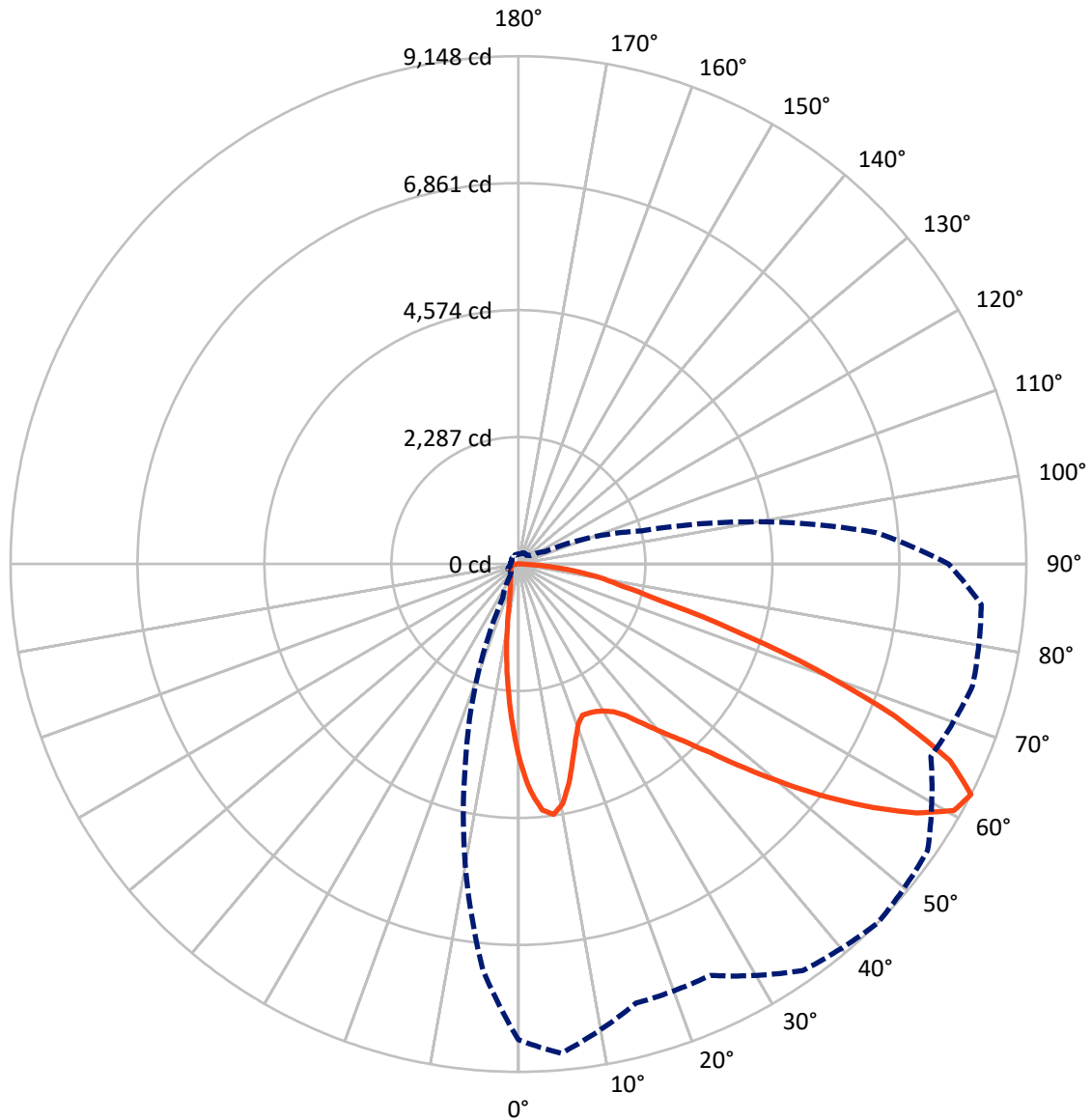
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P193821
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193821

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1742.4	0.0	1742.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8786.6	0.0	8786.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	10529.0	0.0	10529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	2.5
10°-20°	474.8	4.5
20°-30°	692.3	6.6
30°-40°	1066.3	10.1
40°-50°	1569.3	14.9
50°-60°	2301.8	21.9
60°-70°	2573.1	24.4
70°-80°	1259.8	12.0
80°-90°	332.6	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°	10529.0	100.0
0°-180°	10529.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193821

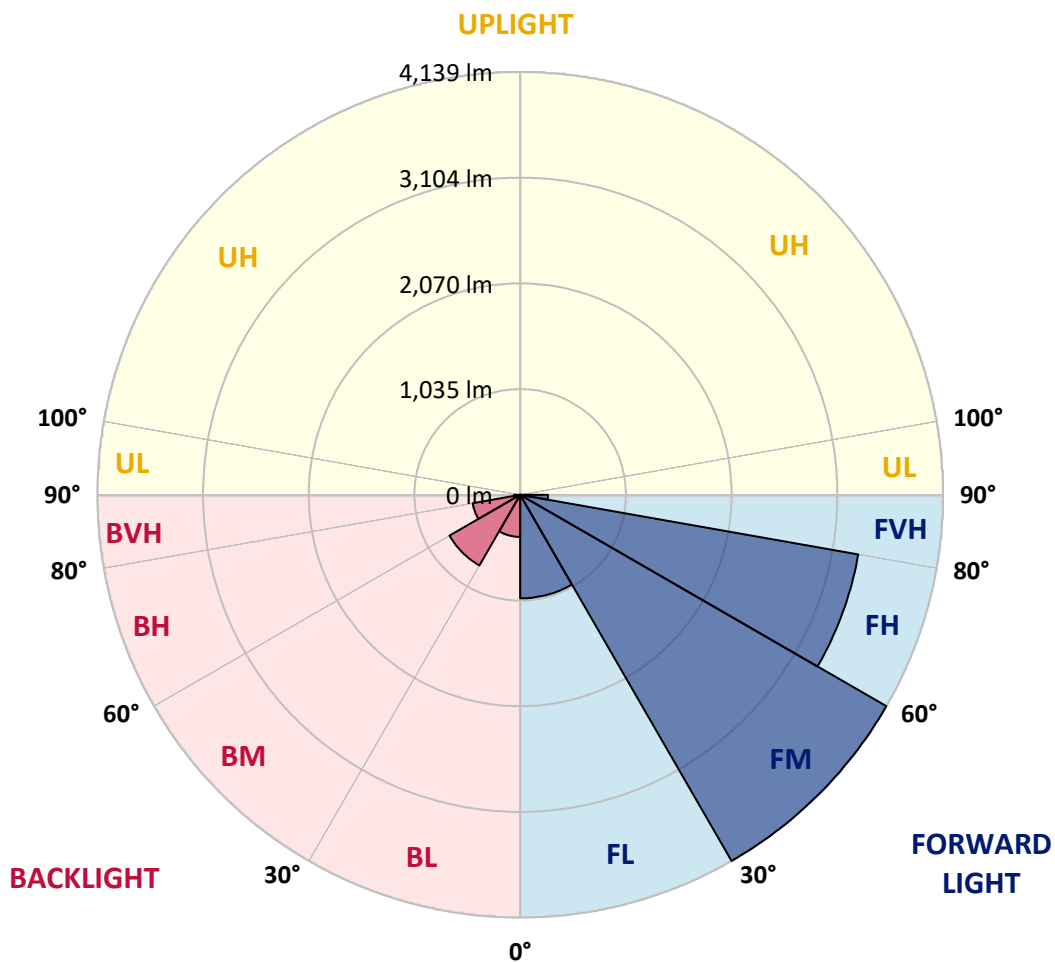
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.9	9.6			
FM (30°-60°)	4139.0	39.3			
FH (60°-80°)	3360.5	31.9			G2/5000
FVH (80°-90°)	273.1	2.6			G3/500
BL (0°-30°)	412.2	3.9	B1/500		
BM (30°-60°)	798.4	7.6	B1/1000		
BH (60°-80°)	472.4	4.5	B1/500		G1/500
BVH (80°-90°)	59.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P193821

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3
2.5°	3696.2	3755.2	3870.4	3956.6	4061.4	4085.7	4119.3	4086.3	4027.8	3950.3	3924.8
5°	3475.7	3601.8	3881.4	4127.4	4346.2	4448.0	4476.4	4392.5	4222.9	4000.0	3864.0
7.5°	3122.0	3301.4	3680.0	4042.3	4364.7	4555.1	4550.5	4355.4	4043.4	3680.5	3462.3
10°	2817.0	3021.9	3456.0	3861.1	4203.2	4387.8	4316.6	4067.2	3695.0	3277.1	3040.4
12.5°	2646.2	2847.1	3287.5	3694.4	3980.4	4044.0	3989.6	3745.4	3394.6	2972.1	2764.9
15°	2616.7	2837.2	3220.4	3551.5	3711.8	3656.2	3591.4	3482.0	3234.3	2873.7	2657.8
17.5°	2744.6	2987.7	3297.4	3451.9	3424.7	3328.1	3309.5	3321.7	3262.1	2983.1	2734.2
20°	2990.0	3281.8	3480.9	3405.0	3206.5	3073.4	3078.0	3263.8	3440.3	3260.3	2976.2
22.5°	3334.4	3667.2	3745.4	3429.9	3114.5	2956.5	2994.7	3295.6	3724.5	3665.5	3302.6
25°	3780.1	4083.4	4027.2	3520.2	3123.7	2970.9	3001.6	3405.6	4060.2	4070.7	3706.6
27.5°	4211.9	4493.2	4264.0	3640.0	3161.9	3005.1	3045.6	3578.7	4380.9	4510.5	4168.5
30°	4548.7	4744.4	4357.7	3749.4	3237.2	3071.7	3122.0	3743.1	4526.7	4807.5	4523.8
32.5°	4827.7	4968.4	4507.1	3884.9	3375.5	3176.4	3265.0	3942.7	4736.8	5089.9	4871.7
35°	5184.3	5224.2	4692.9	4035.9	3589.1	3358.7	3468.7	4138.4	4937.1	5375.3	5214.3
37.5°	5602.1	5550.6	4868.2	4242.6	3865.2	3644.1	3735.0	4353.1	5102.1	5698.8	5564.5
40°	6015.4	5891.5	5088.2	4563.2	4268.0	3980.4	4088.0	4582.3	5256.0	6022.9	5906.6
42.5°	6366.7	6183.2	5305.2	4915.7	4643.1	4351.4	4479.9	4813.2	5403.0	6299.6	6203.5
45°	6626.6	6398.6	5511.8	5254.3	5159.9	4844.5	4905.3	5077.8	5562.2	6530.5	6447.8
47.5°	6858.7	6615.0	5745.7	5595.8	5612.0	5485.8	5388.0	5385.7	5749.7	6719.2	6678.7
50°	7169.5	6915.4	5996.9	5947.7	6290.3	6206.4	5990.5	5745.1	5987.0	6933.4	6928.7
52.5°	7597.8	7391.2	6303.6	6326.8	6923.5	6978.5	6711.1	6176.9	6358.6	7326.4	7298.6
55°	8104.3	7983.9	6721.5	6762.6	7700.3	7739.6	7474.0	6716.9	6905.0	7895.3	7818.3
57.5°	8499.6	8474.1	7179.9	7285.8	8280.2	8457.3	8213.1	7342.0	7520.8	8374.6	8181.2
60°	8657.0	8780.3	7667.9	7813.7	8816.8	9013.0	8798.8	7891.3	8066.6	8573.1	8156.4
62.5°	8571.9	8847.4	8187.6	8175.5	8936.6	9147.8	8997.3	8196.9	8471.2	8368.2	7743.7
65°	8178.9	8606.1	8489.2	8082.3	8526.8	8544.1	8495.5	8060.3	8566.7	7720.5	6946.1
67.5°	7322.9	7937.6	8092.1	7283.5	7421.3	7308.4	7226.8	7312.5	8069.0	6749.9	5837.7
70°	5964.5	6889.4	6963.5	5825.6	5763.0	5687.2	5524.6	5995.1	7086.7	5532.1	4632.1
72.5°	4385.5	5357.9	5585.4	4272.7	3983.3	3998.9	3870.4	4518.1	5761.9	4109.4	3458.3
75°	3000.5	3879.7	4369.9	2981.4	2634.1	2640.5	2624.2	3201.3	4589.3	2858.7	2587.8
77.5°	2191.9	2771.8	3295.6	2004.4	1945.9	1910.0	1901.3	2239.9	3518.5	2075.6	2009.6
80°	1759.0	2047.8	2213.9	1389.1	1493.9	1491.0	1442.9	1540.2	2297.8	1518.2	1503.1
82.5°	1220.1	1573.7	1793.7	1088.7	1008.3	991.5	1003.0	1147.2	1624.1	1037.8	986.8
85°	643.6	1045.3	1776.3	964.8	598.5	477.5	593.8	939.4	1407.0	549.9	481.6
87.5°	82.2	302.1	1176.1	384.9	236.1	127.3	281.9	529.0	903.5	112.3	97.8
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: P193821

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3
2.5°	3859.4	3782.4	3681.7	3588.5	3491.9	3395.8	3270.2	3191.5	3137.1	3126.6	3103.5
5°	3765.6	3509.8	3316.5	3149.2	2997.6	2783.4	2664.8	2566.4	2513.7	2508.5	2495.8
7.5°	3333.3	2980.2	2719.2	2482.4	2267.7	2094.7	1903.7	1814.5	1778.1	1786.7	1795.4
10°	2883.5	2488.8	2189.0	1947.1	1757.8	1611.9	1458.6	1355.0	1283.2	1268.7	1265.8
12.5°	2554.8	2121.9	1830.7	1660.0	1513.5	1376.4	1213.7	1091.6	998.4	966.6	945.2
15°	2415.9	1942.4	1637.4	1453.3	1291.9	1117.6	966.6	838.7	753.0	725.2	709.6
17.5°	2445.4	1892.7	1504.3	1268.7	1062.1	880.3	689.9	580.5	529.0	515.7	515.7
20°	2600.5	1883.4	1394.3	1098.5	841.0	630.3	474.0	411.5	394.7	393.0	397.6
22.5°	2818.1	1915.8	1312.1	951.0	653.5	460.1	369.3	346.1	338.6	340.3	345.5
25°	3142.3	2025.2	1252.5	819.6	512.8	376.8	329.3	315.4	312.0	316.6	323.0
27.5°	3526.6	2134.6	1215.5	720.6	432.9	344.4	313.1	298.7	301.0	306.8	312.5
30°	3864.0	2224.3	1157.0	650.0	408.0	346.1	313.1	293.4	291.1	292.3	294.0
32.5°	4166.7	2285.1	1088.7	582.8	351.9	307.3	292.3	289.4	276.7	272.0	272.6
35°	4427.8	2285.1	1047.6	543.5	315.4	272.6	248.3	233.8	227.5	228.0	234.4
37.5°	4679.5	2239.4	1027.4	521.5	295.8	259.3	237.9	225.2	216.5	214.7	215.9
40°	4901.8	2172.8	1004.2	512.2	280.7	251.2	230.9	220.5	211.3	208.4	208.9
42.5°	5080.1	2119.0	978.7	500.1	271.5	245.4	226.3	217.0	206.6	203.7	203.2
45°	5272.8	2101.0	945.2	475.8	276.1	246.0	225.2	215.3	204.9	201.4	200.3
47.5°	5526.9	2157.2	910.4	446.8	285.9	248.9	226.9	215.3	204.3	201.4	200.3
50°	5847.0	2289.1	866.5	404.6	276.1	257.0	226.3	213.6	204.3	201.4	199.1
52.5°	6257.9	2467.4	808.6	356.0	270.3	276.7	225.2	210.1	201.4	197.4	193.3
55°	6757.4	2613.3	739.7	316.0	257.0	271.5	223.4	206.1	196.8	191.0	187.5
57.5°	7123.2	2665.9	651.1	290.0	238.5	262.8	221.1	200.8	191.0	186.4	181.7
60°	7050.9	2564.1	576.5	273.8	227.5	237.3	219.4	196.2	185.8	182.3	178.3
62.5°	6471.5	2297.8	528.4	266.2	220.5	216.5	221.1	191.6	181.2	177.7	176.5
65°	5602.7	1904.8	509.3	264.5	214.7	204.3	205.5	186.4	176.0	173.1	171.9
67.5°	4621.7	1537.3	492.6	270.3	207.2	195.6	189.8	179.4	170.7	167.9	165.5
70°	3644.7	1278.6	485.0	266.8	197.9	187.0	180.6	171.9	164.4	161.5	159.7
72.5°	2935.1	1080.0	481.0	263.4	185.8	175.4	169.6	162.1	154.0	152.8	151.1
75°	2483.6	849.1	440.5	252.4	171.9	161.5	157.4	150.5	142.4	142.4	141.2
77.5°	1915.8	614.1	366.4	223.4	157.4	145.9	142.4	137.2	127.9	129.6	129.1
80°	1415.1	400.5	286.5	185.2	139.5	128.5	126.8	121.5	111.7	114.0	114.0
82.5°	969.5	262.8	206.1	151.6	119.2	108.8	108.8	103.6	92.6	93.8	97.2
85°	486.8	180.6	154.0	117.5	92.6	87.4	87.4	83.3	72.3	72.9	77.6
87.5°	148.2	108.8	101.9	83.9	66.6	65.4	62.5	59.6	52.7	52.1	55.0
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: P193821

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3
2.5°	3068.2	3035.2	2995.3	2907.3	2877.8	2876.0	2902.6	2874.9	2928.1	2905.5	2930.4
5°	2474.3	2441.9	2397.4	2285.1	2216.8	2170.5	2148.5	2083.7	2130.5	2096.4	2124.8
7.5°	1819.7	1827.3	1797.7	1731.7	1583.0	1508.3	1464.3	1425.0	1459.1	1455.7	1510.1
10°	1279.1	1299.4	1278.6	1212.0	1091.6	1050.5	1058.6	1074.2	1118.8	1142.0	1225.9
12.5°	920.9	919.7	906.4	846.8	767.5	772.1	805.1	832.3	873.4	897.7	983.4
15°	687.6	677.2	671.4	622.8	577.6	587.5	603.7	606.6	632.6	647.1	716.5
17.5°	519.8	525.0	531.3	496.6	462.5	456.1	443.4	427.7	435.3	438.1	472.9
20°	412.7	433.5	449.1	424.8	390.1	371.6	355.4	345.0	345.0	344.4	354.2
22.5°	360.6	375.6	392.4	375.6	344.4	328.2	318.9	310.8	309.7	309.7	318.9
25°	332.2	343.2	359.4	347.9	324.7	312.5	303.9	293.4	289.4	288.2	294.6
27.5°	318.3	323.0	331.1	320.7	301.0	295.2	292.9	283.6	278.4	275.5	281.9
30°	294.6	293.4	294.0	283.6	268.0	267.4	271.5	273.2	271.5	270.9	280.7
32.5°	272.6	270.3	269.7	260.5	246.0	242.5	246.0	249.5	253.5	259.3	270.9
35°	244.8	250.6	254.1	246.0	228.6	218.2	214.2	207.8	204.3	204.3	217.6
37.5°	222.8	236.1	241.4	233.8	214.7	200.3	193.3	192.2	192.7	195.1	207.8
40°	215.3	225.2	229.8	222.3	203.2	189.8	185.8	184.6	185.8	189.3	202.0
42.5°	210.7	217.6	217.0	207.8	192.2	182.9	180.6	179.4	180.6	184.1	197.9
45°	206.6	211.3	206.6	195.6	181.2	176.5	177.1	176.5	177.7	181.2	194.5
47.5°	203.2	204.9	199.1	188.1	173.1	171.9	174.2	176.0	177.1	180.0	193.9
50°	197.9	197.9	192.7	181.2	166.1	166.7	169.6	173.6	174.2	177.7	188.7
52.5°	191.6	191.0	187.5	176.5	160.3	162.1	162.1	166.7	167.9	171.9	183.5
55°	186.4	185.2	183.5	173.1	155.1	158.0	156.3	158.0	160.9	165.0	177.7
57.5°	181.7	179.4	179.4	170.2	151.1	152.2	148.2	150.5	154.0	157.4	170.7
60°	177.1	174.8	176.0	166.1	144.7	143.5	141.8	146.4	147.6	151.6	165.0
62.5°	171.9	170.2	170.7	161.5	140.1	137.2	137.2	141.2	141.8	147.6	160.3
65°	167.9	165.5	165.0	156.9	134.9	131.4	133.1	134.9	136.0	141.8	154.0
67.5°	163.8	159.2	159.2	152.8	129.1	125.6	129.1	128.5	130.2	135.4	145.3
70°	158.6	152.2	152.8	149.9	123.3	119.2	122.1	121.5	122.7	126.2	136.0
72.5°	150.5	145.3	146.4	145.3	117.5	111.7	112.9	112.9	112.9	115.8	126.2
75°	140.1	136.0	139.5	142.4	110.5	102.4	103.6	103.6	101.9	103.6	116.3
77.5°	127.3	125.0	136.6	132.5	102.4	92.6	92.6	91.4	88.0	90.3	104.2
80°	113.4	111.7	126.2	111.1	93.2	80.5	79.3	76.4	72.9	74.7	88.6
82.5°	99.0	97.2	105.9	85.1	80.5	66.6	63.7	58.5	55.0	56.7	69.5
85°	81.0	81.0	81.6	64.2	61.4	50.9	47.5	40.5	36.5	37.6	49.8
87.5°	57.9	59.6	55.0	44.0	36.5	28.4	26.0	22.0	18.5	21.4	26.0
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: P193821

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3
2.5°	3057.8	3121.4	3193.8	3286.4	3365.7	3495.9	3620.9	3696.2
5°	2286.2	2392.2	2524.1	2693.7	2851.7	3089.0	3324.6	3475.7
7.5°	1636.2	1749.7	1892.1	2103.9	2327.3	2630.0	2941.4	3122.0
10°	1353.8	1470.1	1589.9	1732.9	1915.8	2245.1	2613.3	2817.0
12.5°	1120.0	1244.4	1373.5	1524.0	1693.5	1987.6	2411.8	2646.2
15°	857.2	996.1	1148.3	1338.7	1551.2	1890.9	2362.1	2616.7
17.5°	587.5	742.6	929.5	1164.5	1424.4	1859.7	2451.2	2744.6
20°	404.6	517.4	717.1	992.6	1305.2	1855.6	2622.5	2990.0
22.5°	338.6	388.9	534.8	834.6	1215.5	1905.4	2888.2	3334.4
25°	313.1	343.2	427.1	697.4	1150.1	2020.0	3254.0	3780.1
27.5°	298.1	325.3	387.8	607.7	1098.5	2153.1	3609.9	4211.9
30°	303.9	331.6	376.8	562.0	1028.5	2264.2	3926.0	4548.7
32.5°	273.8	285.9	323.0	521.5	978.2	2357.4	4202.6	4827.7
35°	233.3	254.7	288.2	502.4	979.3	2419.9	4504.2	5184.3
37.5°	222.3	243.7	268.0	495.4	992.6	2486.5	4850.3	5602.1
40°	215.3	235.0	255.8	491.4	1005.4	2547.3	5189.5	6015.4
42.5°	210.7	228.6	254.7	477.5	1011.7	2601.7	5468.4	6366.7
45°	210.1	228.6	259.3	463.6	1021.6	2660.1	5702.3	6626.6
47.5°	210.7	236.1	250.6	446.8	1021.6	2757.9	5976.6	6858.7
50°	208.4	248.9	241.4	423.1	997.8	2943.2	6352.8	7169.5
52.5°	207.2	247.1	223.4	386.6	956.7	3237.2	6835.0	7597.8
55°	204.3	238.5	210.7	332.2	908.7	3557.8	7351.3	8104.3
57.5°	201.4	211.3	203.7	284.8	834.6	3783.6	7706.6	8499.6
60°	225.7	184.6	197.9	261.6	735.6	3845.5	7692.7	8657.0
62.5°	208.9	173.1	190.4	256.4	666.2	3671.9	7337.4	8571.9
65°	163.8	165.5	182.9	271.5	647.7	3211.7	6707.6	8178.9
67.5°	149.9	158.0	175.4	290.6	649.4	2571.6	5766.5	7322.9
70°	141.2	149.9	166.7	300.4	654.0	1917.0	4559.2	5964.5
72.5°	131.4	138.9	156.9	302.1	623.9	1392.6	3513.9	4385.5
75°	119.8	126.8	143.0	263.4	516.9	966.0	2687.9	3000.5
77.5°	106.5	111.7	125.6	203.2	383.7	618.2	2017.7	2191.9
80°	90.9	93.8	105.3	148.7	262.8	386.6	1596.3	1759.0
82.5°	72.9	74.1	81.6	111.7	170.7	248.3	1069.0	1220.1
85°	51.5	51.5	56.1	81.0	116.3	157.4	580.5	643.6
87.5°	24.3	24.9	24.9	44.6	60.8	79.9	133.7	82.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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