

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: P193880

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193880
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-02-LED-E1-SLR-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 9581 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 129
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

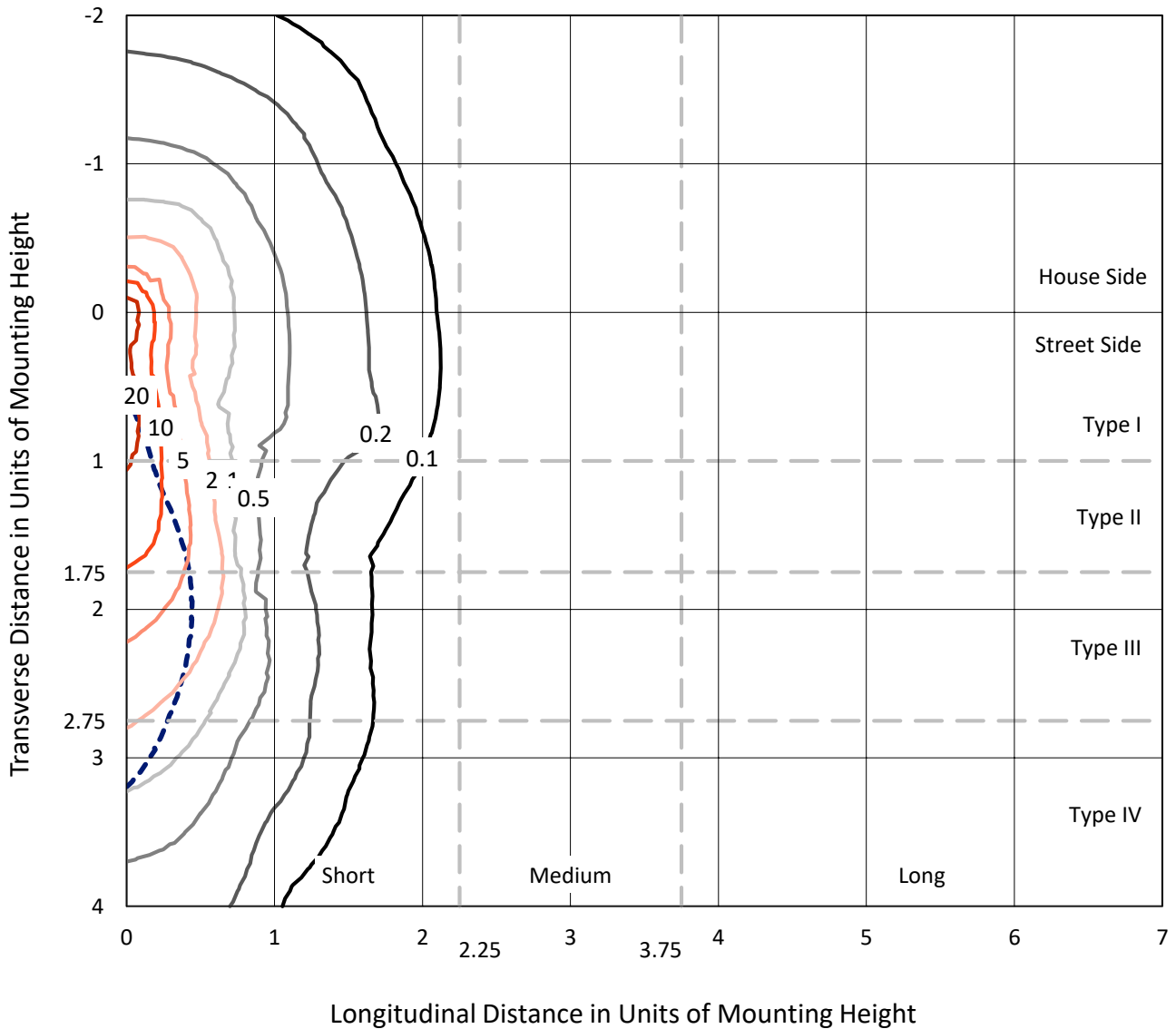


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

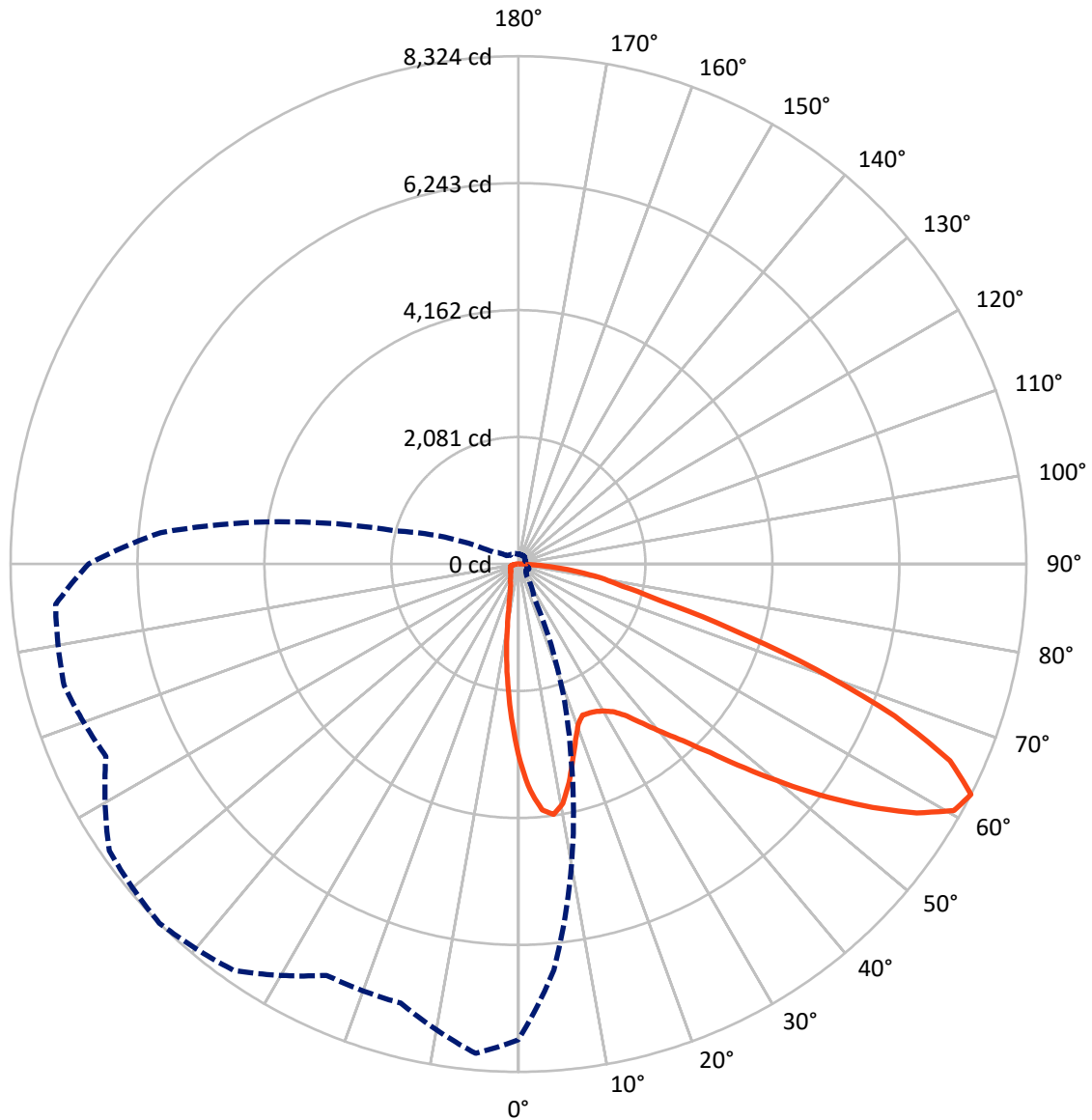


Based on 10 foot mounting height. Maximum calculated value = 32.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1585.5	0.0	1585.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7995.5	0.0	7995.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	9581.0	0.0	9581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	2.5
10°-20°	432.1	4.5
20°-30°	630.0	6.6
30°-40°	970.3	10.1
40°-50°	1428.0	14.9
50°-60°	2094.6	21.9
60°-70°	2341.4	24.4
70°-80°	1146.3	12.0
80°-90°	302.7	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°	9581.0	100.0
0°-180°	9581.0	100.0

Coefficient of Utilization



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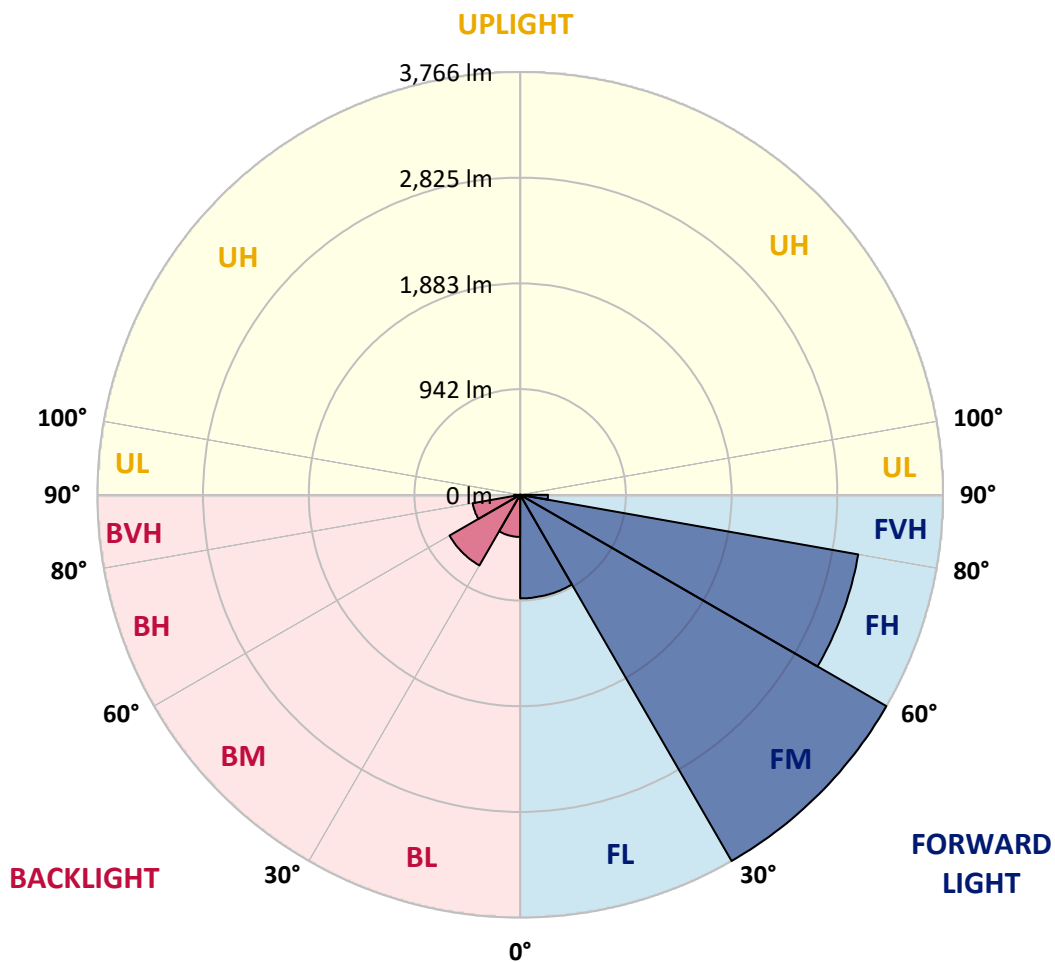
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	922.6	9.6			
FM	(30°-60°)	3766.4	39.3			
FH	(60°-80°)	3057.9	31.9			G2/5000
FVH	(80°-90°)	248.6	2.6			G3/500
BL	(0°-30°)	375.1	3.9	B1/500		
BM	(30°-60°)	726.5	7.6	B1/1000		
BH	(60°-80°)	429.8	4.5	B1/500		G1/500
BVH	(80°-90°)	54.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0
2.5°	3363.4	3294.9	3181.1	3062.6	2990.5	2906.2	2840.4	2782.5	2666.6	2643.9	2664.5
5°	3162.7	3025.3	2810.9	2595.0	2451.2	2296.9	2176.8	2080.4	1933.4	1907.6	1938.7
7.5°	2840.9	2676.6	2393.2	2117.8	1914.5	1721.7	1592.2	1488.9	1374.1	1324.6	1327.8
10°	2563.4	2378.0	2043.0	1743.3	1576.9	1446.8	1337.8	1231.9	1115.5	1039.1	1018.1
12.5°	2408.0	2194.7	1808.6	1541.1	1386.7	1249.8	1132.4	1019.1	894.8	816.9	794.8
15°	2381.1	2149.4	1720.7	1411.5	1218.2	1044.9	906.4	780.0	652.0	588.8	575.7
17.5°	2497.5	2230.5	1692.2	1296.2	1059.7	845.8	675.7	534.6	430.3	398.7	396.1
20°	2720.8	2386.4	1688.5	1187.7	903.3	652.6	470.9	368.1	322.3	313.4	313.9
22.5°	3034.2	2628.1	1733.8	1106.0	759.5	486.7	353.9	308.1	290.2	281.8	281.8
25°	3439.7	2961.0	1838.1	1046.5	634.6	388.7	312.3	284.9	268.1	262.3	263.3
27.5°	3832.7	3284.9	1959.3	999.6	553.0	352.9	296.0	271.2	256.5	250.7	253.3
30°	4139.2	3572.5	2060.4	935.9	511.4	342.9	301.8	276.5	255.4	246.5	247.0
32.5°	4393.0	3824.2	2145.2	890.1	474.5	293.9	260.2	249.1	246.5	236.0	230.7
35°	4717.5	4098.6	2202.1	891.1	457.2	262.3	231.7	212.3	198.0	185.9	185.9
37.5°	5097.7	4413.6	2262.6	903.3	450.8	243.9	221.7	202.2	189.1	177.5	175.4
40°	5473.8	4722.2	2317.9	914.8	447.2	232.8	213.8	195.9	183.8	172.2	169.1
42.5°	5793.5	4976.1	2367.4	920.6	434.5	231.7	208.0	191.7	180.1	167.5	164.3
45°	6030.0	5188.9	2420.6	929.6	421.9	236.0	208.0	191.2	177.0	164.9	161.7
47.5°	6241.2	5438.5	2509.6	929.6	406.6	228.1	214.9	191.7	176.4	163.8	161.2
50°	6524.0	5780.8	2678.2	908.0	385.0	219.6	226.5	189.6	171.7	161.7	158.5
52.5°	6913.7	6219.6	2945.7	870.6	351.8	203.3	224.9	188.6	167.0	156.4	152.7
55°	7374.6	6689.4	3237.5	826.9	302.3	191.7	217.0	185.9	161.7	150.1	146.4
57.5°	7734.3	7012.7	3442.9	759.5	259.1	185.4	192.2	183.3	155.4	143.3	140.1
60°	7877.6	7000.1	3499.3	669.4	238.1	180.1	168.0	205.4	150.1	138.0	134.3
62.5°	7800.1	6676.7	3341.3	606.2	233.3	173.3	157.5	190.1	145.9	134.3	129.0
65°	7442.5	6103.7	2922.5	589.4	247.0	166.4	150.6	149.1	140.1	129.0	123.8
67.5°	6663.6	5247.3	2340.0	590.9	264.4	159.6	143.8	136.4	132.2	123.2	118.5
70°	5427.4	4148.7	1744.4	595.1	273.3	151.7	136.4	128.5	123.8	114.8	111.7
72.5°	3990.7	3197.5	1267.2	567.8	274.9	142.7	126.4	119.6	114.8	105.3	102.7
75°	2730.3	2445.9	879.0	470.3	239.6	130.1	115.3	109.0	105.9	94.3	92.7
77.5°	1994.5	1836.0	562.5	349.2	184.9	114.3	101.6	96.9	94.8	82.2	80.1
80°	1600.6	1452.6	351.8	239.1	135.4	95.9	85.3	82.7	80.6	67.9	66.4
82.5°	1110.2	972.8	225.9	155.4	101.6	74.3	67.4	66.4	63.2	51.6	50.0
85°	585.7	528.3	143.3	105.9	73.7	51.1	46.9	46.9	45.3	34.2	33.2
87.5°	74.8	121.7	72.7	55.3	40.6	22.6	22.6	22.1	23.7	19.5	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0
2.5°	2616.0	2641.3	2617.1	2618.7	2645.5	2725.6	2761.9	2791.9	2824.1	2845.1	2854.6
5°	1896.0	1955.0	1975.1	2017.2	2079.3	2181.5	2222.1	2251.6	2271.0	2282.6	2287.4
7.5°	1296.7	1332.5	1372.5	1440.5	1575.8	1635.9	1662.7	1655.9	1633.8	1625.9	1618.0
10°	977.5	963.3	955.9	993.3	1102.9	1163.4	1182.4	1164.0	1151.9	1154.5	1167.7
12.5°	757.4	732.6	702.6	698.4	770.5	824.8	836.9	837.9	860.1	879.6	908.5
15°	552.0	549.3	534.6	525.6	566.7	610.9	616.2	625.7	645.7	659.9	685.2
17.5°	389.2	403.4	415.0	420.8	451.9	483.5	477.7	473.0	469.3	469.3	481.4
20°	313.9	323.4	338.1	355.0	386.6	408.7	394.5	375.5	361.8	357.6	359.2
22.5°	282.8	290.2	298.6	313.4	341.8	357.1	341.8	328.1	314.4	309.7	308.1
25°	267.0	276.5	284.4	295.5	316.5	327.1	312.3	302.3	293.9	288.1	283.9
27.5°	258.1	266.5	268.6	273.9	291.8	301.3	293.9	289.7	284.4	279.1	273.9
30°	248.6	247.0	243.3	243.9	258.1	267.6	267.0	268.1	267.6	266.0	264.9
32.5°	227.0	223.8	220.7	223.8	237.0	245.4	246.0	248.1	248.1	247.5	251.8
35°	189.1	194.9	198.6	208.0	223.8	231.2	228.1	222.8	213.3	207.5	207.0
37.5°	174.9	175.9	182.2	195.4	212.8	219.6	214.9	202.8	196.5	195.4	197.0
40°	168.0	169.1	172.8	184.9	202.2	209.1	204.9	195.9	190.1	189.6	192.2
42.5°	163.3	164.3	166.4	174.9	189.1	197.5	198.0	191.7	184.9	185.4	188.0
45°	160.6	161.2	160.6	164.9	178.0	188.0	192.2	188.0	182.2	183.3	186.4
47.5°	160.1	158.5	156.4	157.5	171.2	181.2	186.4	184.9	182.2	183.3	185.9
50°	158.0	154.3	151.7	151.2	164.9	175.4	180.1	180.1	181.2	183.3	185.9
52.5°	151.7	147.5	147.5	145.9	160.6	170.6	173.8	174.3	175.9	179.6	183.3
55°	143.8	142.2	143.8	141.2	157.5	167.0	168.5	169.6	170.6	173.8	179.1
57.5°	136.9	134.8	138.5	137.5	154.8	163.3	163.3	165.4	165.4	169.6	173.8
60°	133.3	129.0	130.6	131.7	151.2	160.1	159.1	161.2	162.2	165.9	169.1
62.5°	128.5	124.8	124.8	127.5	146.9	155.4	154.8	156.4	160.6	161.7	164.9
65°	122.7	121.1	119.6	122.7	142.7	150.1	150.6	152.7	156.4	157.5	160.1
67.5°	116.9	117.4	114.3	117.4	139.0	144.8	144.8	149.1	150.6	152.7	155.4
70°	110.6	111.1	108.5	112.2	136.4	139.0	138.5	144.3	145.4	146.9	149.6
72.5°	102.7	102.7	101.6	106.9	132.2	133.3	132.2	136.9	137.5	139.0	140.1
75°	94.3	94.3	93.2	100.6	129.6	126.9	123.8	127.5	128.5	129.6	129.6
77.5°	83.2	84.3	84.3	93.2	120.6	124.3	113.8	115.9	117.4	118.0	116.4
80°	69.5	72.2	73.2	84.8	101.1	114.8	101.6	103.2	103.8	103.8	101.6
82.5°	53.2	57.9	60.6	73.2	77.4	96.4	88.5	90.1	88.5	85.3	84.3
85°	36.9	43.2	46.3	55.8	58.5	74.3	73.7	73.7	70.6	66.4	65.8
87.5°	20.0	23.7	25.8	33.2	40.0	50.0	54.2	52.7	50.0	47.4	47.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0
2.5°	2904.1	2975.7	3090.0	3177.5	3265.4	3350.2	3441.9	3511.9	3571.4	3594.6	3665.2
5°	2335.3	2424.8	2532.8	2727.7	2865.7	3017.9	3193.8	3426.6	3516.1	3639.9	3842.7
7.5°	1651.1	1732.3	1906.1	2063.5	2258.9	2474.3	2711.9	3033.2	3150.6	3349.2	3679.4
10°	1233.0	1327.2	1466.8	1599.5	1771.8	1991.9	2264.7	2623.9	2766.7	2982.1	3362.3
12.5°	993.3	1104.4	1252.4	1377.3	1510.5	1665.9	1930.8	2324.8	2516.0	2704.5	3089.0
15°	763.2	879.6	1017.0	1175.6	1322.5	1490.0	1767.5	2198.4	2418.5	2615.0	2943.1
17.5°	528.3	627.8	801.1	966.5	1154.5	1368.8	1722.2	2225.2	2488.0	2714.5	2968.4
20°	374.5	431.4	573.6	765.3	999.6	1268.8	1713.8	2366.4	2708.2	2966.8	3130.6
22.5°	315.0	336.0	418.7	594.6	865.3	1194.0	1743.3	2564.4	3005.2	3335.5	3389.2
25°	287.0	299.7	342.9	466.6	745.8	1139.7	1842.9	2859.3	3372.9	3704.1	3694.7
27.5°	271.8	284.9	313.4	394.0	655.7	1106.0	1942.4	3209.1	3793.2	4104.4	3986.4
30°	267.0	284.9	315.0	371.3	591.5	1052.8	2024.0	3516.1	4116.5	4374.6	4119.2
32.5°	263.3	266.0	279.7	320.2	530.4	990.7	2079.3	3791.6	4433.1	4631.6	4310.4
35°	212.8	225.9	248.1	287.0	494.6	953.3	2079.3	4029.1	4744.9	4891.3	4492.6
37.5°	204.9	216.5	236.0	269.1	474.5	934.9	2037.7	4258.2	5063.5	5185.7	4642.7
40°	200.7	210.1	228.6	255.4	466.1	913.8	1977.2	4460.5	5374.8	5480.6	4782.8
42.5°	197.5	205.9	223.3	247.0	455.1	890.6	1928.2	4622.7	5645.0	5732.4	4916.6
45°	195.9	204.9	223.8	251.2	432.9	860.1	1911.8	4798.1	5867.2	5942.5	5061.4
47.5°	195.9	206.5	226.5	260.2	406.6	828.5	1962.9	5029.3	6077.4	6114.2	5232.0
50°	194.3	205.9	233.8	251.2	368.1	788.4	2083.0	5320.5	6304.9	6309.1	5448.0
52.5°	191.2	204.9	251.8	246.0	323.9	735.8	2245.2	5694.5	6641.4	6666.7	5786.1
55°	187.5	203.3	247.0	233.8	287.6	673.1	2378.0	6149.0	7114.4	7184.4	6283.3
57.5°	182.8	201.2	239.1	217.0	263.9	592.5	2425.9	6481.9	7444.6	7620.5	6843.7
60°	178.5	199.6	215.9	207.0	249.1	524.6	2333.2	6416.0	7422.0	7801.2	7340.3
62.5°	174.3	201.2	197.0	200.7	242.3	480.9	2090.9	5888.8	7046.5	7614.7	7708.5
65°	169.6	187.0	185.9	195.4	240.7	463.5	1733.3	5098.3	6320.7	7025.4	7795.4
67.5°	163.3	172.8	178.0	188.6	246.0	448.2	1398.9	4205.5	5312.1	6142.1	7342.5
70°	156.4	164.3	170.1	180.1	242.8	441.4	1163.4	3316.5	4215.0	5034.0	6448.7
72.5°	147.5	154.3	159.6	169.1	239.6	437.7	982.8	2670.8	3146.9	3739.4	5243.1
75°	136.9	143.3	146.9	156.4	229.6	400.8	772.6	2260.0	2354.8	2601.3	4176.0
77.5°	124.8	129.6	132.7	143.3	203.3	333.4	558.8	1743.3	1828.6	1888.7	3201.7
80°	110.6	115.3	116.9	126.9	168.5	260.7	364.5	1287.7	1367.8	1381.5	2090.9
82.5°	94.3	99.0	99.0	108.5	138.0	187.5	239.1	882.2	898.0	944.3	1477.9
85°	75.8	79.5	79.5	84.3	106.9	140.1	164.3	442.9	438.2	500.3	1280.4
87.5°	54.2	56.9	59.5	60.6	76.4	92.7	99.0	134.8	89.0	102.2	822.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0	3237.0
2.5°	3718.4	3748.4	3717.8	3695.7	3600.4	3521.9	3417.1	3363.4
5°	3997.0	4073.3	4047.5	3954.8	3755.8	3531.9	3277.5	3162.7
7.5°	3963.3	4140.8	4145.0	3971.7	3678.3	3348.6	3004.2	2840.9
10°	3701.0	3928.0	3992.8	3824.8	3513.5	3144.8	2749.8	2563.4
12.5°	3408.1	3630.4	3679.9	3622.0	3361.8	2991.5	2590.7	2408.0
15°	3168.5	3268.1	3327.0	3377.6	3231.7	2930.4	2581.8	2381.1
17.5°	3022.6	3011.6	3028.4	3116.4	3141.1	3000.5	2718.7	2497.5
20°	2970.0	2800.9	2796.7	2917.8	3098.5	3167.5	2986.3	2720.8
22.5°	2998.9	2725.0	2690.3	2834.1	3121.1	3408.1	3337.0	3034.2
25°	3099.0	2731.4	2703.5	2842.5	3203.3	3664.6	3715.7	3439.7
27.5°	3256.5	2771.4	2734.5	2877.3	3312.3	3880.1	4088.6	3832.7
30°	3406.0	2840.9	2795.1	2945.7	3411.8	3965.4	4317.2	4139.2
32.5°	3587.7	2971.0	2890.4	3071.6	3535.1	4101.3	4521.0	4393.0
35°	3765.8	3156.4	3056.3	3265.9	3672.5	4270.3	4753.8	4717.5
37.5°	3961.2	3398.7	3316.0	3517.2	3860.6	4429.9	5050.9	5097.7
40°	4169.7	3719.9	3622.0	3883.7	4152.3	4630.0	5361.1	5473.8
42.5°	4379.9	4076.5	3959.6	4225.0	4473.1	4827.6	5626.5	5793.5
45°	4620.6	4463.6	4408.3	4695.4	4781.2	5015.6	5822.5	6030.0
47.5°	4900.8	4902.9	4991.9	5106.7	5091.9	5228.4	6019.4	6241.2
50°	5227.8	5451.1	5647.6	5724.0	5412.2	5456.9	6292.8	6524.0
52.5°	5620.7	6106.9	6350.2	6300.2	5757.1	5736.1	6725.7	6913.7
55°	6112.1	6801.0	7042.8	7007.0	6153.7	6116.3	7265.0	7374.6
57.5°	6680.9	7473.6	7695.9	7534.7	6629.9	6533.5	7711.1	7734.3
60°	7180.8	8006.6	8201.5	8022.9	7110.2	6977.5	7989.7	7877.6
62.5°	7458.8	8187.2	8324.2	8131.9	7439.4	7450.4	8050.8	7800.1
65°	7334.6	7730.6	7774.9	7759.1	7354.6	7724.8	7831.2	7442.5
67.5°	6654.1	6576.1	6650.4	6753.1	6627.7	7363.5	7222.9	6663.6
70°	5455.4	5027.2	5175.2	5244.2	5301.0	6336.5	6269.1	5427.4
72.5°	4111.3	3521.9	3638.8	3624.6	3888.0	5082.5	4875.5	3990.7
75°	2913.1	2388.0	2402.7	2396.9	2712.9	3976.4	3530.3	2730.3
77.5°	2038.3	1730.1	1738.0	1770.7	1823.9	2998.9	2522.3	1994.5
80°	1401.5	1313.0	1356.7	1359.4	1264.0	2014.6	1863.4	1600.6
82.5°	1043.9	912.7	902.2	917.5	990.7	1632.2	1432.0	1110.2
85°	854.8	540.4	434.5	544.6	878.0	1616.4	951.2	585.7
87.5°	481.4	256.5	115.9	214.9	350.2	1070.2	274.9	74.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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