

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: P192142

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192142
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-04-LED-E1-SLR-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 23148 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

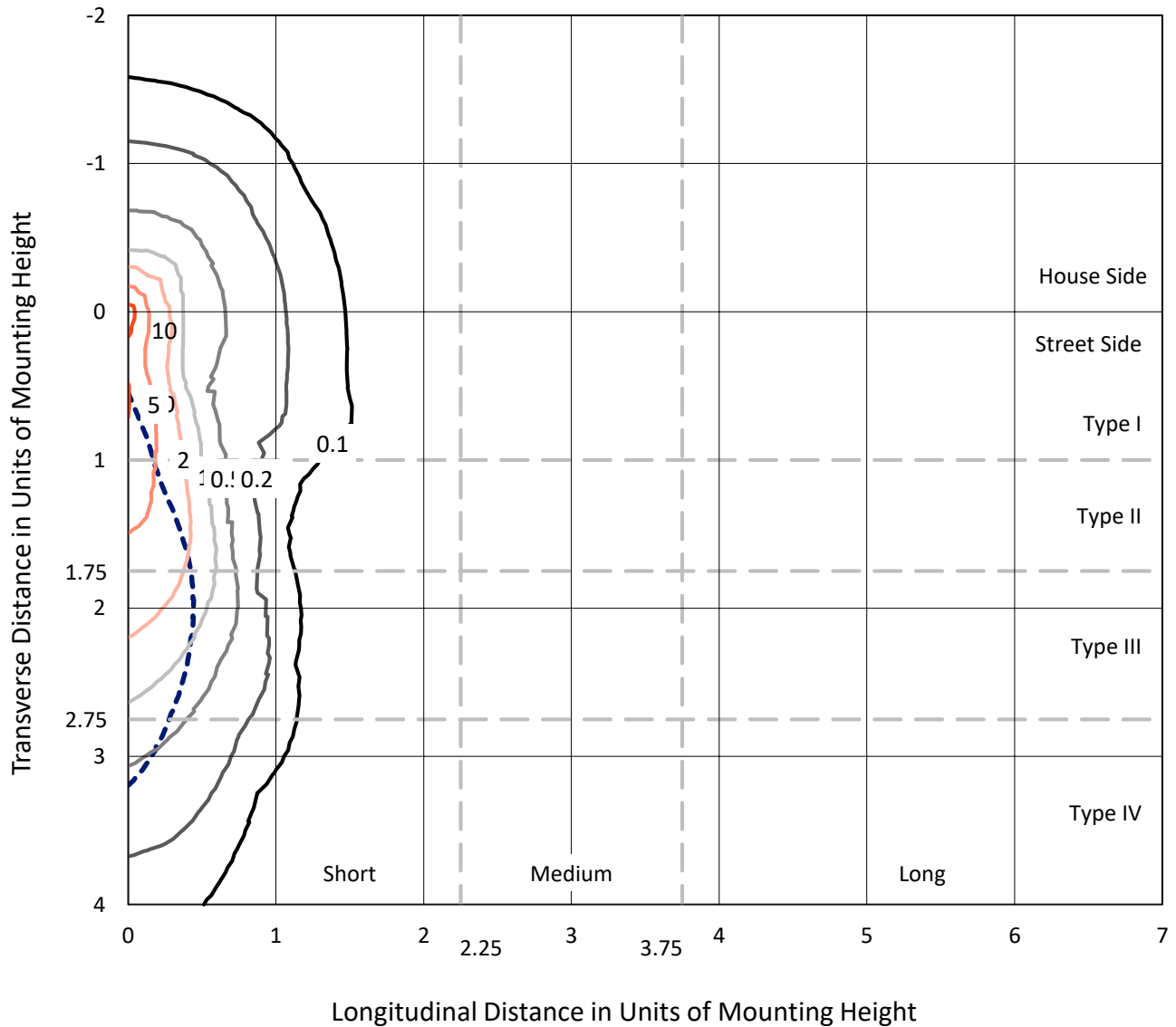


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

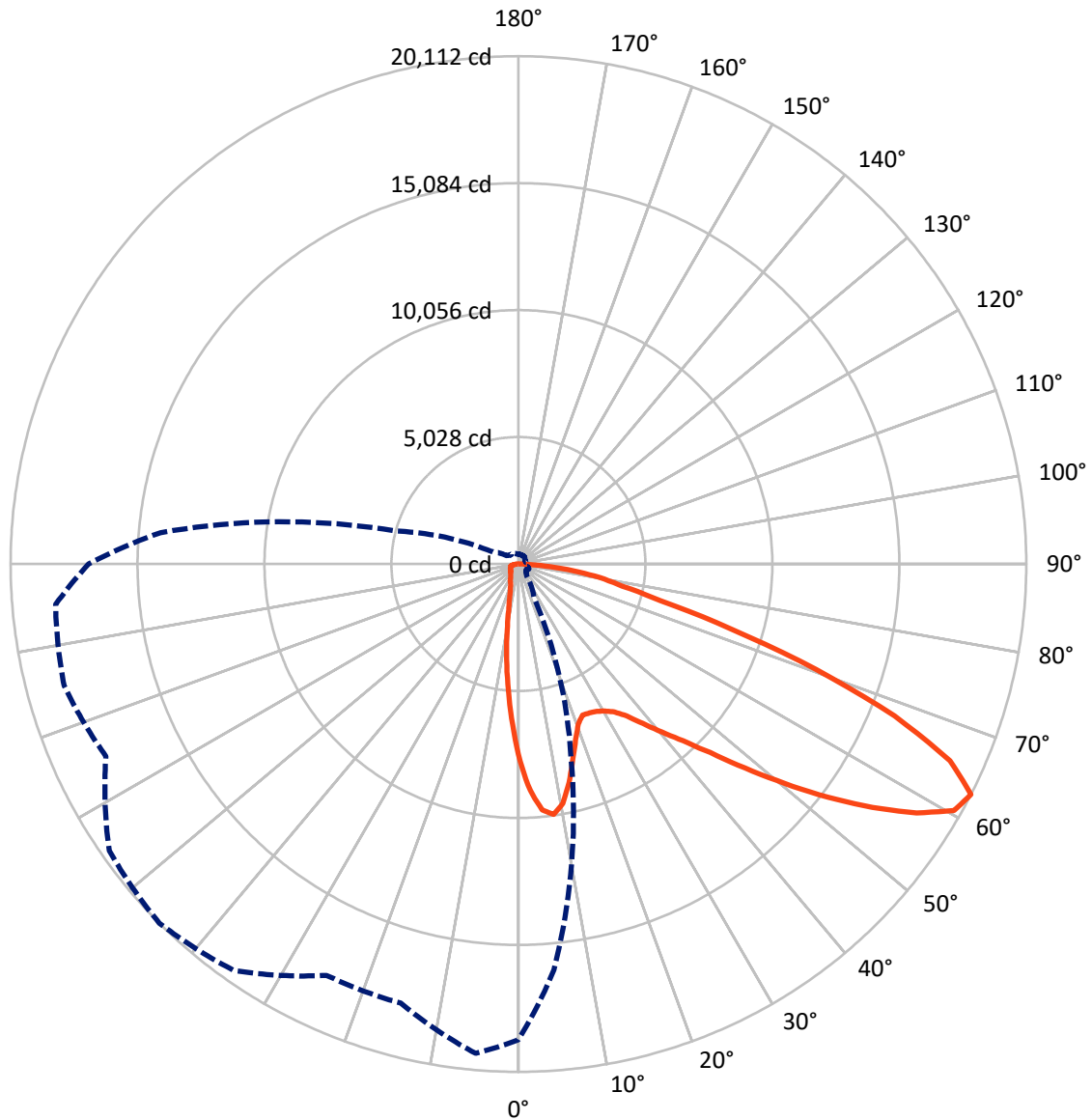


Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - Non-Cutoff

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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	3830.7	0.0	3830.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	19317.3	0.0	19317.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	23148.0	0.0	23148.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.3	2.5
10°-20°	1044.0	4.5
20°-30°	1522.1	6.6
30°-40°	2344.2	10.1
40°-50°	3450.1	14.9
50°-60°	5060.6	21.9
60°-70°	5657.0	24.4
70°-80°	2769.6	12.0
80°-90°	731.2	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°	23148.0	100.0
0°-180°	23148.0	100.0



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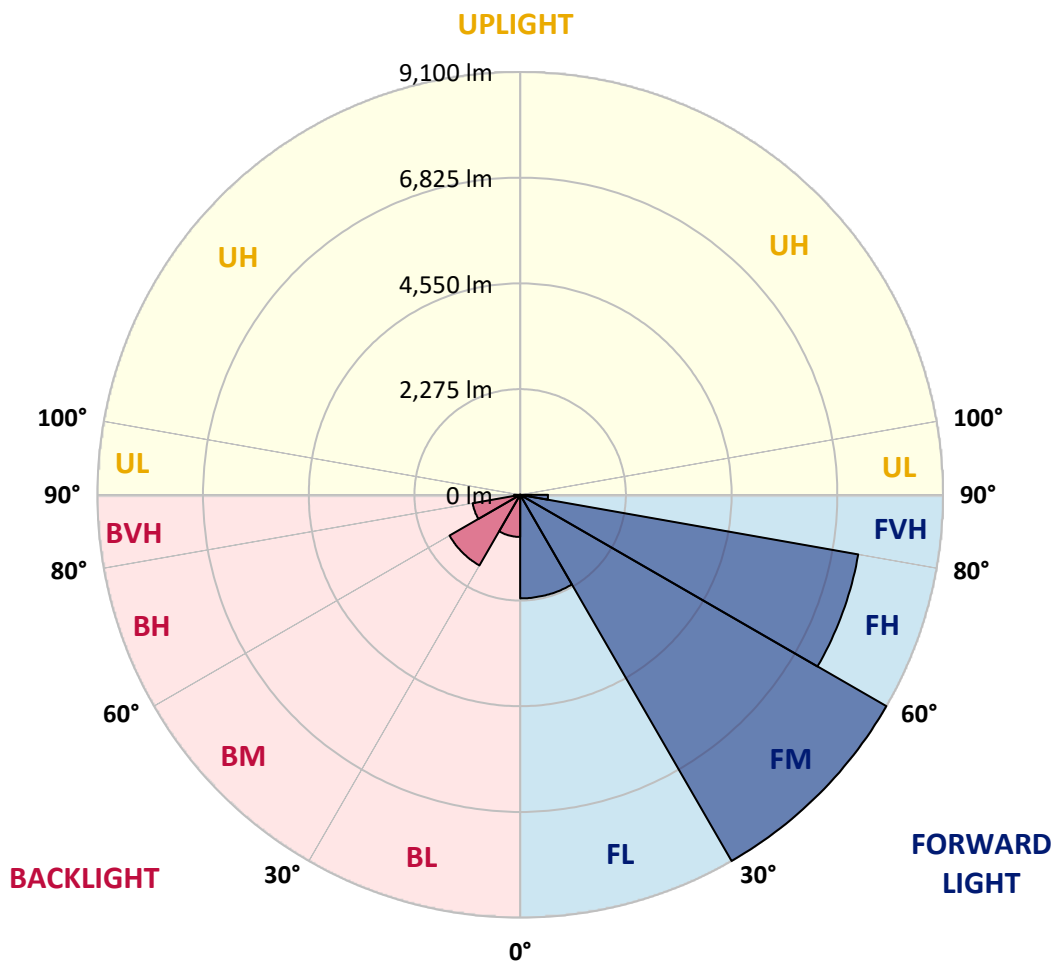
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2229.1	9.6			
FM	(30°-60°)	9099.7	39.3			
FH	(60°-80°)	7388.0	31.9			G3/7500
FVH	(80°-90°)	600.5	2.6			G4/750
BL	(0°-30°)	906.3	3.9	B2/1000		
BM	(30°-60°)	1755.2	7.6	B2/2500		
BH	(60°-80°)	1038.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	130.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6
2.5°	8126.0	7960.6	7685.8	7399.5	7225.1	7021.5	6862.5	6722.5	6442.5	6387.8	6437.5
5°	7641.2	7309.1	6791.2	6269.5	5922.1	5549.3	5259.1	5026.3	4671.3	4608.9	4684.0
7.5°	6863.7	6466.7	5782.1	5116.6	4625.5	4159.7	3846.7	3597.3	3319.9	3200.3	3207.9
10°	6193.1	5745.2	4935.9	4211.9	3809.8	3495.5	3232.1	2976.3	2695.1	2510.6	2459.7
12.5°	5817.8	5302.4	4369.7	3723.3	3350.4	3019.6	2735.8	2462.2	2161.9	1973.6	1920.2
15°	5752.9	5193.0	4157.2	3410.2	2943.2	2524.6	2189.9	1884.5	1575.3	1422.6	1390.8
17.5°	6034.1	5388.9	4088.5	3131.6	2560.2	2043.6	1632.6	1291.6	1039.6	963.3	956.9
20°	6573.6	5765.6	4079.6	2869.4	2182.3	1576.6	1137.6	889.5	778.8	757.1	758.4
22.5°	7330.7	6349.7	4189.0	2672.2	1834.9	1175.8	855.1	744.4	701.1	680.8	680.8
25°	8310.5	7153.9	4440.9	2528.4	1533.3	939.1	754.6	688.4	647.7	633.7	636.2
27.5°	9259.8	7936.4	4733.6	2415.2	1336.1	852.6	715.1	655.3	619.7	605.7	612.1
30°	10000.4	8631.2	4977.9	2261.2	1235.6	828.4	729.1	668.1	617.2	595.5	596.8
32.5°	10613.7	9239.5	5182.8	2150.5	1146.5	710.0	628.6	601.9	595.5	570.1	557.3
35°	11397.6	9902.4	5320.2	2153.0	1104.5	633.7	559.9	512.8	478.5	449.2	449.2
37.5°	12316.3	10663.4	5466.6	2182.3	1089.2	589.2	535.7	488.6	456.8	428.8	423.7
40°	13224.8	11409.0	5600.2	2210.3	1080.3	562.4	516.6	473.4	444.1	416.1	408.5
42.5°	13997.2	12022.4	5719.8	2224.3	1049.8	559.9	502.6	463.2	435.2	404.6	397.0
45°	14568.6	12536.4	5848.3	2245.9	1019.3	570.1	502.6	461.9	427.6	398.3	390.7
47.5°	15078.8	13139.6	6063.4	2245.9	982.4	551.0	519.2	463.2	426.3	395.7	389.4
50°	15762.2	13966.7	6470.5	2193.7	930.2	530.6	547.2	458.1	414.8	390.7	383.0
52.5°	16703.8	15026.7	7117.0	2103.4	850.0	491.2	543.3	455.5	403.4	377.9	369.0
55°	17817.2	16161.7	7821.9	1997.8	730.4	463.2	524.3	449.2	390.7	362.7	353.7
57.5°	18686.3	16943.0	8318.2	1834.9	626.1	447.9	464.5	442.8	375.4	346.1	338.5
60°	19032.4	16912.5	8454.3	1617.3	575.2	435.2	405.9	496.3	362.7	333.4	324.5
62.5°	18845.4	16131.2	8072.6	1464.6	563.7	418.6	380.5	459.4	352.5	324.5	311.8
65°	17981.4	14746.7	7061.0	1423.9	596.8	402.1	363.9	360.1	338.5	311.8	299.0
67.5°	16099.4	12677.7	5653.6	1427.7	638.8	385.6	347.4	329.6	319.4	297.8	286.3
70°	13112.9	10023.3	4214.4	1437.9	660.4	366.5	329.6	310.5	299.0	277.4	269.8
72.5°	9641.6	7725.2	3061.6	1371.7	664.2	344.8	305.4	288.9	277.4	254.5	248.1
75°	6596.5	5909.4	2123.8	1136.3	579.0	314.3	278.7	263.4	255.8	227.8	224.0
77.5°	4818.9	4435.9	1359.0	843.7	446.6	276.1	245.6	234.1	229.0	198.5	193.4
80°	3867.1	3509.5	850.0	577.7	327.0	231.6	206.1	199.8	194.7	164.1	160.3
82.5°	2682.4	2350.3	545.9	375.4	245.6	179.4	162.9	160.3	152.7	124.7	120.9
85°	1415.0	1276.3	346.1	255.8	178.1	123.4	113.3	113.3	109.4	82.7	80.2
87.5°	180.7	293.9	175.6	133.6	98.0	54.7	54.7	53.4	57.3	47.1	40.7
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°	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6
2.5°	6320.4	6381.5	6322.9	6326.8	6391.7	6585.1	6672.9	6745.4	6823.0	6873.9	6896.8
5°	4580.9	4723.4	4771.8	4873.6	5023.7	5270.6	5368.6	5439.8	5486.9	5514.9	5526.4
7.5°	3132.8	3219.4	3316.1	3480.2	3807.3	3952.3	4017.2	4000.7	3947.2	3928.1	3909.0
10°	2361.7	2327.4	2309.5	2399.9	2664.6	2810.9	2856.7	2812.2	2782.9	2789.3	2821.1
12.5°	1829.8	1770.0	1697.5	1687.3	1861.6	1992.7	2022.0	2024.5	2078.0	2125.0	2195.0
15°	1333.6	1327.2	1291.6	1269.9	1369.2	1476.1	1488.8	1511.7	1560.1	1594.4	1655.5
17.5°	940.4	974.7	1002.7	1016.7	1091.8	1168.1	1154.1	1142.7	1133.8	1133.8	1163.0
20°	758.4	781.3	816.9	857.6	934.0	987.4	953.1	907.3	874.2	864.0	867.8
22.5°	683.3	701.1	721.5	757.1	825.8	862.7	825.8	792.8	759.7	748.2	744.4
25°	645.1	668.1	687.1	713.9	764.8	790.2	754.6	730.4	710.0	696.0	685.9
27.5°	623.5	643.9	649.0	661.7	705.0	727.9	710.0	699.9	687.1	674.4	661.7
30°	600.6	596.8	587.9	589.2	623.5	646.4	645.1	647.7	646.4	642.6	640.1
32.5°	548.4	540.8	533.2	540.8	572.6	593.0	594.2	599.3	599.3	598.1	608.2
35°	456.8	470.8	479.7	502.6	540.8	558.6	551.0	538.3	515.4	501.4	500.1
37.5°	422.5	425.0	440.3	472.1	514.1	530.6	519.2	489.9	474.6	472.1	475.9
40°	405.9	408.5	417.4	446.6	488.6	505.2	495.0	473.4	459.4	458.1	464.5
42.5°	394.5	397.0	402.1	422.5	456.8	477.2	478.5	463.2	446.6	447.9	454.3
45°	388.1	389.4	388.1	398.3	430.1	454.3	464.5	454.3	440.3	442.8	450.5
47.5°	386.8	383.0	377.9	380.5	413.6	437.7	450.5	446.6	440.3	442.8	449.2
50°	381.7	372.8	366.5	365.2	398.3	423.7	435.2	435.2	437.7	442.8	449.2
52.5°	366.5	356.3	356.3	352.5	388.1	412.3	419.9	421.2	425.0	433.9	442.8
55°	347.4	343.6	347.4	341.0	380.5	403.4	407.2	409.7	412.3	419.9	432.6
57.5°	330.8	325.8	334.7	332.1	374.1	394.5	394.5	399.6	399.6	409.7	419.9
60°	321.9	311.8	315.6	318.1	365.2	386.8	384.3	389.4	391.9	400.8	408.5
62.5°	310.5	301.6	301.6	307.9	355.0	375.4	374.1	377.9	388.1	390.7	398.3
65°	296.5	292.7	288.9	296.5	344.8	362.7	363.9	369.0	377.9	380.5	386.8
67.5°	282.5	283.8	276.1	283.8	335.9	349.9	349.9	360.1	363.9	369.0	375.4
70°	267.2	268.5	262.1	271.0	329.6	335.9	334.7	348.7	351.2	355.0	361.4
72.5°	248.1	248.1	245.6	258.3	319.4	321.9	319.4	330.8	332.1	335.9	338.5
75°	227.8	227.8	225.2	243.0	313.0	306.7	299.0	307.9	310.5	313.0	313.0
77.5°	201.1	203.6	203.6	225.2	291.4	300.3	274.9	279.9	283.8	285.0	281.2
80°	168.0	174.3	176.9	204.9	244.3	277.4	245.6	249.4	250.7	250.7	245.6
82.5°	128.5	140.0	146.3	176.9	187.1	232.9	213.8	217.6	213.8	206.1	203.6
85°	89.1	104.3	112.0	134.9	141.2	179.4	178.1	178.1	170.5	160.3	159.1
87.5°	48.4	57.3	62.4	80.2	96.7	120.9	131.1	127.2	120.9	114.5	115.8
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°	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6
2.5°	7016.4	7189.5	7465.6	7676.9	7889.4	8094.2	8315.6	8484.9	8628.7	8684.7	8855.2
5°	5642.2	5858.5	6119.3	6590.2	6923.5	7291.3	7716.3	8278.7	8495.1	8794.1	9284.0
7.5°	3989.2	4185.2	4605.1	4985.6	5457.7	5978.1	6552.0	7328.2	7612.0	8091.7	8889.5
10°	2978.9	3206.6	3543.8	3864.5	4280.6	4812.5	5471.6	6339.5	6684.3	7204.8	8123.5
12.5°	2399.9	2668.4	3025.9	3327.5	3649.5	4024.8	4664.9	5616.7	6078.6	6534.2	7463.1
15°	1843.8	2125.0	2457.2	2840.2	3195.2	3599.8	4270.4	5311.3	5843.2	6317.8	7110.6
17.5°	1276.3	1516.8	1935.4	2335.0	2789.3	3307.2	4161.0	5376.2	6011.2	6558.3	7171.7
20°	904.7	1042.2	1385.7	1848.9	2415.2	3065.4	4140.6	5717.2	6543.1	7167.9	7563.6
22.5°	760.9	811.8	1011.6	1436.6	2090.7	2884.7	4211.9	6195.7	7260.8	8058.6	8188.4
25°	693.5	724.0	828.4	1127.4	1801.8	2753.6	4452.4	6908.3	8148.9	8949.3	8926.4
27.5°	656.6	688.4	757.1	951.8	1584.2	2672.2	4692.9	7753.2	9164.4	9916.4	9631.4
30°	645.1	688.4	760.9	897.1	1429.0	2543.7	4890.1	8495.1	9945.7	10569.2	9952.0
32.5°	636.2	642.6	675.7	773.7	1281.4	2393.5	5023.7	9160.6	10710.4	11190.2	10413.9
35°	514.1	545.9	599.3	693.5	1194.9	2303.2	5023.7	9734.4	11463.7	11817.5	10854.2
37.5°	495.0	523.0	570.1	650.2	1146.5	2258.6	4923.2	10288.0	12233.6	12528.8	11216.9
40°	484.8	507.7	552.3	617.2	1126.1	2207.7	4776.9	10776.6	12985.6	13241.4	11555.4
42.5°	477.2	497.5	539.5	596.8	1099.4	2151.8	4658.5	11168.5	13638.4	13849.6	11878.6
45°	473.4	495.0	540.8	607.0	1046.0	2078.0	4619.1	11592.3	14175.4	14357.4	12228.5
47.5°	473.4	498.8	547.2	628.6	982.4	2001.6	4742.5	12150.9	14683.1	14772.2	12640.8
50°	469.5	497.5	565.0	607.0	889.5	1904.9	5032.6	12854.6	15232.8	15243.0	13162.5
52.5°	461.9	495.0	608.2	594.2	782.6	1777.6	5424.6	13758.0	16045.9	16107.0	13979.4
55°	453.0	491.2	596.8	565.0	694.8	1626.2	5745.2	14856.2	17188.6	17357.9	15180.6
57.5°	441.5	486.1	577.7	524.3	637.5	1431.5	5861.0	15660.4	17986.5	18411.5	16534.6
60°	431.4	482.3	521.7	500.1	601.9	1267.4	5637.1	15501.3	17931.7	18847.9	17734.5
62.5°	421.2	486.1	475.9	484.8	585.3	1161.8	5051.7	14227.6	17024.5	18397.5	18624.0
65°	409.7	451.7	449.2	472.1	581.5	1119.8	4187.7	12317.6	15271.0	16973.6	18833.9
67.5°	394.5	417.4	430.1	455.5	594.2	1082.9	3379.7	10160.7	12834.2	14839.6	17739.6
70°	377.9	397.0	411.0	435.2	586.6	1066.3	2810.9	8012.8	10183.6	12162.3	15580.2
72.5°	356.3	372.8	385.6	408.5	579.0	1057.4	2374.4	6452.7	7603.0	9034.6	12667.5
75°	330.8	346.1	355.0	377.9	554.8	968.4	1866.7	5460.2	5689.2	6284.8	10089.5
77.5°	301.6	313.0	320.7	346.1	491.2	805.5	1350.1	4211.9	4418.0	4563.1	7735.4
80°	267.2	278.7	282.5	306.7	407.2	629.9	880.6	3111.2	3304.6	3337.7	5051.7
82.5°	227.8	239.2	239.2	262.1	333.4	453.0	577.7	2131.4	2169.6	2281.6	3570.6
85°	183.2	192.1	192.1	203.6	258.3	338.5	397.0	1070.2	1058.7	1208.9	3093.4
87.5°	131.1	137.4	143.8	146.3	184.5	224.0	239.2	325.8	215.0	246.9	1986.3
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-04-LED-E1-SLR-7050-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6	7820.6
2.5°	8983.7	9056.2	8982.4	8929.0	8698.7	8509.1	8255.8	8126.0
5°	9656.8	9841.3	9779.0	9555.0	9074.0	8533.2	7918.6	7641.2
7.5°	9575.4	10004.2	10014.4	9595.7	8887.0	8090.4	7258.2	6863.7
10°	8941.7	9490.1	9646.6	9240.7	8488.7	7598.0	6643.6	6193.1
12.5°	8234.2	8771.2	8890.8	8750.8	8122.2	7227.7	6259.3	5817.8
15°	7655.2	7895.7	8038.2	8160.4	7807.9	7080.1	6237.7	5752.9
17.5°	7302.7	7276.0	7316.7	7529.2	7589.1	7249.3	6568.5	6034.1
20°	7175.5	6767.0	6756.9	7049.5	7486.0	7652.7	7214.9	6573.6
22.5°	7245.5	6583.8	6499.8	6847.2	7540.7	8234.2	8062.4	7330.7
25°	7487.3	6599.1	6531.6	6867.6	7739.2	8853.9	8977.3	8310.5
27.5°	7867.7	6695.8	6606.7	6951.5	8002.6	9374.3	9878.2	9259.8
30°	8229.1	6863.7	6753.0	7117.0	8243.1	9580.5	10430.5	10000.4
32.5°	8668.1	7178.0	6983.4	7421.1	8540.9	9908.8	10922.9	10613.7
35°	9098.2	7626.0	7384.2	7890.6	8873.0	10317.2	11485.4	11397.6
37.5°	9570.3	8211.3	8011.5	8497.6	9327.3	10702.8	12203.1	12316.3
40°	10074.2	8987.5	8750.8	9383.2	10032.2	11186.3	12952.5	13224.8
42.5°	10581.9	9849.0	9566.5	10207.8	10807.1	11663.5	13593.9	13997.2
45°	11163.4	10784.2	10650.6	11344.1	11551.5	12117.8	14067.2	14568.6
47.5°	11840.4	11845.5	12060.5	12337.9	12302.3	12631.9	14543.1	15078.8
50°	12630.6	13170.1	13644.8	13829.3	13076.0	13184.1	15203.6	15762.2
52.5°	13579.9	14754.4	15342.3	15221.4	13909.4	13858.5	16249.5	16703.8
55°	14767.1	16431.5	17015.6	16929.0	14867.6	14777.3	17552.5	17817.2
57.5°	16141.4	18056.4	18593.4	18204.1	16017.9	15785.1	18630.3	18686.3
60°	17348.9	19344.2	19815.0	19383.6	17178.4	16857.8	19303.5	19032.4
62.5°	18020.8	19780.6	20111.5	19647.0	17973.7	18000.5	19451.1	18845.4
65°	17720.5	18677.4	18784.3	18746.1	17768.9	18663.4	18920.5	17981.4
67.5°	16076.5	15888.1	16067.6	16315.7	16012.8	17790.5	17450.7	16099.4
70°	13180.3	12145.8	12503.4	12670.0	12807.5	15309.2	15146.3	13112.9
72.5°	9933.0	8509.1	8791.5	8757.2	9393.4	12279.4	11779.3	9641.6
75°	7038.1	5769.4	5805.0	5791.0	6554.5	9607.2	8529.4	6596.5
77.5°	4924.5	4180.1	4199.2	4278.1	4406.6	7245.5	6093.9	4818.9
80°	3386.1	3172.3	3277.9	3284.3	3053.9	4867.2	4502.0	3867.1
82.5°	2522.0	2205.2	2179.8	2216.7	2393.5	3943.4	3459.9	2682.4
85°	2065.2	1305.6	1049.8	1315.7	2121.2	3905.2	2298.1	1415.0
87.5°	1163.0	619.7	279.9	519.2	846.2	2585.7	664.2	180.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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