

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: P192101

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192101
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA 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: 17519 lumens
Efficiency: N/A
Efficacy: 91.7 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): 191
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

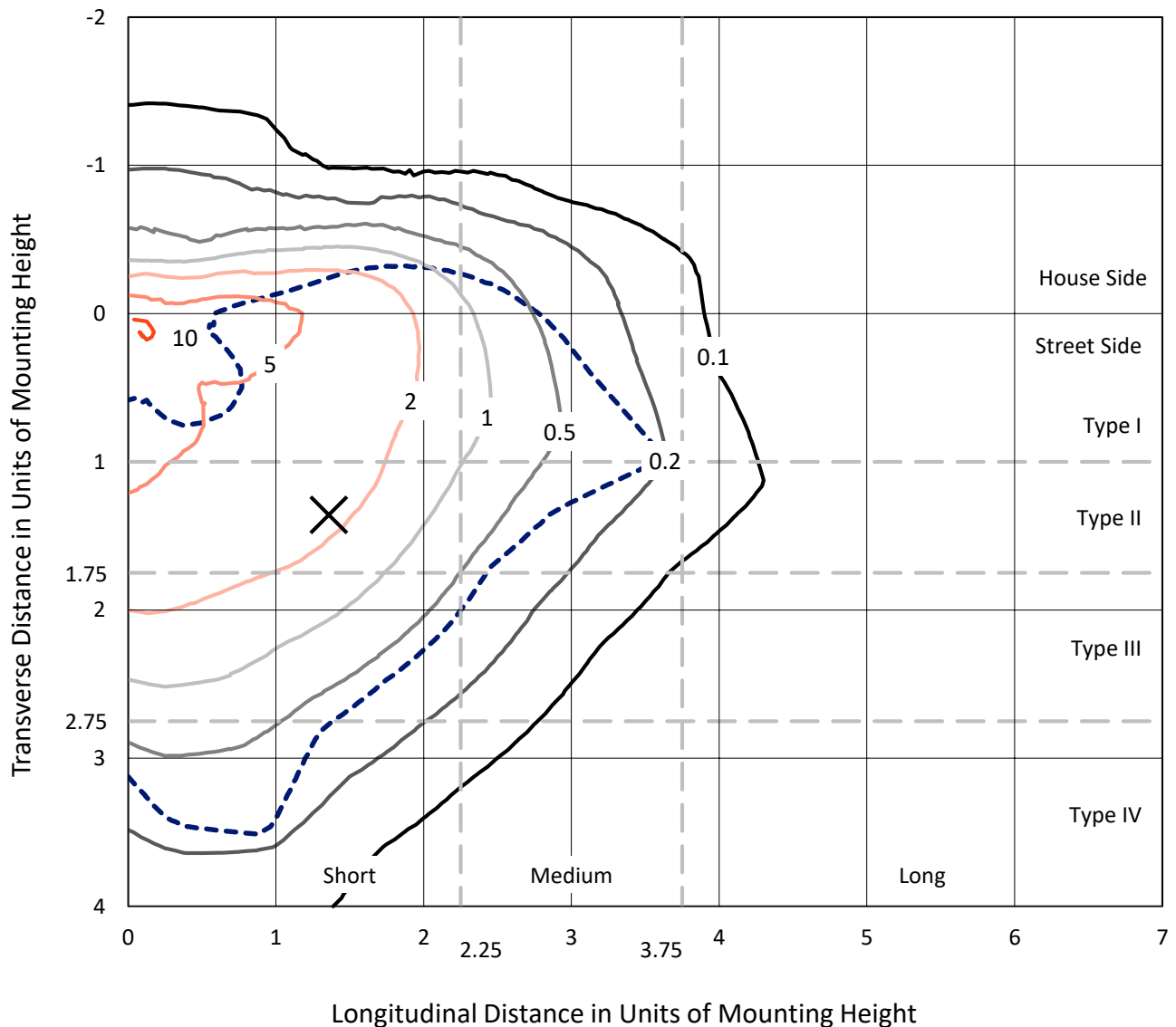


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

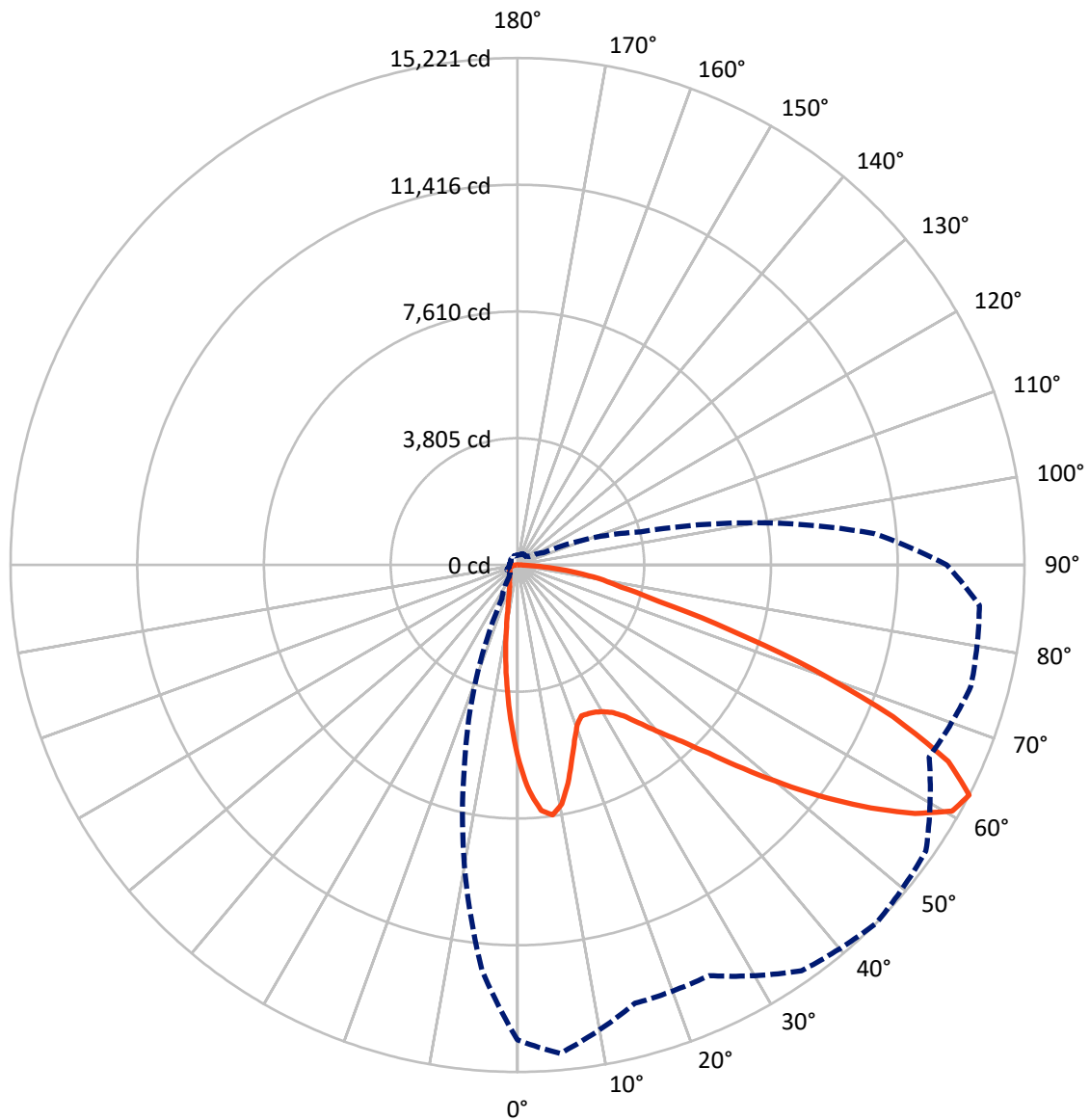


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2899.2	0.0	2899.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14619.8	0.0	14619.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	17519.0	0.0	17519.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.9	2.5
10°-20°	790.1	4.5
20°-30°	1152.0	6.6
30°-40°	1774.2	10.1
40°-50°	2611.1	14.9
50°-60°	3830.0	21.9
60°-70°	4281.3	24.4
70°-80°	2096.1	12.0
80°-90°	553.4	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°	17519.0	100.0
0°-180°	17519.0	100.0



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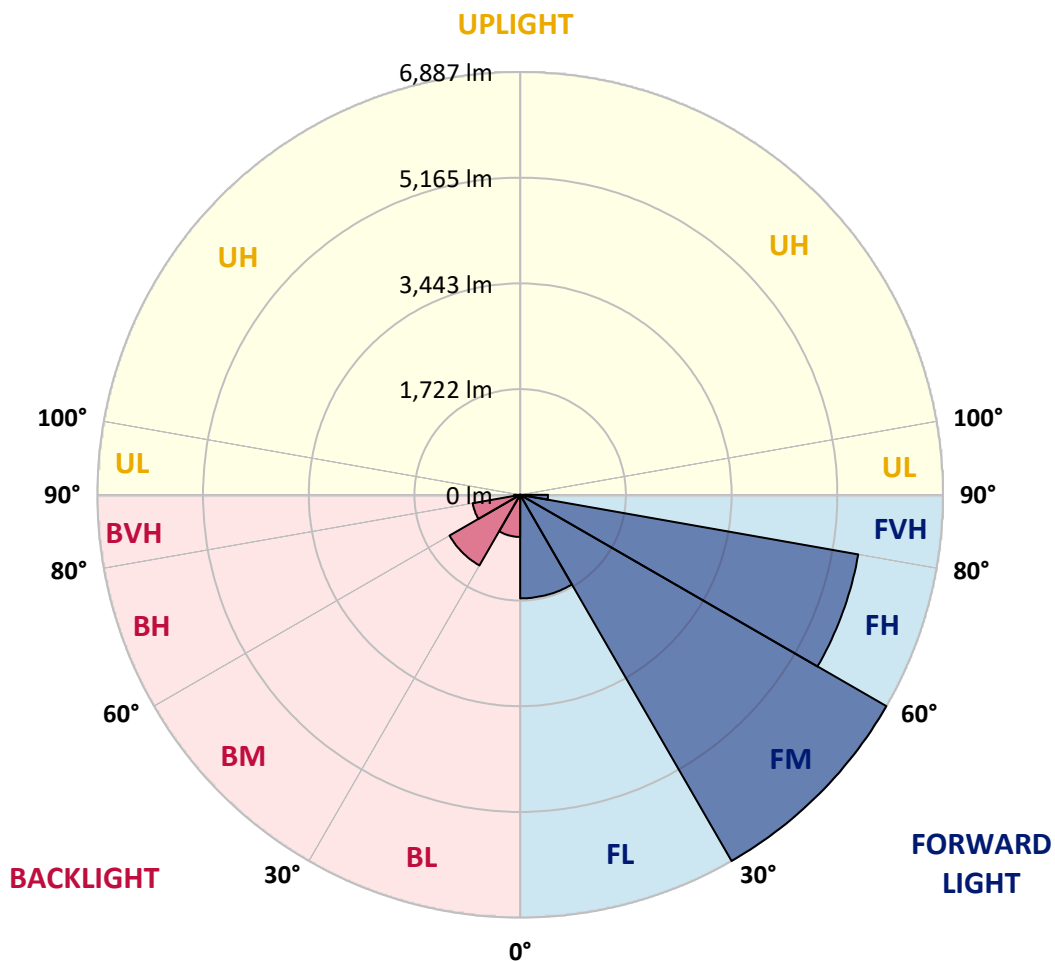
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1687.0	9.6			
FM (30°-60°)	6886.9	39.3			
FH (60°-80°)	5591.5	31.9			G3/7500
FVH (80°-90°)	454.5	2.6			G3/500
BL (0°-30°)	685.9	3.9	B2/1000		
BM (30°-60°)	1328.4	7.6	B2/2500		
BH (60°-80°)	786.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	98.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9
2.5°	6150.0	6248.2	6439.9	6583.4	6757.7	6798.1	6854.0	6799.1	6701.8	6572.8	6530.4
5°	5783.1	5993.0	6458.2	6867.5	7231.5	7401.0	7448.2	7308.5	7026.4	6655.6	6429.3
7.5°	5194.7	5493.2	6123.0	6725.9	7262.3	7579.1	7571.4	7246.9	6727.8	6124.0	5760.9
10°	4687.1	5028.0	5750.3	6424.5	6993.6	7300.8	7182.4	6767.3	6148.1	5452.7	5058.9
12.5°	4403.0	4737.2	5470.1	6147.1	6622.8	6728.8	6638.3	6231.9	5648.2	4945.2	4600.5
15°	4353.9	4720.8	5358.4	5909.2	6176.0	6083.5	5975.7	5793.7	5381.5	4781.5	4422.3
17.5°	4566.7	4971.2	5486.5	5743.6	5698.3	5537.5	5506.7	5526.9	5427.7	4963.5	4549.4
20°	4975.1	5460.5	5791.7	5665.6	5335.3	5113.8	5121.5	5430.6	5724.3	5424.8	4952.0
22.5°	5548.1	6101.8	6231.9	5707.0	5182.1	4919.2	4982.8	5483.6	6197.2	6099.0	5495.1
25°	6289.6	6794.3	6700.9	5857.2	5197.5	4943.3	4994.3	5666.5	6755.7	6773.1	6167.3
27.5°	7008.1	7476.1	7094.7	6056.6	5261.1	5000.1	5067.5	5954.5	7289.3	7505.0	6935.8
30°	7568.6	7894.1	7250.8	6238.6	5386.3	5110.9	5194.7	6228.0	7532.0	7999.0	7527.1
32.5°	8032.7	8266.8	7499.2	6463.9	5616.5	5285.2	5432.5	6560.2	7881.5	8469.0	8105.9
35°	8626.0	8692.4	7808.4	6715.3	5971.8	5588.5	5771.5	6885.8	8214.8	8943.8	8676.1
37.5°	9321.3	9235.6	8100.2	7059.1	6431.2	6063.3	6214.5	7243.0	8489.2	9482.1	9258.7
40°	10008.9	9802.8	8466.1	7592.6	7101.5	6622.8	6802.0	7624.4	8745.4	10021.4	9827.9
42.5°	10593.5	10288.2	8827.3	8179.1	7725.5	7240.2	7454.0	8008.7	8990.0	10481.8	10321.9
45°	11025.9	10646.4	9171.1	8742.5	8585.5	8060.7	8161.8	8448.8	9254.8	10866.0	10728.3
47.5°	11412.1	11006.6	9560.1	9310.7	9337.7	9127.7	8965.0	8961.1	9566.9	11180.0	11112.6
50°	11929.2	11506.4	9978.1	9896.2	10466.4	10326.7	9967.5	9559.2	9961.7	11536.3	11528.6
52.5°	12641.9	12298.1	10488.5	10527.0	11519.9	11611.4	11166.5	10277.6	10580.0	12190.2	12144.0
55°	13484.5	13284.2	11183.8	11252.2	12812.3	12877.8	12435.8	11176.1	11489.1	13136.9	13008.8
57.5°	14142.3	14099.9	11946.5	12122.8	13777.3	14072.0	13665.6	12216.2	12513.8	13934.3	13612.6
60°	14404.2	14609.4	12758.4	13001.1	14670.0	14996.5	14640.2	13130.1	13421.9	14264.6	13571.2
62.5°	14262.7	14721.1	13623.2	13603.0	14869.4	15220.9	14970.5	13638.6	14095.1	13923.7	12884.6
65°	13608.8	14319.5	14125.0	13447.9	14187.5	14216.4	14135.5	13411.3	14254.0	12846.0	11557.5
67.5°	12184.4	13207.2	13464.3	12118.9	12348.1	12160.3	12024.6	12167.1	13425.8	11231.0	9713.3
70°	9924.2	11463.1	11586.4	9693.0	9589.0	9462.9	9192.2	9975.2	11791.5	9204.8	7707.2
72.5°	7297.0	8914.9	9293.4	7109.2	6627.7	6653.7	6439.9	7517.5	9587.1	6837.6	5754.2
75°	4992.4	6455.3	7271.0	4960.6	4382.8	4393.4	4366.4	5326.6	7636.0	4756.5	4305.8
77.5°	3647.0	4612.0	5483.6	3335.0	3237.8	3178.0	3163.6	3727.0	5854.3	3453.5	3343.7
80°	2926.7	3407.2	3683.6	2311.3	2485.6	2480.8	2400.9	2562.7	3823.3	2526.1	2501.0
82.5°	2030.1	2618.5	2984.5	1811.5	1677.6	1649.7	1669.0	1908.8	2702.3	1726.7	1642.0
85°	1070.9	1739.3	2955.6	1605.4	995.8	794.5	988.1	1563.0	2341.2	914.9	801.3
87.5°	136.8	502.7	1956.9	640.4	392.9	211.9	469.0	880.2	1503.3	186.8	162.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9
2.5°	6421.6	6293.5	6125.9	5970.9	5810.0	5650.2	5441.2	5310.2	5219.7	5202.4	5163.8
5°	6265.6	5839.9	5518.2	5239.9	4987.6	4631.3	4433.8	4270.1	4182.5	4173.8	4152.6
7.5°	5546.2	4958.7	4524.4	4130.5	3773.2	3485.3	3167.4	3019.1	2958.5	2972.9	2987.4
10°	4797.9	4141.1	3642.2	3239.7	2924.8	2682.1	2426.9	2254.5	2135.1	2111.0	2106.2
12.5°	4250.9	3530.5	3046.1	2762.0	2518.4	2290.1	2019.5	1816.3	1661.2	1608.3	1572.6
15°	4019.7	3232.0	2724.4	2418.2	2149.5	1859.6	1608.3	1395.4	1252.9	1206.7	1180.7
17.5°	4068.9	3149.2	2502.9	2111.0	1767.2	1464.8	1147.9	965.9	880.2	858.1	858.1
20°	4327.0	3133.7	2320.0	1827.9	1399.3	1048.8	788.7	684.7	656.8	653.9	661.6
22.5°	4689.1	3187.7	2183.2	1582.3	1087.3	765.6	614.4	575.9	563.4	566.3	574.9
25°	5228.4	3369.7	2084.0	1363.7	853.3	626.9	548.0	524.9	519.1	526.8	537.4
27.5°	5867.8	3551.7	2022.4	1199.0	720.4	573.0	521.0	496.9	500.8	510.4	520.0
30°	6429.3	3701.0	1925.1	1081.5	678.9	575.9	521.0	488.3	484.4	486.3	489.2
32.5°	6932.9	3802.1	1811.5	969.8	585.5	511.4	486.3	481.5	460.3	452.6	453.6
35°	7367.3	3802.1	1743.1	904.3	524.9	453.6	413.1	389.1	378.5	379.4	390.0
37.5°	7786.2	3726.0	1709.4	867.7	492.1	431.4	395.8	374.6	360.2	357.3	359.2
40°	8156.0	3615.3	1670.9	852.3	467.1	418.0	384.3	366.9	351.5	346.7	347.7
42.5°	8452.6	3525.7	1628.5	832.1	451.7	408.3	376.5	361.1	343.8	339.0	338.0
45°	8773.3	3495.8	1572.6	791.6	459.4	409.3	374.6	358.3	340.9	335.1	333.2
47.5°	9196.1	3589.3	1514.9	743.5	475.7	414.1	377.5	358.3	340.0	335.1	333.2
50°	9728.7	3808.8	1441.7	673.2	459.4	427.6	376.5	355.4	340.0	335.1	331.3
52.5°	10412.4	4105.5	1345.4	592.3	449.7	460.3	374.6	349.6	335.1	328.4	321.7
55°	11243.5	4348.1	1230.8	525.8	427.6	451.7	371.7	342.8	327.4	317.8	312.0
57.5°	11852.2	4435.8	1083.4	482.5	396.8	437.2	367.9	334.2	317.8	310.1	302.4
60°	11731.8	4266.3	959.2	455.5	378.5	394.8	365.0	326.5	309.1	303.4	296.6
62.5°	10767.8	3823.3	879.3	443.0	366.9	360.2	367.9	318.8	301.4	295.7	293.7
65°	9322.3	3169.4	847.5	440.1	357.3	340.0	341.9	310.1	292.8	287.9	286.0
67.5°	7689.9	2557.8	819.5	449.7	344.8	325.5	315.9	298.5	284.1	279.3	275.4
70°	6064.3	2127.4	807.0	444.0	329.4	311.1	300.5	286.0	273.5	268.7	265.8
72.5°	4883.6	1797.0	800.3	438.2	309.1	291.8	282.2	269.7	256.2	254.2	251.4
75°	4132.4	1412.8	732.9	419.9	286.0	268.7	261.9	250.4	236.9	236.9	235.0
77.5°	3187.7	1021.8	609.6	371.7	261.9	242.7	236.9	228.2	212.8	215.7	214.8
80°	2354.6	666.4	476.7	308.2	232.1	213.8	210.9	202.2	185.9	189.7	189.7
82.5°	1613.1	437.2	342.8	252.3	198.4	181.1	181.1	172.4	154.1	156.0	161.8
85°	809.9	300.5	256.2	195.5	154.1	145.4	145.4	138.7	120.4	121.3	129.0
87.5°	246.5	181.1	169.5	139.6	110.7	108.8	104.0	99.2	87.6	86.7	91.5
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°	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9
2.5°	5105.1	5050.2	4983.7	4837.4	4788.2	4785.4	4829.7	4783.4	4872.0	4834.5	4875.9
5°	4117.0	4063.1	3988.9	3802.1	3688.5	3611.4	3574.8	3467.0	3545.0	3488.1	3535.3
7.5°	3027.8	3040.3	2991.2	2881.4	2633.9	2509.7	2436.5	2371.0	2427.8	2422.1	2512.6
10°	2128.3	2162.0	2127.4	2016.6	1816.3	1747.9	1761.4	1787.4	1861.6	1900.1	2039.7
12.5°	1532.2	1530.3	1508.1	1408.9	1277.0	1284.7	1339.6	1384.9	1453.2	1493.7	1636.2
15°	1144.1	1126.8	1117.1	1036.2	961.1	977.5	1004.5	1009.3	1052.6	1076.7	1192.2
17.5°	864.8	873.5	884.1	826.3	769.5	758.9	737.7	711.7	724.2	729.0	786.8
20°	686.6	721.3	747.3	706.9	649.1	618.3	591.3	574.0	574.0	573.0	589.4
22.5°	600.0	625.0	652.9	625.0	573.0	546.0	530.6	517.2	515.2	515.2	530.6
25°	552.8	571.1	598.0	578.8	540.3	520.0	505.6	488.3	481.5	479.6	490.2
27.5°	529.7	537.4	550.9	533.5	500.8	491.2	487.3	471.9	463.2	458.4	469.0
30°	490.2	488.3	489.2	471.9	445.9	444.9	451.7	454.6	451.7	450.7	467.1
32.5°	453.6	449.7	448.8	433.4	409.3	403.5	409.3	415.1	421.8	431.4	450.7
35°	407.4	417.0	422.8	409.3	380.4	363.1	356.3	345.7	340.0	340.0	362.1
37.5°	370.8	392.9	401.6	389.1	357.3	333.2	321.7	319.7	320.7	324.5	345.7
40°	358.3	374.6	382.3	369.8	338.0	315.9	309.1	307.2	309.1	314.9	336.1
42.5°	350.5	362.1	361.1	345.7	319.7	304.3	300.5	298.5	300.5	306.2	329.4
45°	343.8	351.5	343.8	325.5	301.4	293.7	294.7	293.7	295.7	301.4	323.6
47.5°	338.0	340.9	331.3	313.0	287.9	286.0	289.9	292.8	294.7	299.5	322.6
50°	329.4	329.4	320.7	301.4	276.4	277.4	282.2	288.9	289.9	295.7	314.0
52.5°	318.8	317.8	312.0	293.7	266.8	269.7	269.7	277.4	279.3	286.0	305.3
55°	310.1	308.2	305.3	287.9	258.1	262.9	260.0	262.9	267.7	274.5	295.7
57.5°	302.4	298.5	298.5	283.1	251.4	253.3	246.5	250.4	256.2	261.9	284.1
60°	294.7	290.8	292.8	276.4	240.8	238.8	235.9	243.6	245.6	252.3	274.5
62.5°	286.0	283.1	284.1	268.7	233.1	228.2	228.2	235.0	235.9	245.6	266.8
65°	279.3	275.4	274.5	261.0	224.4	218.6	221.5	224.4	226.3	235.9	256.2
67.5°	272.5	264.8	264.8	254.2	214.8	209.0	214.8	213.8	216.7	225.4	241.7
70°	263.9	253.3	254.2	249.4	205.1	198.4	203.2	202.2	204.2	209.9	226.3
72.5°	250.4	241.7	243.6	241.7	195.5	185.9	187.8	187.8	187.8	192.6	209.9
75°	233.1	226.3	232.1	236.9	183.9	170.5	172.4	172.4	169.5	172.4	193.6
77.5°	211.9	208.0	227.3	220.5	170.5	154.1	154.1	152.2	146.4	150.2	173.3
80°	188.8	185.9	209.9	184.9	155.0	133.9	131.9	127.1	121.3	124.2	147.3
82.5°	164.7	161.8	176.2	141.6	133.9	110.7	105.9	97.3	91.5	94.4	115.6
85°	134.8	134.8	135.8	106.9	102.1	84.7	79.0	67.4	60.7	62.6	82.8
87.5°	96.3	99.2	91.5	73.2	60.7	47.2	43.3	36.6	30.8	35.6	43.3
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-03-LED-E1-SLL-7050-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9
2.5°	5087.8	5193.7	5314.1	5468.2	5600.1	5816.8	6024.8	6150.0
5°	3804.0	3980.3	4199.8	4482.0	4744.9	5139.8	5531.7	5783.1
7.5°	2722.5	2911.3	3148.2	3500.7	3872.4	4376.1	4894.2	5194.7
10°	2252.6	2446.1	2645.5	2883.4	3187.7	3735.6	4348.1	4687.1
12.5°	1863.5	2070.5	2285.3	2535.7	2817.9	3307.1	4013.0	4403.0
15°	1426.3	1657.4	1910.7	2227.5	2581.0	3146.3	3930.2	4353.9
17.5°	977.5	1235.6	1546.6	1937.6	2370.0	3094.3	4078.5	4566.7
20°	673.2	861.0	1193.2	1651.6	2171.7	3087.5	4363.5	4975.1
22.5°	563.4	647.2	889.9	1388.7	2022.4	3170.3	4805.6	5548.1
25°	521.0	571.1	710.7	1160.5	1913.6	3361.0	5414.2	6289.6
27.5°	496.0	541.2	645.2	1011.2	1827.9	3582.5	6006.5	7008.1
30°	505.6	551.8	626.9	935.1	1711.3	3767.4	6532.3	7568.6
32.5°	455.5	475.7	537.4	867.7	1627.5	3922.5	6992.7	8032.7
35°	388.1	423.7	479.6	835.9	1629.5	4026.5	7494.4	8626.0
37.5°	369.8	405.4	445.9	824.4	1651.6	4137.2	8070.3	9321.3
40°	358.3	391.0	425.7	817.6	1672.8	4238.4	8634.6	10008.9
42.5°	350.5	380.4	423.7	794.5	1683.4	4328.9	9098.8	10593.5
45°	349.6	380.4	431.4	771.4	1699.8	4426.1	9487.9	11025.9
47.5°	350.5	392.9	417.0	743.5	1699.8	4588.9	9944.4	11412.1
50°	346.7	414.1	401.6	704.0	1660.3	4897.1	10570.4	11929.2
52.5°	344.8	411.2	371.7	643.3	1591.9	5386.3	11372.6	12641.9
55°	340.0	396.8	350.5	552.8	1512.0	5919.8	12231.6	13484.5
57.5°	335.1	351.5	339.0	473.8	1388.7	6295.4	12822.9	14142.3
60°	375.6	307.2	329.4	435.3	1224.0	6398.5	12799.8	14404.2
62.5°	347.7	287.9	316.8	426.6	1108.5	6109.5	12208.5	14262.7
65°	272.5	275.4	304.3	451.7	1077.6	5343.9	11160.7	13608.8
67.5°	249.4	262.9	291.8	483.4	1080.5	4278.8	9594.8	12184.4
70°	235.0	249.4	277.4	499.8	1088.2	3189.6	7585.9	9924.2
72.5°	218.6	231.1	261.0	502.7	1038.2	2317.1	5846.6	7297.0
75°	199.3	210.9	237.9	438.2	860.0	1607.3	4472.4	4992.4
77.5°	177.2	185.9	209.0	338.0	638.5	1028.5	3357.2	3647.0
80°	151.2	156.0	175.3	247.5	437.2	643.3	2656.1	2926.7
82.5°	121.3	123.3	135.8	185.9	284.1	413.1	1778.7	2030.1
85°	85.7	85.7	93.4	134.8	193.6	261.9	965.9	1070.9
87.5°	40.4	41.4	41.4	74.2	101.1	132.9	222.5	136.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)