

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: P192073

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192073
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-05-LED-E1-SLL-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA 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: 17226 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

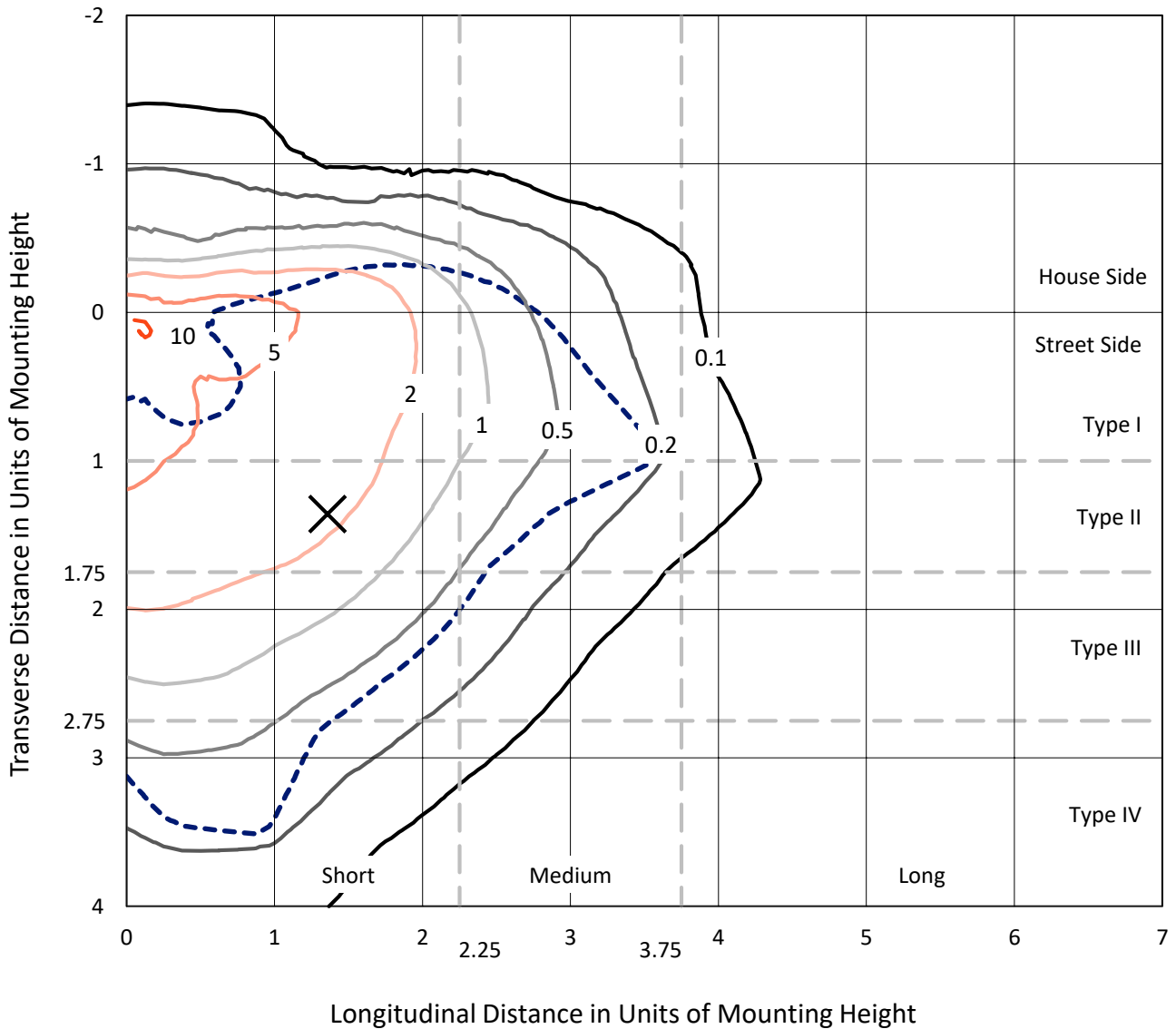
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

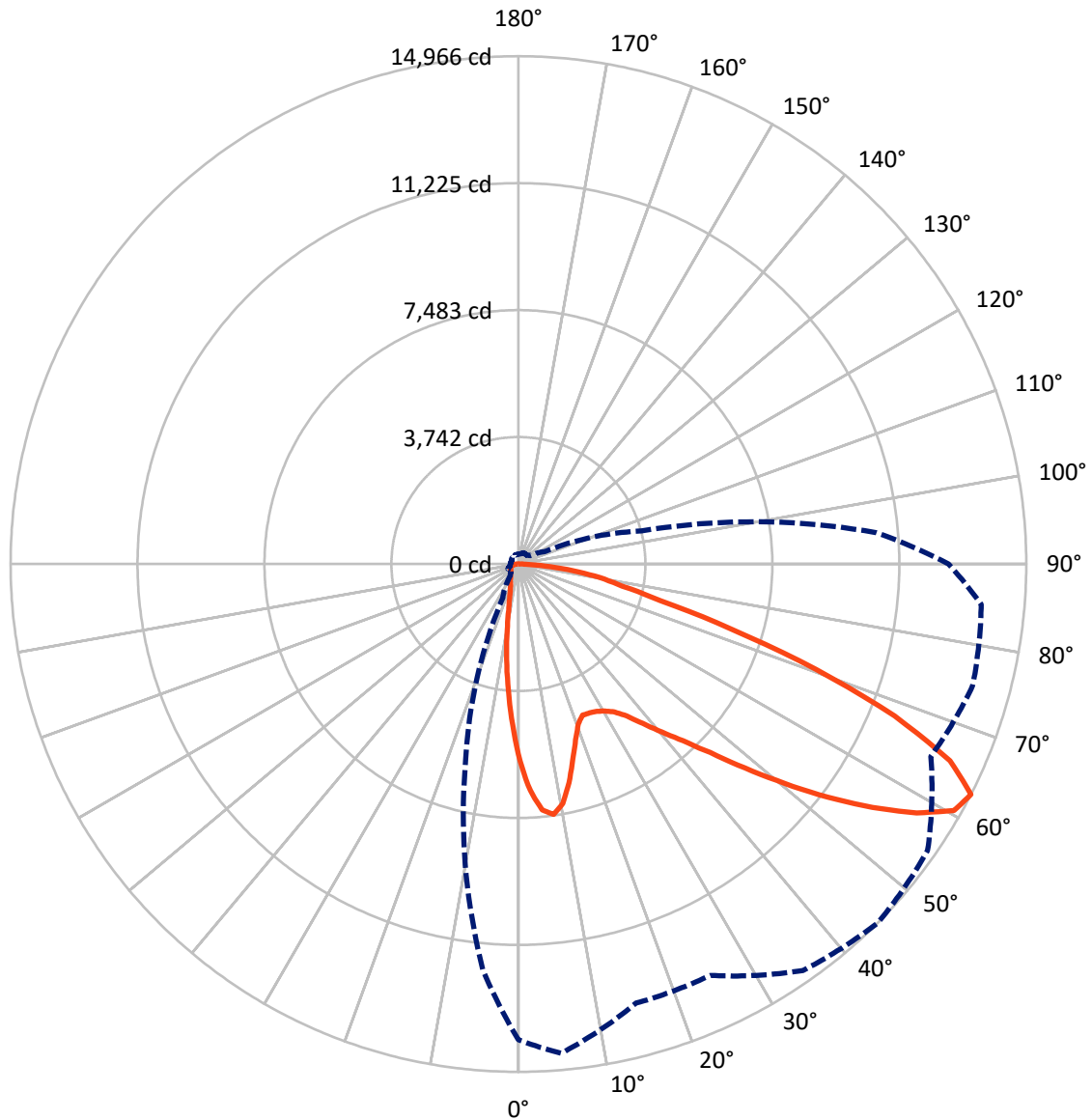
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	2850.7	0.0	2850.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14375.3	0.0	14375.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	17226.0	0.0	17226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.7	2.5
10°-20°	776.9	4.5
20°-30°	1132.7	6.6
30°-40°	1744.5	10.1
40°-50°	2567.5	14.9
50°-60°	3765.9	21.9
60°-70°	4209.7	24.4
70°-80°	2061.0	12.0
80°-90°	544.2	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°	17226.0	100.0
0°-180°	17226.0	100.0

Coefficient of Utilization



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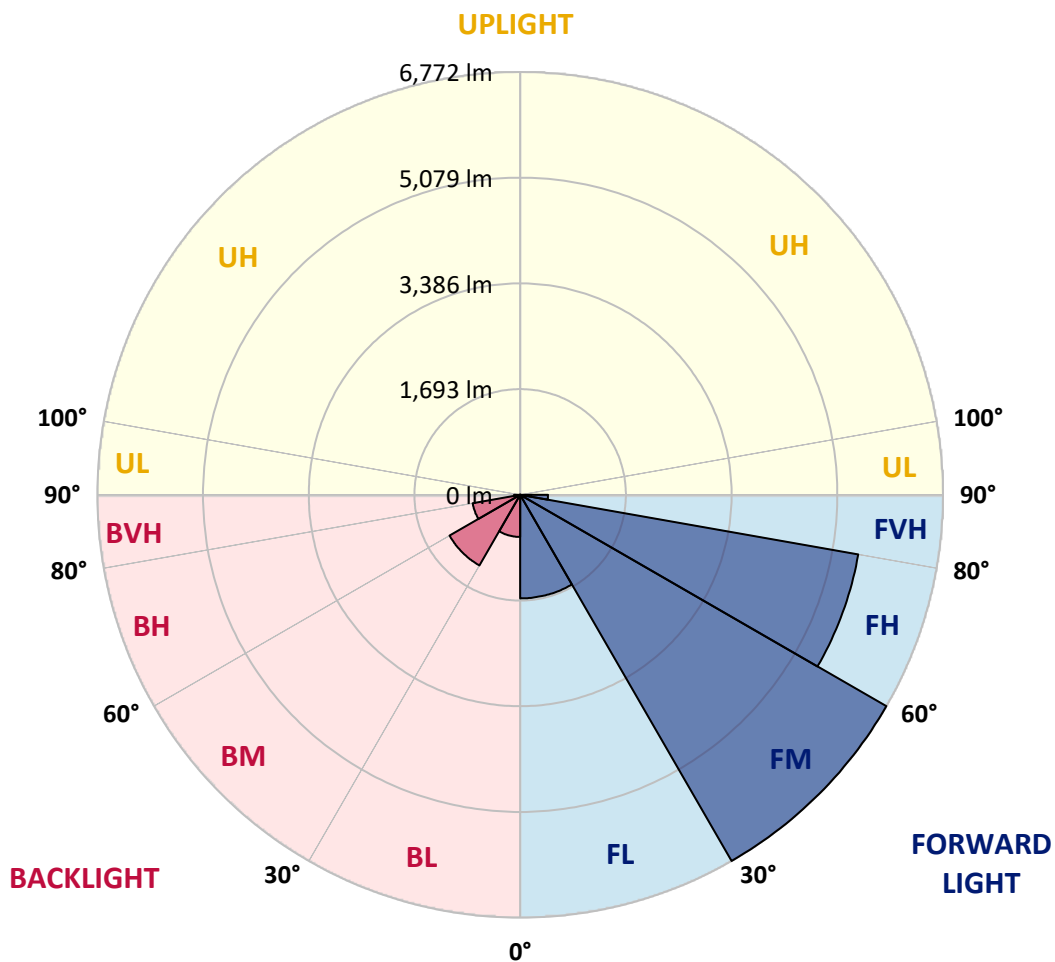
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1658.8	9.6			
FM	(30°-60°)	6771.7	39.3			
FH	(60°-80°)	5497.9	31.9			G3/7500
FVH	(80°-90°)	446.9	2.6			G3/500
BL	(0°-30°)	674.4	3.9	B2/1000		
BM	(30°-60°)	1306.2	7.6	B2/2500		
BH	(60°-80°)	772.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	97.3	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°	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9
2.5°	6047.1	6143.7	6332.2	6473.3	6644.7	6684.4	6739.3	6685.4	6589.7	6462.8	6421.2
5°	5686.4	5892.8	6350.2	6752.6	7110.5	7277.2	7323.6	7186.3	6908.8	6544.3	6321.7
7.5°	5107.8	5401.3	6020.6	6613.4	7140.8	7452.4	7444.8	7125.7	6615.3	6021.6	5664.6
10°	4608.7	4944.0	5654.2	6317.0	6876.7	7178.7	7062.3	6654.1	6045.2	5361.6	4974.3
12.5°	4329.4	4658.0	5378.6	6044.3	6512.1	6616.2	6527.2	6127.6	5553.8	4862.5	4523.5
15°	4281.1	4641.9	5268.8	5810.4	6072.7	5981.8	5875.7	5696.8	5291.5	4701.5	4348.3
17.5°	4490.4	4888.1	5394.7	5647.5	5603.0	5444.9	5414.6	5434.5	5336.9	4880.5	4473.3
20°	4891.9	5369.1	5694.9	5570.8	5246.0	5028.2	5035.8	5339.8	5628.6	5334.1	4869.1
22.5°	5455.3	5999.8	6127.6	5611.5	5095.5	4837.0	4899.4	5391.9	6093.5	5996.9	5403.2
25°	6184.4	6680.6	6588.8	5759.3	5110.6	4860.6	4910.8	5571.8	6642.8	6659.8	6064.2
27.5°	6890.9	7351.1	6976.1	5955.3	5173.1	4916.5	4982.8	5854.9	7167.4	7379.5	6819.8
30°	7442.0	7762.0	7129.5	6134.3	5296.2	5025.4	5107.8	6123.8	7406.0	7865.3	7401.3
32.5°	7898.4	8128.5	7373.8	6355.8	5522.5	5196.8	5341.7	6450.5	7749.7	8327.4	7970.4
35°	8481.7	8547.0	7677.8	6603.0	5872.0	5495.1	5675.0	6770.6	8077.4	8794.2	8530.9
37.5°	9165.4	9081.1	7964.7	6941.0	6323.6	5961.9	6110.6	7121.9	8347.2	9323.5	9103.8
40°	9841.5	9638.9	8324.5	7465.6	6982.7	6512.1	6688.2	7496.9	8599.1	9853.8	9663.5
42.5°	10416.3	10116.1	8679.6	8042.3	7596.3	7119.1	7329.3	7874.7	8839.7	10306.5	10149.3
45°	10841.5	10468.4	9017.7	8596.3	8441.9	7925.9	8025.3	8307.5	9100.1	10684.3	10548.9
47.5°	11221.2	10822.5	9400.2	9155.0	9181.5	8975.1	8815.0	8811.2	9406.9	10993.0	10926.7
50°	11729.7	11314.0	9811.2	9730.7	10291.3	10154.0	9800.8	9399.3	9795.1	11343.4	11335.8
52.5°	12430.4	12092.4	10313.1	10351.0	11327.3	11417.2	10979.7	10105.7	10403.0	11986.3	11940.9
55°	13259.0	13062.0	10996.8	11064.0	12598.0	12662.4	12227.8	10989.2	11297.0	12917.2	12791.2
57.5°	13905.8	13864.1	11746.7	11920.0	13546.9	13836.6	13437.0	12011.9	12304.5	13701.2	13384.9
60°	14163.3	14365.0	12545.0	12783.6	14424.7	14745.7	14395.3	12910.5	13197.5	14026.0	13344.2
62.5°	14024.1	14474.9	13395.4	13375.5	14620.7	14966.3	14720.1	13410.5	13859.4	13690.8	12669.1
65°	13381.2	14080.0	13888.7	13223.0	13950.3	13978.7	13899.1	13187.0	14015.6	12631.2	11364.2
67.5°	11980.6	12986.3	13239.1	11916.2	12141.6	11957.0	11823.4	11963.6	13201.2	11043.2	9550.8
70°	9758.2	11271.4	11392.6	9530.9	9428.6	9304.6	9038.5	9808.4	11594.3	9050.8	7578.3
72.5°	7174.9	8765.8	9137.9	6990.3	6516.8	6542.4	6332.2	7391.8	9426.8	6723.2	5657.9
75°	4908.9	6347.3	7149.4	4877.7	4309.5	4319.9	4293.4	5237.5	7508.3	4676.9	4233.8
77.5°	3586.0	4534.9	5391.9	3279.2	3183.6	3124.9	3110.7	3664.6	5756.4	3395.7	3287.8
80°	2877.7	3350.3	3622.0	2272.6	2444.0	2439.3	2360.7	2519.8	3759.3	2483.8	2459.2
82.5°	1996.1	2574.7	2934.6	1781.2	1649.6	1622.1	1641.0	1876.8	2657.1	1697.9	1614.5
85°	1053.0	1710.2	2906.1	1578.5	979.1	781.2	971.6	1536.9	2302.0	899.6	787.9
87.5°	134.5	494.3	1924.2	629.7	386.4	208.3	461.2	865.5	1478.2	183.7	160.0
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°	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9
2.5°	6314.2	6188.2	6023.5	5871.0	5712.9	5555.7	5350.2	5221.4	5132.4	5115.4	5077.5
5°	6160.8	5742.2	5425.9	5152.3	4904.2	4553.8	4359.7	4198.7	4112.5	4104.0	4083.2
7.5°	5453.4	4875.8	4448.7	4061.4	3710.1	3427.0	3114.5	2968.6	2909.0	2923.2	2937.4
10°	4717.6	4071.8	3581.3	3185.5	2875.8	2637.2	2386.3	2216.8	2099.4	2075.7	2070.9
12.5°	4179.8	3471.5	2995.2	2715.8	2476.2	2251.8	1985.7	1785.9	1633.5	1581.4	1546.3
15°	3952.5	3177.9	2678.9	2377.8	2113.6	1828.5	1581.4	1372.1	1232.0	1186.5	1160.9
17.5°	4000.8	3096.5	2461.1	2075.7	1737.6	1440.3	1128.7	949.8	865.5	843.7	843.7
20°	4254.6	3081.3	2281.2	1797.3	1375.9	1031.2	775.5	673.3	645.8	643.0	650.5
22.5°	4610.6	3134.4	2146.7	1555.8	1069.1	752.8	604.1	566.3	554.0	556.8	565.3
25°	5140.9	3313.3	2049.2	1340.9	839.0	616.5	538.8	516.1	510.4	518.0	528.4
27.5°	5769.7	3492.3	1988.6	1178.9	708.3	563.4	512.3	488.6	492.4	501.9	511.3
30°	6321.7	3639.1	1892.9	1063.4	667.6	566.3	512.3	480.1	476.3	478.2	481.0
32.5°	6817.0	3738.5	1781.2	953.6	575.7	502.8	478.2	473.5	452.6	445.1	446.0
35°	7244.1	3738.5	1714.0	889.2	516.1	446.0	406.2	382.6	372.1	373.1	383.5
37.5°	7656.0	3663.7	1680.8	853.2	483.9	424.2	389.2	368.4	354.2	351.3	353.2
40°	8019.6	3554.8	1642.9	838.0	459.3	411.0	377.8	360.8	345.6	340.9	341.8
42.5°	8311.3	3466.7	1601.3	818.2	444.1	401.5	370.3	355.1	338.1	333.3	332.4
45°	8626.6	3437.4	1546.3	778.4	451.7	402.4	368.4	352.3	335.2	329.5	327.6
47.5°	9042.3	3529.2	1489.5	731.0	467.8	407.2	371.2	352.3	334.3	329.5	327.6
50°	9566.0	3745.1	1417.6	661.9	451.7	420.4	370.3	349.4	334.3	329.5	325.7
52.5°	10238.3	4036.8	1322.9	582.4	442.2	452.6	368.4	343.7	329.5	322.9	316.3
55°	11055.5	4275.4	1210.2	517.0	420.4	444.1	365.5	337.1	322.0	312.5	306.8
57.5°	11653.9	4361.6	1065.3	474.4	390.1	429.9	361.7	328.6	312.5	304.9	297.3
60°	11535.6	4194.9	943.1	447.9	372.1	388.2	358.9	321.0	304.0	298.3	291.7
62.5°	10587.7	3759.3	864.6	435.6	360.8	354.2	361.7	313.4	296.4	290.7	288.8
65°	9166.3	3116.4	833.3	432.7	351.3	334.3	336.2	304.9	287.9	283.1	281.2
67.5°	7561.3	2515.1	805.8	442.2	339.0	320.1	310.6	293.6	279.3	274.6	270.8
70°	5962.9	2091.8	793.5	436.5	323.9	305.9	295.4	281.2	268.9	264.2	261.4
72.5°	4801.9	1767.0	786.9	430.9	304.0	286.9	277.5	265.1	251.9	250.0	247.2
75°	4063.3	1389.2	720.6	412.9	281.2	264.2	257.6	246.2	232.9	232.9	231.1
77.5°	3134.4	1004.7	599.4	365.5	257.6	238.6	232.9	224.4	209.3	212.1	211.2
80°	2315.3	655.3	468.7	303.0	228.2	210.2	207.4	198.9	182.8	186.5	186.5
82.5°	1586.1	429.9	337.1	248.1	195.1	178.0	178.0	169.5	151.5	153.4	159.1
85°	796.4	295.4	251.9	192.2	151.5	143.0	143.0	136.4	118.4	119.3	126.9
87.5°	242.4	178.0	166.7	137.3	108.9	107.0	102.3	97.5	86.2	85.2	90.0
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°	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9
2.5°	5019.7	4965.7	4900.4	4756.5	4708.2	4705.3	4748.9	4703.4	4790.6	4753.6	4794.3
5°	4048.2	3995.1	3922.2	3738.5	3626.8	3551.0	3515.0	3409.0	3485.7	3429.8	3476.2
7.5°	2977.2	2989.5	2941.2	2833.2	2589.9	2467.7	2395.7	2331.4	2387.2	2381.5	2470.6
10°	2092.7	2125.9	2091.8	1982.9	1785.9	1718.7	1731.9	1757.5	1830.4	1868.3	2005.6
12.5°	1506.6	1504.7	1482.9	1385.4	1255.6	1263.2	1317.2	1361.7	1428.9	1468.7	1608.8
15°	1125.0	1107.9	1098.4	1018.9	945.0	961.1	987.7	992.4	1035.0	1058.7	1172.3
17.5°	850.3	858.9	869.3	812.5	756.6	746.2	725.4	699.8	712.1	716.8	773.6
20°	675.2	709.3	734.8	695.1	638.2	607.9	581.4	564.4	564.4	563.4	579.5
22.5°	589.9	614.6	642.0	614.6	563.4	536.9	521.8	508.5	506.6	506.6	521.8
25°	543.5	561.5	588.0	569.1	531.2	511.3	497.1	480.1	473.5	471.6	482.0
27.5°	520.8	528.4	541.6	524.6	492.4	482.9	479.1	464.0	455.5	450.7	461.2
30°	482.0	480.1	481.0	464.0	438.4	437.5	444.1	447.0	444.1	443.2	459.3
32.5°	446.0	442.2	441.3	426.1	402.4	396.8	402.4	408.1	414.8	424.2	443.2
35°	400.6	410.0	415.7	402.4	374.0	357.0	350.4	340.0	334.3	334.3	356.0
37.5°	364.6	386.4	394.9	382.6	351.3	327.6	316.3	314.4	315.3	319.1	340.0
40°	352.3	368.4	375.9	363.6	332.4	310.6	304.0	302.1	304.0	309.6	330.5
42.5°	344.7	356.0	355.1	340.0	314.4	299.2	295.4	293.6	295.4	301.1	323.9
45°	338.1	345.6	338.1	320.1	296.4	288.8	289.8	288.8	290.7	296.4	318.2
47.5°	332.4	335.2	325.7	307.8	283.1	281.2	285.0	287.9	289.8	294.5	317.2
50°	323.9	323.9	315.3	296.4	271.8	272.7	277.5	284.1	285.0	290.7	308.7
52.5°	313.4	312.5	306.8	288.8	262.3	265.1	265.1	272.7	274.6	281.2	300.2
55°	304.9	303.0	300.2	283.1	253.8	258.5	255.7	258.5	263.2	269.9	290.7
57.5°	297.3	293.6	293.6	278.4	247.2	249.0	242.4	246.2	251.9	257.6	279.3
60°	289.8	286.0	287.9	271.8	236.7	234.8	232.0	239.6	241.5	248.1	269.9
62.5°	281.2	278.4	279.3	264.2	229.2	224.4	224.4	231.1	232.0	241.5	262.3
65°	274.6	270.8	269.9	256.6	220.6	215.0	217.8	220.6	222.5	232.0	251.9
67.5°	268.0	260.4	260.4	250.0	211.2	205.5	211.2	210.2	213.1	221.6	237.7
70°	259.5	249.0	250.0	245.3	201.7	195.1	199.8	198.9	200.8	206.4	222.5
72.5°	246.2	237.7	239.6	237.7	192.2	182.8	184.7	184.7	184.7	189.4	206.4
75°	229.2	222.5	228.2	232.9	180.9	167.6	169.5	169.5	166.7	169.5	190.3
77.5°	208.3	204.5	223.5	216.8	167.6	151.5	151.5	149.6	143.9	147.7	170.4
80°	185.6	182.8	206.4	181.8	152.5	131.6	129.7	125.0	119.3	122.2	144.9
82.5°	161.9	159.1	173.3	139.2	131.6	108.9	104.2	95.6	90.0	92.8	113.6
85°	132.6	132.6	133.5	105.1	100.4	83.3	77.6	66.3	59.7	61.6	81.4
87.5°	94.7	97.5	90.0	72.0	59.7	46.4	42.6	36.0	30.3	35.0	42.6
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-05-LED-E1-SLL-7050-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9
2.5°	5002.7	5106.8	5225.2	5376.7	5506.4	5719.5	5924.0	6047.1
5°	3740.4	3913.7	4129.6	4407.0	4665.6	5053.8	5439.2	5686.4
7.5°	2677.0	2862.6	3095.5	3442.1	3807.6	4302.9	4812.3	5107.8
10°	2214.9	2405.2	2601.2	2835.1	3134.4	3673.2	4275.4	4608.7
12.5°	1832.3	2035.9	2247.1	2493.3	2770.7	3251.8	3945.9	4329.4
15°	1402.4	1629.7	1878.7	2190.3	2537.8	3093.6	3864.4	4281.1
17.5°	961.1	1214.9	1520.8	1905.2	2330.4	3042.5	4010.3	4490.4
20°	661.9	846.6	1173.3	1624.0	2135.3	3035.9	4290.6	4891.9
22.5°	554.0	636.3	875.0	1365.5	1988.6	3117.3	4725.2	5455.3
25°	512.3	561.5	698.8	1141.1	1881.6	3304.8	5323.7	6184.4
27.5°	487.7	532.2	634.4	994.3	1797.3	3522.6	5906.0	6890.9
30°	497.1	542.6	616.5	919.5	1682.7	3704.4	6423.1	7442.0
32.5°	447.9	467.8	528.4	853.2	1600.3	3856.9	6875.7	7898.4
35°	381.6	416.7	471.6	821.9	1602.2	3959.1	7369.1	8481.7
37.5°	363.6	398.7	438.4	810.6	1624.0	4068.0	7935.3	9165.4
40°	352.3	384.5	418.5	803.9	1644.8	4167.5	8490.2	9841.5
42.5°	344.7	374.0	416.7	781.2	1655.2	4256.5	8946.7	10416.3
45°	343.7	374.0	424.2	758.5	1671.3	4352.1	9329.2	10841.5
47.5°	344.7	386.4	410.0	731.0	1671.3	4512.2	9778.1	11221.2
50°	340.9	407.2	394.9	692.2	1632.5	4815.2	10393.6	11729.7
52.5°	339.0	404.3	365.5	632.6	1565.3	5296.2	11182.4	12430.4
55°	334.3	390.1	344.7	543.5	1486.7	5820.8	12027.0	13259.0
57.5°	329.5	345.6	333.3	465.9	1365.5	6190.1	12608.5	13905.8
60°	369.3	302.1	323.9	428.0	1203.6	6291.4	12585.7	14163.3
62.5°	341.8	283.1	311.5	419.5	1089.9	6007.4	12004.3	14024.1
65°	268.0	270.8	299.2	444.1	1059.6	5254.5	10974.0	13381.2
67.5°	245.3	258.5	286.9	475.4	1062.5	4207.2	9434.3	11980.6
70°	231.1	245.3	272.7	491.5	1070.0	3136.3	7459.0	9758.2
72.5°	215.0	227.3	256.6	494.3	1020.8	2278.3	5748.9	7174.9
75°	196.0	207.4	233.9	430.9	845.6	1580.4	4397.6	4908.9
77.5°	174.2	182.8	205.5	332.4	627.8	1011.3	3301.0	3586.0
80°	148.7	153.4	172.3	243.4	429.9	632.6	2611.7	2877.7
82.5°	119.3	121.2	133.5	182.8	279.3	406.2	1749.0	1996.1
85°	84.3	84.3	91.9	132.6	190.3	257.6	949.8	1053.0
87.5°	39.8	40.7	40.7	72.9	99.4	130.7	218.7	134.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)