

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: P191273

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191273
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 17621.4 lumens
Efficiency: N/A
Efficacy: 108.8 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

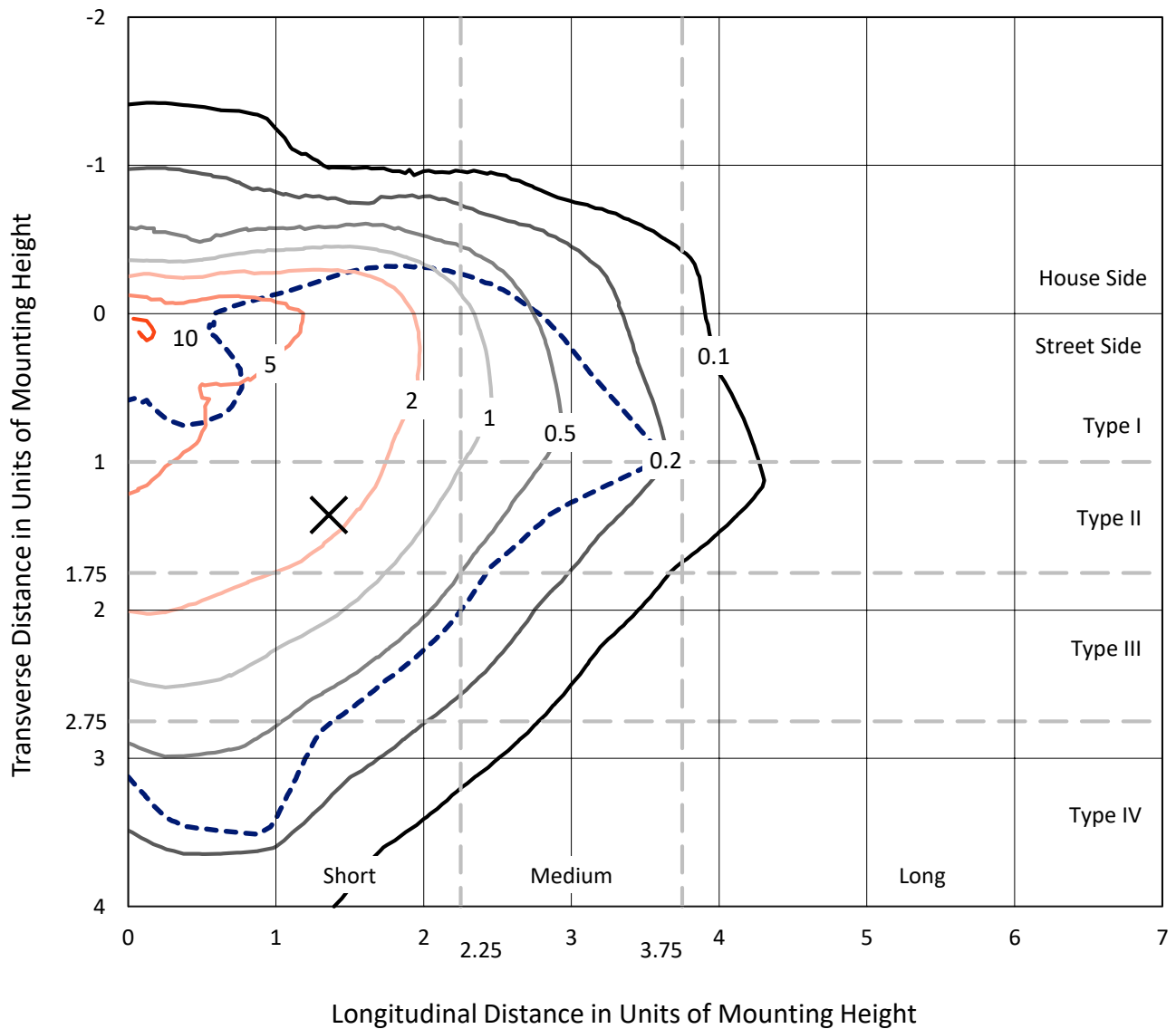
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

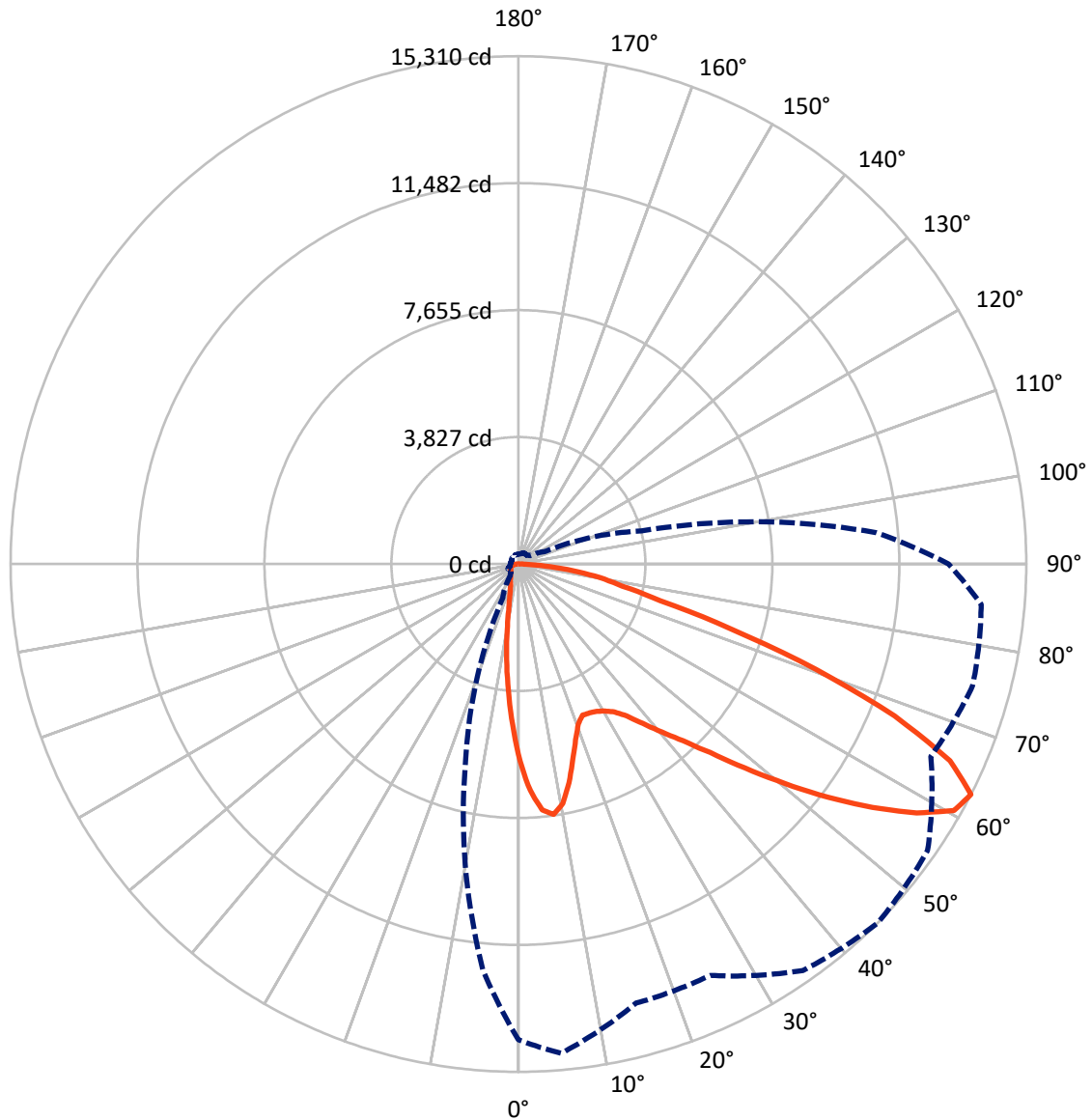
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	2916.1	0.0	2916.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14705.3	0.0	14705.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	17621.4	0.0	17621.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.4	2.5
10°-20°	794.7	4.5
20°-30°	1158.7	6.6
30°-40°	1784.5	10.1
40°-50°	2626.4	14.9
50°-60°	3852.3	21.9
60°-70°	4306.3	24.4
70°-80°	2108.3	12.0
80°-90°	556.7	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°	17621.4	100.0
0°-180°	17621.4	100.0



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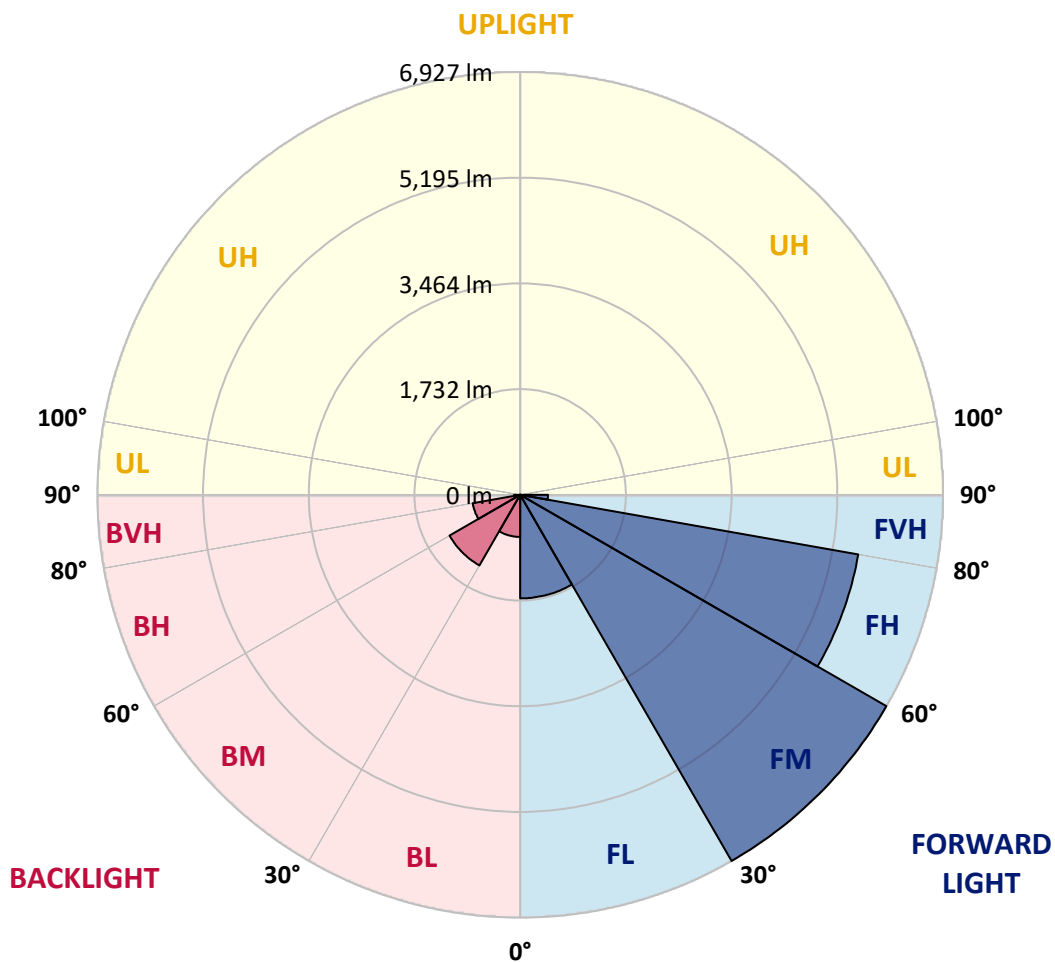
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1696.9	9.6			
FM (30°-60°)	6927.1	39.3			
FH (60°-80°)	5624.1	31.9			G3/7500
FVH (80°-90°)	457.1	2.6			G3/500
BL (0°-30°)	689.9	3.9	B2/1000		
BM (30°-60°)	1336.1	7.6	B2/2500		
BH (60°-80°)	790.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	99.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5
2.5°	6185.9	6284.7	6477.5	6621.9	6797.2	6837.8	6894.0	6838.8	6740.9	6611.1	6568.6
5°	5816.9	6028.0	6495.9	6907.6	7273.7	7444.2	7491.7	7351.2	7067.4	6694.5	6466.8
7.5°	5225.0	5525.3	6158.8	6765.2	7304.7	7623.4	7615.7	7289.2	6767.1	6159.8	5794.6
10°	4714.5	5057.5	5784.0	6462.0	7034.5	7343.5	7224.4	6806.8	6183.9	5484.7	5088.5
12.5°	4428.8	4764.9	5502.0	6183.0	6661.6	6768.0	6677.0	6268.2	5681.3	4974.1	4627.3
15°	4379.4	4748.4	5389.7	5943.8	6212.1	6119.1	6010.6	5827.5	5412.9	4809.4	4448.1
17.5°	4593.5	5000.3	5518.5	5777.1	5731.6	5569.9	5538.9	5559.2	5459.4	4992.5	4576.0
20°	5004.2	5492.3	5825.6	5698.7	5366.4	5143.6	5151.4	5462.4	5757.8	5456.5	4980.8
22.5°	5580.5	6137.5	6268.2	5740.3	5212.4	4948.0	5011.8	5515.6	6233.4	6134.5	5527.2
25°	6326.3	6833.9	6740.0	5891.5	5227.9	4972.2	5023.5	5699.7	6795.3	6812.6	6203.4
27.5°	7049.1	7519.8	7136.2	6092.0	5291.8	5029.3	5097.2	5989.3	7331.9	7548.9	6976.3
30°	7612.8	7940.1	7293.1	6275.1	5417.8	5140.7	5225.0	6264.3	7576.0	8045.8	7571.2
32.5°	8079.7	8315.1	7543.0	6501.7	5649.2	5316.1	5464.3	6598.5	7927.6	8518.5	8153.3
35°	8676.4	8743.2	7854.0	6754.5	6006.8	5621.2	5805.2	6926.0	8262.8	8996.0	8726.7
37.5°	9375.8	9289.5	8147.5	7100.3	6468.7	6098.7	6250.8	7285.4	8538.8	9537.5	9312.7
40°	10067.4	9860.1	8515.6	7636.9	7143.0	6661.6	6841.7	7669.0	8796.5	10080.0	9885.3
42.5°	10655.4	10348.3	8878.8	8226.9	7770.6	7282.5	7497.5	8055.4	9042.6	10543.0	10382.2
45°	11090.3	10708.7	9224.7	8793.6	8635.6	8107.8	8209.5	8498.2	9309.0	10929.5	10791.0
47.5°	11478.7	11070.9	9615.9	9365.1	9392.2	9181.1	9017.3	9013.4	9622.8	11245.3	11177.5
50°	11998.9	11573.7	10036.4	9954.0	10527.5	10387.0	10025.7	9615.0	10019.9	11603.7	11596.0
52.5°	12715.7	12369.9	10549.8	10588.6	11587.3	11679.2	11231.7	10337.6	10641.8	12261.4	12215.0
55°	13563.3	13361.8	11249.2	11317.9	12887.1	12953.0	12508.4	11241.4	11556.3	13213.7	13084.8
57.5°	14224.9	14182.3	12016.3	12193.6	13857.8	14154.2	13745.4	12287.6	12586.9	14015.7	13692.1
60°	14488.4	14694.7	12832.9	13077.0	14755.8	15084.1	14725.7	13206.8	13500.4	14347.9	13650.5
62.5°	14346.0	14807.1	13702.8	13682.5	14956.3	15309.8	15057.9	13718.3	14177.5	14005.0	12959.9
65°	13688.3	14403.1	14207.5	13526.5	14270.5	14299.5	14218.1	13489.7	14337.3	12921.1	11625.0
67.5°	12255.6	13284.3	13542.9	12189.7	12420.3	12231.4	12094.8	12238.2	13504.2	11296.7	9770.0
70°	9982.2	11530.1	11654.1	9749.6	9645.0	9518.1	9245.9	10033.5	11860.4	9258.5	7752.2
72.5°	7339.6	8967.0	9347.6	7150.7	6666.4	6692.6	6477.5	7561.4	9643.2	6877.5	5787.8
75°	5021.6	6493.0	7313.5	4989.6	4408.4	4419.0	4391.9	5357.7	7680.6	4784.2	4331.0
77.5°	3668.3	4639.0	5515.6	3354.5	3256.7	3196.6	3182.1	3748.7	5888.5	3473.6	3363.3
80°	2943.7	3427.2	3705.1	2324.8	2500.1	2495.3	2414.9	2577.6	3845.6	2540.8	2515.6
82.5°	2041.9	2633.8	3002.0	1822.1	1687.5	1659.3	1678.7	1919.9	2718.1	1736.9	1651.6
85°	1077.2	1749.5	2972.8	1614.7	1001.6	799.1	993.9	1572.2	2354.8	920.2	806.0
87.5°	137.6	505.6	1968.4	644.2	395.3	213.1	471.8	885.4	1512.1	187.9	163.7
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°	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5
2.5°	6459.1	6330.2	6161.7	6005.7	5844.0	5683.2	5473.0	5341.2	5250.2	5232.8	5194.0
5°	6302.2	5874.0	5550.4	5270.5	5016.8	4658.3	4459.8	4295.1	4206.9	4198.2	4176.9
7.5°	5578.6	4987.7	4550.8	4154.6	3795.2	3505.7	3186.0	3036.7	2975.8	2990.3	3004.8
10°	4825.9	4165.3	3663.5	3258.6	2941.8	2697.7	2441.1	2267.7	2147.6	2123.3	2118.4
12.5°	4275.7	3551.2	3063.9	2778.1	2533.0	2303.5	2031.3	1826.9	1671.0	1617.7	1581.8
15°	4043.2	3250.8	2740.4	2432.4	2162.1	1870.5	1617.7	1403.6	1260.3	1213.7	1187.5
17.5°	4092.6	3167.6	2517.6	2123.3	1777.5	1473.4	1154.6	971.6	885.4	863.1	863.1
20°	4352.2	3152.0	2333.6	1838.5	1407.5	1054.9	793.3	688.8	660.6	657.8	665.4
22.5°	4716.4	3206.3	2196.0	1591.5	1093.6	770.1	618.0	579.3	566.7	569.6	578.3
25°	5258.9	3389.3	2096.2	1371.7	858.3	630.6	551.2	527.9	522.1	529.9	540.5
27.5°	5902.1	3572.5	2034.2	1206.0	724.6	576.3	524.1	499.8	503.7	513.4	523.0
30°	6466.8	3722.6	1936.3	1087.8	682.9	579.3	524.1	491.1	487.2	489.2	492.0
32.5°	6973.5	3824.3	1822.1	975.5	588.9	514.3	489.2	484.4	463.0	455.3	456.2
35°	7410.4	3824.3	1753.3	909.6	527.9	456.2	415.5	391.4	380.6	381.7	392.3
37.5°	7831.7	3747.8	1719.4	872.8	495.0	433.9	398.1	376.9	362.3	359.4	361.3
40°	8203.7	3636.4	1680.6	857.2	469.8	420.4	386.5	369.1	353.5	348.7	349.6
42.5°	8502.1	3546.3	1638.1	837.0	454.3	410.7	378.8	363.2	345.9	340.9	340.0
45°	8824.6	3516.3	1581.8	796.3	462.1	411.6	376.9	360.4	342.9	337.1	335.1
47.5°	9249.8	3610.2	1523.7	747.8	478.5	416.5	379.7	360.4	342.0	337.1	335.1
50°	9785.5	3831.1	1450.1	677.1	462.1	430.0	378.8	357.4	342.0	337.1	333.2
52.5°	10473.3	4129.4	1353.3	595.8	452.3	463.0	376.9	351.6	337.1	330.3	323.6
55°	11309.2	4373.5	1238.0	528.9	430.0	454.3	373.9	344.8	329.4	319.7	313.8
57.5°	11921.4	4461.7	1089.7	485.3	399.1	439.8	370.0	336.1	319.7	311.9	304.1
60°	11800.4	4291.2	964.7	458.2	380.6	397.1	367.1	328.4	311.0	305.1	298.4
62.5°	10830.7	3845.6	884.4	445.6	369.1	362.3	370.0	320.6	303.2	297.4	295.4
65°	9376.7	3187.9	852.4	442.6	359.4	342.0	343.9	311.9	294.5	289.6	287.7
67.5°	7734.8	2572.8	824.3	452.3	346.8	327.4	317.7	300.3	285.7	280.9	277.0
70°	6099.8	2139.8	811.7	446.5	331.3	312.9	302.2	287.7	275.1	270.3	267.4
72.5°	4912.1	1807.6	805.0	440.8	311.0	293.5	283.9	271.2	257.7	255.7	252.9
75°	4156.6	1421.1	737.1	422.4	287.7	270.3	263.5	251.9	238.2	238.2	236.4
77.5°	3206.3	1027.8	613.2	373.9	263.5	244.1	238.2	229.6	214.1	217.0	216.0
80°	2368.4	670.3	479.5	310.0	233.4	215.0	212.2	203.5	187.0	190.8	190.8
82.5°	1622.5	439.8	344.8	253.8	199.6	182.1	182.1	173.4	155.0	156.9	162.8
85°	814.7	302.2	257.7	196.6	155.0	146.3	146.3	139.5	121.1	122.0	129.8
87.5°	248.0	182.1	170.5	140.5	111.4	109.5	104.6	99.7	88.2	87.2	92.1
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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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5
2.5°	5134.9	5079.7	5012.9	4865.7	4816.3	4813.3	4857.9	4811.3	4900.5	4862.7	4904.3
5°	4141.1	4086.8	4012.2	3824.3	3710.0	3632.5	3595.7	3487.2	3565.7	3508.5	3556.0
7.5°	3045.5	3058.1	3008.7	2898.2	2649.3	2524.3	2450.7	2384.9	2442.0	2436.2	2527.3
10°	2140.7	2174.7	2139.8	2028.4	1826.9	1758.1	1771.6	1797.8	1872.4	1911.2	2051.6
12.5°	1541.2	1539.2	1516.9	1417.2	1284.4	1292.2	1347.4	1393.0	1461.7	1502.4	1645.7
15°	1150.8	1133.3	1123.6	1042.3	966.7	983.2	1010.4	1015.2	1058.8	1083.0	1199.2
17.5°	869.8	878.6	889.3	831.1	774.0	763.3	742.0	715.9	728.4	733.3	791.4
20°	690.7	725.6	751.7	711.1	652.8	621.9	594.7	577.4	577.4	576.3	592.8
22.5°	603.4	628.7	656.7	628.7	576.3	549.2	533.8	520.2	518.2	518.2	533.8
25°	556.0	574.4	601.5	582.2	543.4	523.0	508.5	491.1	484.4	482.4	493.1
27.5°	532.8	540.5	554.0	536.6	503.7	494.0	490.1	474.6	466.0	461.0	471.8
30°	493.1	491.1	492.0	474.6	448.5	447.5	454.3	457.3	454.3	453.4	469.8
32.5°	456.2	452.3	451.4	435.9	411.6	405.9	411.6	417.5	424.3	433.9	453.4
35°	409.8	419.4	425.2	411.6	382.6	365.2	358.4	347.8	342.0	342.0	364.2
37.5°	373.0	395.3	404.0	391.4	359.4	335.1	323.6	321.6	322.5	326.4	347.8
40°	360.4	376.9	384.5	371.9	340.0	317.7	311.0	309.0	311.0	316.7	338.1
42.5°	352.6	364.2	363.2	347.8	321.6	306.1	302.2	300.3	302.2	308.0	331.3
45°	345.9	353.5	345.9	327.4	303.2	295.4	296.5	295.4	297.4	303.2	325.5
47.5°	340.0	342.9	333.2	314.9	289.6	287.7	291.5	294.5	296.5	301.3	324.5
50°	331.3	331.3	322.5	303.2	278.0	279.0	283.9	290.6	291.5	297.4	315.8
52.5°	320.6	319.7	313.8	295.4	268.3	271.2	271.2	279.0	280.9	287.7	307.1
55°	311.9	310.0	307.1	289.6	259.6	264.4	261.6	264.4	269.2	276.1	297.4
57.5°	304.1	300.3	300.3	284.8	252.9	254.7	248.0	251.9	257.7	263.5	285.7
60°	296.5	292.6	294.5	278.0	242.1	240.2	237.3	245.1	247.0	253.8	276.1
62.5°	287.7	284.8	285.7	270.3	234.5	229.6	229.6	236.4	237.3	247.0	268.3
65°	280.9	277.0	276.1	262.5	225.7	219.9	222.8	225.7	227.6	237.3	257.7
67.5°	274.2	266.4	266.4	255.7	216.0	210.2	216.0	215.0	218.0	226.7	243.2
70°	265.5	254.7	255.7	250.9	206.3	199.6	204.4	203.5	205.4	211.1	227.6
72.5°	251.9	243.2	245.1	243.2	196.6	187.0	188.9	188.9	188.9	193.7	211.1
75°	234.5	227.6	233.4	238.2	185.1	171.4	173.4	173.4	170.5	173.4	194.7
77.5°	213.1	209.2	228.6	221.8	171.4	155.0	155.0	153.0	147.2	151.1	174.3
80°	189.9	187.0	211.1	186.0	156.0	134.6	132.7	127.9	122.0	125.0	148.2
82.5°	165.6	162.8	177.3	142.4	134.6	111.4	106.6	97.8	92.1	94.9	116.2
85°	135.6	135.6	136.6	107.5	102.7	85.2	79.4	67.8	61.1	63.0	83.3
87.5°	96.9	99.7	92.1	73.7	61.1	47.5	43.6	36.8	31.0	35.8	43.6
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: P191273

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5	5953.5
2.5°	5117.5	5224.0	5345.1	5500.1	5632.8	5850.8	6060.0	6185.9
5°	3826.2	4003.5	4224.4	4508.1	4772.7	5169.8	5564.0	5816.9
7.5°	2738.4	2928.3	3166.5	3521.1	3895.0	4401.7	4922.7	5225.0
10°	2265.7	2460.4	2660.9	2900.2	3206.3	3757.5	4373.5	4714.5
12.5°	1874.4	2082.6	2298.7	2550.5	2834.3	3326.4	4036.5	4428.8
15°	1434.6	1667.1	1921.8	2240.6	2596.0	3164.6	3953.1	4379.4
17.5°	983.2	1242.8	1555.7	1948.9	2383.9	3112.3	4102.3	4593.5
20°	677.1	866.0	1200.2	1661.3	2184.3	3105.6	4389.1	5004.2
22.5°	566.7	650.9	895.1	1396.8	2034.2	3188.8	4833.6	5580.5
25°	524.1	574.4	714.8	1167.3	1924.8	3380.6	5445.9	6326.3
27.5°	498.9	544.4	649.0	1017.1	1838.5	3603.4	6041.5	7049.1
30°	508.5	555.1	630.6	940.6	1721.3	3789.4	6570.5	7612.8
32.5°	458.2	478.5	540.5	872.8	1637.0	3945.4	7033.5	8079.7
35°	390.4	426.3	482.4	840.8	1639.0	4050.0	7538.2	8676.4
37.5°	371.9	407.9	448.5	829.2	1661.3	4161.4	8117.4	9375.8
40°	360.4	393.3	428.1	822.4	1682.5	4263.1	8685.1	10067.4
42.5°	352.6	382.6	426.3	799.1	1693.2	4354.2	9152.0	10655.4
45°	351.6	382.6	433.9	775.9	1709.7	4452.0	9543.3	11090.3
47.5°	352.6	395.3	419.4	747.8	1709.7	4615.8	10002.5	11478.7
50°	348.7	416.5	404.0	708.1	1670.0	4925.7	10632.1	11998.9
52.5°	346.8	413.6	373.9	647.1	1601.2	5417.8	11439.0	12715.7
55°	342.0	399.1	352.6	556.0	1520.8	5954.4	12303.0	13563.3
57.5°	337.1	353.5	340.9	476.6	1396.8	6332.2	12897.9	14224.9
60°	377.8	309.0	331.3	437.8	1231.2	6435.8	12874.6	14488.4
62.5°	349.6	289.6	318.6	429.1	1114.9	6145.3	12279.8	14346.0
65°	274.2	277.0	306.1	454.3	1083.9	5375.1	11225.9	13688.3
67.5°	250.9	264.4	293.5	486.3	1086.9	4303.8	9650.8	12255.6
70°	236.4	250.9	279.0	502.8	1094.6	3208.3	7630.2	9982.2
72.5°	219.9	232.5	262.5	505.6	1044.2	2330.6	5880.8	7339.6
75°	200.5	212.2	239.3	440.8	865.0	1616.7	4498.5	5021.6
77.5°	178.2	187.0	210.2	340.0	642.2	1034.5	3376.8	3668.3
80°	152.1	156.9	176.3	249.0	439.8	647.1	2671.6	2943.7
82.5°	122.0	124.0	136.6	187.0	285.7	415.5	1789.1	2041.9
85°	86.2	86.2	94.0	135.6	194.7	263.5	971.6	1077.2
87.5°	40.7	41.6	41.6	74.6	101.7	133.7	223.7	137.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)