

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: P192074

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192074  
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-06-LED-E1-SLL-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 20613 lumens  
Efficiency: N/A  
Efficacy: 106.8 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 - G4

Input Watts (W): 193  
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

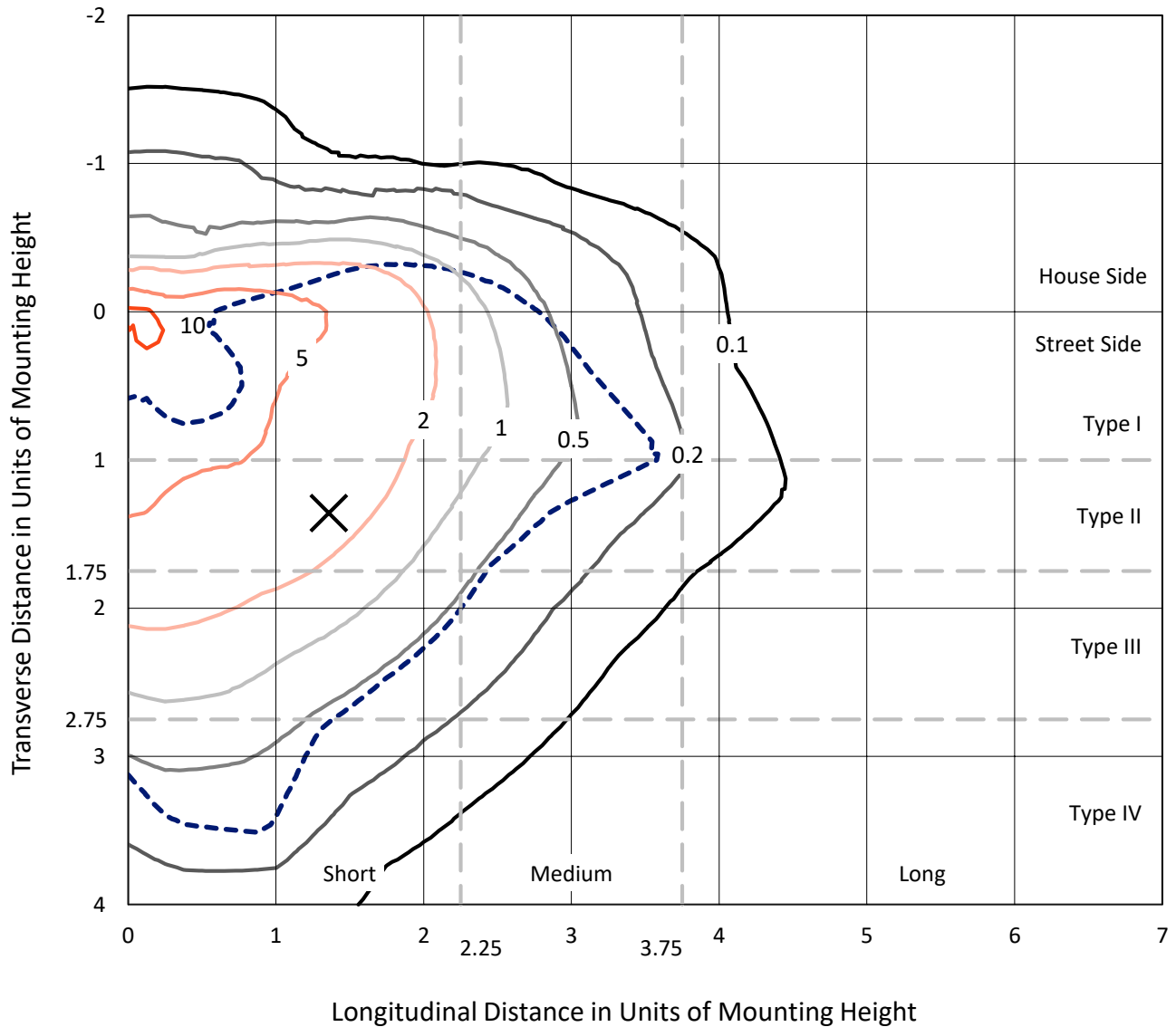


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### Iso-Footcandle Lines of Horizontal Illumination

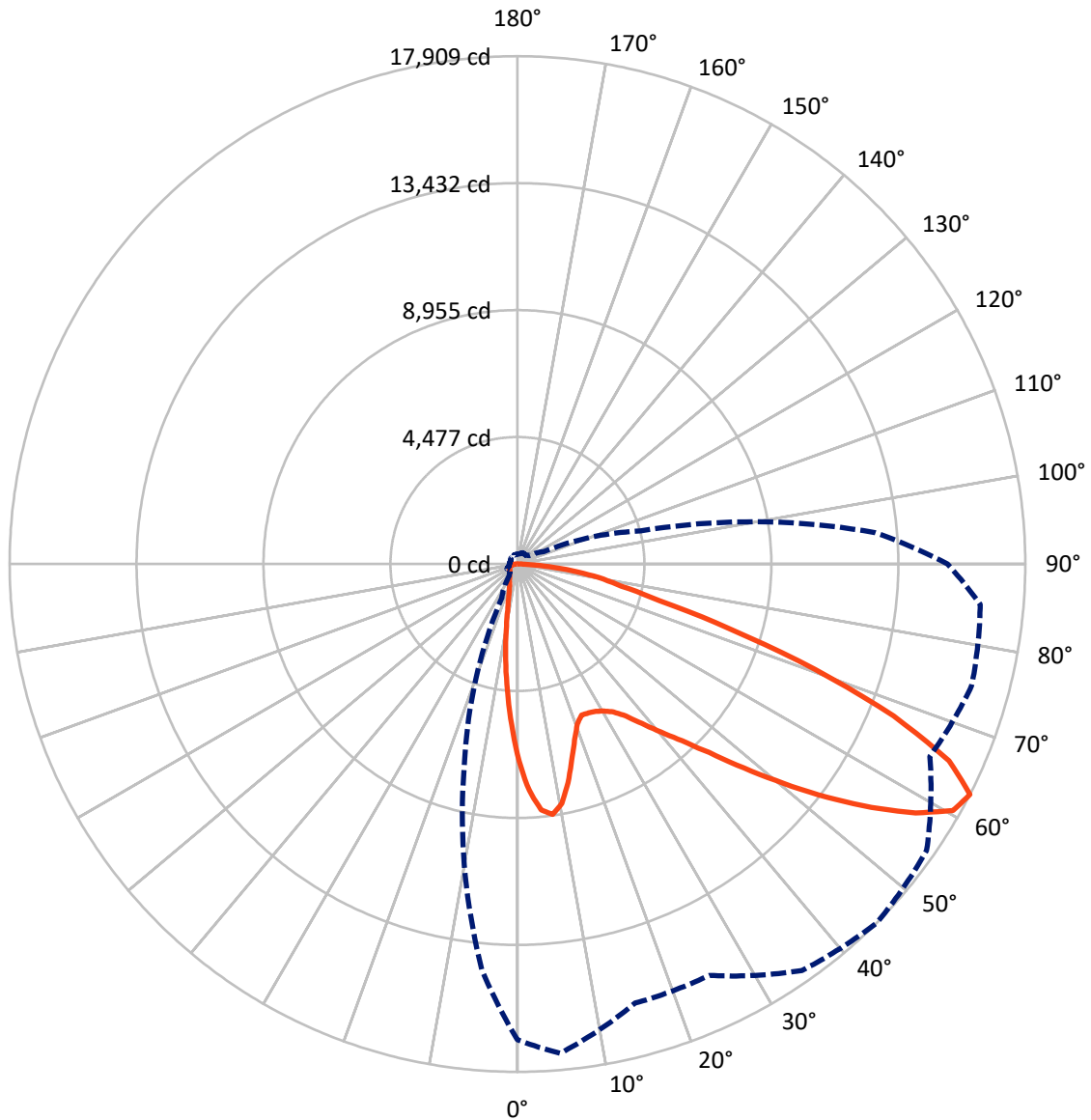
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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
<b>House Side</b>	Lumens	3411.2	0.0	3411.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	17201.8	0.0	17201.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	20613.0	0.0	20613.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.0	2.5
10°-20°	929.6	4.5
20°-30°	1355.4	6.6
30°-40°	2087.5	10.1
40°-50°	3072.3	14.9
50°-60°	4506.4	21.9
60°-70°	5037.5	24.4
70°-80°	2466.3	12.0
80°-90°	651.2	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°	20613.0	100.0
0°-180°	20613.0	100.0

**Coefficient of Utilization**



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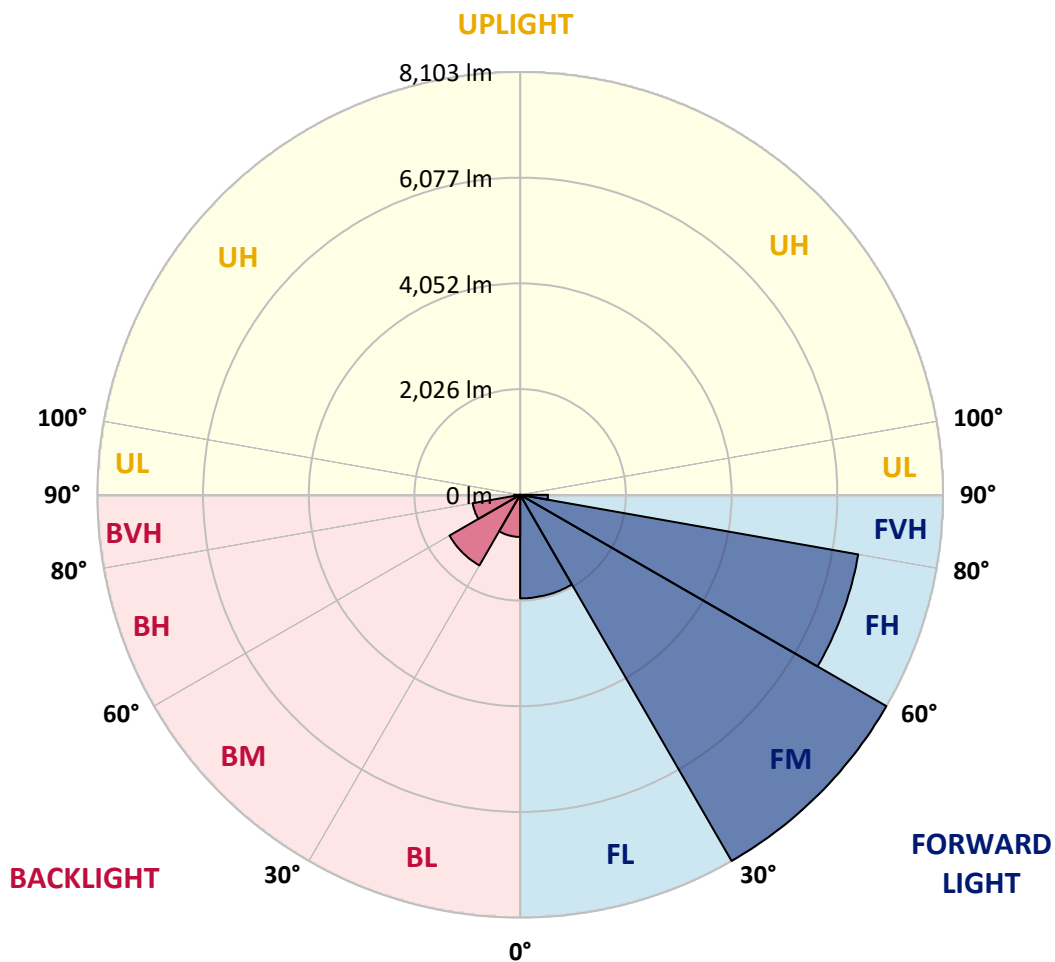
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1985.0	9.6			
FM (30°-60°)	8103.2	39.3			
FH (60°-80°)	6579.0	31.9			G3/7500
FVH (80°-90°)	534.8	2.6			G4/750
BL (0°-30°)	807.0	3.9	B2/1000		
BM (30°-60°)	1563.0	7.6	B2/2500		
BH (60°-80°)	924.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	116.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2
2.5°	7236.1	7351.7	7577.2	7746.0	7951.1	7998.7	8064.4	7999.9	7885.4	7733.6	7683.7
5°	6804.4	7051.4	7598.7	8080.3	8508.6	8708.1	8763.6	8599.3	8267.3	7831.0	7564.7
7.5°	6112.1	6463.3	7204.4	7913.7	8544.9	8917.7	8908.6	8526.8	7916.0	7205.5	6778.3
10°	5514.9	5916.0	6765.9	7559.1	8228.7	8590.2	8450.8	7962.5	7233.9	6415.7	5952.3
12.5°	5180.6	5573.8	6436.1	7232.7	7792.5	7917.1	7810.6	7332.4	6645.8	5818.6	5412.9
15°	5122.9	5554.6	6304.7	6952.9	7266.7	7157.9	7031.0	6816.9	6331.9	5626.0	5203.3
17.5°	5373.3	5849.2	6455.4	6758.0	6704.7	6515.5	6479.2	6503.0	6386.3	5840.1	5352.9
20°	5853.7	6424.8	6814.6	6666.2	6277.5	6016.9	6026.0	6389.7	6735.3	6382.9	5826.5
22.5°	6527.9	7179.5	7332.4	6714.9	6097.3	5788.0	5862.8	6452.0	7291.7	7176.1	6465.6
25°	7400.4	7994.2	7884.3	6891.7	6115.5	5816.3	5876.4	6667.3	7948.9	7969.3	7256.5
27.5°	8245.7	8796.4	8347.7	7126.2	6190.3	5883.2	5962.5	7006.1	8576.6	8830.4	8160.8
30°	8905.2	9288.2	8531.3	7340.4	6337.6	6013.5	6112.1	7327.9	8862.2	9411.7	8856.5
32.5°	9451.4	9726.7	8823.6	7605.5	6608.4	6218.6	6392.0	7718.8	9273.5	9964.7	9537.5
35°	10149.4	10227.6	9187.4	7901.3	7026.5	6575.5	6790.8	8101.8	9665.6	10523.3	10208.3
37.5°	10967.5	10866.7	9530.7	8305.8	7567.0	7134.2	7312.1	8522.2	9988.5	11156.7	10893.9
40°	11776.6	11534.1	9961.3	8933.6	8355.7	7792.5	8003.3	8970.9	10289.9	11791.3	11563.5
42.5°	12464.4	12105.2	10386.2	9623.6	9089.9	8518.8	8770.4	9423.1	10577.7	12332.9	12144.8
45°	12973.1	12526.7	10790.7	10286.5	10101.8	9484.3	9603.2	9940.9	10889.3	12785.0	12623.0
47.5°	13427.5	12950.5	11248.5	10955.0	10986.8	10739.8	10548.3	10543.7	11256.5	13154.4	13075.1
50°	14036.0	13538.6	11740.3	11644.0	12314.8	12150.5	11727.8	11247.4	11721.0	13573.7	13564.6
52.5°	14874.5	14470.0	12340.9	12386.2	13554.4	13662.1	13138.6	12092.7	12448.5	14343.1	14288.7
55°	15866.0	15630.3	13159.0	13239.4	15075.1	15152.1	14632.0	13149.9	13518.2	15456.9	15306.2
57.5°	16639.9	16590.1	14056.4	14263.8	16210.5	16557.2	16079.0	14373.7	14723.8	16395.2	16016.7
60°	16948.1	17189.5	15011.6	15297.2	17260.9	17645.0	17225.8	15449.0	15792.4	16783.8	15968.0
62.5°	16781.6	17320.9	16029.2	16005.4	17495.4	17909.0	17614.4	16047.3	16584.4	16382.7	15160.1
65°	16012.2	16848.4	16619.5	15822.9	16693.2	16727.2	16632.0	15779.9	16771.4	15114.7	13598.6
67.5°	14336.3	15539.7	15842.2	14259.2	14528.9	14308.0	14148.2	14315.9	15796.9	13214.5	11428.7
70°	11676.8	13487.6	13632.6	11404.9	11282.5	11134.1	10815.7	11736.9	13874.0	10830.4	9068.4
72.5°	8585.7	10489.3	10934.6	8364.7	7798.2	7828.8	7577.2	8845.2	11280.3	8045.2	6770.4
75°	5874.1	7595.3	8555.1	5836.7	5156.8	5169.3	5137.6	6267.3	8984.5	5596.5	5066.2
77.5°	4291.1	5426.5	6452.0	3924.0	3809.6	3739.3	3722.3	4385.2	6888.3	4063.4	3934.2
80°	3443.6	4009.0	4334.2	2719.5	2924.6	2918.9	2824.9	3015.2	4498.5	2972.2	2942.7
82.5°	2388.6	3081.0	3511.6	2131.4	1973.9	1941.0	1963.7	2245.9	3179.5	2031.7	1932.0
85°	1260.0	2046.4	3477.6	1888.9	1171.7	934.8	1162.6	1839.1	2754.6	1076.5	942.8
87.5°	160.9	591.5	2302.5	753.5	462.3	249.3	551.8	1035.7	1768.8	219.8	191.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2
2.5°	7555.7	7405.0	7207.8	7025.4	6836.1	6648.0	6402.2	6248.0	6141.5	6121.1	6075.8
5°	7372.1	6871.3	6492.8	6165.3	5868.5	5449.2	5216.9	5024.3	4921.2	4911.0	4886.0
7.5°	6525.7	5834.5	5323.4	4860.0	4439.6	4100.8	3726.8	3552.3	3481.0	3498.0	3515.0
10°	5645.2	4872.4	4285.5	3811.8	3441.3	3155.8	2855.5	2652.6	2512.1	2483.8	2478.1
12.5°	5001.6	4154.0	3584.1	3249.8	2963.1	2694.6	2376.2	2137.1	1954.6	1892.3	1850.4
15°	4729.7	3802.8	3205.6	2845.3	2529.1	2188.1	1892.3	1641.9	1474.2	1419.8	1389.2
17.5°	4787.5	3705.3	2945.0	2483.8	2079.3	1723.5	1350.7	1136.5	1035.7	1009.6	1009.6
20°	5091.1	3687.2	2729.7	2150.7	1646.4	1234.0	928.0	805.7	772.8	769.4	778.5
22.5°	5517.2	3750.6	2568.8	1861.7	1279.3	900.8	722.9	677.6	662.9	666.3	676.5
25°	6151.7	3964.8	2452.1	1604.5	1003.9	737.7	644.7	617.6	610.8	619.8	632.3
27.5°	6904.1	4179.0	2379.6	1410.7	847.6	674.2	613.0	584.7	589.2	600.6	611.9
30°	7564.7	4354.6	2265.1	1272.5	798.9	677.6	613.0	574.5	570.0	572.2	575.6
32.5°	8157.4	4473.6	2131.4	1141.1	688.9	601.7	572.2	566.6	541.6	532.6	533.7
35°	8668.4	4473.6	2051.0	1064.0	617.6	533.7	486.1	457.8	445.3	446.5	458.9
37.5°	9161.3	4384.1	2011.3	1020.9	579.0	507.6	465.7	440.8	423.8	420.4	422.7
40°	9596.4	4253.7	1966.0	1002.8	549.6	491.8	452.1	431.7	413.6	407.9	409.1
42.5°	9945.4	4148.4	1916.1	979.0	531.4	480.4	443.1	424.9	404.5	398.9	397.7
45°	10322.8	4113.2	1850.4	931.4	540.5	481.6	440.8	421.5	401.1	394.3	392.1
47.5°	10820.2	4223.2	1782.4	874.8	559.8	487.2	444.2	421.5	400.0	394.3	392.1
50°	11446.8	4481.5	1696.3	792.1	540.5	503.1	443.1	418.1	400.0	394.3	389.8
52.5°	12251.3	4830.5	1583.0	696.9	529.2	541.6	440.8	411.3	394.3	386.4	378.5
55°	13229.2	5116.1	1448.1	618.7	503.1	531.4	437.4	403.4	385.3	373.9	367.1
57.5°	13945.4	5219.2	1274.8	567.7	466.8	514.4	432.9	393.2	373.9	364.9	355.8
60°	13803.7	5019.7	1128.6	536.0	445.3	464.6	429.5	384.1	363.7	356.9	349.0
62.5°	12669.5	4498.5	1034.5	521.2	431.7	423.8	432.9	375.1	354.7	347.9	345.6
65°	10968.6	3729.1	997.1	517.8	420.4	400.0	402.3	364.9	344.5	338.8	336.5
67.5°	9048.0	3009.6	964.3	529.2	405.7	383.0	371.7	351.3	334.3	328.6	324.1
70°	7135.3	2503.1	949.6	522.4	387.5	366.0	353.5	336.5	321.8	316.1	312.7
72.5°	5746.1	2114.4	941.6	515.6	363.7	343.3	332.0	317.3	301.4	299.1	295.7
75°	4862.2	1662.3	862.3	494.0	336.5	316.1	308.2	294.6	278.7	278.7	276.5
77.5°	3750.6	1202.2	717.3	437.4	308.2	285.5	278.7	268.6	250.4	253.8	252.7
80°	2770.5	784.1	560.9	362.6	273.1	251.6	248.2	238.0	218.7	223.2	223.2
82.5°	1898.0	514.4	403.4	296.9	233.4	213.0	213.0	202.8	181.3	183.6	190.4
85°	953.0	353.5	301.4	230.0	181.3	171.1	171.1	163.2	141.6	142.8	151.8
87.5°	290.1	213.0	199.4	164.3	130.3	128.0	122.4	116.7	103.1	102.0	107.6
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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**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2
2.5°	6006.7	5942.1	5863.9	5691.7	5633.9	5630.5	5682.6	5628.2	5732.5	5688.3	5737.0
5°	4844.1	4780.7	4693.4	4473.6	4339.9	4249.2	4206.2	4079.2	4171.0	4104.2	4159.7
7.5°	3562.5	3577.3	3519.5	3390.3	3099.1	2952.9	2866.8	2789.8	2856.6	2849.8	2956.3
10°	2504.2	2543.9	2503.1	2372.8	2137.1	2056.6	2072.5	2103.1	2190.3	2235.7	2400.0
12.5°	1802.8	1800.5	1774.5	1657.8	1502.5	1511.6	1576.2	1629.4	1709.9	1757.5	1925.2
15°	1346.2	1325.8	1314.4	1219.2	1130.9	1150.1	1181.8	1187.5	1238.5	1266.8	1402.8
17.5°	1017.5	1027.7	1040.2	972.2	905.4	892.9	868.0	837.4	852.1	857.8	925.8
20°	807.9	848.7	879.3	831.7	763.7	727.5	695.7	675.3	675.3	674.2	693.5
22.5°	705.9	735.4	768.3	735.4	674.2	642.5	624.4	608.5	606.2	606.2	624.4
25°	650.4	671.9	703.7	681.0	635.7	611.9	594.9	574.5	566.6	564.3	576.8
27.5°	623.2	632.3	648.1	627.8	589.2	577.9	573.4	555.2	545.0	539.4	551.8
30°	576.8	574.5	575.6	555.2	524.6	523.5	531.4	534.8	531.4	530.3	549.6
32.5°	533.7	529.2	528.0	509.9	481.6	474.8	481.6	488.4	496.3	507.6	530.3
35°	479.3	490.6	497.4	481.6	447.6	427.2	419.3	406.8	400.0	400.0	426.1
37.5°	436.3	462.3	472.5	457.8	420.4	392.1	378.5	376.2	377.3	381.9	406.8
40°	421.5	440.8	449.9	435.1	397.7	371.7	363.7	361.5	363.7	370.5	395.5
42.5°	412.5	426.1	424.9	406.8	376.2	358.1	353.5	351.3	353.5	360.3	387.5
45°	404.5	413.6	404.5	383.0	354.7	345.6	346.7	345.6	347.9	354.7	380.7
47.5°	397.7	401.1	389.8	368.3	338.8	336.5	341.1	344.5	346.7	352.4	379.6
50°	387.5	387.5	377.3	354.7	325.2	326.3	332.0	339.9	341.1	347.9	369.4
52.5°	375.1	373.9	367.1	345.6	313.9	317.3	317.3	326.3	328.6	336.5	359.2
55°	364.9	362.6	359.2	338.8	303.7	309.3	305.9	309.3	315.0	322.9	347.9
57.5°	355.8	351.3	351.3	333.1	295.7	298.0	290.1	294.6	301.4	308.2	334.3
60°	346.7	342.2	344.5	325.2	283.3	281.0	277.6	286.7	288.9	296.9	322.9
62.5°	336.5	333.1	334.3	316.1	274.2	268.6	268.6	276.5	277.6	288.9	313.9
65°	328.6	324.1	322.9	307.1	264.0	257.2	260.6	264.0	266.3	277.6	301.4
67.5°	320.7	311.6	311.6	299.1	252.7	245.9	252.7	251.6	255.0	265.2	284.4
70°	310.5	298.0	299.1	293.5	241.4	233.4	239.1	238.0	240.2	247.0	266.3
72.5°	294.6	284.4	286.7	284.4	230.0	218.7	221.0	221.0	221.0	226.6	247.0
75°	274.2	266.3	273.1	278.7	216.4	200.6	202.8	202.8	199.4	202.8	227.8
77.5°	249.3	244.8	267.4	259.5	200.6	181.3	181.3	179.0	172.2	176.8	204.0
80°	222.1	218.7	247.0	217.6	182.4	157.5	155.2	149.6	142.8	146.2	173.4
82.5°	193.8	190.4	207.4	166.6	157.5	130.3	124.6	114.4	107.6	111.0	136.0
85°	158.6	158.6	159.8	125.8	120.1	99.7	92.9	79.3	71.4	73.7	97.4
87.5°	113.3	116.7	107.6	86.1	71.4	55.5	51.0	43.1	36.3	41.9	51.0
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: P192074

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7050-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2
2.5°	5986.3	6110.9	6252.6	6433.9	6589.1	6844.1	7088.8	7236.1
5°	4475.8	4683.2	4941.6	5273.6	5582.9	6047.5	6508.7	6804.4
7.5°	3203.3	3425.4	3704.2	4118.9	4556.3	5148.9	5758.5	6112.1
10°	2650.4	2878.1	3112.7	3392.6	3750.6	4395.4	5116.1	5514.9
12.5°	2192.6	2436.2	2688.9	2983.5	3315.5	3891.1	4721.7	5180.6
15°	1678.2	1950.1	2248.1	2620.9	3036.8	3701.9	4624.3	5122.9
17.5°	1150.1	1453.8	1819.8	2279.8	2788.6	3640.7	4798.8	5373.3
20°	792.1	1013.0	1403.9	1943.3	2555.2	3632.8	5134.2	5853.7
22.5°	662.9	761.5	1047.0	1634.0	2379.6	3730.2	5654.3	6527.9
25°	613.0	671.9	836.2	1365.4	2251.5	3954.6	6370.4	7400.4
27.5°	583.6	636.8	759.2	1189.8	2150.7	4215.2	7067.3	8245.7
30°	594.9	649.3	737.7	1100.3	2013.6	4432.8	7686.0	8905.2
32.5°	536.0	559.8	632.3	1020.9	1915.0	4615.2	8227.6	9451.4
35°	456.6	498.6	564.3	983.6	1917.2	4737.6	8818.0	10149.4
37.5°	435.1	477.0	524.6	970.0	1943.3	4867.9	9495.6	10967.5
40°	421.5	460.0	500.8	962.0	1968.2	4986.9	10159.6	11776.6
42.5°	412.5	447.6	498.6	934.8	1980.7	5093.4	10705.8	12464.4
45°	411.3	447.6	507.6	907.6	2000.0	5207.8	11163.5	12973.1
47.5°	412.5	462.3	490.6	874.8	2000.0	5399.3	11700.6	13427.5
50°	407.9	487.2	472.5	828.3	1953.5	5761.9	12437.2	14036.0
52.5°	405.7	483.8	437.4	756.9	1873.1	6337.6	13381.1	14874.5
55°	400.0	466.8	412.5	650.4	1779.0	6965.3	14391.8	15866.0
57.5°	394.3	413.6	398.9	557.5	1634.0	7407.2	15087.5	16639.9
60°	441.9	361.5	387.5	512.2	1440.2	7528.5	15060.4	16948.1
62.5°	409.1	338.8	372.8	502.0	1304.2	7188.5	14364.6	16781.6
65°	320.7	324.1	358.1	531.4	1268.0	6287.7	13131.8	16012.2
67.5°	293.5	309.3	343.3	568.8	1271.4	5034.5	11289.3	14336.3
70°	276.5	293.5	326.3	588.1	1280.4	3752.9	8925.6	11676.8
72.5°	257.2	271.9	307.1	591.5	1221.5	2726.3	6879.2	8585.7
75°	234.6	248.2	279.9	515.6	1011.9	1891.2	5262.2	5874.1
77.5°	208.5	218.7	245.9	397.7	751.3	1210.2	3950.1	4291.1
80°	177.9	183.6	206.2	291.2	514.4	756.9	3125.2	3443.6
82.5°	142.8	145.0	159.8	218.7	334.3	486.1	2092.9	2388.6
85°	100.8	100.8	109.9	158.6	227.8	308.2	1136.5	1260.0
87.5°	47.6	48.7	48.7	87.3	119.0	156.4	261.8	160.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)