

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: P193814

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193814  
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-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 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: 16820 lumens  
Efficiency: N/A  
Efficacy: 87.2 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

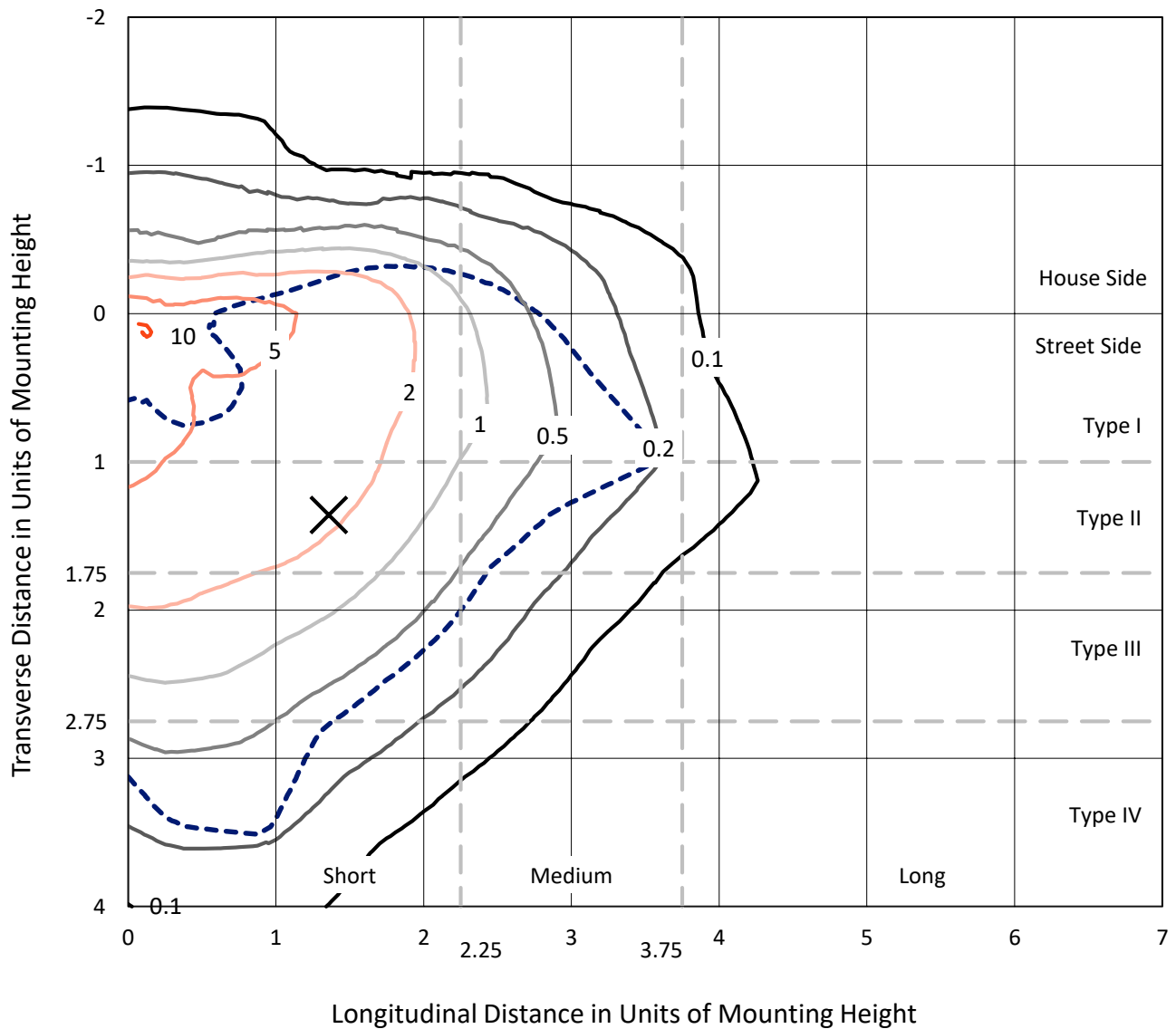
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

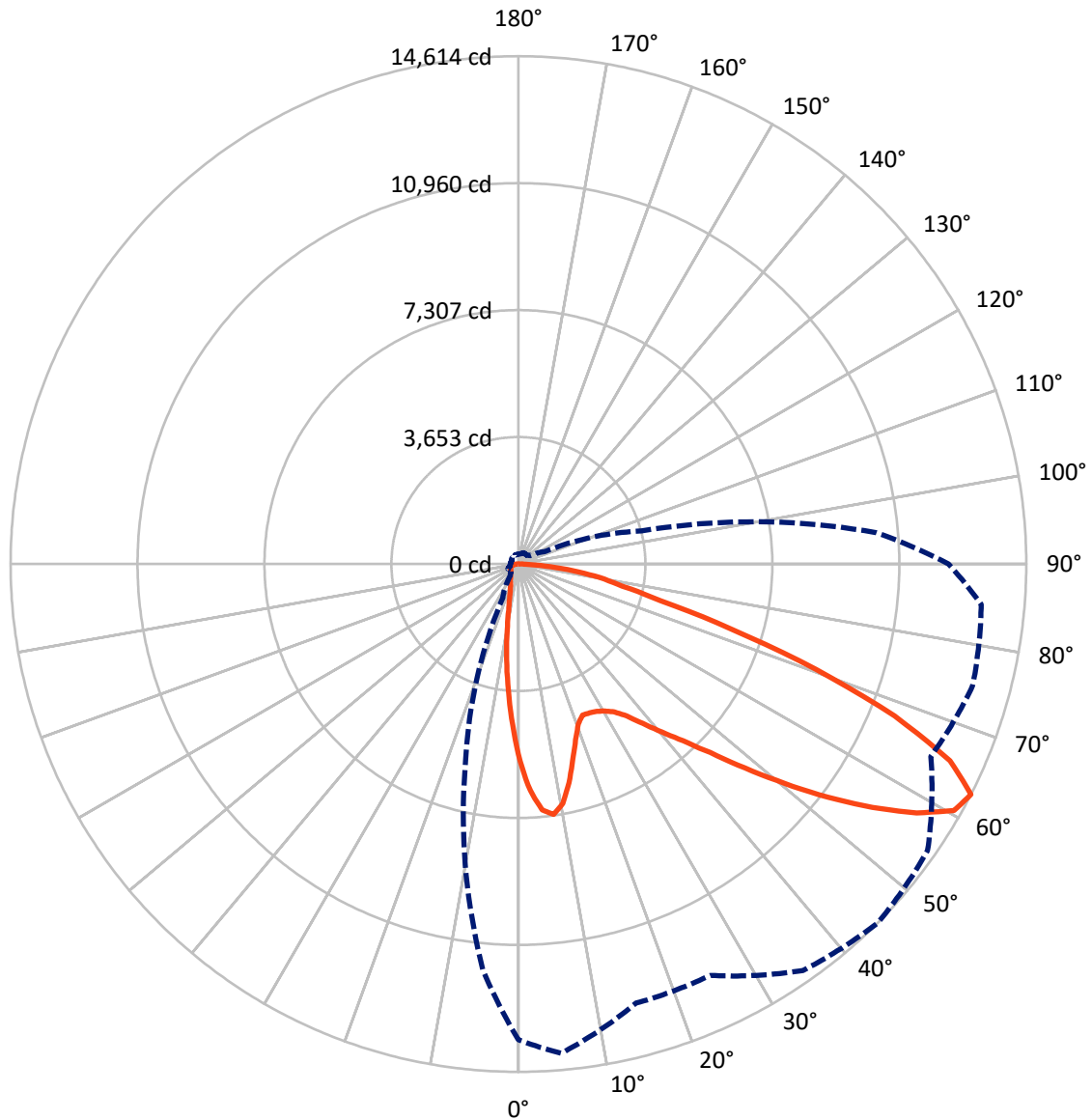
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	2783.5	0.0	2783.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14036.5	0.0	14036.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	16820.0	0.0	16820.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.7	2.5
10°-20°	758.6	4.5
20°-30°	1106.0	6.6
30°-40°	1703.4	10.1
40°-50°	2506.9	14.9
50°-60°	3677.1	21.9
60°-70°	4110.5	24.4
70°-80°	2012.5	12.0
80°-90°	531.3	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°	16820.0	100.0
0°-180°	16820.0	100.0



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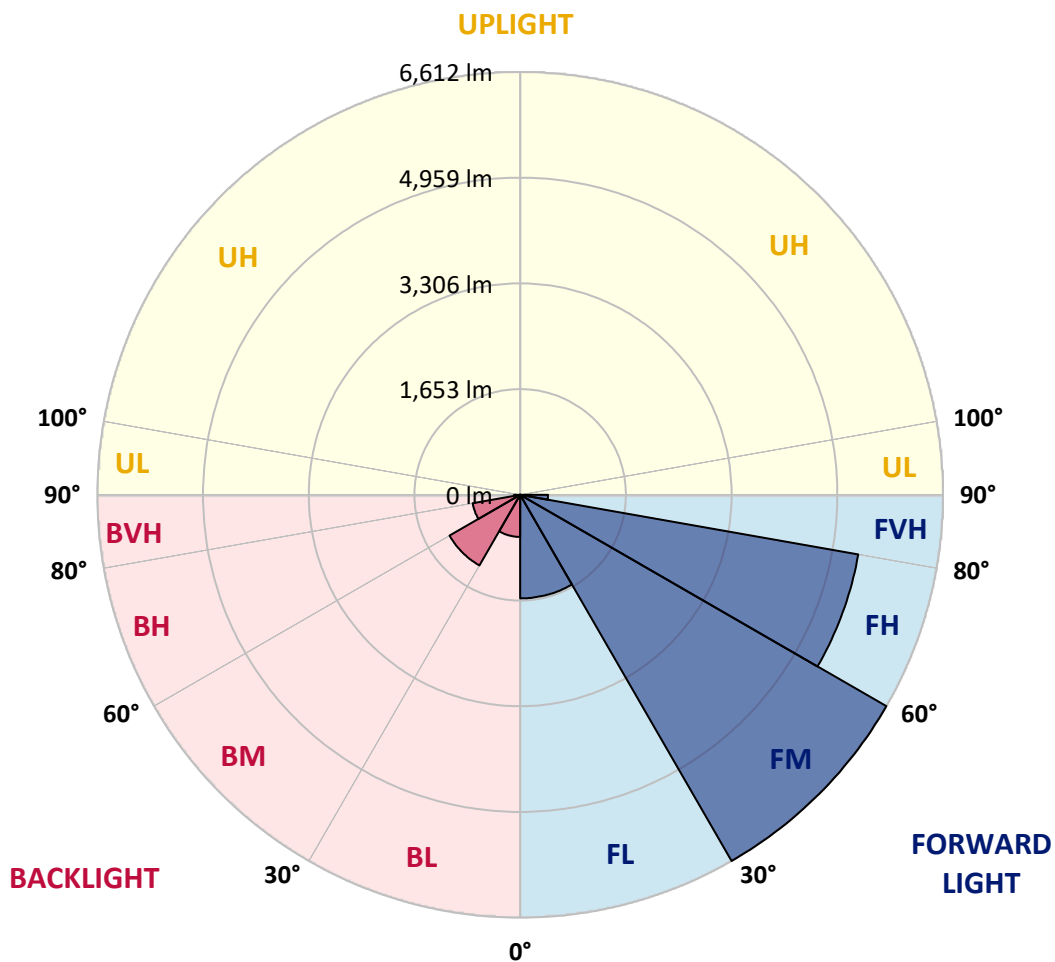
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.7	9.6			
FM (30°-60°)	6612.1	39.3			
FH (60°-80°)	5368.4	31.9			G3/7500
FVH (80°-90°)	436.4	2.6			G3/500
BL (0°-30°)	658.5	3.9	B2/1000		
BM (30°-60°)	1275.4	7.6	B2/2500		
BH (60°-80°)	754.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	95.0	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°	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7
2.5°	5904.6	5998.9	6182.9	6320.7	6488.0	6526.9	6580.5	6527.8	6434.4	6310.5	6269.8
5°	5552.3	5753.9	6200.5	6593.5	6943.0	7105.7	7151.0	7016.9	6746.0	6390.0	6172.7
7.5°	4987.4	5274.0	5878.7	6457.5	6972.5	7276.7	7269.3	6957.8	6459.4	5879.6	5531.1
10°	4500.1	4827.4	5520.9	6168.1	6714.6	7009.5	6895.8	6497.3	5902.8	5235.2	4857.0
12.5°	4227.4	4548.2	5251.8	5901.8	6358.6	6460.3	6373.4	5983.2	5422.9	4747.9	4416.9
15°	4180.2	4532.5	5144.6	5673.5	5929.6	5840.8	5737.3	5562.5	5166.8	4590.7	4245.8
17.5°	4384.5	4772.9	5267.5	5514.4	5471.0	5316.6	5287.0	5306.4	5211.1	4765.5	4367.9
20°	4776.6	5242.6	5560.7	5439.5	5122.4	4909.7	4917.1	5213.9	5495.9	5208.4	4754.4
22.5°	5326.7	5858.4	5983.2	5479.3	4975.4	4722.9	4784.0	5264.8	5949.9	5855.6	5275.9
25°	6038.7	6523.2	6433.5	5623.5	4990.2	4746.1	4795.1	5440.5	6486.2	6502.8	5921.3
27.5°	6728.4	7177.8	6811.7	5814.9	5051.2	4800.6	4865.3	5716.9	6998.4	7205.5	6659.1
30°	7266.6	7579.1	6961.4	5989.7	5171.4	4906.9	4987.4	5979.5	7231.4	7679.9	7226.8
32.5°	7712.2	7936.9	7200.0	6206.0	5392.4	5074.3	5215.8	6298.5	7567.1	8131.1	7782.5
35°	8281.8	8345.6	7496.8	6447.4	5733.6	5365.6	5541.2	6611.0	7887.0	8586.9	8329.9
37.5°	8949.4	8867.1	7777.0	6777.4	6174.6	5821.4	5966.6	6954.1	8150.5	9103.8	8889.3
40°	9609.6	9411.7	8128.3	7289.7	6818.1	6358.6	6530.6	7320.2	8396.5	9621.6	9435.7
42.5°	10170.8	9877.7	8475.0	7852.8	7417.3	6951.3	7156.5	7689.1	8631.3	10063.5	9910.1
45°	10586.0	10221.7	8805.1	8393.7	8243.0	7739.1	7836.1	8111.7	8885.6	10432.5	10300.2
47.5°	10956.7	10567.5	9178.7	8939.2	8965.1	8763.5	8607.3	8603.6	9185.2	10733.9	10669.2
50°	11453.2	11047.3	9580.0	9501.4	10048.7	9914.7	9569.8	9177.8	9564.2	11076.0	11068.6
52.5°	12137.5	11807.4	10070.0	10107.0	11060.3	11148.1	10720.9	9867.5	10157.9	11703.8	11659.4
55°	12946.5	12754.2	10737.6	10803.2	12301.1	12364.0	11939.6	10730.2	11030.7	12612.7	12489.7
57.5°	13578.0	13537.3	11469.9	11639.1	13227.6	13510.5	13120.3	11728.8	12014.5	13378.3	13069.5
60°	13829.5	14026.5	12249.3	12482.3	14084.7	14398.2	14056.0	12606.2	12886.4	13695.4	13029.7
62.5°	13693.6	14133.7	13079.6	13060.2	14276.1	14613.6	14373.2	13094.4	13532.7	13368.1	12370.5
65°	13065.8	13748.1	13561.4	12911.4	13621.5	13649.2	13571.5	12876.2	13685.3	12333.5	11096.3
67.5°	11698.3	12680.2	12927.1	11635.4	11855.5	11675.2	11544.8	11681.6	12890.1	10782.9	9325.7
70°	9528.2	11005.7	11124.1	9306.3	9206.4	9085.3	8825.5	9577.2	11321.0	8837.5	7399.7
72.5°	7005.8	8559.2	8922.6	6825.5	6363.2	6388.2	6182.9	7217.6	9204.6	6564.8	5524.6
75°	4793.2	6197.7	6980.9	4762.7	4207.9	4218.1	4192.2	5114.1	7331.3	4566.7	4134.0
77.5°	3501.5	4428.0	5264.8	3202.0	3108.6	3051.2	3037.4	3578.3	5620.8	3315.7	3210.3
80°	2809.9	3271.3	3536.7	2219.1	2386.4	2381.8	2305.1	2460.4	3670.7	2425.3	2401.2
82.5°	1949.1	2514.0	2865.4	1739.2	1610.7	1583.9	1602.4	1832.6	2594.5	1657.8	1576.5
85°	1028.2	1669.9	2837.7	1541.3	956.1	762.8	948.7	1500.7	2247.7	878.4	769.3
87.5°	131.3	482.7	1878.8	614.9	377.2	203.4	450.3	845.1	1443.3	179.4	156.3
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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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7
2.5°	6165.4	6042.4	5881.5	5732.6	5578.2	5424.7	5224.1	5098.3	5011.4	4994.8	4957.8
5°	6015.6	5606.9	5298.1	5030.8	4788.6	4446.5	4256.9	4099.8	4015.6	4007.3	3987.0
7.5°	5324.9	4760.9	4343.9	3965.7	3622.7	3346.2	3041.1	2898.7	2840.4	2854.3	2868.2
10°	4606.4	3975.9	3496.9	3110.4	2808.1	2575.1	2330.0	2164.5	2049.9	2026.8	2022.1
12.5°	4081.3	3389.6	2924.6	2651.8	2417.9	2198.7	1938.9	1743.8	1595.0	1544.1	1509.9
15°	3859.4	3103.0	2615.7	2321.7	2063.7	1785.4	1544.1	1339.8	1202.9	1158.5	1133.6
17.5°	3906.5	3023.5	2403.1	2026.8	1696.7	1406.3	1102.1	927.4	845.1	823.8	823.8
20°	4154.3	3008.7	2227.4	1754.9	1343.5	1006.9	757.3	657.4	630.6	627.8	635.2
22.5°	4502.0	3060.5	2096.1	1519.1	1043.9	735.1	589.9	552.9	540.9	543.7	552.0
25°	5019.8	3235.2	2000.9	1309.3	819.2	601.9	526.1	503.9	498.4	505.8	515.9
27.5°	5633.7	3410.0	1941.7	1151.1	691.6	550.1	500.2	477.1	480.8	490.0	499.3
30°	6172.7	3553.3	1848.3	1038.3	651.9	552.9	500.2	468.8	465.1	466.9	469.7
32.5°	6656.3	3650.4	1739.2	931.1	562.2	491.0	466.9	462.3	442.0	434.6	435.5
35°	7073.3	3650.4	1673.6	868.2	503.9	435.5	396.7	373.5	363.4	364.3	374.5
37.5°	7475.5	3577.3	1641.2	833.1	472.5	414.2	380.0	359.7	345.8	343.0	344.9
40°	7830.6	3471.0	1604.2	818.3	448.4	401.3	368.9	352.3	337.5	332.9	333.8
42.5°	8115.4	3385.0	1563.5	798.9	433.6	392.0	361.5	346.7	330.1	325.5	324.5
45°	8423.3	3356.4	1509.9	760.0	441.0	393.0	359.7	344.0	327.3	321.8	319.9
47.5°	8829.2	3446.1	1454.4	713.8	456.8	397.6	362.5	344.0	326.4	321.8	319.9
50°	9340.5	3656.9	1384.2	646.3	441.0	410.5	361.5	341.2	326.4	321.8	318.1
52.5°	9997.0	3941.6	1291.7	568.6	431.8	442.0	359.7	335.6	321.8	315.3	308.8
55°	10794.9	4174.7	1181.7	504.8	410.5	433.6	356.9	329.2	314.4	305.1	299.6
57.5°	11379.3	4258.8	1040.2	463.2	380.9	419.8	353.2	320.8	305.1	297.7	290.3
60°	11263.7	4096.1	920.9	437.3	363.4	379.1	350.4	313.4	296.8	291.3	284.8
62.5°	10338.2	3670.7	844.2	425.3	352.3	345.8	353.2	306.0	289.4	283.9	282.0
65°	8950.3	3042.9	813.7	422.6	343.0	326.4	328.2	297.7	281.1	276.5	274.6
67.5°	7383.1	2455.8	786.8	431.8	331.0	312.5	303.3	286.6	272.8	268.1	264.4
70°	5822.3	2042.5	774.8	426.2	316.2	298.7	288.5	274.6	262.6	258.0	255.2
72.5°	4688.7	1725.3	768.4	420.7	296.8	280.2	270.9	258.9	245.9	244.1	241.3
75°	3967.5	1356.4	703.6	403.1	274.6	258.0	251.5	240.4	227.5	227.5	225.6
77.5°	3060.5	981.0	585.3	356.9	251.5	233.0	227.5	219.1	204.3	207.1	206.2
80°	2260.7	639.8	457.7	295.9	222.8	205.3	202.5	194.2	178.5	182.1	182.1
82.5°	1548.7	419.8	329.2	242.2	190.5	173.8	173.8	165.5	147.9	149.8	155.3
85°	777.6	288.5	245.9	187.7	147.9	139.6	139.6	133.1	115.6	116.5	123.9
87.5°	236.7	173.8	162.7	134.1	106.3	104.5	99.9	95.2	84.1	83.2	87.8
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°	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7
2.5°	4901.4	4848.7	4784.9	4644.4	4597.2	4594.4	4637.0	4592.6	4677.6	4641.6	4681.3
5°	3952.7	3901.0	3829.8	3650.4	3541.3	3467.3	3432.2	3328.6	3403.5	3349.0	3394.3
7.5°	2907.0	2919.0	2871.9	2766.5	2528.8	2409.6	2339.3	2276.4	2331.0	2325.4	2412.3
10°	2043.4	2075.8	2042.5	1936.2	1743.8	1678.2	1691.1	1716.1	1787.3	1824.3	1958.3
12.5°	1471.1	1469.2	1448.0	1352.7	1226.0	1233.4	1286.1	1329.6	1395.2	1434.1	1570.9
15°	1098.4	1081.8	1072.6	994.9	922.8	938.5	964.4	969.0	1010.6	1033.7	1144.7
17.5°	830.3	838.6	848.8	793.3	738.8	728.6	708.3	683.3	695.3	699.9	755.4
20°	659.3	692.5	717.5	678.7	623.2	593.6	567.7	551.1	551.1	550.1	565.9
22.5°	576.0	600.1	626.9	600.1	550.1	524.3	509.5	496.5	494.7	494.7	509.5
25°	530.7	548.3	574.2	555.7	518.7	499.3	485.4	468.8	462.3	460.5	470.6
27.5°	508.5	515.9	528.9	512.2	480.8	471.6	467.9	453.1	444.7	440.1	450.3
30°	470.6	468.8	469.7	453.1	428.1	427.2	433.6	436.4	433.6	432.7	448.4
32.5°	435.5	431.8	430.9	416.1	393.0	387.4	393.0	398.5	405.0	414.2	432.7
35°	391.1	400.4	405.9	393.0	365.2	348.6	342.1	331.9	326.4	326.4	347.7
37.5°	356.0	377.2	385.6	373.5	343.0	319.9	308.8	307.0	307.9	311.6	331.9
40°	344.0	359.7	367.1	355.1	324.5	303.3	296.8	295.0	296.8	302.4	322.7
42.5°	336.6	347.7	346.7	331.9	307.0	292.2	288.5	286.6	288.5	294.0	316.2
45°	330.1	337.5	330.1	312.5	289.4	282.0	282.9	282.0	283.9	289.4	310.7
47.5°	324.5	327.3	318.1	300.5	276.5	274.6	278.3	281.1	282.9	287.6	309.7
50°	316.2	316.2	307.9	289.4	265.4	266.3	270.9	277.4	278.3	283.9	301.4
52.5°	306.0	305.1	299.6	282.0	256.1	258.9	258.9	266.3	268.1	274.6	293.1
55°	297.7	295.9	293.1	276.5	247.8	252.4	249.6	252.4	257.0	263.5	283.9
57.5°	290.3	286.6	286.6	271.8	241.3	243.2	236.7	240.4	245.9	251.5	272.8
60°	282.9	279.2	281.1	265.4	231.2	229.3	226.5	233.9	235.8	242.2	263.5
62.5°	274.6	271.8	272.8	258.0	223.8	219.1	219.1	225.6	226.5	235.8	256.1
65°	268.1	264.4	263.5	250.6	215.4	209.9	212.7	215.4	217.3	226.5	245.9
67.5°	261.7	254.3	254.3	244.1	206.2	200.6	206.2	205.3	208.0	216.4	232.1
70°	253.3	243.2	244.1	239.5	196.9	190.5	195.1	194.2	196.0	201.6	217.3
72.5°	240.4	232.1	233.9	232.1	187.7	178.5	180.3	180.3	180.3	184.9	201.6
75°	223.8	217.3	222.8	227.5	176.6	163.7	165.5	165.5	162.7	165.5	185.8
77.5°	203.4	199.7	218.2	211.7	163.7	147.9	147.9	146.1	140.5	144.2	166.4
80°	181.2	178.5	201.6	177.5	148.9	128.5	126.7	122.0	116.5	119.3	141.5
82.5°	158.1	155.3	169.2	135.9	128.5	106.3	101.7	93.4	87.8	90.6	111.0
85°	129.4	129.4	130.4	102.6	98.0	81.4	75.8	64.7	58.3	60.1	79.5
87.5°	92.5	95.2	87.8	70.3	58.3	45.3	41.6	35.1	29.6	34.2	41.6
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: P193814

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-8030-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7	5682.7
2.5°	4884.8	4986.5	5102.0	5250.0	5376.7	5584.7	5784.4	5904.6
5°	3652.2	3821.4	4032.3	4303.2	4555.6	4934.7	5311.0	5552.3
7.5°	2613.9	2795.1	3022.6	3361.0	3717.9	4201.5	4698.9	4987.4
10°	2162.7	2348.5	2539.9	2768.3	3060.5	3586.6	4174.7	4500.1
12.5°	1789.1	1987.9	2194.1	2434.5	2705.4	3175.1	3852.9	4227.4
15°	1369.4	1591.3	1834.4	2138.6	2478.0	3020.7	3773.4	4180.2
17.5°	938.5	1186.3	1484.9	1860.3	2275.5	2970.8	3915.8	4384.5
20°	646.3	826.6	1145.6	1585.7	2085.0	2964.3	4189.4	4776.6
22.5°	540.9	621.3	854.3	1333.3	1941.7	3043.8	4613.8	5326.7
25°	500.2	548.3	682.4	1114.2	1837.2	3226.9	5198.2	6038.7
27.5°	476.2	519.6	619.5	970.8	1754.9	3439.6	5766.8	6728.4
30°	485.4	529.8	601.9	897.8	1643.0	3617.1	6271.7	7266.6
32.5°	437.3	456.8	515.9	833.1	1562.6	3766.0	6713.7	7712.2
35°	372.6	406.8	460.5	802.6	1564.5	3865.8	7195.4	8281.8
37.5°	355.1	389.3	428.1	791.5	1585.7	3972.2	7748.3	8949.4
40°	344.0	375.4	408.7	785.0	1606.1	4069.2	8290.1	9609.6
42.5°	336.6	365.2	406.8	762.8	1616.2	4156.2	8735.8	10170.8
45°	335.6	365.2	414.2	740.6	1632.0	4249.5	9109.3	10586.0
47.5°	336.6	377.2	400.4	713.8	1632.0	4405.8	9547.6	10956.7
50°	332.9	397.6	385.6	675.9	1594.0	4701.7	10148.6	11453.2
52.5°	331.0	394.8	356.9	617.6	1528.4	5171.4	10918.8	12137.5
55°	326.4	380.9	336.6	530.7	1451.7	5683.6	11743.6	12946.5
57.5°	321.8	337.5	325.5	454.9	1333.3	6044.2	12311.3	13578.0
60°	360.6	295.0	316.2	417.9	1175.2	6143.2	12289.1	13829.5
62.5°	333.8	276.5	304.2	409.6	1064.2	5865.8	11721.4	13693.6
65°	261.7	264.4	292.2	433.6	1034.6	5130.7	10715.4	13065.8
67.5°	239.5	252.4	280.2	464.2	1037.4	4108.1	9212.0	11698.3
70°	225.6	239.5	266.3	479.9	1044.8	3062.3	7283.2	9528.2
72.5°	209.9	221.9	250.6	482.7	996.7	2224.6	5613.4	7005.8
75°	191.4	202.5	228.4	420.7	825.7	1543.2	4293.9	4793.2
77.5°	170.1	178.5	200.6	324.5	613.0	987.5	3223.2	3501.5
80°	145.2	149.8	168.3	237.6	419.8	617.6	2550.1	2809.9
82.5°	116.5	118.4	130.4	178.5	272.8	396.7	1707.8	1949.1
85°	82.3	82.3	89.7	129.4	185.8	251.5	927.4	1028.2
87.5°	38.8	39.8	39.8	71.2	97.1	127.6	213.6	131.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)