

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: P191276

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191276
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-08-LED-E1-SLL-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 28256 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

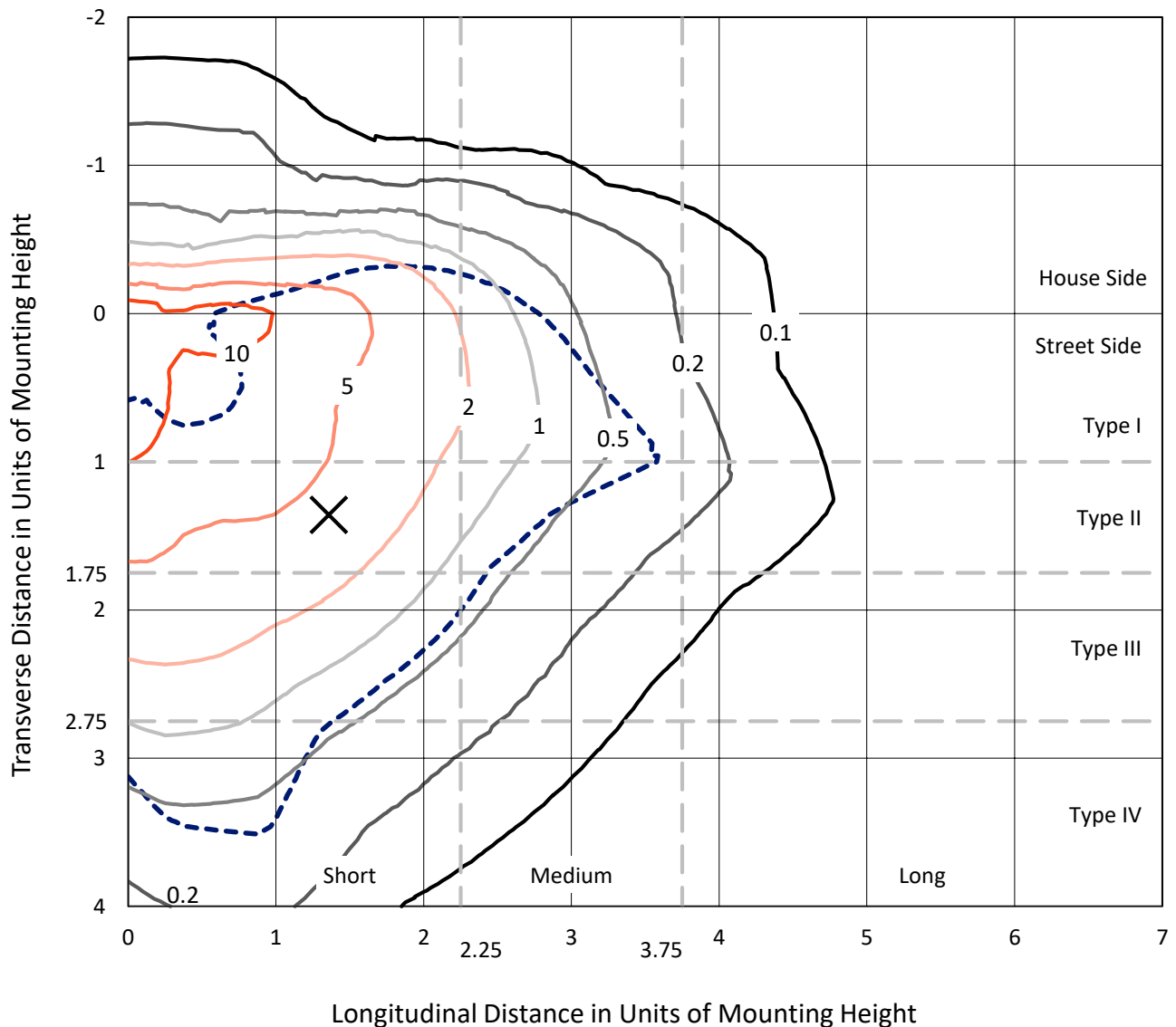
Input Watts (W): 257
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

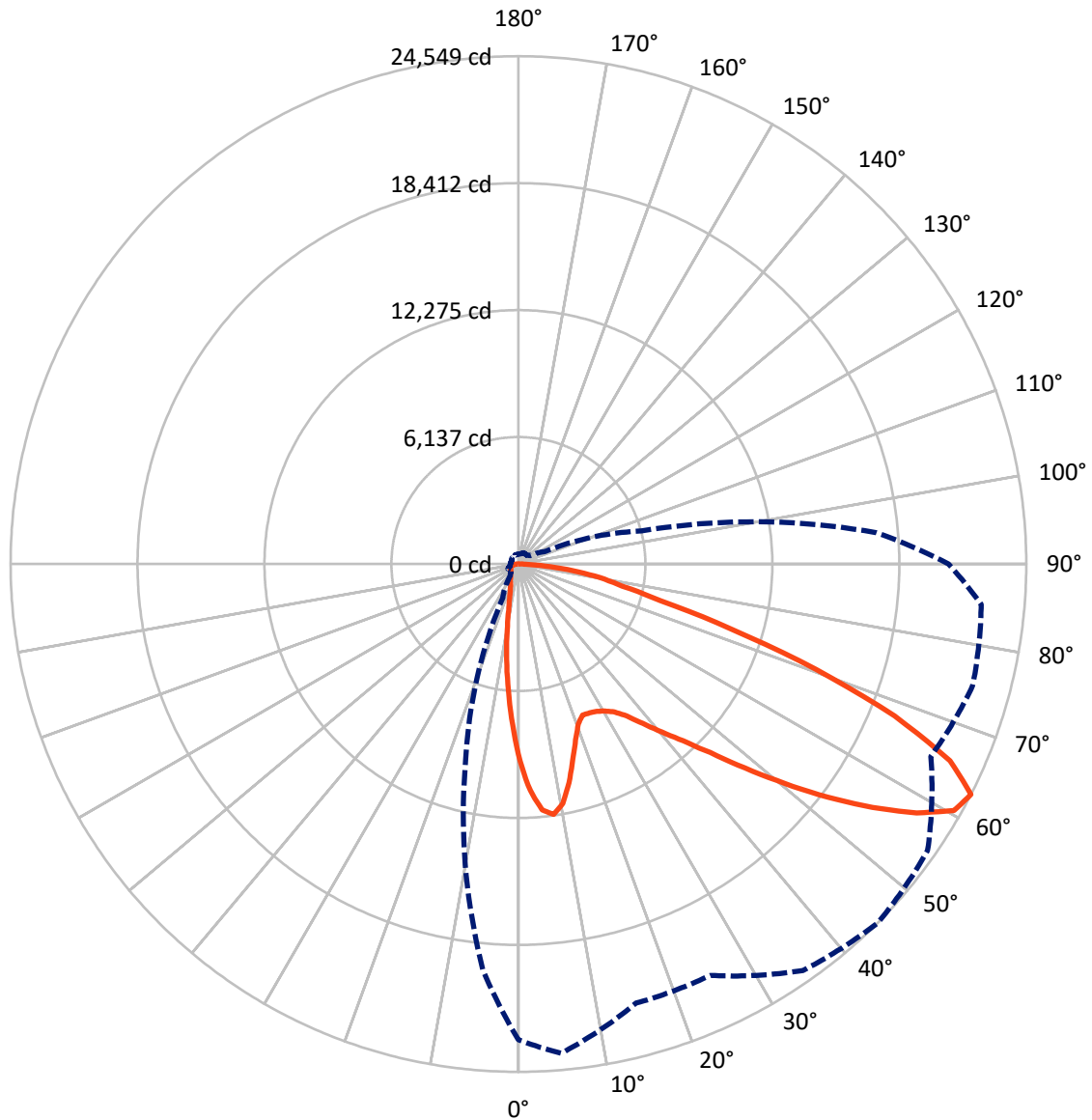
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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	4676.0	0.0	4676.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23580.0	0.0	23580.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	28256.0	0.0	28256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.9	2.5
10°-20°	1274.3	4.5
20°-30°	1858.0	6.6
30°-40°	2861.5	10.1
40°-50°	4211.4	14.9
50°-60°	6177.2	21.9
60°-70°	6905.3	24.4
70°-80°	3380.7	12.0
80°-90°	892.6	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°	28256.0	100.0
0°-180°	28256.0	100.0

Coefficient of Utilization



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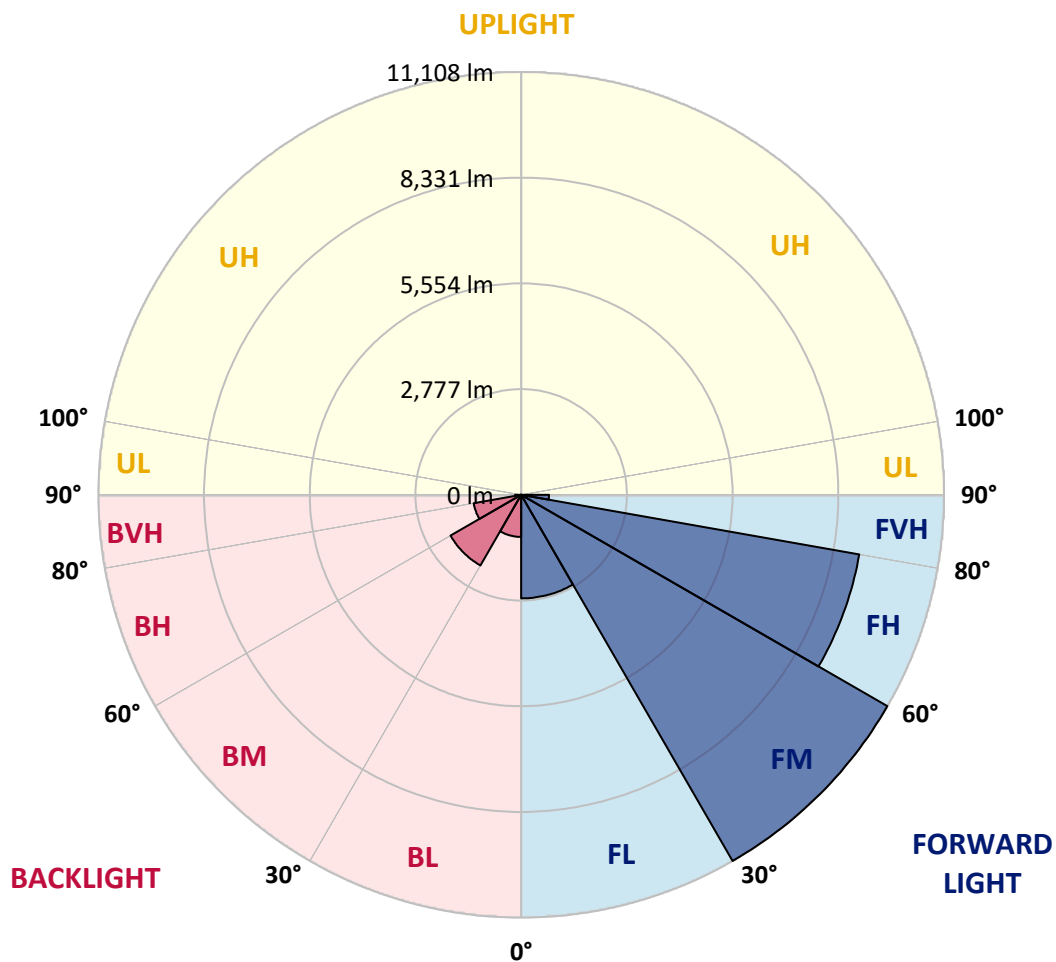
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2721.0	9.6			
FM	(30°-60°)	11107.7	39.3			
FH	(60°-80°)	9018.3	31.9			G4/12000
FVH	(80°-90°)	733.0	2.6			G4/750
BL	(0°-30°)	1106.3	3.9	B3/2500		
BM	(30°-60°)	2142.5	7.6	B2/2500		
BH	(60°-80°)	1267.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	159.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4
2.5°	9919.1	10077.6	10386.7	10618.1	10899.2	10964.5	11054.6	10966.0	10809.2	10601.0	10532.7
5°	9327.4	9666.0	10416.2	11076.3	11663.5	11936.8	12012.9	11787.8	11332.7	10734.6	10369.7
7.5°	8378.3	8859.9	9875.7	10848.0	11713.2	12224.3	12211.8	11688.3	10851.2	9877.2	9291.7
10°	7559.7	8109.6	9274.6	10361.9	11279.9	11775.3	11584.3	10914.8	9916.1	8794.6	8159.4
12.5°	7101.5	7640.5	8822.5	9914.5	10681.9	10852.7	10706.7	10051.2	9109.9	7976.0	7420.0
15°	7022.4	7614.1	8642.4	9530.8	9961.1	9811.9	9638.0	9344.5	8679.6	7711.9	7132.6
17.5°	7365.6	8018.0	8848.9	9263.6	9190.7	8931.3	8881.6	8914.2	8754.2	8005.5	7337.6
20°	8024.1	8807.0	9341.4	9137.9	8605.1	8247.8	8260.2	8758.9	9232.6	8749.6	7986.9
22.5°	8948.4	9841.5	10051.2	9204.6	8358.1	7934.1	8036.6	8844.3	9995.3	9836.8	8862.9
25°	10144.4	10958.3	10807.7	9447.0	8383.0	7972.9	8055.2	9139.5	10896.2	10924.1	9947.2
27.5°	11303.1	12058.0	11442.9	9768.5	8485.5	8064.5	8173.3	9603.9	11756.7	12104.6	11186.6
30°	12207.2	12732.2	11694.6	10062.1	8687.4	8243.1	8378.3	10045.0	12148.2	12901.5	12140.4
32.5°	12955.8	13333.2	12095.3	10425.5	9058.6	8524.4	8762.0	10580.9	12711.9	13659.5	13073.8
35°	13912.6	14019.7	12593.9	10830.9	9631.8	9013.6	9308.8	11105.9	13249.4	14425.2	13993.4
37.5°	15034.1	14895.8	13064.5	11385.4	10372.7	9779.4	10023.3	11682.1	13692.1	15293.4	14933.1
40°	16143.1	15810.7	13654.8	12245.9	11453.8	10681.9	10970.7	12297.2	14105.3	16163.3	15851.1
42.5°	17085.9	16593.6	14237.2	13191.9	12460.4	11677.5	12022.3	12917.0	14499.7	16905.8	16647.9
45°	17783.4	17171.4	14791.8	14100.6	13847.4	13000.9	13163.9	13626.8	14926.9	17525.5	17303.4
47.5°	18406.3	17752.3	15419.2	15017.0	15060.5	14721.9	14459.4	14453.2	15430.2	18031.9	17923.1
50°	19240.3	18558.5	16093.4	15961.4	16880.9	16655.7	16076.3	15417.7	16067.0	18606.6	18594.2
52.5°	20389.8	19835.2	16916.6	16978.7	18580.2	18727.8	18010.2	16576.5	17064.1	19661.2	19586.7
55°	21748.9	21425.8	18038.1	18148.4	20664.6	20770.3	20057.3	18025.6	18530.4	21188.1	20981.5
57.5°	22809.8	22741.4	19268.3	19552.6	22221.0	22696.3	22040.9	19703.2	20183.1	22474.2	21955.4
60°	23232.2	23563.1	20577.7	20969.1	23661.0	24187.5	23612.8	21177.2	21647.9	23007.0	21888.7
62.5°	23003.9	23743.2	21972.5	21939.9	23982.5	24549.4	24145.5	21997.3	22733.6	22457.1	20781.1
65°	21949.3	23095.6	22781.7	21689.8	22882.7	22929.3	22798.8	21630.8	22989.9	20719.1	18640.7
67.5°	19651.9	21301.5	21716.2	19546.3	19916.0	19613.1	19394.1	19624.0	21654.1	18114.2	15666.3
70°	16006.4	18488.5	18687.4	15633.7	15465.9	15262.4	14825.9	16088.8	19018.2	14846.1	12430.8
72.5°	11769.2	14378.6	14989.0	11466.3	10689.6	10731.6	10386.7	12124.8	15462.8	11028.2	9280.7
75°	8052.2	10411.6	11727.2	8000.9	7068.9	7086.0	7042.5	8591.2	12315.8	7671.6	6944.6
77.5°	5882.3	7438.6	8844.3	5379.0	5222.1	5125.8	5102.5	6011.2	9442.3	5570.0	5392.9
80°	4720.4	5495.5	5941.3	3727.8	4008.9	4001.2	3872.3	4133.2	6166.4	4074.2	4033.8
82.5°	3274.3	4223.4	4813.6	2921.6	2705.8	2660.8	2691.8	3078.6	4358.5	2785.0	2648.3
85°	1727.3	2805.2	4767.0	2589.3	1606.0	1281.5	1593.7	2521.0	3776.0	1475.6	1292.3
87.5°	220.5	810.8	3156.2	1032.9	633.7	341.8	756.5	1419.7	2424.7	301.4	262.5
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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CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4
2.5°	10357.2	10150.6	9880.4	9630.3	9370.8	9113.1	8776.0	8564.8	8418.7	8390.8	8328.7
5°	10105.5	9419.0	8900.2	8451.3	8044.4	7469.7	7151.2	6887.2	6745.8	6731.8	6697.7
7.5°	8945.3	7997.7	7297.2	6662.0	6085.7	5621.3	5108.7	4869.5	4771.7	4795.0	4818.2
10°	7738.4	6679.1	5874.5	5225.2	4717.2	4325.9	3914.2	3636.2	3443.6	3404.8	3397.0
12.5°	6856.1	5694.3	4913.0	4454.7	4061.8	3693.7	3257.2	2929.4	2679.4	2594.0	2536.5
15°	6483.4	5212.8	4394.2	3900.2	3466.9	2999.4	2594.0	2250.7	2020.8	1946.3	1904.3
17.5°	6562.5	5079.2	4037.0	3404.8	2850.2	2362.5	1851.5	1558.0	1419.7	1384.0	1384.0
20°	6978.9	5054.3	3741.9	2948.1	2256.9	1691.6	1272.1	1104.4	1059.4	1054.7	1067.1
22.5°	7562.9	5141.4	3521.3	2552.1	1753.6	1234.8	991.0	928.8	908.7	913.3	927.3
25°	8432.7	5434.8	3361.3	2199.4	1376.2	1011.2	883.8	846.5	837.2	849.7	866.7
27.5°	9464.0	5728.4	3261.9	1933.8	1161.9	924.2	840.4	801.5	807.7	823.3	838.7
30°	10369.7	5969.2	3105.0	1744.3	1095.1	928.8	840.4	787.5	781.3	784.4	789.1
32.5°	11182.0	6132.3	2921.6	1564.1	944.4	824.8	784.4	776.6	742.5	730.1	731.6
35°	11882.5	6132.3	2811.4	1458.5	846.5	731.6	666.4	627.5	610.4	612.0	629.1
37.5°	12558.2	6009.6	2757.1	1399.5	793.7	695.9	638.4	604.3	580.9	576.2	579.4
40°	13154.6	5830.9	2695.0	1374.6	753.3	674.1	619.7	591.8	566.9	559.1	560.7
42.5°	13633.1	5686.5	2626.5	1342.0	728.4	658.6	607.3	582.5	554.5	546.8	545.2
45°	14150.3	5638.4	2536.5	1276.7	740.9	660.1	604.3	577.9	549.8	540.5	537.5
47.5°	14832.2	5789.0	2443.3	1199.1	767.3	667.9	608.9	577.9	548.3	540.5	537.5
50°	15691.1	6143.1	2325.3	1085.8	740.9	689.7	607.3	573.2	548.3	540.5	534.3
52.5°	16793.9	6621.6	2169.9	955.2	725.4	742.5	604.3	563.9	540.5	529.7	518.8
55°	18134.4	7013.0	1985.0	848.1	689.7	728.4	599.6	553.0	528.1	512.6	503.3
57.5°	19116.1	7154.3	1747.4	778.2	640.0	705.2	593.3	539.0	512.6	500.1	487.7
60°	18921.9	6881.0	1547.0	734.7	610.4	636.9	588.7	526.5	498.6	489.3	478.4
62.5°	17367.0	6166.4	1418.1	714.5	591.8	580.9	593.3	514.1	486.2	476.9	473.7
65°	15035.6	5111.8	1366.9	709.8	576.2	548.3	551.4	500.1	472.2	464.4	461.4
67.5°	12402.9	4125.5	1321.9	725.4	556.1	525.0	509.4	481.5	458.2	450.4	444.3
70°	9780.9	3431.2	1301.6	716.1	531.2	501.7	484.6	461.4	441.1	433.3	428.7
72.5°	7876.6	2898.4	1290.8	706.8	498.6	470.7	455.1	435.0	413.2	410.1	405.4
75°	6665.0	2278.6	1182.0	677.2	461.4	433.3	422.5	403.9	382.1	382.1	379.0
77.5°	5141.4	1648.0	983.3	599.6	422.5	391.4	382.1	368.2	343.3	347.9	346.4
80°	3797.7	1074.8	768.8	497.1	374.3	344.8	340.1	326.2	299.8	306.0	306.0
82.5°	2601.8	705.2	553.0	406.9	320.0	292.1	292.1	278.0	248.5	251.6	261.0
85°	1306.3	484.6	413.2	315.3	248.5	234.6	234.6	223.7	194.2	195.7	208.2
87.5°	397.6	292.1	273.3	225.3	178.6	175.5	167.8	160.0	141.4	139.8	147.5
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°	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4
2.5°	8233.8	8145.3	8038.1	7802.0	7722.9	7718.2	7789.7	7715.1	7858.0	7797.4	7864.2
5°	6640.2	6553.2	6433.6	6132.3	5949.0	5824.8	5765.8	5591.8	5717.6	5625.9	5702.0
7.5°	4883.5	4903.6	4824.4	4647.4	4248.2	4047.8	3929.8	3824.1	3915.8	3906.4	4052.5
10°	3432.7	3487.0	3431.2	3252.6	2929.4	2819.2	2840.9	2882.9	3002.5	3064.6	3289.8
12.5°	2471.2	2468.2	2432.4	2272.4	2059.6	2072.1	2160.6	2233.6	2343.9	2409.2	2639.0
15°	1845.3	1817.3	1801.8	1671.3	1550.2	1576.6	1620.0	1627.8	1697.7	1736.6	1922.9
17.5°	1394.8	1408.8	1425.9	1332.7	1241.0	1224.0	1189.8	1147.9	1168.1	1175.8	1269.0
20°	1107.4	1163.4	1205.3	1140.1	1046.9	997.2	953.7	925.8	925.8	924.2	950.6
22.5°	967.7	1008.1	1053.1	1008.1	924.2	880.7	855.8	834.1	831.0	831.0	855.8
25°	891.6	921.1	964.5	933.5	871.3	838.7	815.5	787.5	776.6	773.6	790.6
27.5°	854.3	866.7	888.4	860.5	807.7	792.2	785.9	761.1	747.2	739.4	756.5
30°	790.6	787.5	789.1	761.1	719.1	717.6	728.4	733.1	728.4	726.9	753.3
32.5°	731.6	725.4	723.8	699.0	660.1	650.8	660.1	669.4	680.4	695.9	726.9
35°	657.0	672.6	681.9	660.1	613.6	585.5	574.7	557.6	548.3	548.3	584.0
37.5°	598.0	633.7	647.7	627.5	576.2	537.5	518.8	515.7	517.2	523.4	557.6
40°	577.9	604.3	616.6	596.5	545.2	509.4	498.6	495.5	498.6	507.9	542.1
42.5°	565.4	584.0	582.5	557.6	515.7	490.8	484.6	481.5	484.6	494.0	531.2
45°	554.5	566.9	554.5	525.0	486.2	473.7	475.3	473.7	476.9	486.2	521.9
47.5°	545.2	549.8	534.3	504.8	464.4	461.4	467.5	472.2	475.3	483.0	520.4
50°	531.2	531.2	517.2	486.2	445.8	447.3	455.1	466.0	467.5	476.9	506.4
52.5°	514.1	512.6	503.3	473.7	430.3	435.0	435.0	447.3	450.4	461.4	492.3
55°	500.1	497.1	492.3	464.4	416.2	424.0	419.4	424.0	431.8	442.6	476.9
57.5°	487.7	481.5	481.5	456.6	405.4	408.5	397.6	403.9	413.2	422.5	458.2
60°	475.3	469.1	472.2	445.8	388.3	385.2	380.5	393.0	396.1	406.9	442.6
62.5°	461.4	456.6	458.2	433.3	375.9	368.2	368.2	379.0	380.5	396.1	430.3
65°	450.4	444.3	442.6	420.9	361.9	352.6	357.2	361.9	365.0	380.5	413.2
67.5°	439.6	427.2	427.2	410.1	346.4	337.1	346.4	344.8	349.4	363.5	389.8
70°	425.5	408.5	410.1	402.3	330.8	320.0	327.8	326.2	329.3	338.6	365.0
72.5°	403.9	389.8	393.0	389.8	315.3	299.8	302.9	302.9	302.9	310.7	338.6
75°	375.9	365.0	374.3	382.1	296.7	275.0	278.0	278.0	273.3	278.0	312.2
77.5°	341.8	335.5	366.5	355.7	275.0	248.5	248.5	245.4	236.1	242.3	279.6
80°	304.4	299.8	338.6	298.2	250.1	215.9	212.8	205.0	195.7	200.4	237.6
82.5°	265.6	261.0	284.3	228.3	215.9	178.6	170.8	156.9	147.5	152.2	186.4
85°	217.5	217.5	219.0	172.4	164.7	136.7	127.4	108.7	97.9	101.0	133.6
87.5°	155.3	160.0	147.5	118.0	97.9	76.1	69.9	59.0	49.7	57.5	69.9
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: P191276

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4	9546.4
2.5°	8205.9	8376.7	8570.9	8819.5	9032.2	9381.7	9717.2	9919.1
5°	6135.5	6419.6	6773.8	7228.9	7652.9	8289.8	8922.0	9327.4
7.5°	4391.1	4695.5	5077.6	5646.2	6245.7	7058.1	7893.7	8378.3
10°	3633.1	3945.3	4266.8	4650.4	5141.4	6025.1	7013.0	7559.7
12.5°	3005.5	3339.5	3685.9	4089.8	4544.9	5333.9	6472.4	7101.5
15°	2300.4	2673.2	3081.6	3592.7	4162.8	5074.6	6338.9	7022.4
17.5°	1576.6	1992.8	2494.6	3125.2	3822.6	4990.7	6578.1	7365.6
20°	1085.8	1388.7	1924.5	2663.9	3502.6	4979.7	7037.9	8024.1
22.5°	908.7	1043.8	1435.2	2239.9	3261.9	5113.3	7750.8	8948.4
25°	840.4	921.1	1146.3	1871.7	3086.3	5420.9	8732.4	10144.4
27.5°	799.9	873.0	1040.6	1630.9	2948.1	5778.1	9687.8	11303.1
30°	815.5	890.1	1011.2	1508.2	2760.1	6076.4	10535.8	12207.2
32.5°	734.7	767.3	866.7	1399.5	2625.0	6326.4	11278.2	12955.8
35°	625.9	683.4	773.6	1348.2	2628.2	6494.2	12087.5	13912.6
37.5°	596.5	654.0	719.1	1329.6	2663.9	6672.8	13016.3	15034.1
40°	577.9	630.6	686.5	1318.7	2698.0	6836.0	13926.6	16143.1
42.5°	565.4	613.6	683.4	1281.5	2715.1	6981.9	14675.3	17085.9
45°	563.9	613.6	695.9	1244.2	2741.5	7138.9	15302.8	17783.4
47.5°	565.4	633.7	672.6	1199.1	2741.5	7401.4	16039.1	18406.3
50°	559.1	667.9	647.7	1135.5	2677.9	7898.4	17048.7	19240.3
52.5°	556.1	663.3	599.6	1037.6	2567.5	8687.4	18342.5	20389.8
55°	548.3	640.0	565.4	891.6	2438.6	9547.9	19728.0	21748.9
57.5°	540.5	566.9	546.8	764.2	2239.9	10153.7	20681.7	22809.8
60°	605.8	495.5	531.2	702.1	1974.2	10319.9	20644.5	23232.2
62.5°	560.7	464.4	511.1	688.1	1787.8	9853.9	19690.8	23003.9
65°	439.6	444.3	490.8	728.4	1738.1	8619.1	18000.9	21949.3
67.5°	402.3	424.0	470.7	779.7	1742.8	6901.1	15475.2	19651.9
70°	379.0	402.3	447.3	806.2	1755.2	5144.4	12235.1	16006.4
72.5°	352.6	372.8	420.9	810.8	1674.5	3737.1	9429.9	11769.2
75°	321.5	340.1	383.6	706.8	1387.0	2592.4	7213.3	8052.2
77.5°	285.8	299.8	337.1	545.2	1029.8	1658.9	5414.7	5882.3
80°	243.9	251.6	282.7	399.2	705.2	1037.6	4283.9	4720.4
82.5°	195.7	198.9	219.0	299.8	458.2	666.4	2868.9	3274.3
85°	138.2	138.2	150.7	217.5	312.2	422.5	1558.0	1727.3
87.5°	65.3	66.8	66.8	119.6	163.1	214.3	358.9	220.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)