

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: P191316

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191316
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-SLR-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT 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

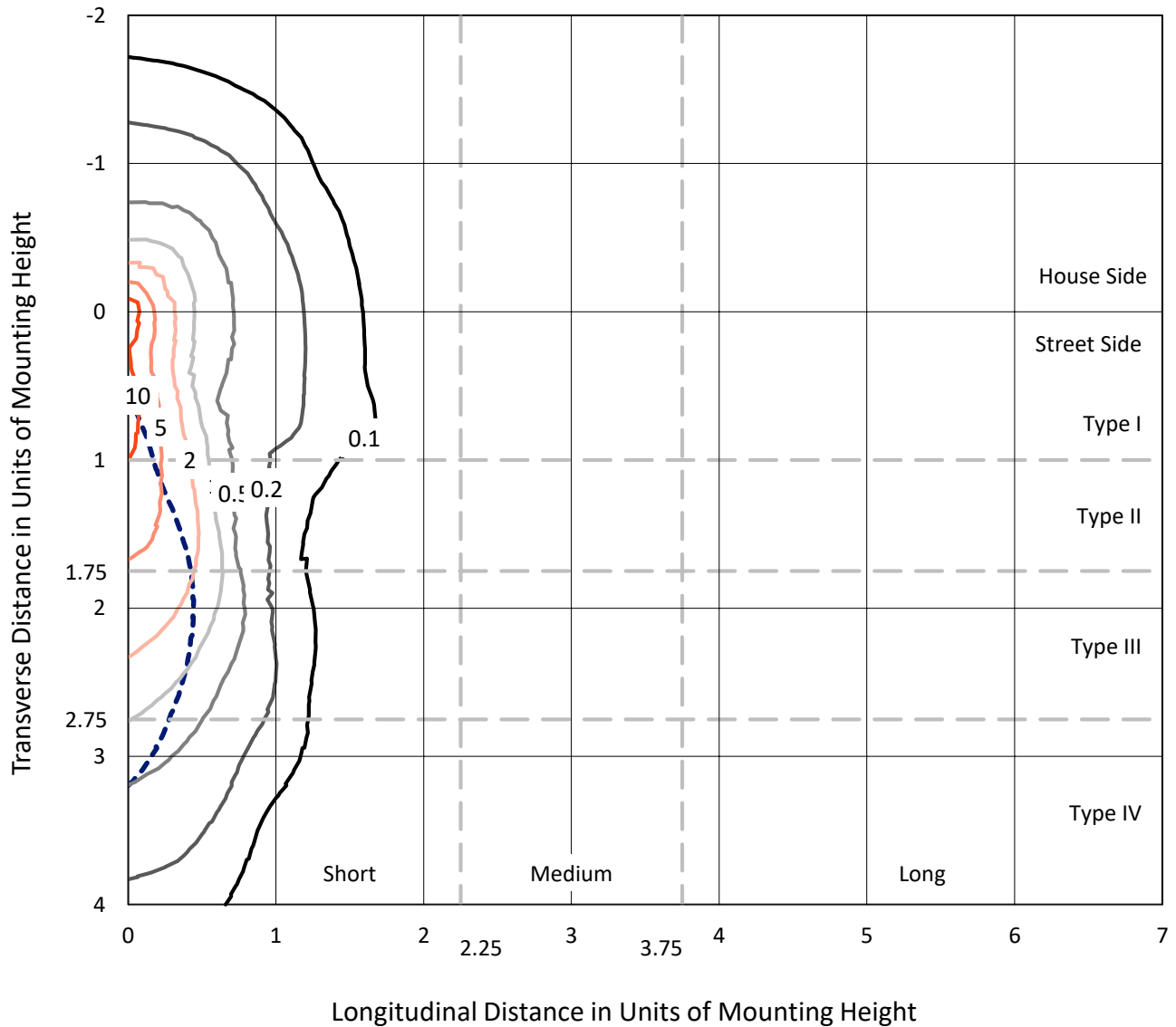
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191316
 CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-600

Iso-Footcandle Lines of Horizontal Illumination

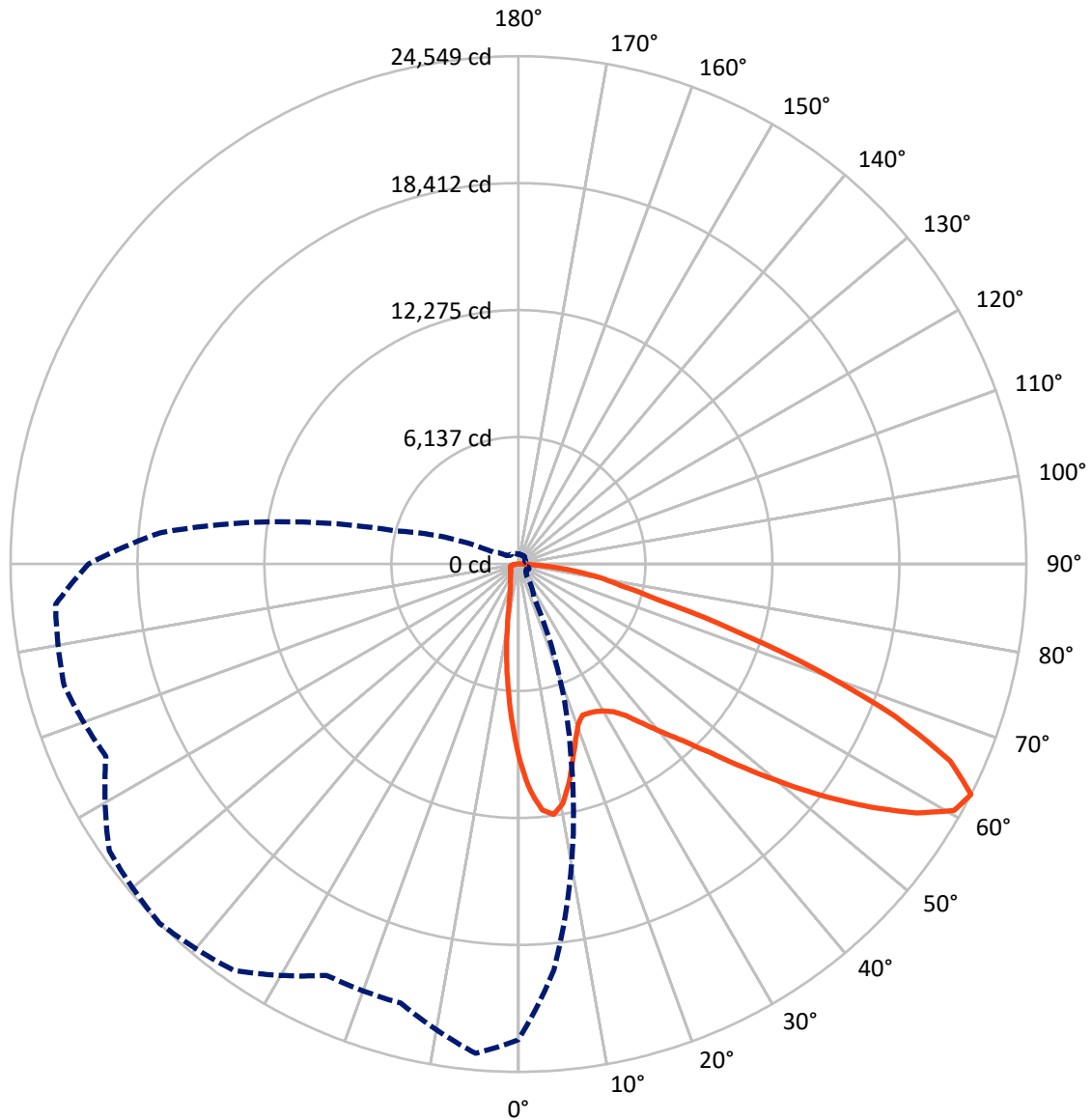
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191316
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-600

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P191316

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

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

Coefficient of Utilization

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



REPORT NUMBER: P191316

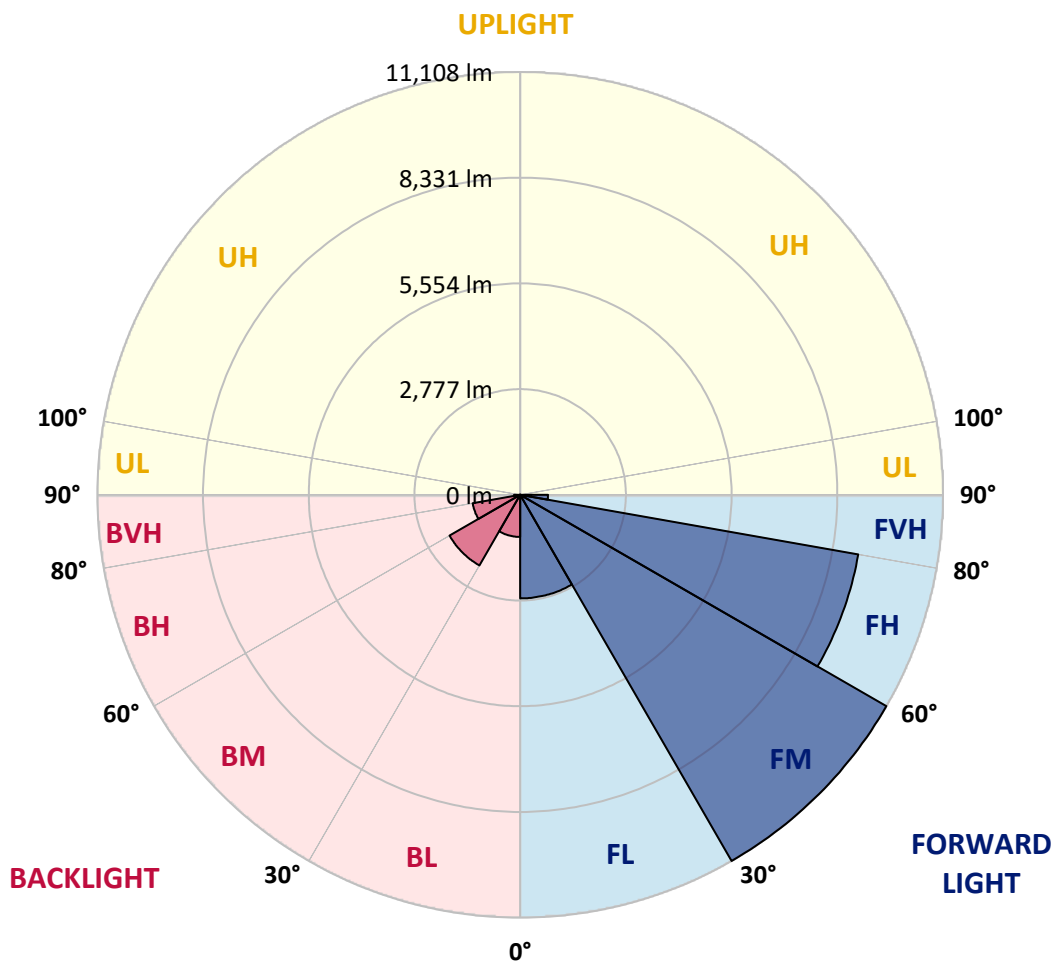
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-600

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





REPORT NUMBER: P191316

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

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	9717.2	9381.7	9032.2	8819.5	8570.9	8376.7	8205.9	7864.2	7797.4	7858.0
5°	9327.4	8922.0	8289.8	7652.9	7228.9	6773.8	6419.6	6135.5	5702.0	5625.9	5717.6
7.5°	8378.3	7893.7	7058.1	6245.7	5646.2	5077.6	4695.5	4391.1	4052.5	3906.4	3915.8
10°	7559.7	7013.0	6025.1	5141.4	4650.4	4266.8	3945.3	3633.1	3289.8	3064.6	3002.5
12.5°	7101.5	6472.4	5333.9	4544.9	4089.8	3685.9	3339.5	3005.5	2639.0	2409.2	2343.9
15°	7022.4	6338.9	5074.6	4162.8	3592.7	3081.6	2673.2	2300.4	1922.9	1736.6	1697.7
17.5°	7365.6	6578.1	4990.7	3822.6	3125.2	2494.6	1992.8	1576.6	1269.0	1175.8	1168.1
20°	8024.1	7037.9	4979.7	3502.6	2663.9	1924.5	1388.7	1085.8	950.6	924.2	925.8
22.5°	8948.4	7750.8	5113.3	3261.9	2239.9	1435.2	1043.8	908.7	855.8	831.0	831.0
25°	10144.4	8732.4	5420.9	3086.3	1871.7	1146.3	921.1	840.4	790.6	773.6	776.6
27.5°	11303.1	9687.8	5778.1	2948.1	1630.9	1040.6	873.0	799.9	756.5	739.4	747.2
30°	12207.2	10535.8	6076.4	2760.1	1508.2	1011.2	890.1	815.5	753.3	726.9	728.4
32.5°	12955.8	11278.2	6326.4	2625.0	1399.5	866.7	767.3	734.7	726.9	695.9	680.4
35°	13912.6	12087.5	6494.2	2628.2	1348.2	773.6	683.4	625.9	584.0	548.3	548.3
37.5°	15034.1	13016.3	6672.8	2663.9	1329.6	719.1	654.0	596.5	557.6	523.4	517.2
40°	16143.1	13926.6	6836.0	2698.0	1318.7	686.5	630.6	577.9	542.1	507.9	498.6
42.5°	17085.9	14675.3	6981.9	2715.1	1281.5	683.4	613.6	565.4	531.2	494.0	484.6
45°	17783.4	15302.8	7138.9	2741.5	1244.2	695.9	613.6	563.9	521.9	486.2	476.9
47.5°	18406.3	16039.1	7401.4	2741.5	1199.1	672.6	633.7	565.4	520.4	483.0	475.3
50°	19240.3	17048.7	7898.4	2677.9	1135.5	647.7	667.9	559.1	506.4	476.9	467.5
52.5°	20389.8	18342.5	8687.4	2567.5	1037.6	599.6	663.3	556.1	492.3	461.4	450.4
55°	21748.9	19728.0	9547.9	2438.6	891.6	565.4	640.0	548.3	476.9	442.6	431.8
57.5°	22809.8	20681.7	10153.7	2239.9	764.2	546.8	566.9	540.5	458.2	422.5	413.2
60°	23232.2	20644.5	10319.9	1974.2	702.1	531.2	495.5	605.8	442.6	406.9	396.1
62.5°	23003.9	19690.8	9853.9	1787.8	688.1	511.1	464.4	560.7	430.3	396.1	380.5
65°	21949.3	18000.9	8619.1	1738.1	728.4	490.8	444.3	439.6	413.2	380.5	365.0
67.5°	19651.9	15475.2	6901.1	1742.8	779.7	470.7	424.0	402.3	389.8	363.5	349.4
70°	16006.4	12235.1	5144.4	1755.2	806.2	447.3	402.3	379.0	365.0	338.6	329.3
72.5°	11769.2	9429.9	3737.1	1674.5	810.8	420.9	372.8	352.6	338.6	310.7	302.9
75°	8052.2	7213.3	2592.4	1387.0	706.8	383.6	340.1	321.5	312.2	278.0	273.3
77.5°	5882.3	5414.7	1658.9	1029.8	545.2	337.1	299.8	285.8	279.6	242.3	236.1
80°	4720.4	4283.9	1037.6	705.2	399.2	282.7	251.6	243.9	237.6	200.4	195.7
82.5°	3274.3	2868.9	666.4	458.2	299.8	219.0	198.9	195.7	186.4	152.2	147.5
85°	1727.3	1558.0	422.5	312.2	217.5	150.7	138.2	138.2	133.6	101.0	97.9
87.5°	220.5	358.9	214.3	163.1	119.6	66.8	66.8	65.3	69.9	57.5	49.7
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: P191316

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-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°	7715.1	7789.7	7718.2	7722.9	7802.0	8038.1	8145.3	8233.8	8328.7	8390.8	8418.7
5°	5591.8	5765.8	5824.8	5949.0	6132.3	6433.6	6553.2	6640.2	6697.7	6731.8	6745.8
7.5°	3824.1	3929.8	4047.8	4248.2	4647.4	4824.4	4903.6	4883.5	4818.2	4795.0	4771.7
10°	2882.9	2840.9	2819.2	2929.4	3252.6	3431.2	3487.0	3432.7	3397.0	3404.8	3443.6
12.5°	2233.6	2160.6	2072.1	2059.6	2272.4	2432.4	2468.2	2471.2	2536.5	2594.0	2679.4
15°	1627.8	1620.0	1576.6	1550.2	1671.3	1801.8	1817.3	1845.3	1904.3	1946.3	2020.8
17.5°	1147.9	1189.8	1224.0	1241.0	1332.7	1425.9	1408.8	1394.8	1384.0	1384.0	1419.7
20°	925.8	953.7	997.2	1046.9	1140.1	1205.3	1163.4	1107.4	1067.1	1054.7	1059.4
22.5°	834.1	855.8	880.7	924.2	1008.1	1053.1	1008.1	967.7	927.3	913.3	908.7
25°	787.5	815.5	838.7	871.3	933.5	964.5	921.1	891.6	866.7	849.7	837.2
27.5°	761.1	785.9	792.2	807.7	860.5	888.4	866.7	854.3	838.7	823.3	807.7
30°	733.1	728.4	717.6	719.1	761.1	789.1	787.5	790.6	789.1	784.4	781.3
32.5°	669.4	660.1	650.8	660.1	699.0	723.8	725.4	731.6	731.6	730.1	742.5
35°	557.6	574.7	585.5	613.6	660.1	681.9	672.6	657.0	629.1	612.0	610.4
37.5°	515.7	518.8	537.5	576.2	627.5	647.7	633.7	598.0	579.4	576.2	580.9
40°	495.5	498.6	509.4	545.2	596.5	616.6	604.3	577.9	560.7	559.1	566.9
42.5°	481.5	484.6	490.8	515.7	557.6	582.5	584.0	565.4	545.2	546.8	554.5
45°	473.7	475.3	473.7	486.2	525.0	554.5	566.9	554.5	537.5	540.5	549.8
47.5°	472.2	467.5	461.4	464.4	504.8	534.3	549.8	545.2	537.5	540.5	548.3
50°	466.0	455.1	447.3	445.8	486.2	517.2	531.2	531.2	534.3	540.5	548.3
52.5°	447.3	435.0	435.0	430.3	473.7	503.3	512.6	514.1	518.8	529.7	540.5
55°	424.0	419.4	424.0	416.2	464.4	492.3	497.1	500.1	503.3	512.6	528.1
57.5°	403.9	397.6	408.5	405.4	456.6	481.5	481.5	487.7	487.7	500.1	512.6
60°	393.0	380.5	385.2	388.3	445.8	472.2	469.1	475.3	478.4	489.3	498.6
62.5°	379.0	368.2	368.2	375.9	433.3	458.2	456.6	461.4	473.7	476.9	486.2
65°	361.9	357.2	352.6	361.9	420.9	442.6	444.3	450.4	461.4	464.4	472.2
67.5°	344.8	346.4	337.1	346.4	410.1	427.2	427.2	439.6	444.3	450.4	458.2
70°	326.2	327.8	320.0	330.8	402.3	410.1	408.5	425.5	428.7	433.3	441.1
72.5°	302.9	302.9	299.8	315.3	389.8	393.0	389.8	403.9	405.4	410.1	413.2
75°	278.0	278.0	275.0	296.7	382.1	374.3	365.0	375.9	379.0	382.1	382.1
77.5°	245.4	248.5	248.5	275.0	355.7	366.5	335.5	341.8	346.4	347.9	343.3
80°	205.0	212.8	215.9	250.1	298.2	338.6	299.8	304.4	306.0	306.0	299.8
82.5°	156.9	170.8	178.6	215.9	228.3	284.3	261.0	265.6	261.0	251.6	248.5
85°	108.7	127.4	136.7	164.7	172.4	219.0	217.5	217.5	208.2	195.7	194.2
87.5°	59.0	69.9	76.1	97.9	118.0	147.5	160.0	155.3	147.5	139.8	141.4
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: P191316

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

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°	8564.8	8776.0	9113.1	9370.8	9630.3	9880.4	10150.6	10357.2	10532.7	10601.0	10809.2
5°	6887.2	7151.2	7469.7	8044.4	8451.3	8900.2	9419.0	10105.5	10369.7	10734.6	11332.7
7.5°	4869.5	5108.7	5621.3	6085.7	6662.0	7297.2	7997.7	8945.3	9291.7	9877.2	10851.2
10°	3636.2	3914.2	4325.9	4717.2	5225.2	5874.5	6679.1	7738.4	8159.4	8794.6	9916.1
12.5°	2929.4	3257.2	3693.7	4061.8	4454.7	4913.0	5694.3	6856.1	7420.0	7976.0	9109.9
15°	2250.7	2594.0	2999.4	3466.9	3900.2	4394.2	5212.8	6483.4	7132.6	7711.9	8679.6
17.5°	1558.0	1851.5	2362.5	2850.2	3404.8	4037.0	5079.2	6562.5	7337.6	8005.5	8754.2
20°	1104.4	1272.1	1691.6	2256.9	2948.1	3741.9	5054.3	6978.9	7986.9	8749.6	9232.6
22.5°	928.8	991.0	1234.8	1753.6	2552.1	3521.3	5141.4	7562.9	8862.9	9836.8	9995.3
25°	846.5	883.8	1011.2	1376.2	2199.4	3361.3	5434.8	8432.7	9947.2	10924.1	10896.2
27.5°	801.5	840.4	924.2	1161.9	1933.8	3261.9	5728.4	9464.0	11186.6	12104.6	11756.7
30°	787.5	840.4	928.8	1095.1	1744.3	3105.0	5969.2	10369.7	12140.4	12901.5	12148.2
32.5°	776.6	784.4	824.8	944.4	1564.1	2921.6	6132.3	11182.0	13073.8	13659.5	12711.9
35°	627.5	666.4	731.6	846.5	1458.5	2811.4	6132.3	11882.5	13993.4	14425.2	13249.4
37.5°	604.3	638.4	695.9	793.7	1399.5	2757.1	6009.6	12558.2	14933.1	15293.4	13692.1
40°	591.8	619.7	674.1	753.3	1374.6	2695.0	5830.9	13154.6	15851.1	16163.3	14105.3
42.5°	582.5	607.3	658.6	728.4	1342.0	2626.5	5686.5	13633.1	16647.9	16905.8	14499.7
45°	577.9	604.3	660.1	740.9	1276.7	2536.5	5638.4	14150.3	17303.4	17525.5	14926.9
47.5°	577.9	608.9	667.9	767.3	1199.1	2443.3	5789.0	14832.2	17923.1	18031.9	15430.2
50°	573.2	607.3	689.7	740.9	1085.8	2325.3	6143.1	15691.1	18594.2	18606.6	16067.0
52.5°	563.9	604.3	742.5	725.4	955.2	2169.9	6621.6	16793.9	19586.7	19661.2	17064.1
55°	553.0	599.6	728.4	689.7	848.1	1985.0	7013.0	18134.4	20981.5	21188.1	18530.4
57.5°	539.0	593.3	705.2	640.0	778.2	1747.4	7154.3	19116.1	21955.4	22474.2	20183.1
60°	526.5	588.7	636.9	610.4	734.7	1547.0	6881.0	18921.9	21888.7	23007.0	21647.9
62.5°	514.1	593.3	580.9	591.8	714.5	1418.1	6166.4	17367.0	20781.1	22457.1	22733.6
65°	500.1	551.4	548.3	576.2	709.8	1366.9	5111.8	15035.6	18640.7	20719.1	22989.9
67.5°	481.5	509.4	525.0	556.1	725.4	1321.9	4125.5	12402.9	15666.3	18114.2	21654.1
70°	461.4	484.6	501.7	531.2	716.1	1301.6	3431.2	9780.9	12430.8	14846.1	19018.2
72.5°	435.0	455.1	470.7	498.6	706.8	1290.8	2898.4	7876.6	9280.7	11028.2	15462.8
75°	403.9	422.5	433.3	461.4	677.2	1182.0	2278.6	6665.0	6944.6	7671.6	12315.8
77.5°	368.2	382.1	391.4	422.5	599.6	983.3	1648.0	5141.4	5392.9	5570.0	9442.3
80°	326.2	340.1	344.8	374.3	497.1	768.8	1074.8	3797.7	4033.8	4074.2	6166.4
82.5°	278.0	292.1	292.1	320.0	406.9	553.0	705.2	2601.8	2648.3	2785.0	4358.5
85°	223.7	234.6	234.6	248.5	315.3	413.2	484.6	1306.3	1292.3	1475.6	3776.0
87.5°	160.0	167.8	175.5	178.6	225.3	273.3	292.1	397.6	262.5	301.4	2424.7
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: P191316

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-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°	10966.0	11054.6	10964.5	10899.2	10618.1	10386.7	10077.6	9919.1
5°	11787.8	12012.9	11936.8	11663.5	11076.3	10416.2	9666.0	9327.4
7.5°	11688.3	12211.8	12224.3	11713.2	10848.0	9875.7	8859.9	8378.3
10°	10914.8	11584.3	11775.3	11279.9	10361.9	9274.6	8109.6	7559.7
12.5°	10051.2	10706.7	10852.7	10681.9	9914.5	8822.5	7640.5	7101.5
15°	9344.5	9638.0	9811.9	9961.1	9530.8	8642.4	7614.1	7022.4
17.5°	8914.2	8881.6	8931.3	9190.7	9263.6	8848.9	8018.0	7365.6
20°	8758.9	8260.2	8247.8	8605.1	9137.9	9341.4	8807.0	8024.1
22.5°	8844.3	8036.6	7934.1	8358.1	9204.6	10051.2	9841.5	8948.4
25°	9139.5	8055.2	7972.9	8383.0	9447.0	10807.7	10958.3	10144.4
27.5°	9603.9	8173.3	8064.5	8485.5	9768.5	11442.9	12058.0	11303.1
30°	10045.0	8378.3	8243.1	8687.4	10062.1	11694.6	12732.2	12207.2
32.5°	10580.9	8762.0	8524.4	9058.6	10425.5	12095.3	13333.2	12955.8
35°	11105.9	9308.8	9013.6	9631.8	10830.9	12593.9	14019.7	13912.6
37.5°	11682.1	10023.3	9779.4	10372.7	11385.4	13064.5	14895.8	15034.1
40°	12297.2	10970.7	10681.9	11453.8	12245.9	13654.8	15810.7	16143.1
42.5°	12917.0	12022.3	11677.5	12460.4	13191.9	14237.2	16593.6	17085.9
45°	13626.8	13163.9	13000.9	13847.4	14100.6	14791.8	17171.4	17783.4
47.5°	14453.2	14459.4	14721.9	15060.5	15017.0	15419.2	17752.3	18406.3
50°	15417.7	16076.3	16655.7	16880.9	15961.4	16093.4	18558.5	19240.3
52.5°	16576.5	18010.2	18727.8	18580.2	16978.7	16916.6	19835.2	20389.8
55°	18025.6	20057.3	20770.3	20664.6	18148.4	18038.1	21425.8	21748.9
57.5°	19703.2	22040.9	22696.3	22221.0	19552.6	19268.3	22741.4	22809.8
60°	21177.2	23612.8	24187.5	23661.0	20969.1	20577.7	23563.1	23232.2
62.5°	21997.3	24145.5	24549.4	23982.5	21939.9	21972.5	23743.2	23003.9
65°	21630.8	22798.8	22929.3	22882.7	21689.8	22781.7	23095.6	21949.3
67.5°	19624.0	19394.1	19613.1	19916.0	19546.3	21716.2	21301.5	19651.9
70°	16088.8	14825.9	15262.4	15465.9	15633.7	18687.4	18488.5	16006.4
72.5°	12124.8	10386.7	10731.6	10689.6	11466.3	14989.0	14378.6	11769.2
75°	8591.2	7042.5	7086.0	7068.9	8000.9	11727.2	10411.6	8052.2
77.5°	6011.2	5102.5	5125.8	5222.1	5379.0	8844.3	7438.6	5882.3
80°	4133.2	3872.3	4001.2	4008.9	3727.8	5941.3	5495.5	4720.4
82.5°	3078.6	2691.8	2660.8	2705.8	2921.6	4813.6	4223.4	3274.3
85°	2521.0	1593.7	1281.5	1606.0	2589.3	4767.0	2805.2	1727.3
87.5°	1419.7	756.5	341.8	633.7	1032.9	3156.2	810.8	220.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)