

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: P269415

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269415
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-SLR-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA 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: 21961.6 lumens
Efficiency: N/A
Efficacy: 88.2 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 - G4

Input Watts (W): 249
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

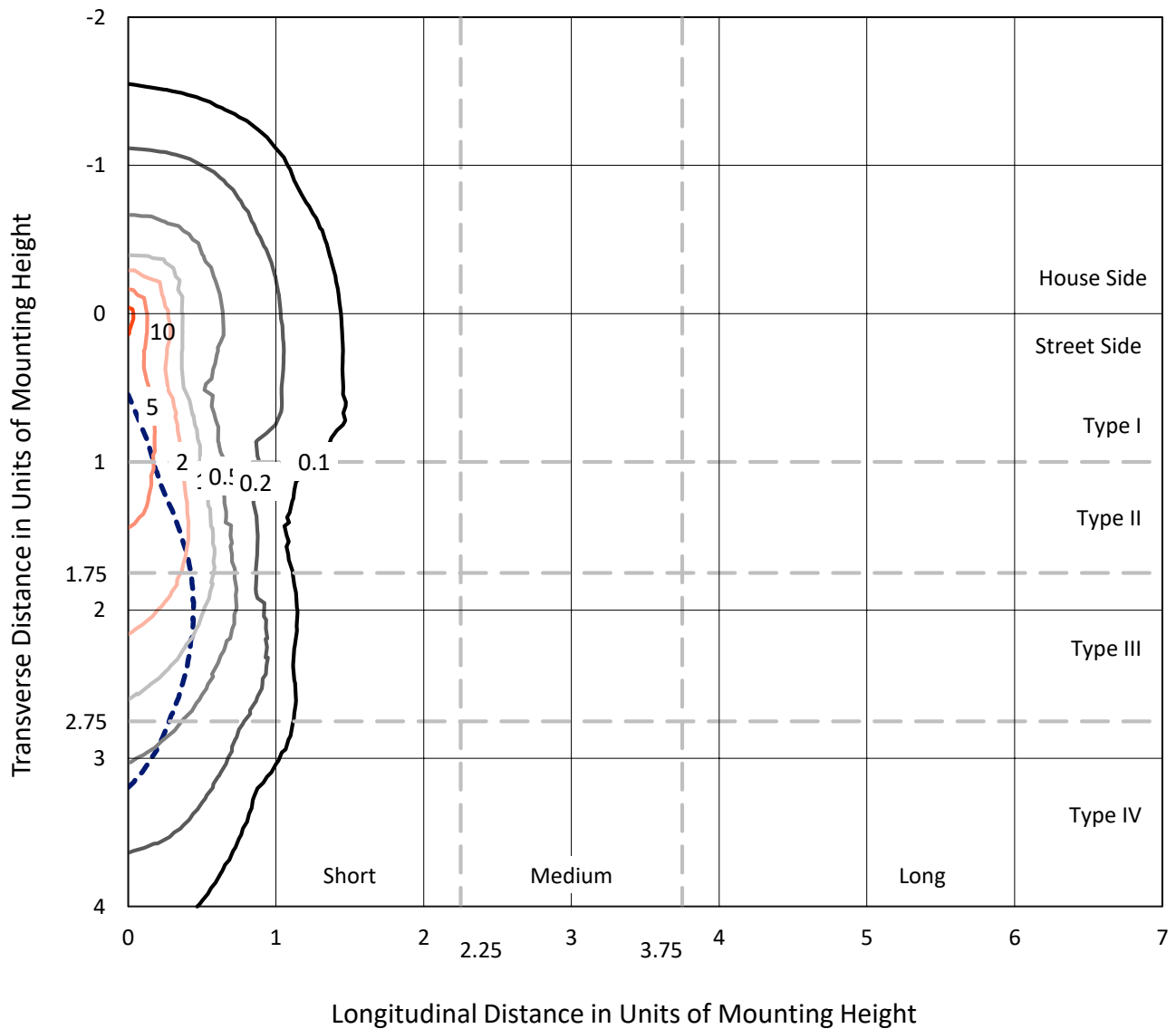


REPORT NUMBER: P269415

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-800

Iso-Footcandle Lines of Horizontal Illumination

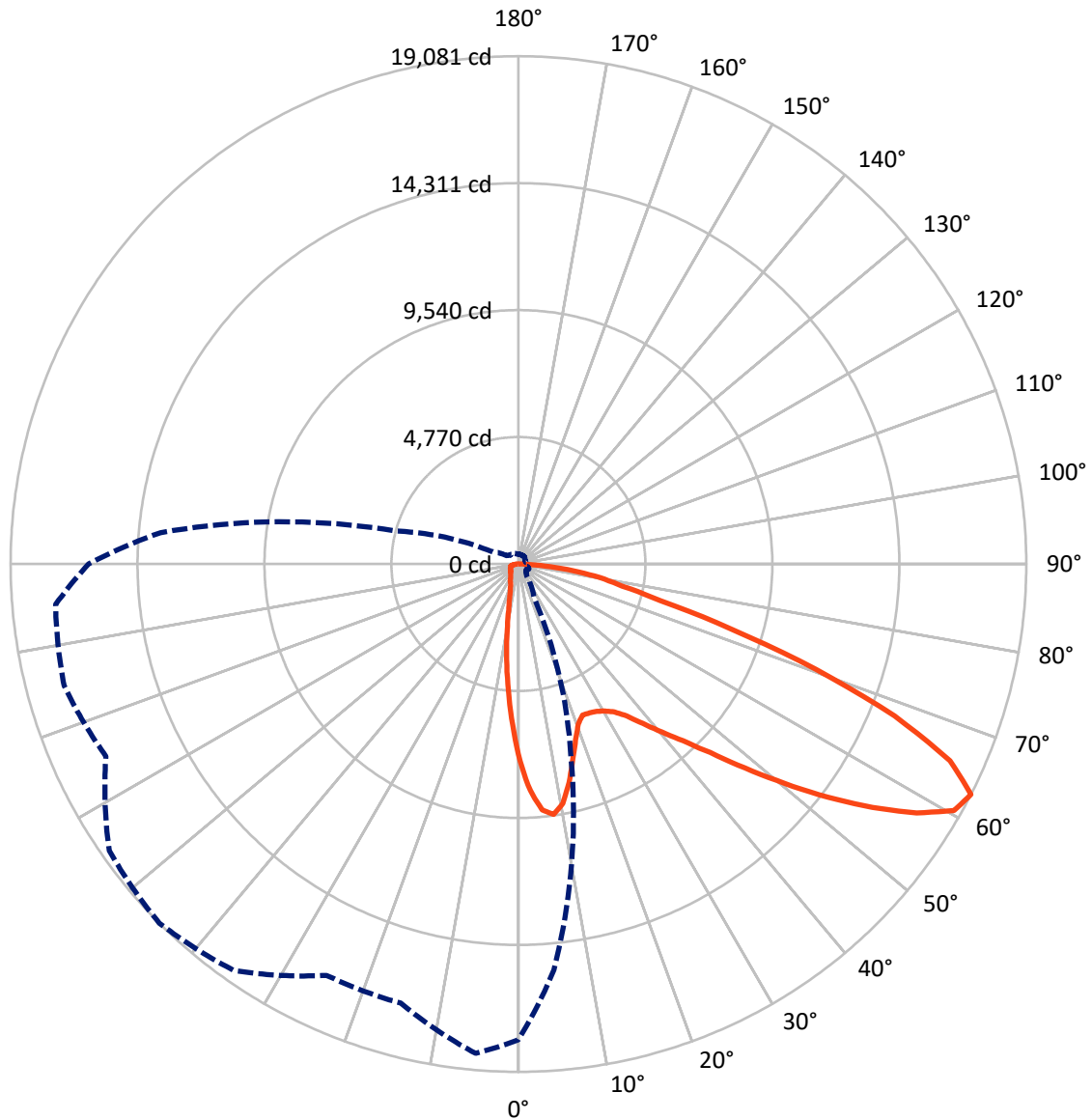
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269415
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269415

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3634.3	0.0	3634.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18327.3	0.0	18327.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	21961.6	0.0	21961.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.1	2.5
10°-20°	990.5	4.5
20°-30°	1444.1	6.6
30°-40°	2224.1	10.1
40°-50°	3273.3	14.9
50°-60°	4801.2	21.9
60°-70°	5367.0	24.4
70°-80°	2627.6	12.0
80°-90°	693.8	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°	21961.6	100.0
0°-180°	21961.6	100.0

Coefficient of Utilization



REPORT NUMBER: P269415

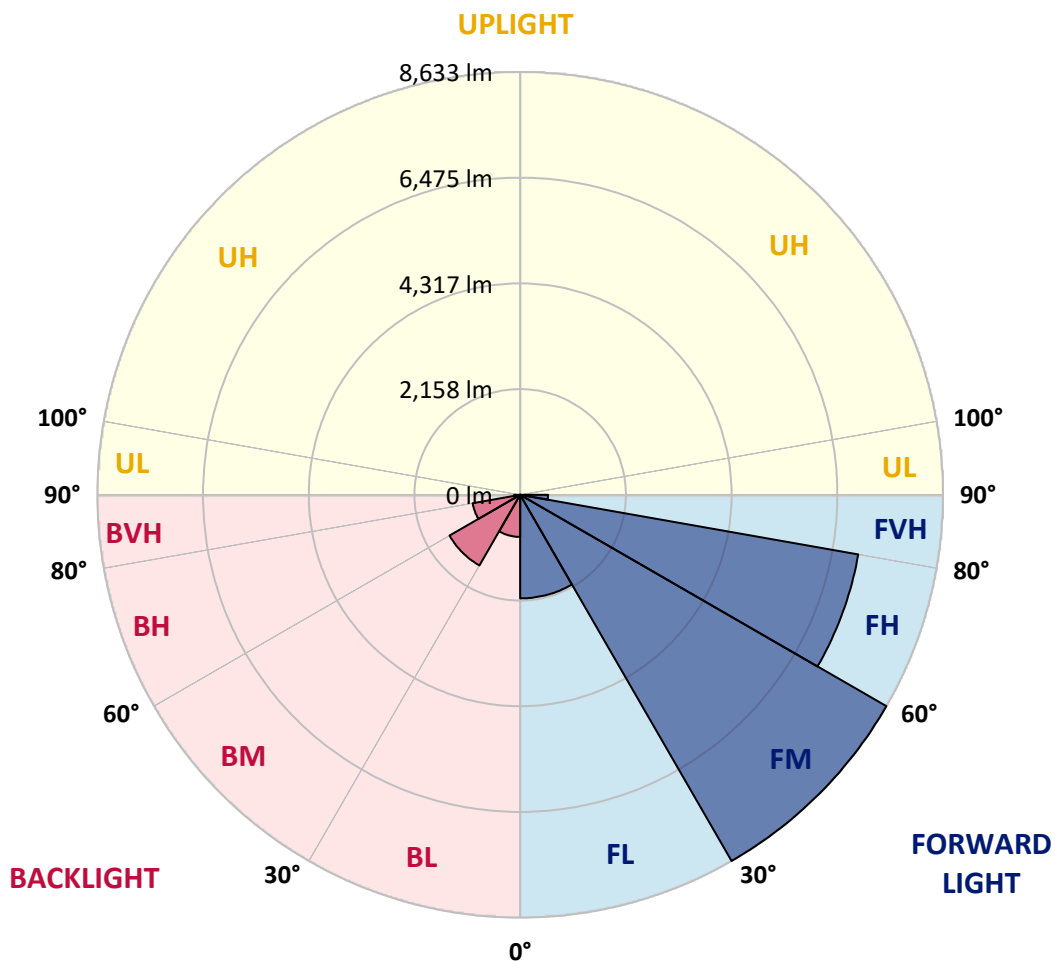
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.8	9.6			
FM (30°-60°)	8633.3	39.3			
FH (60°-80°)	7009.4	31.9			G3/7500
FVH (80°-90°)	569.7	2.6			G4/750
BL (0°-30°)	859.8	3.9	B2/1000		
BM (30°-60°)	1665.2	7.6	B2/2500		
BH (60°-80°)	985.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	124.0	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





REPORT NUMBER: P269415

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8
2.5°	7709.6	7552.6	7291.8	7020.3	6854.8	6661.7	6510.7	6378.0	6112.3	6060.4	6107.5
5°	7249.6	6934.5	6443.2	5948.1	5618.5	5264.8	4989.6	4768.7	4431.9	4372.7	4443.9
7.5°	6512.0	6135.3	5485.8	4854.4	4388.4	3946.6	3649.5	3412.9	3149.7	3036.2	3043.5
10°	5875.8	5450.7	4683.0	3996.0	3614.5	3316.4	3066.5	2823.8	2556.9	2381.9	2333.6
12.5°	5519.5	5030.7	4145.8	3532.4	3178.7	2864.9	2595.7	2336.0	2051.1	1872.4	1821.8
15°	5458.0	4926.8	3944.1	3235.4	2792.4	2395.2	2077.7	1787.9	1494.6	1349.8	1319.5
17.5°	5724.8	5112.8	3878.9	2971.1	2428.9	1938.8	1548.9	1225.4	986.2	913.8	907.8
20°	6236.8	5470.0	3870.4	2722.4	2070.5	1495.8	1079.4	843.9	738.9	718.4	719.5
22.5°	6955.0	6024.3	3974.3	2535.2	1740.8	1115.5	811.3	706.2	665.3	645.9	645.9
25°	7884.7	6787.2	4213.3	2398.8	1454.7	890.9	715.9	653.2	614.5	601.2	603.7
27.5°	8785.2	7529.8	4490.9	2291.3	1267.6	808.8	678.5	621.7	587.9	574.6	580.7
30°	9487.9	8188.9	4722.7	2145.3	1172.3	785.9	691.8	633.8	585.5	565.0	566.2
32.5°	10069.8	8765.9	4917.1	2040.3	1087.8	673.6	596.4	571.1	565.0	540.9	528.8
35°	10813.4	9395.0	5047.5	2042.7	1048.0	601.2	531.2	486.5	454.0	426.2	426.2
37.5°	11685.1	10116.8	5186.4	2070.5	1033.4	558.9	508.3	463.5	433.4	406.8	402.0
40°	12547.0	10824.2	5313.1	2097.1	1025.0	533.7	490.1	449.2	421.3	394.7	387.4
42.5°	13279.9	11406.1	5426.7	2110.3	996.0	531.2	476.9	439.5	413.0	383.9	376.7
45°	13822.0	11893.9	5548.7	2130.8	967.0	540.9	476.9	438.3	405.7	377.8	370.6
47.5°	14306.0	12466.1	5752.6	2130.8	932.0	522.8	492.6	439.5	404.4	375.4	369.5
50°	14954.4	13250.9	6138.8	2081.4	882.6	503.4	519.1	434.6	393.5	370.6	363.4
52.5°	15847.7	14256.6	6752.2	1995.7	806.5	466.0	515.4	432.3	382.7	358.6	350.1
55°	16904.0	15333.3	7421.0	1895.5	693.0	439.5	497.4	426.2	370.6	344.1	335.6
57.5°	17728.6	16074.7	7891.9	1740.8	594.0	425.0	440.7	420.1	356.2	328.4	321.1
60°	18057.0	16045.6	8021.1	1534.5	545.7	413.0	385.2	470.8	344.1	316.4	307.8
62.5°	17879.5	15304.5	7658.9	1389.6	534.9	397.2	360.9	435.8	334.3	307.8	295.8
65°	17059.8	13990.9	6699.1	1351.0	566.2	381.5	345.3	341.6	321.1	295.8	283.8
67.5°	15274.3	12027.9	5363.9	1354.6	606.0	365.8	329.6	312.7	303.0	282.4	271.6
70°	12440.7	9509.5	3998.4	1364.2	626.6	347.7	312.7	294.6	283.8	263.2	255.9
72.5°	9147.4	7329.4	2904.7	1301.5	630.3	327.2	289.8	274.1	263.2	241.5	235.4
75°	6258.4	5606.5	2014.9	1078.1	549.4	298.1	264.5	249.9	242.6	216.1	212.4
77.5°	4572.0	4208.5	1289.3	800.4	423.7	261.9	233.0	222.2	217.3	188.4	183.6
80°	3668.9	3329.6	806.5	548.1	310.3	219.7	195.7	189.5	184.7	155.8	152.2
82.5°	2544.9	2229.9	518.0	356.2	233.0	170.1	154.5	152.2	144.8	118.2	114.8
85°	1342.4	1210.8	328.4	242.6	169.1	117.0	107.4	107.4	103.8	78.5	76.0
87.5°	171.4	278.8	166.5	126.8	93.0	51.9	51.9	50.8	54.3	44.6	38.6
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: P269415

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8
2.5°	5996.5	6054.3	5998.9	6002.6	6064.1	6247.6	6330.9	6399.6	6473.4	6521.6	6543.3
5°	4346.1	4481.4	4527.2	4623.8	4766.2	5000.4	5093.4	5161.0	5205.7	5232.3	5243.1
7.5°	2972.3	3054.3	3146.1	3301.9	3612.2	3749.7	3811.2	3795.6	3744.9	3726.8	3708.7
10°	2240.7	2208.0	2191.1	2276.9	2528.0	2666.9	2710.2	2668.1	2640.3	2646.2	2676.5
12.5°	1736.1	1679.3	1610.5	1600.8	1766.2	1890.6	1918.3	1920.8	1971.5	2016.2	2082.5
15°	1265.3	1259.2	1225.4	1204.8	1298.9	1400.4	1412.5	1434.2	1480.0	1512.7	1570.6
17.5°	892.1	924.7	951.3	964.6	1035.8	1108.2	1094.9	1084.2	1075.7	1075.7	1103.5
20°	719.5	741.2	775.1	813.7	886.1	936.8	904.2	860.8	829.3	819.8	823.3
22.5°	648.2	665.3	684.5	718.4	783.5	818.5	783.5	752.2	720.7	709.9	706.2
25°	612.0	633.8	651.9	677.3	725.7	749.7	715.9	693.0	673.6	660.3	650.7
27.5°	591.5	610.8	615.7	627.7	668.8	690.5	673.6	663.9	651.9	639.9	627.7
30°	569.9	566.2	557.8	558.9	591.5	613.4	612.0	614.5	613.4	609.7	607.3
32.5°	520.3	513.1	505.8	513.1	543.3	562.6	563.7	568.5	568.5	567.4	577.2
35°	433.4	446.6	455.1	476.9	513.1	530.0	522.8	510.6	488.9	475.7	474.5
37.5°	400.9	403.2	417.7	447.9	487.7	503.4	492.6	464.9	450.3	447.9	451.5
40°	385.2	387.4	396.1	423.7	463.5	479.2	469.6	449.2	435.8	434.6	440.7
42.5°	374.2	376.7	381.5	400.9	433.4	452.7	454.0	439.5	423.7	425.0	430.9
45°	368.2	369.5	368.2	377.8	408.1	430.9	440.7	430.9	417.7	420.1	427.4
47.5°	367.0	363.4	358.6	360.9	392.4	415.2	427.4	423.7	417.7	420.1	426.2
50°	362.1	353.8	347.7	346.4	377.8	402.0	413.0	413.0	415.2	420.1	426.2
52.5°	347.7	338.0	338.0	334.3	368.2	391.1	398.4	399.6	403.2	411.7	420.1
55°	329.6	325.9	329.6	323.6	360.9	382.7	386.4	388.7	391.1	398.4	410.4
57.5°	313.9	309.0	317.6	315.0	354.9	374.2	374.2	379.1	379.1	388.7	398.4
60°	305.5	295.8	299.3	301.8	346.4	367.0	364.6	369.5	371.9	380.3	387.4
62.5°	294.6	286.1	286.1	292.2	336.9	356.2	354.9	358.6	368.2	370.6	377.8
65°	281.3	277.7	274.1	281.3	327.2	344.1	345.3	350.1	358.6	360.9	367.0
67.5°	268.1	269.2	261.9	269.2	318.7	332.1	332.1	341.6	345.3	350.1	356.2
70°	253.5	254.7	248.7	257.2	312.7	318.7	317.6	330.8	333.2	336.9	342.9
72.5°	235.4	235.4	233.0	245.1	303.0	305.5	303.0	313.9	315.0	318.7	321.1
75°	216.1	216.1	213.6	230.5	297.0	291.0	283.8	292.2	294.6	297.0	297.0
77.5°	190.7	193.1	193.1	213.6	276.5	284.9	260.8	265.5	269.2	270.4	266.7
80°	159.4	165.4	167.9	194.4	231.9	263.2	233.0	236.7	237.8	237.8	233.0
82.5°	121.9	132.8	138.9	167.9	177.4	221.0	202.7	206.4	202.7	195.7	193.1
85°	84.5	99.1	106.2	128.0	133.9	170.1	169.1	169.1	161.8	152.2	150.9
87.5°	45.9	54.3	59.2	76.0	91.7	114.8	124.3	120.7	114.8	108.7	109.9
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: P269415

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8
2.5°	6656.8	6821.0	7083.0	7283.4	7484.9	7679.4	7889.5	8050.0	8186.4	8239.6	8401.3
5°	5353.0	5558.3	5805.7	6252.5	6568.6	6917.6	7320.8	7854.4	8059.7	8343.4	8808.2
7.5°	3784.7	3970.7	4369.0	4730.0	5177.9	5671.7	6216.2	6952.6	7221.8	7676.9	8433.9
10°	2826.2	3042.3	3362.3	3666.4	4061.2	4565.8	5191.2	6014.6	6341.8	6835.6	7707.2
12.5°	2276.9	2531.7	2870.9	3157.1	3462.4	3818.5	4425.8	5328.8	5767.1	6199.3	7080.6
15°	1749.3	2016.2	2331.2	2694.6	3031.4	3415.4	4051.5	5039.1	5543.7	5994.0	6746.2
17.5°	1210.8	1439.1	1836.2	2215.3	2646.2	3137.7	3947.7	5100.7	5703.1	6222.2	6804.1
20°	858.4	988.8	1314.7	1754.1	2291.3	2908.4	3928.4	5424.2	6207.7	6800.4	7176.0
22.5°	722.0	770.2	959.7	1363.0	1983.5	2736.9	3996.0	5878.1	6888.7	7645.6	7768.7
25°	658.0	686.9	785.9	1069.6	1709.5	2612.5	4224.2	6554.3	7731.4	8490.7	8469.0
27.5°	623.0	653.2	718.4	903.1	1503.0	2535.2	4452.4	7355.9	8694.6	9408.2	9137.7
30°	612.0	653.2	722.0	851.1	1355.7	2413.2	4639.4	8059.7	9435.9	10027.5	9441.9
32.5°	603.7	609.7	641.1	734.0	1215.6	2270.8	4766.2	8691.0	10161.4	10616.7	9880.2
35°	487.7	518.0	568.5	658.0	1133.7	2185.1	4766.2	9235.6	10876.1	11211.8	10297.9
37.5°	469.6	496.1	540.9	616.9	1087.8	2142.8	4670.8	9760.8	11606.6	11886.7	10642.0
40°	459.9	481.8	523.9	585.5	1068.4	2094.6	4532.0	10224.2	12320.1	12562.7	10963.2
42.5°	452.7	472.0	511.9	566.2	1043.1	2041.5	4419.8	10596.1	12939.5	13139.8	11269.7
45°	449.2	469.6	513.1	575.9	992.4	1971.5	4382.3	10998.2	13448.9	13621.4	11601.8
47.5°	449.2	473.2	519.1	596.4	932.0	1899.0	4499.5	11528.0	13930.6	14015.0	11992.9
50°	445.5	472.0	536.0	575.9	843.9	1807.3	4774.8	12195.7	14452.1	14461.8	12487.9
52.5°	438.3	469.6	577.2	563.7	742.4	1686.6	5146.6	13052.9	15223.5	15281.4	13262.9
55°	429.7	466.0	566.2	536.0	659.1	1542.8	5450.7	14094.8	16307.7	16468.3	14402.6
57.5°	418.9	461.2	548.1	497.4	604.7	1358.1	5560.7	14857.7	17064.7	17467.8	15687.1
60°	409.3	457.5	495.0	474.5	571.1	1202.4	5348.1	14706.8	17012.7	17881.9	16825.7
62.5°	399.6	461.2	451.5	459.9	555.3	1102.2	4792.8	13498.4	16152.0	17454.5	17669.4
65°	388.7	428.6	426.2	447.9	551.6	1062.3	3973.2	11686.3	14488.4	16103.6	17868.6
67.5°	374.2	396.1	408.1	432.3	563.7	1027.4	3206.5	9640.0	12176.4	14079.0	16830.5
70°	358.6	376.7	390.0	413.0	556.5	1011.8	2666.9	7602.1	9661.7	11539.0	14781.7
72.5°	338.0	353.8	365.8	387.4	549.4	1003.2	2252.8	6121.9	7213.4	8571.5	12018.2
75°	313.9	328.4	336.9	358.6	526.3	918.7	1771.1	5180.3	5397.6	5962.7	9572.3
77.5°	286.1	297.0	304.3	328.4	466.0	764.2	1281.0	3996.0	4191.6	4329.2	7339.0
80°	253.5	264.5	268.1	291.0	386.4	597.6	835.5	2951.7	3135.3	3166.6	4792.8
82.5°	216.1	226.9	226.9	248.7	316.4	429.7	548.1	2022.2	2058.3	2164.6	3387.6
85°	173.8	182.3	182.3	193.1	245.1	321.1	376.7	1015.4	1004.5	1146.9	2934.9
87.5°	124.3	130.3	136.5	138.9	175.1	212.4	226.9	309.0	204.1	234.2	1884.6
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: P269415

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8
2.5°	8523.3	8592.1	8522.0	8471.3	8252.8	8073.0	7832.7	7709.6
5°	9162.0	9337.0	9277.8	9065.3	8608.9	8095.9	7512.7	7249.6
7.5°	9084.6	9491.5	9501.2	9104.0	8431.5	7675.7	6886.1	6512.0
10°	8483.5	9003.7	9152.2	8767.1	8053.7	7208.5	6303.0	5875.8
12.5°	7812.2	8321.7	8435.2	8302.3	7705.9	6857.2	5938.5	5519.5
15°	7262.8	7491.1	7626.3	7742.1	7407.8	6717.2	5917.9	5458.0
17.5°	6928.4	6903.1	6941.7	7143.3	7200.2	6877.8	6231.9	5724.8
20°	6807.7	6420.1	6410.6	6688.2	7102.3	7260.6	6845.2	6236.8
22.5°	6874.1	6246.4	6166.7	6496.3	7154.2	7812.2	7649.2	6955.0
25°	7103.4	6260.8	6196.9	6515.5	7342.6	8400.1	8517.2	7884.7
27.5°	7464.5	6352.6	6268.2	6595.3	7592.5	8893.8	9371.9	8785.2
30°	7807.3	6512.0	6406.9	6752.2	7820.6	9089.5	9895.9	9487.9
32.5°	8223.9	6810.1	6625.4	7040.7	8103.2	9400.9	10363.1	10069.8
35°	8632.0	7235.0	7005.7	7486.3	8418.2	9788.6	10896.7	10813.4
37.5°	9079.8	7790.5	7600.9	8062.1	8849.3	10154.4	11577.6	11685.1
40°	9557.8	8526.9	8302.3	8902.4	9518.0	10613.0	12288.8	12547.0
42.5°	10039.5	9344.2	9076.1	9684.6	10253.3	11065.7	12897.1	13279.9
45°	10591.2	10231.5	10104.8	10762.8	10959.5	11496.8	13346.3	13822.0
47.5°	11233.6	11238.3	11442.4	11705.6	11671.8	11984.5	13797.7	14306.0
50°	11983.3	12495.2	12945.5	13120.6	12405.9	12508.4	14424.4	14954.4
52.5°	12883.9	13998.2	14556.0	14441.2	13196.6	13148.3	15416.7	15847.7
55°	14010.2	15589.4	16143.5	16061.3	14105.6	14019.8	16653.0	16904.0
57.5°	15314.0	17130.9	17640.5	17271.1	15196.9	14976.1	17675.5	17728.6
60°	16459.7	18352.7	18799.5	18390.2	16297.9	15993.9	18314.1	18057.0
62.5°	17097.3	18766.9	19080.8	18640.1	17052.5	17077.9	18454.2	17879.5
65°	16812.3	17720.1	17821.6	17785.4	16858.2	17706.9	17950.7	17059.8
67.5°	15252.5	15073.9	15244.1	15479.6	15192.1	16878.8	16556.4	15274.3
70°	12504.8	11523.3	11862.6	12020.7	12151.1	14524.5	14370.0	12440.7
72.5°	9423.8	8073.0	8340.9	8308.3	8911.9	11650.1	11175.6	9147.4
75°	6677.3	5473.7	5507.5	5494.3	6218.5	9114.8	8092.2	6258.4
77.5°	4672.1	3965.8	3984.0	4058.8	4180.7	6874.1	5781.6	4572.0
80°	3212.5	3009.7	3109.9	3116.0	2897.5	4617.7	4271.4	3668.9
82.5°	2392.7	2092.2	2068.1	2103.0	2270.8	3741.4	3282.5	2544.9
85°	1959.5	1238.7	996.0	1248.4	2012.6	3705.1	2180.2	1342.4
87.5°	1103.5	587.9	265.5	492.6	802.8	2453.1	630.3	171.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)