

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: P191315

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191315
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-07-LED-E1-SLR-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 24937.5 lumens
Efficiency: N/A
Efficacy: 110.3 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): 226
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

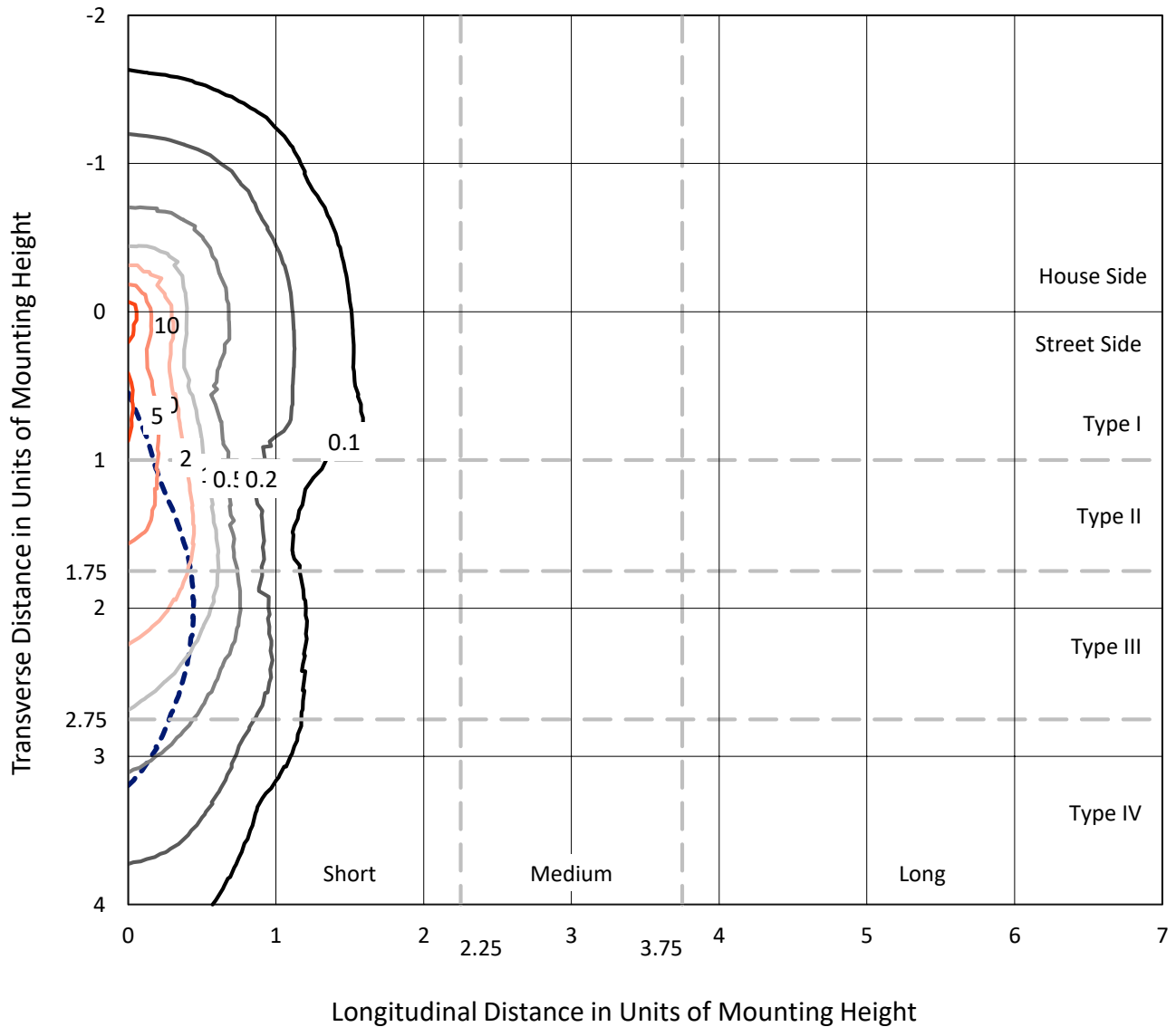


REPORT NUMBER: P191315

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

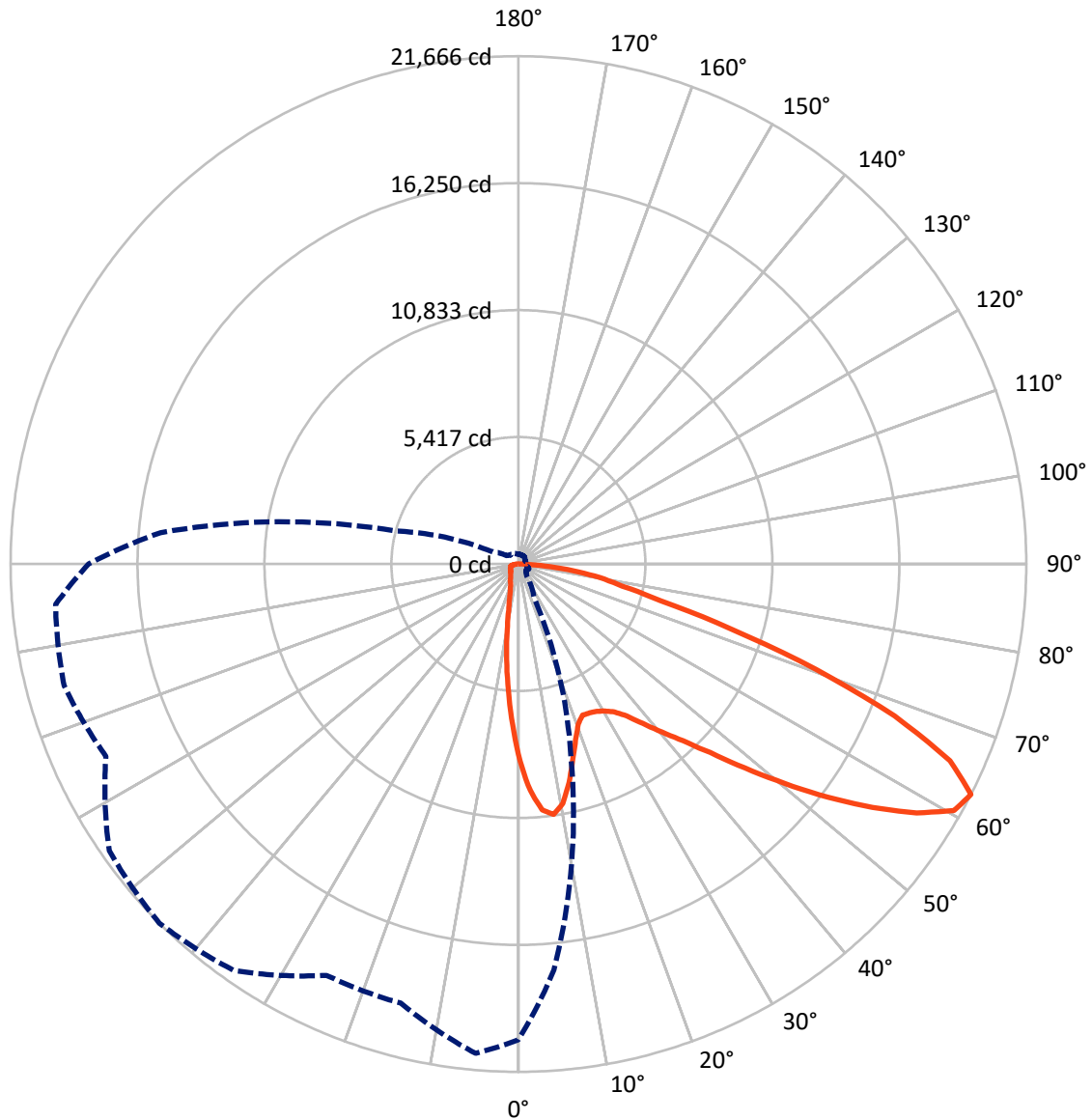


Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191315

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191315

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4126.8	0.0	4126.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20810.7	0.0	20810.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	24937.5	0.0	24937.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.3	2.5
10°-20°	1124.7	4.5
20°-30°	1639.8	6.6
30°-40°	2525.5	10.1
40°-50°	3716.8	14.9
50°-60°	5451.8	21.9
60°-70°	6094.3	24.4
70°-80°	2983.7	12.0
80°-90°	787.8	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°	24937.5	100.0
0°-180°	24937.5	100.0



REPORT NUMBER: P191315

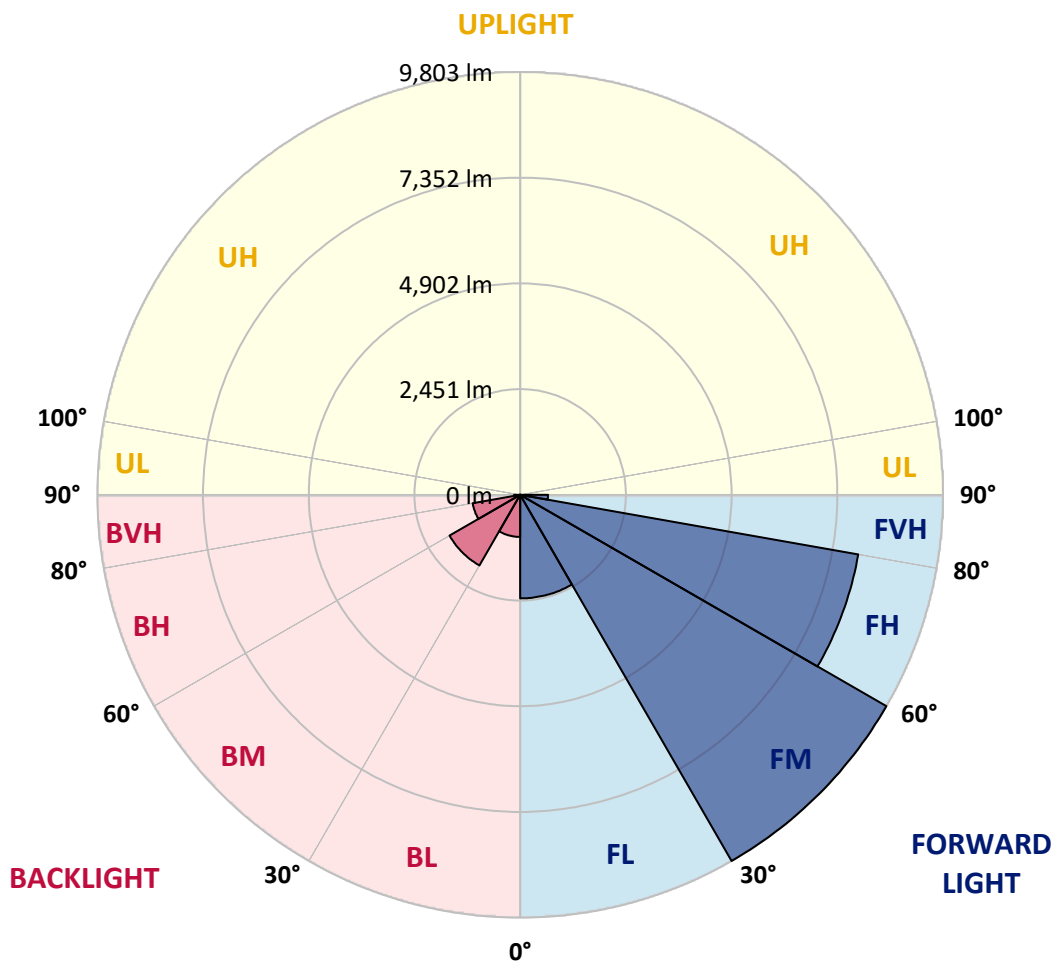
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2401.4	9.6			
FM (30°-60°)	9803.2	39.3			
FH (60°-80°)	7959.2	31.9			G4/12000
FVH (80°-90°)	646.9	2.6			G4/750
BL (0°-30°)	976.3	3.9	B2/1000		
BM (30°-60°)	1890.9	7.6	B2/2500		
BH (60°-80°)	1118.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	140.8	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: P191315

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2
2.5°	8754.2	8576.0	8280.0	7971.4	7783.6	7564.3	7393.0	7242.2	6940.6	6881.7	6935.1
5°	8231.9	7874.2	7316.2	6754.1	6379.9	5978.2	5665.7	5414.9	5032.4	4965.2	5046.1
7.5°	7394.4	6966.6	6229.2	5512.2	4983.0	4481.3	4144.1	3875.3	3576.5	3447.7	3455.9
10°	6671.9	6189.4	5317.5	4537.5	4104.3	3765.7	3481.9	3206.4	2903.4	2704.7	2649.9
12.5°	6267.5	5712.4	4707.5	4011.1	3609.5	3253.0	2947.3	2652.6	2329.1	2126.2	2068.6
15°	6197.6	5594.4	4478.6	3673.8	3170.7	2719.7	2359.2	2030.3	1697.1	1532.6	1498.3
17.5°	6500.5	5805.6	4404.5	3373.7	2758.2	2201.6	1758.8	1391.4	1120.0	1037.7	1030.8
20°	7081.8	6211.4	4394.9	3091.3	2351.0	1698.5	1225.5	958.2	838.9	815.7	817.0
22.5°	7897.5	6840.6	4512.8	2878.8	1976.8	1266.6	921.2	802.0	755.3	733.4	733.4
25°	8953.0	7706.9	4784.2	2723.9	1651.9	1011.7	812.9	741.6	697.8	682.7	685.4
27.5°	9975.6	8549.9	5099.5	2601.9	1439.4	918.5	770.4	705.9	667.6	652.5	659.4
30°	10773.5	9298.4	5362.7	2436.0	1331.1	892.4	785.5	719.6	664.8	641.6	642.9
32.5°	11434.2	9953.7	5583.5	2316.8	1235.1	765.0	677.2	648.4	641.6	614.2	600.5
35°	12278.7	10667.9	5731.5	2319.4	1189.9	682.7	603.1	552.5	515.5	484.0	484.0
37.5°	13268.4	11487.7	5889.1	2351.0	1173.4	634.7	577.1	526.4	492.1	462.0	456.5
40°	14247.2	12291.1	6033.1	2381.1	1163.8	605.9	556.6	509.9	478.4	448.3	440.1
42.5°	15079.3	12951.8	6161.9	2396.3	1131.0	603.1	541.4	499.0	468.8	435.9	427.7
45°	15694.8	13505.6	6300.5	2419.6	1098.0	614.2	541.4	497.7	460.6	429.0	420.8
47.5°	16244.6	14155.4	6532.1	2419.6	1058.3	593.6	559.3	499.0	459.2	426.4	419.5
50°	16980.7	15046.4	6970.8	2363.3	1002.1	571.6	589.4	493.5	446.9	420.8	412.7
52.5°	17995.1	16188.3	7667.1	2266.0	915.7	529.2	585.3	490.8	434.5	407.1	397.5
55°	19194.6	17411.1	8426.6	2152.2	786.9	499.0	564.8	484.0	420.8	390.7	381.0
57.5°	20130.9	18252.8	8961.3	1976.8	674.4	482.5	500.3	477.1	404.4	372.9	364.7
60°	20503.7	18220.0	9107.9	1742.4	619.6	468.8	437.3	534.6	390.7	359.2	349.5
62.5°	20302.3	17378.2	8696.6	1577.8	607.3	451.0	409.9	494.9	379.7	349.5	335.8
65°	19371.4	15886.7	7606.9	1534.0	642.9	433.2	392.1	387.9	364.7	335.8	322.1
67.5°	17343.9	13657.7	6090.6	1538.1	688.1	415.3	374.2	355.1	344.1	320.8	308.4
70°	14126.5	10798.2	4540.3	1549.1	711.5	394.8	355.1	334.5	322.1	298.8	290.6
72.5°	10386.9	8322.4	3298.3	1477.8	715.6	371.5	329.0	311.2	298.8	274.2	267.3
75°	7106.4	6366.2	2287.9	1224.2	623.7	338.6	300.2	283.8	275.6	245.4	241.3
77.5°	5191.4	4778.8	1464.0	908.9	481.2	297.5	264.5	252.3	246.7	213.9	208.4
80°	4166.0	3780.8	915.7	622.4	352.3	249.5	222.1	215.2	209.7	176.9	172.8
82.5°	2889.7	2531.9	588.1	404.4	264.5	193.3	175.4	172.8	164.5	134.3	130.2
85°	1524.4	1374.9	372.9	275.6	191.9	133.0	122.0	122.0	117.8	89.1	86.3
87.5°	194.7	316.7	189.1	143.9	105.6	58.9	58.9	57.6	61.7	50.7	43.9
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: P191315

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2
2.5°	6809.0	6874.8	6811.7	6815.8	6885.8	7094.2	7188.7	7266.8	7350.5	7405.3	7430.0
5°	4935.0	5088.6	5140.6	5250.3	5412.1	5678.1	5783.6	5860.4	5911.1	5941.3	5953.6
7.5°	3375.0	3468.2	3572.5	3749.2	4101.6	4257.8	4327.8	4309.9	4252.4	4231.8	4211.3
10°	2544.3	2507.3	2488.1	2585.4	2870.6	3028.2	3077.5	3029.6	2998.1	3004.9	3039.2
12.5°	1971.3	1906.9	1828.7	1817.8	2005.6	2146.8	2178.3	2181.0	2238.6	2289.4	2364.8
15°	1436.6	1429.8	1391.4	1368.1	1475.0	1590.2	1603.9	1628.5	1680.7	1717.6	1783.5
17.5°	1013.0	1050.1	1080.2	1095.3	1176.2	1258.4	1243.4	1231.0	1221.4	1221.4	1252.9
20°	817.0	841.7	880.0	923.9	1006.2	1063.8	1026.7	977.4	941.7	930.8	934.9
22.5°	736.1	755.3	777.2	815.7	889.7	929.5	889.7	854.1	818.4	806.1	802.0
25°	695.0	719.6	740.2	769.1	823.9	851.3	812.9	786.9	765.0	749.8	738.9
27.5°	671.7	693.7	699.1	712.8	759.4	784.1	765.0	754.0	740.2	726.5	712.8
30°	647.0	642.9	633.3	634.7	671.7	696.4	695.0	697.8	696.4	692.2	689.6
32.5°	590.9	582.6	574.4	582.6	616.8	638.8	640.2	645.7	645.7	644.3	655.3
35°	492.1	507.2	516.8	541.4	582.6	601.8	593.6	579.9	555.2	540.1	538.8
37.5°	455.1	457.9	474.3	508.6	553.8	571.6	559.3	527.7	511.4	508.6	512.7
40°	437.3	440.1	449.6	481.2	526.4	544.2	533.3	509.9	494.9	493.5	500.3
42.5°	424.9	427.7	433.2	455.1	492.1	514.0	515.5	499.0	481.2	482.5	489.4
45°	418.1	419.5	418.1	429.0	463.4	489.4	500.3	489.4	474.3	477.1	485.3
47.5°	416.8	412.7	407.1	409.9	445.5	471.6	485.3	481.2	474.3	477.1	484.0
50°	411.2	401.6	394.8	393.4	429.0	456.5	468.8	468.8	471.6	477.1	484.0
52.5°	394.8	383.8	383.8	379.7	418.1	444.2	452.3	453.8	457.9	467.5	477.1
55°	374.2	370.1	374.2	367.3	409.9	434.5	438.6	441.4	444.2	452.3	466.1
57.5°	356.4	351.0	360.5	357.8	403.0	424.9	424.9	430.5	430.5	441.4	452.3
60°	346.8	335.8	339.9	342.7	393.4	416.8	414.0	419.5	422.2	431.8	440.1
62.5°	334.5	324.9	324.9	331.7	382.5	404.4	403.0	407.1	418.1	420.8	429.0
65°	319.4	315.3	311.2	319.4	371.5	390.7	392.1	397.5	407.1	409.9	416.8
67.5°	304.3	305.7	297.5	305.7	361.9	377.0	377.0	387.9	392.1	397.5	404.4
70°	287.9	289.3	282.4	292.0	355.1	361.9	360.5	375.6	378.4	382.5	389.3
72.5°	267.3	267.3	264.5	278.2	344.1	346.8	344.1	356.4	357.8	361.9	364.7
75°	245.4	245.4	242.6	261.9	337.3	330.4	322.1	331.7	334.5	337.3	337.3
77.5°	216.6	219.3	219.3	242.6	313.9	323.6	296.1	301.6	305.7	307.1	303.0
80°	181.0	187.8	190.6	220.8	263.2	298.8	264.5	268.7	270.1	270.1	264.5
82.5°	138.4	150.8	157.6	190.6	201.5	250.8	230.3	234.5	230.3	222.1	219.3
85°	96.0	112.4	120.6	145.3	152.2	193.3	191.9	191.9	183.7	172.8	171.3
87.5°	52.1	61.7	67.2	86.3	104.1	130.2	141.2	137.1	130.2	123.4	124.7
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: P191315

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-600

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2
2.5°	7558.9	7745.3	8042.7	8270.4	8499.3	8719.9	8958.5	9140.8	9295.8	9356.0	9539.7
5°	6078.4	6311.4	6592.4	7099.6	7458.7	7854.9	8312.8	8918.7	9151.8	9474.0	10001.7
7.5°	4297.6	4508.8	4961.1	5371.0	5879.6	6440.2	7058.5	7894.7	8200.4	8717.2	9576.8
10°	3209.2	3454.5	3817.9	4163.3	4611.6	5184.5	5894.7	6829.5	7201.1	7761.7	8751.4
12.5°	2585.4	2874.7	3259.8	3584.7	3931.6	4336.0	5025.6	6051.0	6548.5	7039.3	8040.0
15°	1986.4	2289.4	2647.1	3059.7	3442.2	3878.1	4600.5	5721.9	6294.9	6806.3	7660.3
17.5°	1374.9	1634.1	2085.1	2515.5	3004.9	3562.8	4482.7	5791.8	6475.9	7065.3	7726.1
20°	974.7	1122.7	1492.9	1991.9	2601.9	3302.4	4460.8	6159.2	7048.8	7721.9	8148.3
22.5°	819.8	874.6	1089.9	1547.7	2252.3	3107.7	4537.5	6674.7	7822.1	8681.6	8821.4
25°	747.1	780.0	892.4	1214.5	1941.2	2966.6	4796.6	7442.4	8778.9	9641.2	9616.5
27.5°	707.4	741.6	815.7	1025.4	1706.7	2878.8	5055.7	8352.6	9872.8	10683.0	10376.0
30°	695.0	741.6	819.8	966.5	1539.4	2740.3	5268.2	9151.8	10714.6	11386.3	10721.4
32.5°	685.4	692.2	727.9	833.5	1380.5	2578.6	5412.1	9868.7	11538.4	12055.3	11219.0
35°	553.8	588.1	645.7	747.1	1287.2	2481.3	5412.1	10487.0	12350.0	12731.0	11693.4
37.5°	533.3	563.4	614.2	700.5	1235.1	2433.3	5303.8	11083.3	13179.3	13497.3	12084.0
40°	522.3	547.0	594.9	664.8	1213.2	2378.5	5146.2	11609.7	13989.5	14265.0	12448.7
42.5°	514.0	536.0	581.2	642.9	1184.4	2318.1	5018.7	12031.9	14692.7	14920.4	12796.9
45°	509.9	533.3	582.6	653.9	1126.9	2238.6	4976.1	12488.4	15271.2	15467.3	13173.9
47.5°	509.9	537.4	589.4	677.2	1058.3	2156.4	5109.1	13090.2	15818.2	15914.1	13618.0
50°	505.8	536.0	608.7	653.9	958.2	2052.1	5421.7	13848.3	16410.4	16421.4	14180.0
52.5°	497.7	533.3	655.3	640.2	843.1	1915.1	5843.9	14821.6	17286.4	17352.2	15060.1
55°	488.0	529.2	642.9	608.7	748.5	1751.9	6189.4	16004.7	18517.5	18699.7	16354.2
57.5°	475.7	523.6	622.4	564.8	686.8	1542.2	6314.2	16871.0	19376.9	19834.8	17812.7
60°	464.7	519.6	562.0	538.8	648.4	1365.3	6072.8	16699.7	19318.0	20305.0	19105.6
62.5°	453.8	523.6	512.7	522.3	630.5	1251.6	5442.3	15327.5	18340.6	19819.7	20063.7
65°	441.4	486.6	484.0	508.6	626.5	1206.4	4511.4	13269.8	16451.5	18285.8	20289.9
67.5°	424.9	449.6	463.4	490.8	640.2	1166.6	3641.0	10946.2	13826.4	15986.8	19111.0
70°	407.1	427.7	442.7	468.8	632.0	1148.8	3028.2	8632.3	10970.9	13102.6	16784.7
72.5°	383.8	401.6	415.3	440.1	623.7	1139.2	2558.0	6951.6	8190.8	9733.0	13646.8
75°	356.4	372.9	382.5	407.1	597.7	1043.2	2011.0	5882.3	6129.0	6770.6	10869.5
77.5°	324.9	337.3	345.5	372.9	529.2	867.8	1454.4	4537.5	4759.6	4915.9	8333.4
80°	287.9	300.2	304.3	330.4	438.6	678.5	948.6	3351.7	3560.1	3595.8	5442.3
82.5°	245.4	257.7	257.7	282.4	359.2	488.0	622.4	2296.2	2337.3	2457.9	3846.6
85°	197.4	207.0	207.0	219.3	278.2	364.7	427.7	1152.9	1140.6	1302.3	3332.6
87.5°	141.2	148.0	154.9	157.6	198.8	241.3	257.7	351.0	231.7	266.0	2139.9
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: P191315

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2	8425.2
2.5°	9678.1	9756.3	9676.8	9619.2	9371.2	9166.9	8894.0	8754.2
5°	10403.4	10602.2	10535.0	10293.6	9775.5	9193.0	8530.8	8231.9
7.5°	10315.6	10777.6	10788.6	10337.5	9574.0	8715.8	7819.3	7394.4
10°	9632.9	10223.8	10392.4	9955.1	9144.9	8185.3	7157.2	6671.9
12.5°	8870.7	9449.2	9578.1	9427.3	8750.1	7786.4	6743.2	6267.5
15°	8247.0	8506.1	8659.7	8791.2	8411.5	7627.4	6719.9	6197.6
17.5°	7867.3	7838.5	7882.3	8111.3	8175.7	7809.7	7076.4	6500.5
20°	7730.2	7290.2	7279.2	7594.5	8064.7	8244.3	7772.7	7081.8
22.5°	7805.6	7092.7	7002.3	7376.5	8123.7	8870.7	8685.7	7897.5
25°	8066.1	7109.2	7036.6	7398.5	8337.5	9538.4	9671.3	8953.0
27.5°	8476.0	7213.4	7117.5	7488.9	8621.2	10099.1	10641.9	9975.6
30°	8865.3	7394.4	7275.1	7667.1	8880.3	10321.1	11236.8	10773.5
32.5°	9338.2	7733.0	7523.2	7994.8	9201.1	10674.8	11767.3	11434.2
35°	9801.6	8215.5	7955.1	8500.6	9559.0	11114.9	12373.3	12278.7
37.5°	10310.1	8846.1	8630.8	9154.5	10048.3	11530.2	13146.5	13268.4
40°	10853.0	9682.3	9427.3	10108.6	10807.8	12051.1	13953.9	14247.2
42.5°	11400.0	10610.4	10306.0	10996.9	11642.6	12565.2	14644.8	15079.3
45°	12026.4	11618.0	11474.0	12221.1	12444.5	13054.6	15154.7	15694.8
47.5°	12755.8	12761.2	12992.9	13291.7	13253.4	13608.4	15667.4	16244.6
50°	13607.0	14188.2	14699.6	14898.4	14086.9	14203.4	16378.9	16980.7
52.5°	14629.7	15895.0	16528.3	16398.1	14984.7	14929.9	17505.8	17995.1
55°	15908.7	17701.8	18331.0	18237.8	16017.0	15919.7	18909.5	19194.6
57.5°	17389.2	19452.3	20030.8	19611.3	17256.3	17005.3	20070.6	20130.9
60°	18690.1	20839.7	21346.8	20882.1	18506.4	18161.0	20795.8	20503.7
62.5°	19414.0	21309.8	21666.2	21165.9	19363.2	19392.0	20954.7	20302.3
65°	19090.4	20121.3	20236.4	20195.3	19142.5	20106.2	20383.1	19371.4
67.5°	17319.3	17116.4	17309.7	17577.1	17250.7	19165.8	18799.8	17343.9
70°	14199.3	13084.8	13469.9	13649.5	13797.6	16492.6	16317.2	14126.5
72.5°	10700.9	9166.9	9471.2	9434.2	10119.6	13228.7	12689.9	10386.9
75°	7582.1	6215.4	6253.8	6238.8	7061.2	10349.9	9188.8	7106.4
77.5°	5305.2	4503.2	4523.8	4608.8	4747.2	7805.6	6565.0	5191.4
80°	3647.8	3417.5	3531.3	3538.2	3290.0	5243.4	4850.0	4166.0
82.5°	2717.1	2375.7	2348.3	2388.0	2578.6	4248.2	3727.3	2889.7
85°	2224.9	1406.5	1131.0	1417.5	2285.2	4207.1	2475.7	1524.4
87.5°	1252.9	667.6	301.6	559.3	911.7	2785.6	715.6	194.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)