

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: P191275

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191275
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-SLL-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 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

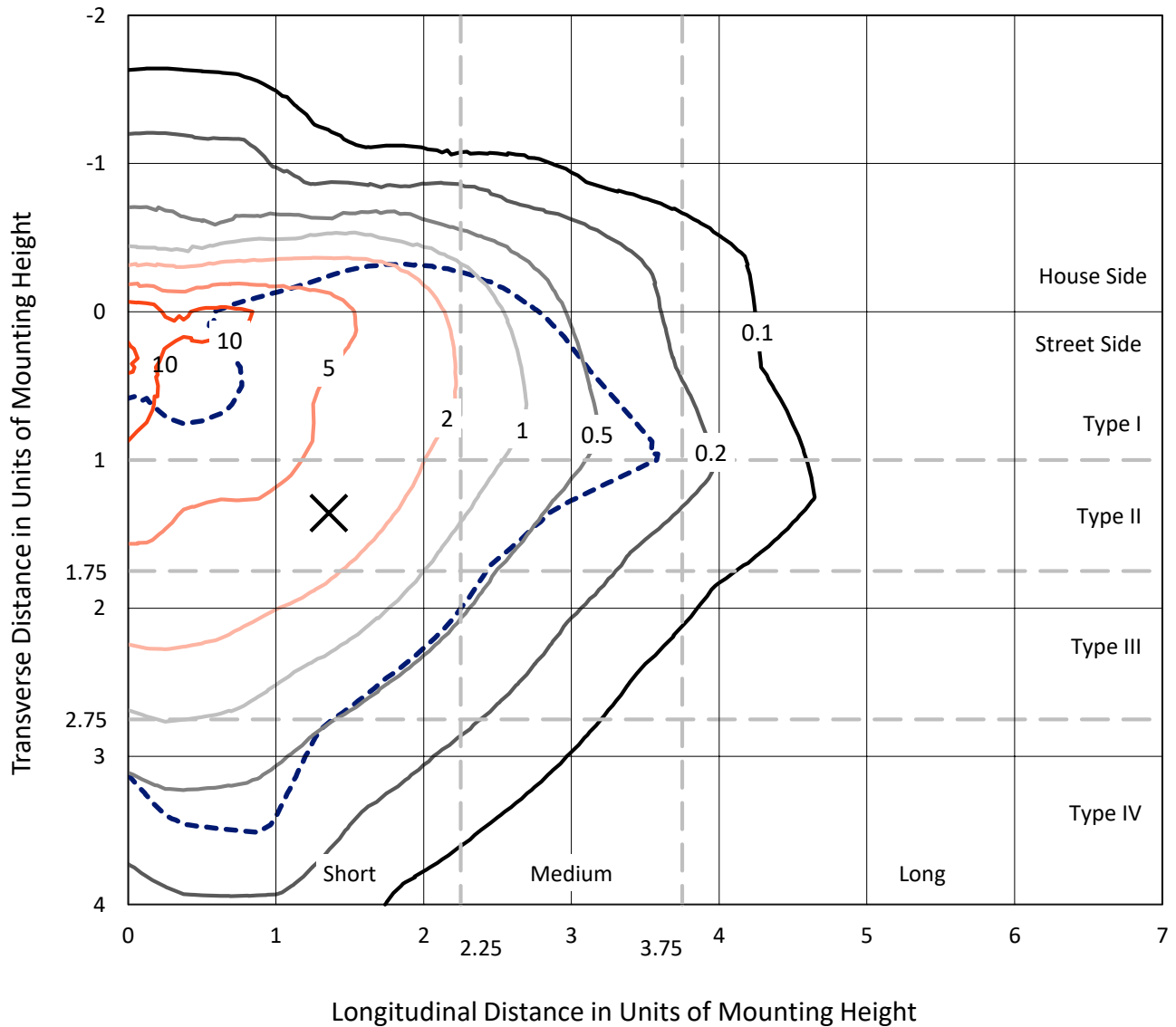
Input Watts (W): 226
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191275
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-600

Iso-Footcandle Lines of Horizontal Illumination

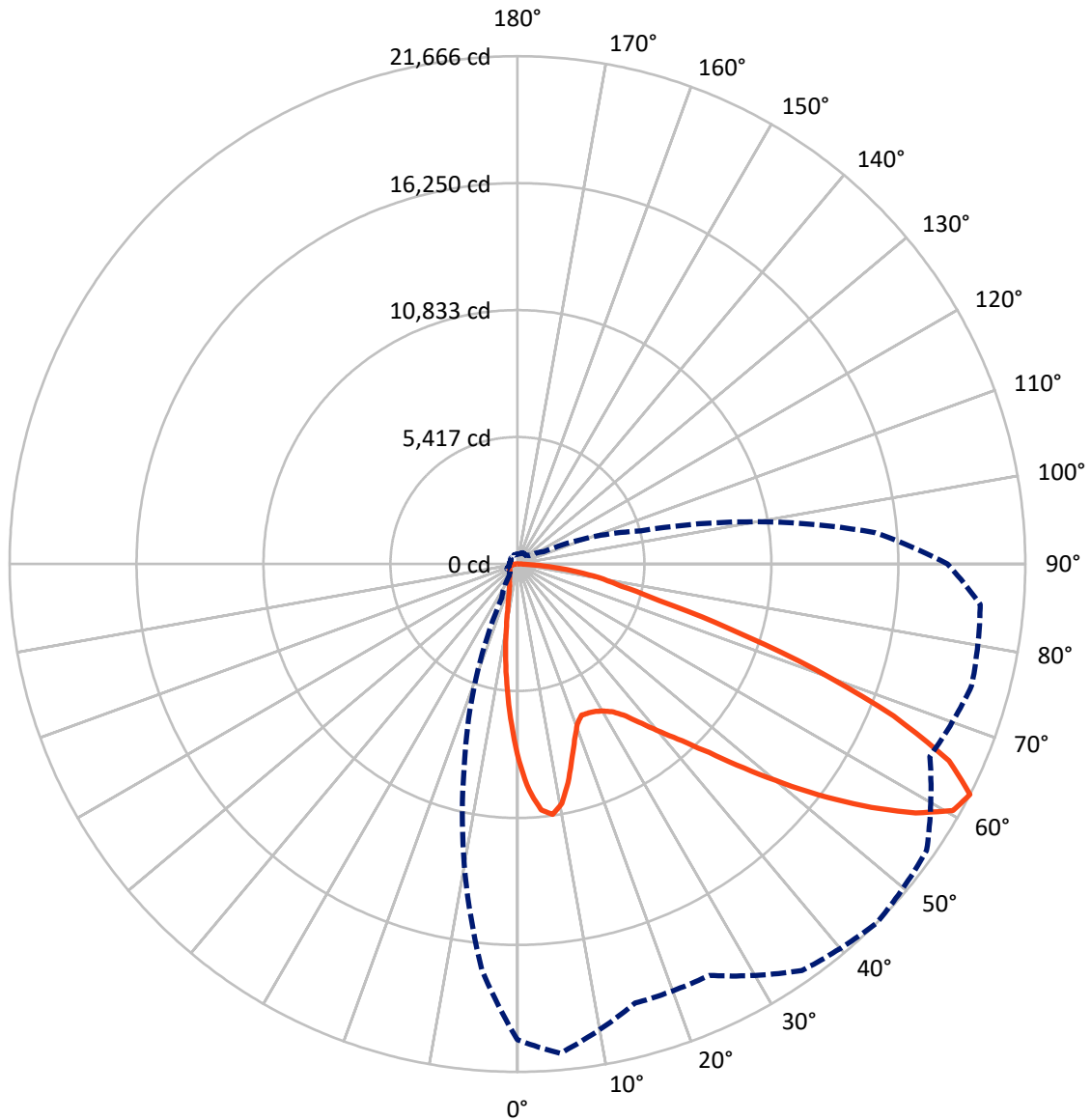
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191275
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-600

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P191275

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-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: P191275

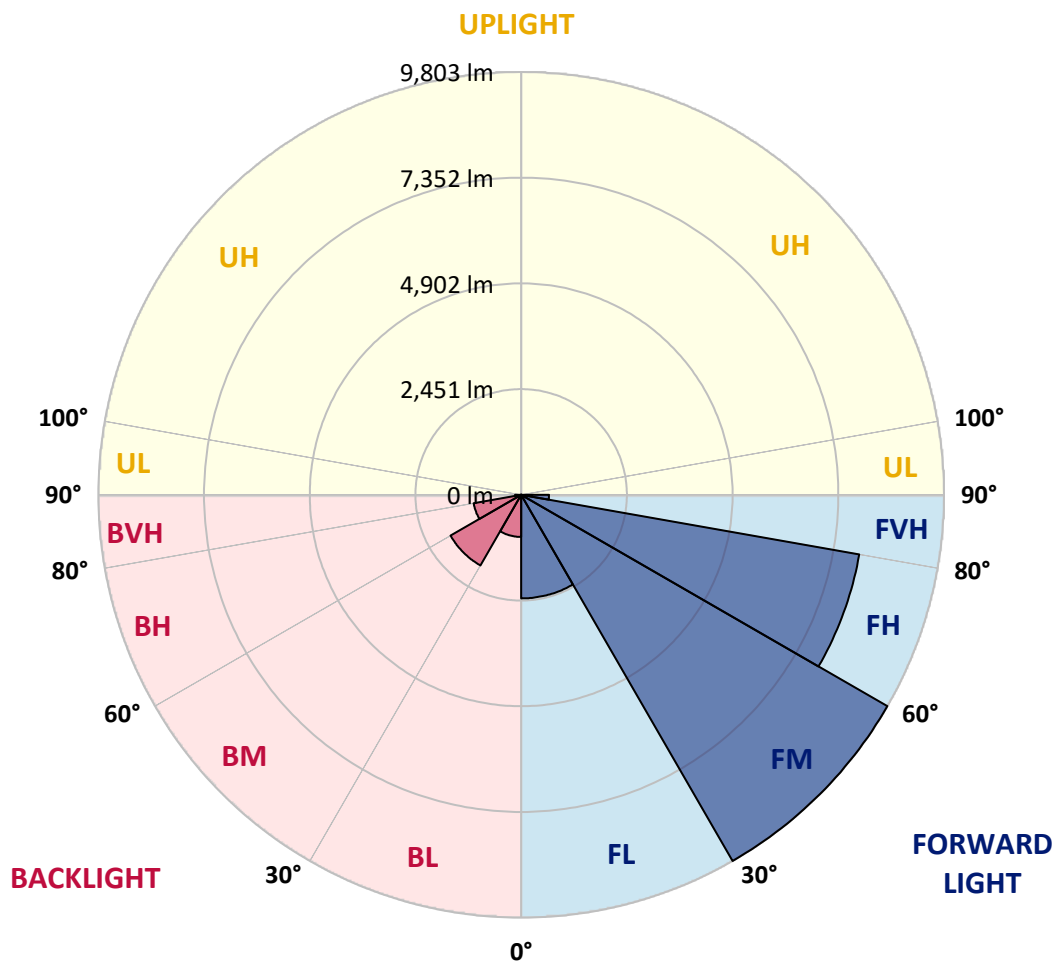
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	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: P191275
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-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	8894.0	9166.9	9371.2	9619.2	9676.8	9756.3	9678.1	9539.7	9356.0	9295.8
5°	8231.9	8530.8	9193.0	9775.5	10293.6	10535.0	10602.2	10403.4	10001.7	9474.0	9151.8
7.5°	7394.4	7819.3	8715.8	9574.0	10337.5	10788.6	10777.6	10315.6	9576.8	8717.2	8200.4
10°	6671.9	7157.2	8185.3	9144.9	9955.1	10392.4	10223.8	9632.9	8751.4	7761.7	7201.1
12.5°	6267.5	6743.2	7786.4	8750.1	9427.3	9578.1	9449.2	8870.7	8040.0	7039.3	6548.5
15°	6197.6	6719.9	7627.4	8411.5	8791.2	8659.7	8506.1	8247.0	7660.3	6806.3	6294.9
17.5°	6500.5	7076.4	7809.7	8175.7	8111.3	7882.3	7838.5	7867.3	7726.1	7065.3	6475.9
20°	7081.8	7772.7	8244.3	8064.7	7594.5	7279.2	7290.2	7730.2	8148.3	7721.9	7048.8
22.5°	7897.5	8685.7	8870.7	8123.7	7376.5	7002.3	7092.7	7805.6	8821.4	8681.6	7822.1
25°	8953.0	9671.3	9538.4	8337.5	7398.5	7036.6	7109.2	8066.1	9616.5	9641.2	8778.9
27.5°	9975.6	10641.9	10099.1	8621.2	7488.9	7117.5	7213.4	8476.0	10376.0	10683.0	9872.8
30°	10773.5	11236.8	10321.1	8880.3	7667.1	7275.1	7394.4	8865.3	10721.4	11386.3	10714.6
32.5°	11434.2	11767.3	10674.8	9201.1	7994.8	7523.2	7733.0	9338.2	11219.0	12055.3	11538.4
35°	12278.7	12373.3	11114.9	9559.0	8500.6	7955.1	8215.5	9801.6	11693.4	12731.0	12350.0
37.5°	13268.4	13146.5	11530.2	10048.3	9154.5	8630.8	8846.1	10310.1	12084.0	13497.3	13179.3
40°	14247.2	13953.9	12051.1	10807.8	10108.6	9427.3	9682.3	10853.0	12448.7	14265.0	13989.5
42.5°	15079.3	14644.8	12565.2	11642.6	10996.9	10306.0	10610.4	11400.0	12796.9	14920.4	14692.7
45°	15694.8	15154.7	13054.6	12444.5	12221.1	11474.0	11618.0	12026.4	13173.9	15467.3	15271.2
47.5°	16244.6	15667.4	13608.4	13253.4	13291.7	12992.9	12761.2	12755.8	13618.0	15914.1	15818.2
50°	16980.7	16378.9	14203.4	14086.9	14898.4	14699.6	14188.2	13607.0	14180.0	16421.4	16410.4
52.5°	17995.1	17505.8	14929.9	14984.7	16398.1	16528.3	15895.0	14629.7	15060.1	17352.2	17286.4
55°	19194.6	18909.5	15919.7	16017.0	18237.8	18331.0	17701.8	15908.7	16354.2	18699.7	18517.5
57.5°	20130.9	20070.6	17005.3	17256.3	19611.3	20030.8	19452.3	17389.2	17812.7	19834.8	19376.9
60°	20503.7	20795.8	18161.0	18506.4	20882.1	21346.8	20839.7	18690.1	19105.6	20305.0	19318.0
62.5°	20302.3	20954.7	19392.0	19363.2	21165.9	21666.2	21309.8	19414.0	20063.7	19819.7	18340.6
65°	19371.4	20383.1	20106.2	19142.5	20195.3	20236.4	20121.3	19090.4	20289.9	18285.8	16451.5
67.5°	17343.9	18799.8	19165.8	17250.7	17577.1	17309.7	17116.4	17319.3	19111.0	15986.8	13826.4
70°	14126.5	16317.2	16492.6	13797.6	13649.5	13469.9	13084.8	14199.3	16784.7	13102.6	10970.9
72.5°	10386.9	12689.9	13228.7	10119.6	9434.2	9471.2	9166.9	10700.9	13646.8	9733.0	8190.8
75°	7106.4	9188.8	10349.9	7061.2	6238.8	6253.8	6215.4	7582.1	10869.5	6770.6	6129.0
77.5°	5191.4	6565.0	7805.6	4747.2	4608.8	4523.8	4503.2	5305.2	8333.4	4915.9	4759.6
80°	4166.0	4850.0	5243.4	3290.0	3538.2	3531.3	3417.5	3647.8	5442.3	3595.8	3560.1
82.5°	2889.7	3727.3	4248.2	2578.6	2388.0	2348.3	2375.7	2717.1	3846.6	2457.9	2337.3
85°	1524.4	2475.7	4207.1	2285.2	1417.5	1131.0	1406.5	2224.9	3332.6	1302.3	1140.6
87.5°	194.7	715.6	2785.6	911.7	559.3	301.6	667.6	1252.9	2139.9	266.0	231.7
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: P191275
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-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°	9140.8	8958.5	8719.9	8499.3	8270.4	8042.7	7745.3	7558.9	7430.0	7405.3	7350.5
5°	8918.7	8312.8	7854.9	7458.7	7099.6	6592.4	6311.4	6078.4	5953.6	5941.3	5911.1
7.5°	7894.7	7058.5	6440.2	5879.6	5371.0	4961.1	4508.8	4297.6	4211.3	4231.8	4252.4
10°	6829.5	5894.7	5184.5	4611.6	4163.3	3817.9	3454.5	3209.2	3039.2	3004.9	2998.1
12.5°	6051.0	5025.6	4336.0	3931.6	3584.7	3259.8	2874.7	2585.4	2364.8	2289.4	2238.6
15°	5721.9	4600.5	3878.1	3442.2	3059.7	2647.1	2289.4	1986.4	1783.5	1717.6	1680.7
17.5°	5791.8	4482.7	3562.8	3004.9	2515.5	2085.1	1634.1	1374.9	1252.9	1221.4	1221.4
20°	6159.2	4460.8	3302.4	2601.9	1991.9	1492.9	1122.7	974.7	934.9	930.8	941.7
22.5°	6674.7	4537.5	3107.7	2252.3	1547.7	1089.9	874.6	819.8	802.0	806.1	818.4
25°	7442.4	4796.6	2966.6	1941.2	1214.5	892.4	780.0	747.1	738.9	749.8	765.0
27.5°	8352.6	5055.7	2878.8	1706.7	1025.4	815.7	741.6	707.4	712.8	726.5	740.2
30°	9151.8	5268.2	2740.3	1539.4	966.5	819.8	741.6	695.0	689.6	692.2	696.4
32.5°	9868.7	5412.1	2578.6	1380.5	833.5	727.9	692.2	685.4	655.3	644.3	645.7
35°	10487.0	5412.1	2481.3	1287.2	747.1	645.7	588.1	553.8	538.8	540.1	555.2
37.5°	11083.3	5303.8	2433.3	1235.1	700.5	614.2	563.4	533.3	512.7	508.6	511.4
40°	11609.7	5146.2	2378.5	1213.2	664.8	594.9	547.0	522.3	500.3	493.5	494.9
42.5°	12031.9	5018.7	2318.1	1184.4	642.9	581.2	536.0	514.0	489.4	482.5	481.2
45°	12488.4	4976.1	2238.6	1126.9	653.9	582.6	533.3	509.9	485.3	477.1	474.3
47.5°	13090.2	5109.1	2156.4	1058.3	677.2	589.4	537.4	509.9	484.0	477.1	474.3
50°	13848.3	5421.7	2052.1	958.2	653.9	608.7	536.0	505.8	484.0	477.1	471.6
52.5°	14821.6	5843.9	1915.1	843.1	640.2	655.3	533.3	497.7	477.1	467.5	457.9
55°	16004.7	6189.4	1751.9	748.5	608.7	642.9	529.2	488.0	466.1	452.3	444.2
57.5°	16871.0	6314.2	1542.2	686.8	564.8	622.4	523.6	475.7	452.3	441.4	430.5
60°	16699.7	6072.8	1365.3	648.4	538.8	562.0	519.6	464.7	440.1	431.8	422.2
62.5°	15327.5	5442.3	1251.6	630.5	522.3	512.7	523.6	453.8	429.0	420.8	418.1
65°	13269.8	4511.4	1206.4	626.5	508.6	484.0	486.6	441.4	416.8	409.9	407.1
67.5°	10946.2	3641.0	1166.6	640.2	490.8	463.4	449.6	424.9	404.4	397.5	392.1
70°	8632.3	3028.2	1148.8	632.0	468.8	442.7	427.7	407.1	389.3	382.5	378.4
72.5°	6951.6	2558.0	1139.2	623.7	440.1	415.3	401.6	383.8	364.7	361.9	357.8
75°	5882.3	2011.0	1043.2	597.7	407.1	382.5	372.9	356.4	337.3	337.3	334.5
77.5°	4537.5	1454.4	867.8	529.2	372.9	345.5	337.3	324.9	303.0	307.1	305.7
80°	3351.7	948.6	678.5	438.6	330.4	304.3	300.2	287.9	264.5	270.1	270.1
82.5°	2296.2	622.4	488.0	359.2	282.4	257.7	257.7	245.4	219.3	222.1	230.3
85°	1152.9	427.7	364.7	278.2	219.3	207.0	207.0	197.4	171.3	172.8	183.7
87.5°	351.0	257.7	241.3	198.8	157.6	154.9	148.0	141.2	124.7	123.4	130.2
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: P191275
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-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°	7266.8	7188.7	7094.2	6885.8	6815.8	6811.7	6874.8	6809.0	6935.1	6881.7	6940.6
5°	5860.4	5783.6	5678.1	5412.1	5250.3	5140.6	5088.6	4935.0	5046.1	4965.2	5032.4
7.5°	4309.9	4327.8	4257.8	4101.6	3749.2	3572.5	3468.2	3375.0	3455.9	3447.7	3576.5
10°	3029.6	3077.5	3028.2	2870.6	2585.4	2488.1	2507.3	2544.3	2649.9	2704.7	2903.4
12.5°	2181.0	2178.3	2146.8	2005.6	1817.8	1828.7	1906.9	1971.3	2068.6	2126.2	2329.1
15°	1628.5	1603.9	1590.2	1475.0	1368.1	1391.4	1429.8	1436.6	1498.3	1532.6	1697.1
17.5°	1231.0	1243.4	1258.4	1176.2	1095.3	1080.2	1050.1	1013.0	1030.8	1037.7	1120.0
20°	977.4	1026.7	1063.8	1006.2	923.9	880.0	841.7	817.0	817.0	815.7	838.9
22.5°	854.1	889.7	929.5	889.7	815.7	777.2	755.3	736.1	733.4	733.4	755.3
25°	786.9	812.9	851.3	823.9	769.1	740.2	719.6	695.0	685.4	682.7	697.8
27.5°	754.0	765.0	784.1	759.4	712.8	699.1	693.7	671.7	659.4	652.5	667.6
30°	697.8	695.0	696.4	671.7	634.7	633.3	642.9	647.0	642.9	641.6	664.8
32.5°	645.7	640.2	638.8	616.8	582.6	574.4	582.6	590.9	600.5	614.2	641.6
35°	579.9	593.6	601.8	582.6	541.4	516.8	507.2	492.1	484.0	484.0	515.5
37.5°	527.7	559.3	571.6	553.8	508.6	474.3	457.9	455.1	456.5	462.0	492.1
40°	509.9	533.3	544.2	526.4	481.2	449.6	440.1	437.3	440.1	448.3	478.4
42.5°	499.0	515.5	514.0	492.1	455.1	433.2	427.7	424.9	427.7	435.9	468.8
45°	489.4	500.3	489.4	463.4	429.0	418.1	419.5	418.1	420.8	429.0	460.6
47.5°	481.2	485.3	471.6	445.5	409.9	407.1	412.7	416.8	419.5	426.4	459.2
50°	468.8	468.8	456.5	429.0	393.4	394.8	401.6	411.2	412.7	420.8	446.9
52.5°	453.8	452.3	444.2	418.1	379.7	383.8	383.8	394.8	397.5	407.1	434.5
55°	441.4	438.6	434.5	409.9	367.3	374.2	370.1	374.2	381.0	390.7	420.8
57.5°	430.5	424.9	424.9	403.0	357.8	360.5	351.0	356.4	364.7	372.9	404.4
60°	419.5	414.0	416.8	393.4	342.7	339.9	335.8	346.8	349.5	359.2	390.7
62.5°	407.1	403.0	404.4	382.5	331.7	324.9	324.9	334.5	335.8	349.5	379.7
65°	397.5	392.1	390.7	371.5	319.4	311.2	315.3	319.4	322.1	335.8	364.7
67.5°	387.9	377.0	377.0	361.9	305.7	297.5	305.7	304.3	308.4	320.8	344.1
70°	375.6	360.5	361.9	355.1	292.0	282.4	289.3	287.9	290.6	298.8	322.1
72.5°	356.4	344.1	346.8	344.1	278.2	264.5	267.3	267.3	267.3	274.2	298.8
75°	331.7	322.1	330.4	337.3	261.9	242.6	245.4	245.4	241.3	245.4	275.6
77.5°	301.6	296.1	323.6	313.9	242.6	219.3	219.3	216.6	208.4	213.9	246.7
80°	268.7	264.5	298.8	263.2	220.8	190.6	187.8	181.0	172.8	176.9	209.7
82.5°	234.5	230.3	250.8	201.5	190.6	157.6	150.8	138.4	130.2	134.3	164.5
85°	191.9	191.9	193.3	152.2	145.3	120.6	112.4	96.0	86.3	89.1	117.8
87.5°	137.1	141.2	130.2	104.1	86.3	67.2	61.7	52.1	43.9	50.7	61.7
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: P191275

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-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°	7242.2	7393.0	7564.3	7783.6	7971.4	8280.0	8576.0	8754.2
5°	5414.9	5665.7	5978.2	6379.9	6754.1	7316.2	7874.2	8231.9
7.5°	3875.3	4144.1	4481.3	4983.0	5512.2	6229.2	6966.6	7394.4
10°	3206.4	3481.9	3765.7	4104.3	4537.5	5317.5	6189.4	6671.9
12.5°	2652.6	2947.3	3253.0	3609.5	4011.1	4707.5	5712.4	6267.5
15°	2030.3	2359.2	2719.7	3170.7	3673.8	4478.6	5594.4	6197.6
17.5°	1391.4	1758.8	2201.6	2758.2	3373.7	4404.5	5805.6	6500.5
20°	958.2	1225.5	1698.5	2351.0	3091.3	4394.9	6211.4	7081.8
22.5°	802.0	921.2	1266.6	1976.8	2878.8	4512.8	6840.6	7897.5
25°	741.6	812.9	1011.7	1651.9	2723.9	4784.2	7706.9	8953.0
27.5°	705.9	770.4	918.5	1439.4	2601.9	5099.5	8549.9	9975.6
30°	719.6	785.5	892.4	1331.1	2436.0	5362.7	9298.4	10773.5
32.5°	648.4	677.2	765.0	1235.1	2316.8	5583.5	9953.7	11434.2
35°	552.5	603.1	682.7	1189.9	2319.4	5731.5	10667.9	12278.7
37.5°	526.4	577.1	634.7	1173.4	2351.0	5889.1	11487.7	13268.4
40°	509.9	556.6	605.9	1163.8	2381.1	6033.1	12291.1	14247.2
42.5°	499.0	541.4	603.1	1131.0	2396.3	6161.9	12951.8	15079.3
45°	497.7	541.4	614.2	1098.0	2419.6	6300.5	13505.6	15694.8
47.5°	499.0	559.3	593.6	1058.3	2419.6	6532.1	14155.4	16244.6
50°	493.5	589.4	571.6	1002.1	2363.3	6970.8	15046.4	16980.7
52.5°	490.8	585.3	529.2	915.7	2266.0	7667.1	16188.3	17995.1
55°	484.0	564.8	499.0	786.9	2152.2	8426.6	17411.1	19194.6
57.5°	477.1	500.3	482.5	674.4	1976.8	8961.3	18252.8	20130.9
60°	534.6	437.3	468.8	619.6	1742.4	9107.9	18220.0	20503.7
62.5°	494.9	409.9	451.0	607.3	1577.8	8696.6	17378.2	20302.3
65°	387.9	392.1	433.2	642.9	1534.0	7606.9	15886.7	19371.4
67.5°	355.1	374.2	415.3	688.1	1538.1	6090.6	13657.7	17343.9
70°	334.5	355.1	394.8	711.5	1549.1	4540.3	10798.2	14126.5
72.5°	311.2	329.0	371.5	715.6	1477.8	3298.3	8322.4	10386.9
75°	283.8	300.2	338.6	623.7	1224.2	2287.9	6366.2	7106.4
77.5°	252.3	264.5	297.5	481.2	908.9	1464.0	4778.8	5191.4
80°	215.2	222.1	249.5	352.3	622.4	915.7	3780.8	4166.0
82.5°	172.8	175.4	193.3	264.5	404.4	588.1	2531.9	2889.7
85°	122.0	122.0	133.0	191.9	275.6	372.9	1374.9	1524.4
87.5°	57.6	58.9	58.9	105.6	143.9	189.1	316.7	194.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)