

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: P269410

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269410
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-SLL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 17909.1 lumens
Efficiency: N/A
Efficacy: 92.8 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 - G3

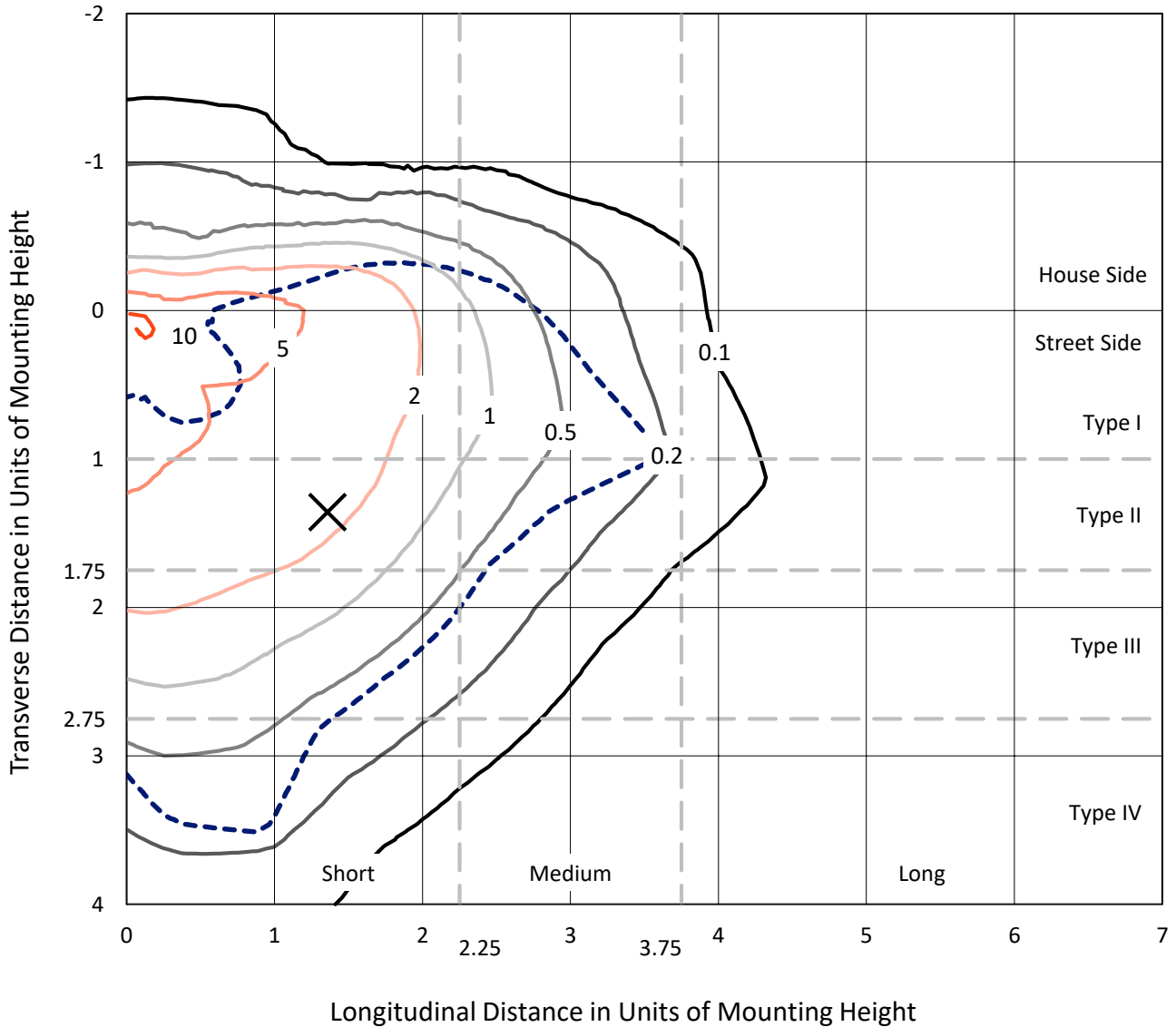
Input Watts (W): 193
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269410
 CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7027-600

Iso-Footcandle Lines of Horizontal Illumination

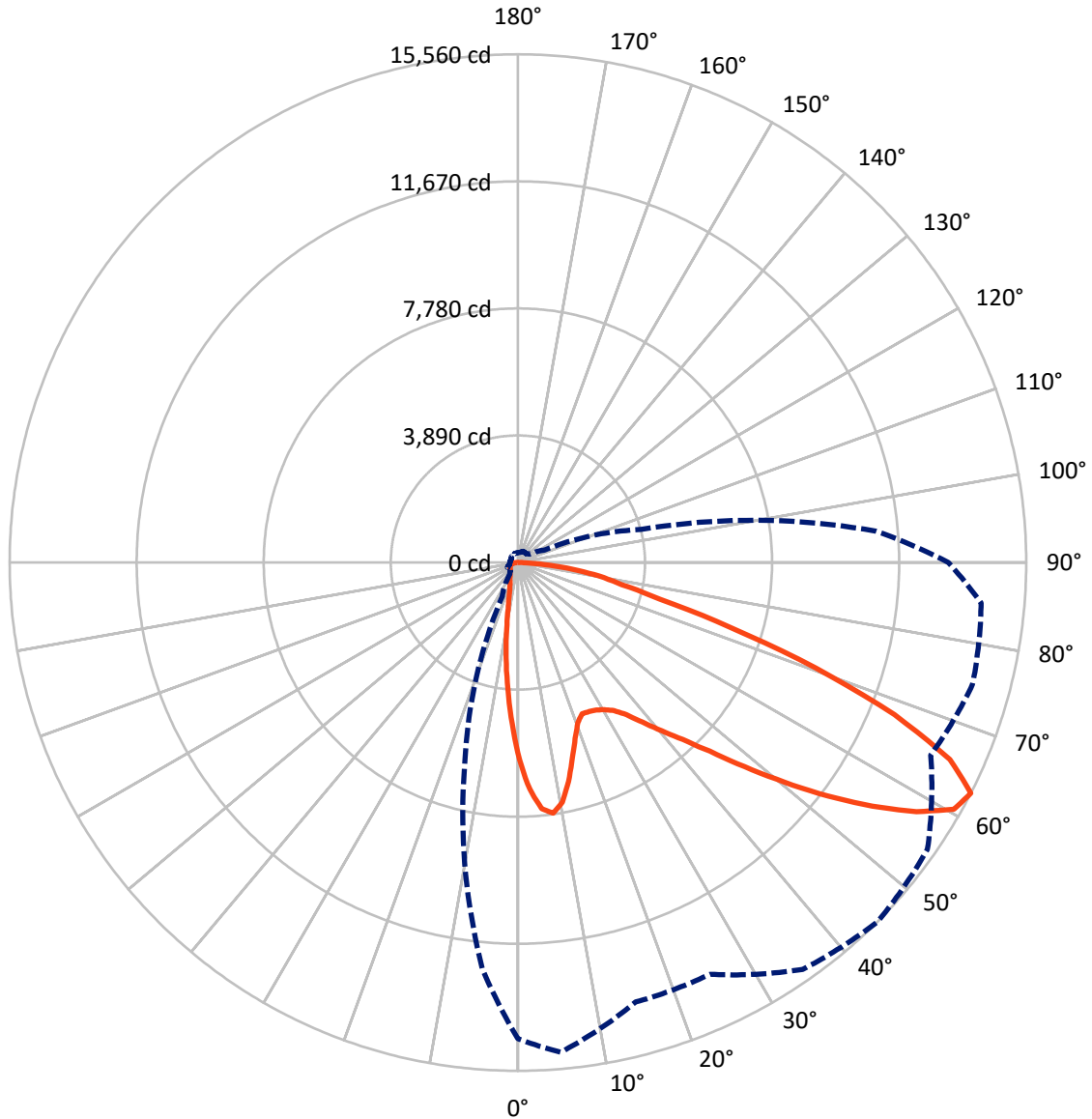
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269410
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7027-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269410

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2963.7	0.0	2963.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14945.4	0.0	14945.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	17909.1	0.0	17909.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.5	2.5
10°-20°	807.7	4.5
20°-30°	1177.6	6.6
30°-40°	1813.7	10.1
40°-50°	2669.3	14.9
50°-60°	3915.2	21.9
60°-70°	4376.7	24.4
70°-80°	2142.8	12.0
80°-90°	565.7	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°	17909.1	100.0
0°-180°	17909.1	100.0

Coefficient of Utilization



REPORT NUMBER: P269410

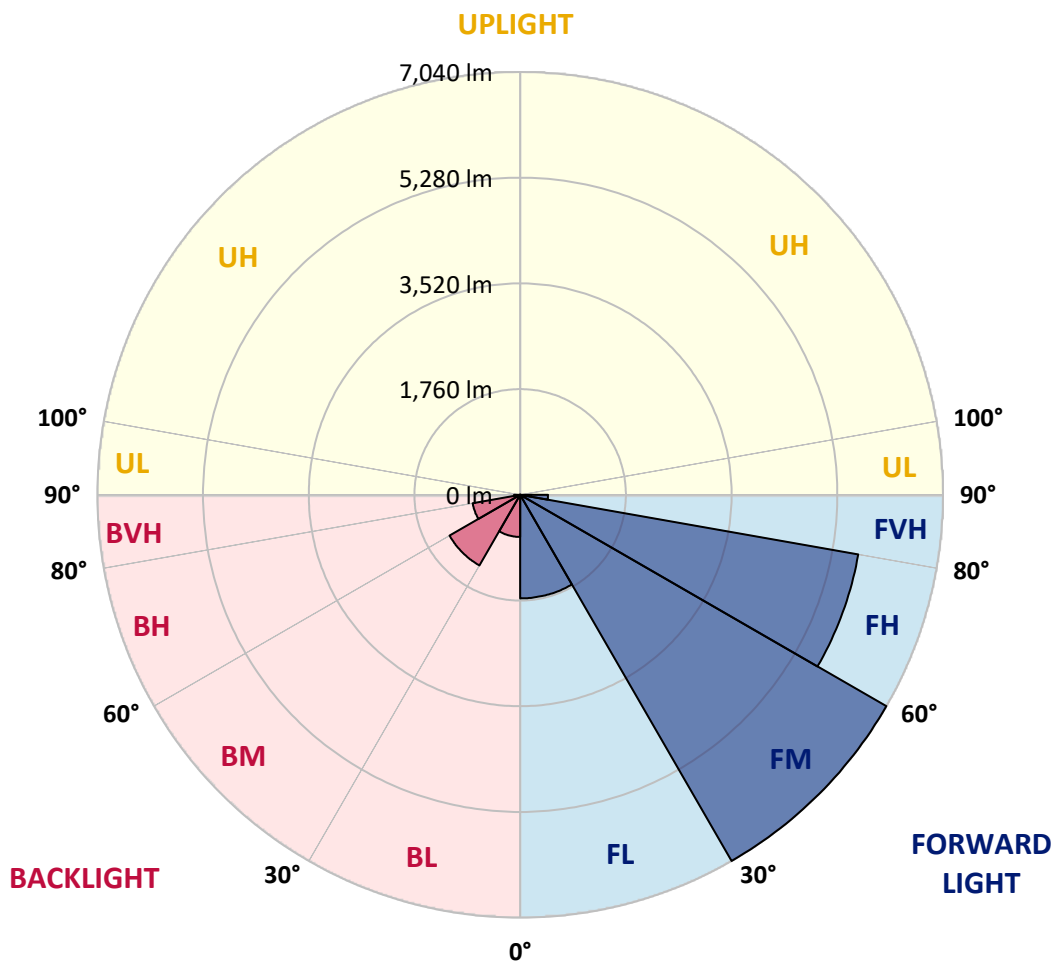
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1724.6	9.6			
FM	(30°-60°)	7040.2	39.3			
FH	(60°-80°)	5716.0	31.9			G3/7500
FVH	(80°-90°)	464.6	2.6			G3/500
BL	(0°-30°)	701.2	3.9	B2/1000		
BM	(30°-60°)	1357.9	7.6	B2/2500		
BH	(60°-80°)	803.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	101.1	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-G3

Type IV Short





REPORT NUMBER: P269410

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7
2.5°	6287.0	6387.4	6583.3	6729.9	6908.1	6949.5	7006.6	6950.5	6851.1	6719.1	6675.8
5°	5911.8	6126.5	6602.0	7020.3	7392.5	7565.7	7614.0	7471.3	7182.8	6803.9	6572.4
7.5°	5310.3	5615.6	6259.4	6875.6	7424.0	7747.9	7740.1	7408.2	6877.7	6260.4	5889.2
10°	4791.5	5140.0	5878.4	6567.5	7149.3	7463.4	7342.2	6917.9	6284.9	5574.2	5171.5
12.5°	4501.0	4842.8	5591.9	6284.0	6770.3	6878.6	6786.1	6370.6	5774.0	5055.3	4702.8
15°	4450.8	4826.0	5477.7	6040.8	6313.5	6219.0	6108.7	5922.6	5501.3	4887.9	4520.8
17.5°	4668.4	5081.9	5608.6	5871.5	5825.1	5660.8	5629.3	5650.0	5548.7	5074.0	4650.7
20°	5085.8	5582.1	5920.6	5791.7	5454.1	5227.6	5235.5	5551.5	5851.7	5545.5	5062.2
22.5°	5671.5	6237.7	6370.6	5834.0	5297.6	5028.7	5093.7	5605.7	6335.1	6234.7	5617.6
25°	6429.7	6945.5	6850.0	5987.7	5313.3	5053.3	5105.5	5792.7	6906.2	6923.9	6304.7
27.5°	7164.2	7642.6	7252.7	6191.5	5378.2	5111.4	5180.3	6087.1	7451.6	7672.2	7090.3
30°	7737.1	8069.8	7412.3	6377.4	5506.3	5224.7	5310.3	6366.6	7699.6	8177.1	7694.7
32.5°	8211.5	8450.9	7666.1	6607.9	5741.5	5402.9	5553.5	6706.3	8057.1	8657.5	8286.4
35°	8818.0	8885.9	7982.2	6864.8	6104.8	5713.0	5900.1	7039.1	8397.6	9142.9	8869.2
37.5°	9528.9	9441.2	8280.5	7216.3	6574.3	6198.3	6353.0	7404.3	8678.3	9693.3	9464.8
40°	10231.8	10021.1	8654.6	7761.6	7259.7	6770.3	6953.4	7794.1	8940.1	10244.6	10046.6
42.5°	10829.3	10517.3	9023.8	8361.2	7897.5	7401.3	7620.0	8187.1	9190.2	10715.2	10551.8
45°	11271.5	10883.5	9375.3	8937.1	8776.7	8240.2	8343.5	8636.9	9460.9	11107.9	10967.1
47.5°	11666.2	11251.7	9773.0	9518.0	9545.6	9331.0	9164.6	9160.6	9779.8	11428.9	11360.0
50°	12194.9	11762.6	10200.3	10116.6	10699.4	10556.6	10189.5	9772.0	10183.5	11793.2	11785.4
52.5°	12923.3	12571.9	10722.0	10761.4	11776.4	11869.9	11415.1	10506.4	10815.6	12461.6	12414.3
55°	13784.9	13579.9	11432.9	11502.7	13097.6	13164.5	12712.6	11425.0	11744.9	13429.4	13298.5
57.5°	14457.2	14413.8	12212.5	12392.7	14084.0	14385.3	13969.9	12488.1	12792.5	14244.6	13915.7
60°	14724.9	14934.7	13042.5	13290.6	14996.7	15330.5	14966.1	13422.5	13720.8	14582.2	13873.5
62.5°	14580.2	15048.9	13926.6	13905.9	15200.5	15559.8	15303.9	13942.4	14409.0	14233.7	13171.5
65°	13911.8	14638.3	14439.4	13747.4	14503.5	14533.0	14450.2	13709.9	14571.3	13132.1	11814.8
67.5°	12455.7	13501.3	13764.1	12388.7	12623.2	12431.1	12292.2	12438.0	13724.8	11481.1	9929.5
70°	10145.2	11718.3	11844.3	9908.8	9802.6	9673.6	9396.9	10197.3	12054.0	9409.7	7878.9
72.5°	7459.4	9113.3	9500.3	7267.5	6775.2	6801.8	6583.3	7684.9	9800.6	6989.8	5882.3
75°	5103.6	6598.9	7432.8	5071.1	4480.3	4491.3	4463.7	5445.2	7806.0	4862.3	4401.6
77.5°	3728.2	4714.8	5605.7	3409.2	3309.9	3248.8	3234.1	3810.0	5984.7	3530.3	3418.1
80°	2991.9	3483.1	3765.6	2362.7	2540.9	2536.1	2454.3	2619.6	3908.4	2582.3	2556.8
82.5°	2075.4	2676.8	3051.0	1851.9	1715.0	1686.4	1706.2	1951.3	2762.5	1765.2	1678.6
85°	1094.8	1777.9	3021.4	1641.2	1018.0	812.2	1010.1	1597.8	2393.3	935.2	819.1
87.5°	139.7	513.9	2000.4	654.7	401.6	216.6	479.4	899.8	1536.8	191.0	166.4
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: P269410

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7027-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7
2.5°	6564.5	6433.7	6262.4	6103.9	5939.5	5776.0	5562.3	5428.5	5335.9	5318.1	5278.8
5°	6405.1	5970.0	5641.0	5356.7	5098.7	4734.3	4532.6	4365.3	4275.7	4266.8	4245.1
7.5°	5669.7	5069.1	4625.2	4222.5	3857.2	3562.9	3238.0	3086.3	3024.4	3039.1	3053.9
10°	4904.7	4233.4	3723.4	3311.8	2989.9	2741.7	2480.8	2304.7	2182.6	2158.0	2153.1
12.5°	4345.6	3609.1	3114.0	2823.6	2574.5	2341.2	2064.5	1856.7	1698.2	1644.1	1607.6
15°	4109.2	3304.0	2785.1	2472.0	2197.3	1901.1	1644.1	1426.5	1280.9	1233.6	1207.1
17.5°	4159.4	3219.3	2558.7	2158.0	1806.5	1497.5	1173.5	987.4	899.8	877.1	877.1
20°	4423.3	3203.5	2371.6	1868.6	1430.5	1072.0	806.3	700.0	671.5	668.5	676.3
22.5°	4793.4	3258.6	2231.7	1617.5	1111.6	782.7	628.2	588.7	576.0	578.9	587.8
25°	5344.7	3444.7	2130.4	1394.0	872.3	640.9	560.2	536.6	530.7	538.5	549.4
27.5°	5998.5	3630.8	2067.4	1225.6	736.4	585.8	532.6	508.0	511.9	521.7	531.6
30°	6572.4	3783.4	1967.9	1105.5	694.1	588.7	532.6	499.2	495.1	497.1	500.1
32.5°	7087.3	3886.7	1851.9	991.4	598.6	522.8	497.1	492.2	470.6	462.6	463.6
35°	7531.3	3886.7	1781.9	924.4	536.6	463.6	422.4	397.7	386.9	387.9	398.7
37.5°	7959.6	3809.0	1747.5	887.0	503.1	441.1	404.6	382.9	368.1	365.3	367.1
40°	8337.6	3695.7	1708.0	871.3	477.4	427.2	392.7	375.1	359.3	354.4	355.4
42.5°	8640.8	3604.2	1664.7	850.5	461.6	417.4	385.0	369.2	351.4	346.6	345.6
45°	8968.7	3573.6	1607.6	809.3	469.6	418.4	382.9	366.1	348.5	342.7	340.6
47.5°	9400.9	3669.1	1548.6	760.1	486.3	423.3	385.9	366.1	347.6	342.7	340.6
50°	9945.2	3893.7	1473.8	688.1	469.6	437.1	385.0	363.3	347.6	342.7	338.8
52.5°	10644.2	4196.9	1375.3	605.5	459.8	470.6	382.9	357.3	342.7	335.6	328.8
55°	11493.9	4445.0	1258.2	537.5	437.1	461.6	380.1	350.5	334.7	324.8	319.0
57.5°	12116.1	4534.6	1107.5	493.2	405.7	446.9	376.1	341.6	324.8	317.0	309.1
60°	11993.0	4361.4	980.5	465.6	386.9	403.7	373.2	333.7	316.1	310.2	303.2
62.5°	11007.6	3908.4	898.8	452.8	375.1	368.1	376.1	325.8	308.2	302.2	300.3
65°	9529.8	3239.9	866.3	450.0	365.3	347.6	349.5	317.0	299.2	294.4	292.4
67.5°	7861.2	2614.7	837.8	459.8	352.4	332.7	322.9	305.2	290.4	285.5	281.6
70°	6199.4	2174.7	825.1	453.9	336.7	318.0	307.2	292.4	279.6	274.7	271.6
72.5°	4992.3	1837.0	818.0	448.0	316.1	298.2	288.4	275.7	261.9	259.9	256.9
75°	4224.4	1444.2	749.1	429.2	292.4	274.7	267.8	255.9	242.3	242.3	240.1
77.5°	3258.6	1044.5	623.2	380.1	267.8	248.1	242.3	233.3	217.6	220.5	219.5
80°	2407.1	681.3	487.3	315.0	237.2	218.6	215.7	206.7	190.0	193.9	193.9
82.5°	1649.0	446.9	350.5	258.0	202.7	185.1	185.1	176.2	157.6	159.4	165.4
85°	828.0	307.2	261.9	199.9	157.6	148.7	148.7	141.8	123.1	124.1	132.0
87.5°	252.1	185.1	173.3	142.7	113.2	111.2	106.3	101.4	89.7	88.7	93.6
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: P269410

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7027-600

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7
2.5°	5218.8	5162.6	5094.6	4945.1	4894.9	4891.9	4937.3	4890.0	4980.6	4942.1	4984.4
5°	4208.6	4153.6	4077.8	3886.7	3770.5	3691.9	3654.5	3544.2	3623.9	3565.8	3614.1
7.5°	3095.2	3108.0	3057.8	2945.6	2692.6	2565.6	2490.7	2423.7	2481.8	2476.0	2568.6
10°	2175.8	2210.2	2174.7	2061.5	1856.7	1786.9	1800.7	1827.2	1903.0	1942.3	2085.1
12.5°	1566.4	1564.4	1541.8	1440.3	1305.4	1313.3	1369.5	1415.6	1485.5	1526.8	1672.6
15°	1169.6	1151.8	1142.0	1059.3	982.6	999.3	1026.9	1031.8	1076.0	1100.7	1218.8
17.5°	884.0	892.9	903.8	844.6	786.6	775.7	754.0	727.5	740.4	745.2	804.3
20°	701.9	737.4	764.0	722.5	663.6	632.0	604.5	586.8	586.8	585.8	602.6
22.5°	613.4	639.0	667.5	639.0	585.8	558.1	542.4	528.7	526.6	526.6	542.4
25°	565.2	583.8	611.3	591.7	552.3	531.6	516.9	499.2	492.2	490.3	501.2
27.5°	541.5	549.4	563.1	545.5	511.9	502.2	498.1	482.4	473.5	468.6	479.4
30°	501.2	499.2	500.1	482.4	455.8	454.8	461.6	464.7	461.6	460.7	477.4
32.5°	463.6	459.8	458.8	443.0	418.4	412.5	418.4	424.3	431.1	441.1	460.7
35°	416.5	426.2	432.2	418.4	388.8	371.2	364.3	353.5	347.6	347.6	370.2
37.5°	379.1	401.6	410.5	397.7	365.3	340.6	328.8	326.9	327.8	331.7	353.5
40°	366.1	382.9	390.9	378.0	345.6	322.9	316.1	314.0	316.1	322.0	343.6
42.5°	358.3	370.2	369.2	353.5	326.9	311.2	307.2	305.2	307.2	313.1	336.7
45°	351.4	359.3	351.4	332.7	308.2	300.3	301.2	300.3	302.2	308.2	330.8
47.5°	345.6	348.5	338.8	319.9	294.4	292.4	296.4	299.2	301.2	306.2	329.8
50°	336.7	336.7	327.8	308.2	282.5	283.5	288.4	295.4	296.4	302.2	321.0
52.5°	325.8	324.8	319.0	300.3	272.6	275.7	275.7	283.5	285.5	292.4	312.2
55°	317.0	315.0	312.2	294.4	263.8	268.8	265.8	268.8	273.8	280.6	302.2
57.5°	309.1	305.2	305.2	289.4	256.9	258.9	252.1	255.9	261.9	267.8	290.4
60°	301.2	297.2	299.2	282.5	246.1	244.2	241.3	249.1	251.0	258.0	280.6
62.5°	292.4	289.4	290.4	274.7	238.2	233.3	233.3	240.1	241.3	251.0	272.6
65°	285.5	281.6	280.6	266.7	229.3	223.5	226.5	229.3	231.4	241.3	261.9
67.5°	278.7	270.7	270.7	259.9	219.5	213.6	219.5	218.6	221.5	230.3	247.2
70°	269.8	258.9	259.9	254.9	209.8	202.7	207.7	206.7	208.6	214.7	231.4
72.5°	255.9	247.2	249.1	247.2	199.9	190.0	192.0	192.0	192.0	196.9	214.7
75°	238.2	231.4	237.2	242.3	188.0	174.2	176.2	176.2	173.3	176.2	197.8
77.5°	216.6	212.7	232.3	225.5	174.2	157.6	157.6	155.5	149.7	153.6	177.2
80°	193.0	190.0	214.7	189.1	158.6	136.8	134.8	130.0	124.1	127.0	150.6
82.5°	168.3	165.4	180.2	144.7	136.8	113.2	108.2	99.4	93.6	96.5	118.1
85°	137.8	137.8	138.8	109.2	104.4	86.6	80.8	68.9	62.1	64.0	84.7
87.5°	98.5	101.4	93.6	74.7	62.1	48.2	44.2	37.4	31.5	36.4	44.2
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: P269410

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7027-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7	6050.7
2.5°	5201.0	5309.3	5432.4	5590.0	5724.8	5946.3	6159.0	6287.0
5°	3888.8	4069.0	4293.4	4581.9	4850.6	5254.1	5654.9	5911.8
7.5°	2783.2	2976.2	3218.3	3578.6	3958.7	4473.5	5003.2	5310.3
10°	2302.7	2500.6	2704.3	2947.6	3258.6	3818.9	4445.0	4791.5
12.5°	1904.9	2116.6	2336.2	2592.1	2880.7	3380.7	4102.4	4501.0
15°	1457.9	1694.4	1953.3	2277.2	2638.4	3216.3	4017.7	4450.8
17.5°	999.3	1263.0	1581.0	1980.9	2422.8	3163.1	4169.4	4668.4
20°	688.1	880.1	1219.8	1688.5	2220.0	3156.3	4460.8	5085.8
22.5°	576.0	661.6	909.7	1419.6	2067.4	3240.9	4912.7	5671.5
25°	532.6	583.8	726.5	1186.3	1956.1	3435.8	5534.7	6429.7
27.5°	507.1	553.3	659.6	1033.7	1868.6	3662.3	6140.3	7164.2
30°	516.9	564.1	640.9	955.9	1749.4	3851.4	6677.8	7737.1
32.5°	465.6	486.3	549.4	887.0	1663.8	4009.9	7148.4	8211.5
35°	396.7	433.2	490.3	854.6	1665.7	4116.2	7661.3	8818.0
37.5°	378.0	414.5	455.8	842.7	1688.5	4229.4	8250.0	9528.9
40°	366.1	399.7	435.1	835.9	1710.1	4332.7	8826.9	10231.8
42.5°	358.3	388.8	433.2	812.2	1721.0	4425.3	9301.4	10829.3
45°	357.3	388.8	441.1	788.6	1737.6	4524.8	9699.2	11271.5
47.5°	358.3	401.6	426.2	760.1	1737.6	4691.0	10165.8	11666.2
50°	354.4	423.3	410.5	719.6	1697.3	5006.2	10805.7	12194.9
52.5°	352.4	420.3	380.1	657.6	1627.4	5506.3	11625.9	12923.3
55°	347.6	405.7	358.3	565.2	1545.7	6051.6	12504.0	13784.9
57.5°	342.7	359.3	346.6	484.4	1419.6	6435.5	13108.4	14457.2
60°	383.9	314.0	336.7	445.0	1251.2	6540.9	13084.8	14724.9
62.5°	355.4	294.4	323.8	436.1	1133.1	6245.6	12480.3	14580.2
65°	278.7	281.6	311.2	461.6	1101.6	5463.0	11409.3	13911.8
67.5°	254.9	268.8	298.2	494.2	1104.6	4374.0	9808.5	12455.7
70°	240.1	254.9	283.5	511.0	1112.6	3260.6	7754.8	10145.2
72.5°	223.5	236.3	266.7	513.9	1061.3	2368.7	5976.9	7459.4
75°	203.7	215.7	243.3	448.0	879.1	1643.1	4572.0	5103.6
77.5°	181.2	190.0	213.6	345.6	652.7	1051.5	3432.0	3728.2
80°	154.6	159.4	179.2	253.1	446.9	657.6	2715.1	2991.9
82.5°	124.1	126.0	138.8	190.0	290.4	422.4	1818.3	2075.4
85°	87.7	87.7	95.5	137.8	197.8	267.8	987.4	1094.8
87.5°	41.3	42.3	42.3	75.7	103.3	135.9	227.5	139.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)