

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: P191283

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191283
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-05-LED-E1-SLL-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA 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: 21608.8 lumens
Efficiency: N/A
Efficacy: 102.9 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

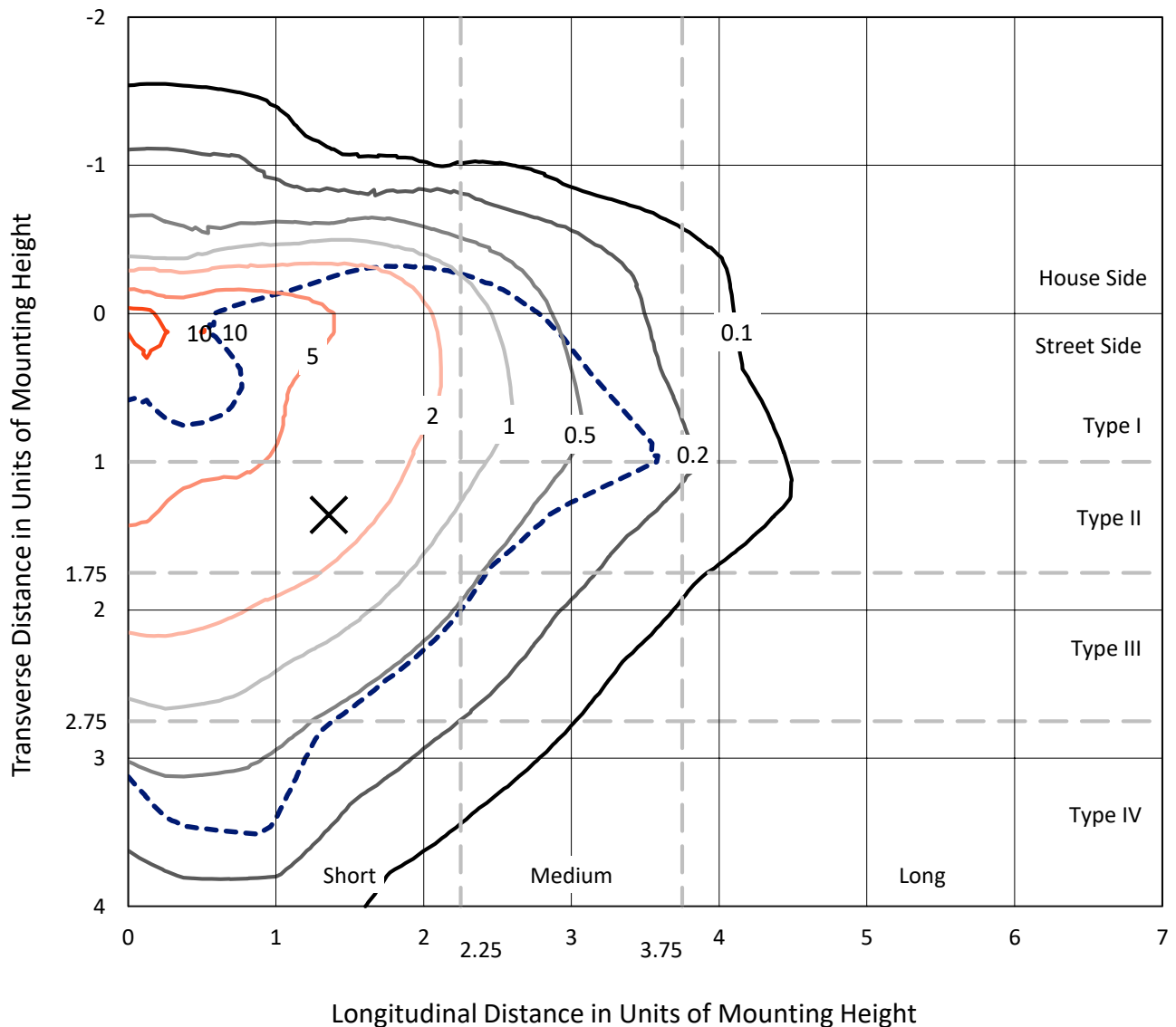
Input Watts (W): 210
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191283
 CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-800

Iso-Footcandle Lines of Horizontal Illumination

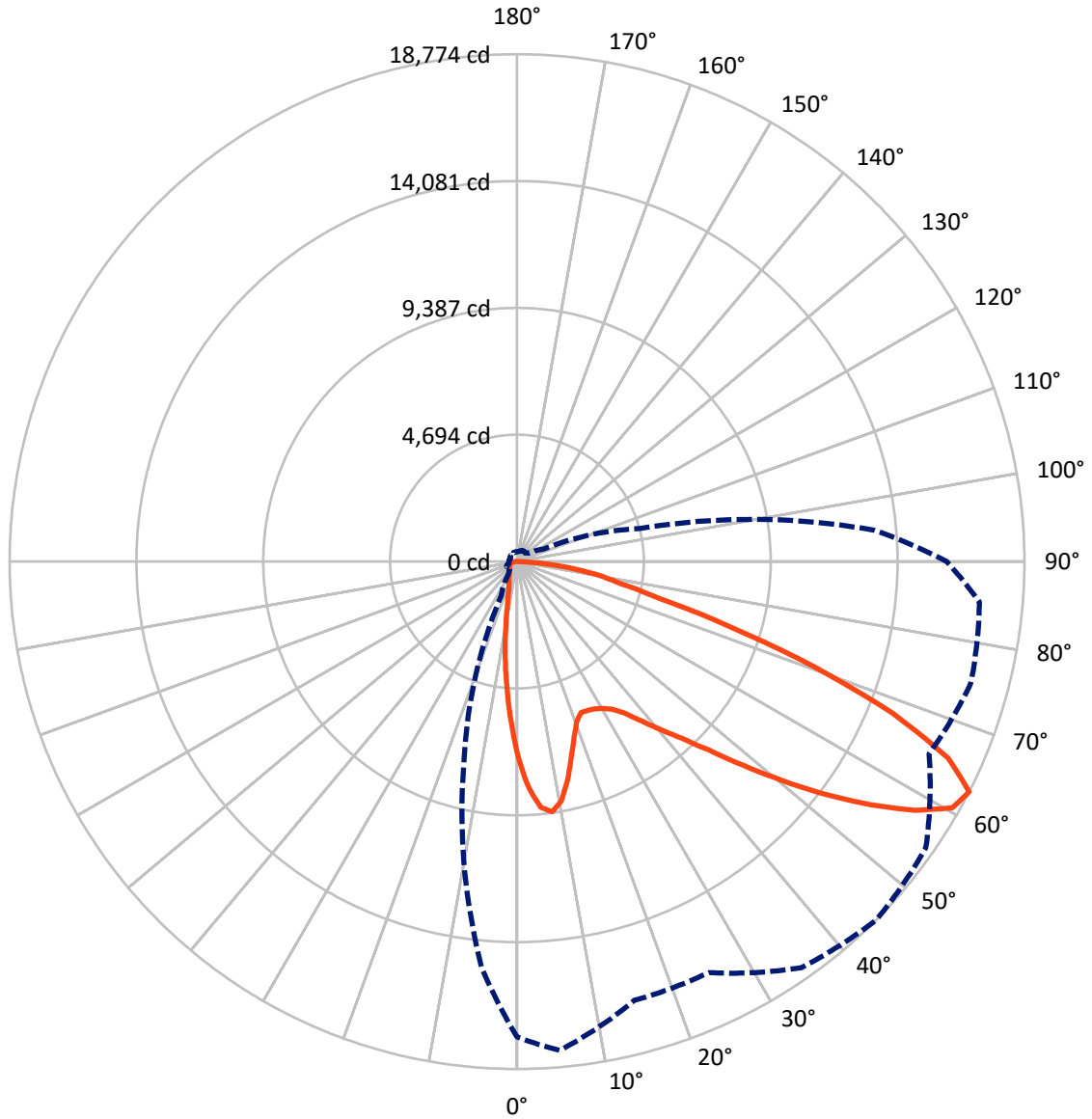
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191283
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191283

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3576.0	0.0	3576.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18032.9	0.0	18032.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	21608.8	0.0	21608.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.5	2.5
10°-20°	974.5	4.5
20°-30°	1420.9	6.6
30°-40°	2188.4	10.1
40°-50°	3220.7	14.9
50°-60°	4724.1	21.9
60°-70°	5280.8	24.4
70°-80°	2585.4	12.0
80°-90°	682.6	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°	21608.8	100.0
0°-180°	21608.8	100.0

Coefficient of Utilization



REPORT NUMBER: P191283

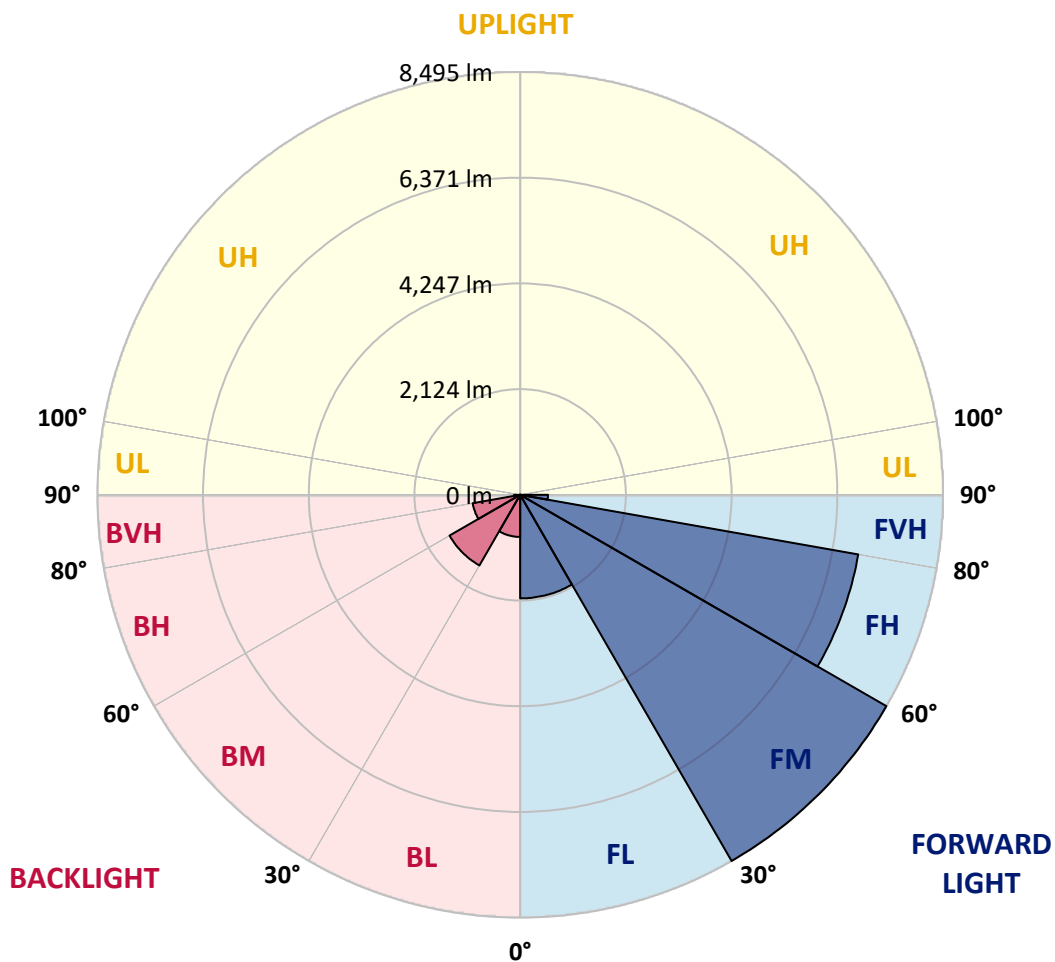
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2080.9	9.6			
FM	(30°-60°)	8494.6	39.3			
FH	(60°-80°)	6896.8	31.9			G3/7500
FVH	(80°-90°)	560.6	2.6			G4/750
BL	(0°-30°)	846.0	3.9	B2/1000		
BM	(30°-60°)	1638.5	7.6	B2/2500		
BH	(60°-80°)	969.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	122.0	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: P191283

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6
2.5°	7585.7	7706.9	7943.2	8120.3	8335.2	8385.1	8454.1	8386.4	8266.4	8107.2	8054.9
5°	7133.1	7392.0	7965.8	8470.6	8919.7	9128.7	9186.9	9014.8	8666.6	8209.4	7930.2
7.5°	6407.4	6775.6	7552.4	8296.0	8957.7	9348.5	9339.0	8938.6	8298.4	7553.7	7105.8
10°	5781.3	6201.8	7092.7	7924.3	8626.2	9005.2	8859.1	8347.2	7583.3	6725.7	6239.9
12.5°	5430.9	5843.1	6747.1	7582.1	8169.0	8299.6	8188.0	7686.7	6966.8	6099.7	5674.4
15°	5370.4	5822.9	6609.3	7288.7	7617.8	7503.8	7370.7	7146.2	6637.8	5897.7	5454.7
17.5°	5632.9	6131.8	6767.2	7084.4	7028.6	6830.2	6792.2	6817.1	6694.8	6122.3	5611.5
20°	6136.5	6735.2	7143.8	6988.2	6580.7	6307.5	6317.0	6698.4	7060.7	6691.2	6108.0
22.5°	6843.3	7526.4	7686.7	7039.3	6391.9	6067.6	6146.0	6763.8	7643.9	7522.8	6778.0
25°	7758.0	8380.4	8265.1	7224.6	6410.9	6097.3	6160.3	6989.4	8332.9	8354.2	7607.1
27.5°	8644.1	9221.4	8751.0	7470.5	6489.3	6167.4	6250.5	7344.6	8990.9	9257.0	8555.0
30°	9335.4	9737.0	8943.5	7694.9	6643.8	6304.0	6407.4	7682.0	9290.3	9866.4	9284.4
32.5°	9908.0	10196.7	9249.9	7973.0	6927.6	6519.0	6700.7	8091.7	9721.5	10446.1	9998.2
35°	10639.7	10721.6	9631.2	8282.9	7366.0	6893.2	7118.9	8493.3	10132.5	11031.7	10701.5
37.5°	11497.4	11391.6	9991.2	8707.1	7932.6	7478.8	7665.3	8933.9	10471.0	11695.7	11420.1
40°	12345.5	12091.3	10442.5	9365.1	8759.3	8169.0	8389.9	9404.3	10787.0	12360.9	12122.2
42.5°	13066.6	12690.0	10888.0	10088.5	9529.1	8930.4	9194.1	9878.3	11088.7	12928.8	12731.5
45°	13599.8	13131.8	11312.0	10783.4	10589.8	9942.5	10067.2	10421.1	11415.4	13402.7	13232.8
47.5°	14076.2	13576.1	11792.0	11484.3	11517.5	11258.6	11057.8	11053.1	11800.2	13789.9	13706.8
50°	14714.1	14192.6	12307.4	12206.5	12909.7	12737.5	12294.4	11790.7	12287.3	14229.5	14219.9
52.5°	15593.1	15169.0	12937.1	12984.5	14209.2	14322.1	13773.3	12676.9	13049.9	15036.0	14979.0
55°	16632.5	16385.4	13794.7	13879.0	15803.4	15884.2	15338.9	13785.2	14171.2	16203.6	16045.7
57.5°	17443.8	17391.5	14735.5	14952.9	16993.6	17357.1	16855.8	15068.1	15435.1	17187.2	16790.5
60°	17766.9	18019.9	15736.9	16036.2	18094.8	18497.4	18057.9	16195.4	16555.2	17594.7	16739.4
62.5°	17592.3	18157.7	16803.5	16778.6	18340.7	18774.2	18465.4	16822.5	17385.6	17174.1	15892.5
65°	16785.7	17662.4	17422.4	16587.4	17499.6	17535.3	17435.5	16542.2	17581.6	15844.9	14255.5
67.5°	15028.9	16290.4	16607.5	14948.1	15230.8	14999.2	14831.7	15007.5	16560.0	13852.9	11980.8
70°	12240.9	14139.1	14291.2	11955.8	11827.6	11672.0	11338.2	12304.0	14544.2	11353.6	9506.5
72.5°	9000.4	10996.1	11462.9	8768.8	8174.9	8206.9	7943.2	9272.4	11825.2	8433.8	7097.5
75°	6157.9	7962.2	8968.4	6118.7	5406.0	5419.1	5385.7	6570.1	9418.6	5866.8	5311.0
77.5°	4498.4	5688.7	6763.8	4113.6	3993.6	3919.9	3902.1	4597.0	7221.0	4259.7	4124.2
80°	3609.9	4202.7	4543.5	2850.9	3065.9	3060.0	2961.3	3160.9	4715.8	3115.8	3084.9
82.5°	2504.0	3229.8	3681.2	2234.3	2069.2	2034.9	2058.6	2354.3	3333.2	2129.9	2025.3
85°	1320.9	2145.3	3645.6	1980.1	1228.3	980.0	1218.7	1928.0	2887.7	1128.5	988.3
87.5°	168.7	620.1	2413.8	789.9	484.7	261.4	578.5	1085.8	1854.3	230.5	200.7
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: P191283

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6
2.5°	7920.7	7762.7	7556.0	7364.7	7166.4	6969.2	6711.5	6549.9	6438.2	6416.9	6369.3
5°	7728.3	7203.2	6806.5	6463.2	6151.9	5712.5	5468.9	5267.0	5158.9	5148.2	5122.1
7.5°	6840.9	6116.3	5580.6	5094.7	4654.0	4298.8	3906.9	3724.0	3649.2	3667.0	3684.8
10°	5918.0	5107.8	4492.5	3996.0	3607.5	3308.2	2993.5	2780.8	2633.5	2603.8	2597.9
12.5°	5243.2	4354.7	3757.2	3406.8	3106.3	2824.8	2491.0	2240.4	2049.1	1983.7	1939.8
15°	4958.1	3986.4	3360.5	2982.7	2651.3	2293.8	1983.7	1721.2	1545.4	1488.4	1456.3
17.5°	5018.7	3884.3	3087.3	2603.8	2179.7	1806.7	1416.0	1191.4	1085.8	1058.3	1058.3
20°	5337.0	3865.3	2861.6	2254.6	1725.9	1293.6	972.8	844.5	810.1	806.6	816.1
22.5°	5783.8	3931.8	2692.9	1951.7	1341.1	944.4	757.9	710.3	694.9	698.5	709.1
25°	6448.9	4156.4	2570.6	1682.0	1052.4	773.4	675.9	647.4	640.3	649.8	662.9
27.5°	7237.7	4380.9	2494.6	1478.9	888.5	706.8	642.6	613.0	617.7	629.5	641.5
30°	7930.2	4564.9	2374.6	1333.9	837.5	710.3	642.6	602.2	597.5	599.9	603.4
32.5°	8551.5	4689.7	2234.3	1196.1	722.2	630.8	599.9	593.9	567.8	558.3	559.5
35°	9087.2	4689.7	2150.0	1115.4	647.4	559.5	509.6	479.9	466.9	468.0	481.1
37.5°	9603.9	4595.8	2108.5	1070.3	607.0	532.1	488.3	462.1	444.3	440.7	443.0
40°	10060.0	4459.2	2060.9	1051.3	576.1	515.6	473.9	452.6	433.5	427.6	428.8
42.5°	10425.9	4348.8	2008.7	1026.3	557.1	503.7	464.4	445.5	424.1	418.1	417.0
45°	10821.5	4311.9	1939.8	976.4	566.6	504.8	462.1	441.9	420.5	413.4	411.0
47.5°	11342.9	4427.1	1868.5	917.1	586.8	510.8	465.6	441.9	419.3	413.4	411.0
50°	11999.8	4698.0	1778.2	830.3	566.6	527.4	464.4	438.3	419.3	413.4	408.7
52.5°	12843.2	5063.9	1659.4	730.5	554.7	567.8	462.1	431.2	413.4	405.1	396.7
55°	13868.3	5363.2	1518.1	648.6	527.4	557.1	458.5	422.9	403.9	392.0	384.8
57.5°	14619.1	5471.4	1336.4	595.2	489.4	539.3	453.8	412.1	392.0	382.5	373.0
60°	14470.6	5262.3	1183.1	561.9	466.9	487.0	450.2	402.7	381.3	374.2	365.9
62.5°	13281.5	4715.8	1084.5	546.5	452.6	444.3	453.8	393.2	371.8	364.7	362.3
65°	11498.6	3909.3	1045.4	542.9	440.7	419.3	421.7	382.5	361.1	355.2	352.8
67.5°	9485.1	3155.0	1010.9	554.7	425.2	401.5	389.6	368.3	350.5	344.5	339.7
70°	7480.0	2624.0	995.4	547.6	406.2	383.7	370.6	352.8	337.4	331.4	327.9
72.5°	6023.6	2216.5	987.1	540.5	381.3	359.9	348.0	332.6	316.0	313.6	310.1
75°	5097.2	1742.6	904.0	517.9	352.8	331.4	323.2	308.8	292.3	292.3	289.8
77.5°	3931.8	1260.3	751.9	458.5	323.2	299.3	292.3	281.5	262.5	266.1	264.9
80°	2904.4	822.0	588.0	380.1	286.3	263.7	260.1	249.5	229.2	234.1	234.1
82.5°	1989.6	539.3	422.9	311.2	244.7	223.3	223.3	212.7	190.1	192.4	199.6
85°	999.0	370.6	316.0	241.1	190.1	179.3	179.3	171.0	148.5	149.7	159.2
87.5°	304.1	223.3	209.1	172.3	136.6	134.2	128.3	122.3	108.1	106.9	112.8
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: P191283

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6
2.5°	6296.9	6229.2	6147.2	5966.7	5906.1	5902.5	5957.2	5900.2	6009.4	5963.1	6014.1
5°	5078.1	5011.6	4920.2	4689.7	4549.6	4454.5	4409.3	4276.3	4372.5	4302.4	4360.6
7.5°	3734.7	3750.1	3689.5	3554.1	3248.8	3095.6	3005.3	2924.5	2994.6	2987.5	3099.1
10°	2625.2	2666.7	2624.0	2487.4	2240.4	2156.0	2172.6	2204.7	2296.1	2343.7	2515.9
12.5°	1889.9	1887.5	1860.2	1737.9	1575.1	1584.7	1652.3	1708.1	1792.5	1842.3	2018.2
15°	1411.2	1389.8	1377.9	1278.2	1185.5	1205.6	1238.9	1244.9	1298.3	1328.0	1470.6
17.5°	1066.7	1077.4	1090.5	1019.2	949.1	936.0	909.9	877.8	893.2	899.2	970.5
20°	846.9	889.7	921.8	871.9	800.7	762.6	729.4	708.0	708.0	706.8	727.0
22.5°	740.0	770.9	805.4	770.9	706.8	673.5	654.5	637.9	635.5	635.5	654.5
25°	681.8	704.4	737.6	713.9	666.4	641.5	623.6	602.2	593.9	591.6	604.7
27.5°	653.4	662.9	679.4	658.1	617.7	605.8	601.1	582.1	571.3	565.4	578.5
30°	604.7	602.2	603.4	582.1	549.9	548.8	557.1	560.7	557.1	555.9	576.1
32.5°	559.5	554.7	553.5	534.5	504.8	497.7	504.8	512.0	520.3	532.1	555.9
35°	502.5	514.3	521.5	504.8	469.2	447.8	439.5	426.5	419.3	419.3	446.6
37.5°	457.4	484.7	495.3	479.9	440.7	411.0	396.7	394.3	395.6	400.3	426.5
40°	441.9	462.1	471.6	456.1	417.0	389.6	381.3	378.9	381.3	388.4	414.6
42.5°	432.4	446.6	445.5	426.5	394.3	375.3	370.6	368.3	370.6	377.8	406.2
45°	424.1	433.5	424.1	401.5	371.8	362.3	363.5	362.3	364.7	371.8	399.2
47.5°	417.0	420.5	408.7	386.1	355.2	352.8	357.5	361.1	363.5	369.4	397.9
50°	406.2	406.2	395.6	371.8	340.9	342.1	348.0	356.4	357.5	364.7	387.3
52.5°	393.2	392.0	384.8	362.3	329.1	332.6	332.6	342.1	344.5	352.8	376.5
55°	382.5	380.1	376.5	355.2	318.3	324.3	320.7	324.3	330.2	338.5	364.7
57.5°	373.0	368.3	368.3	349.2	310.1	312.4	304.1	308.8	316.0	323.2	350.5
60°	363.5	358.7	361.1	340.9	297.0	294.6	291.0	300.5	302.9	311.2	338.5
62.5°	352.8	349.2	350.5	331.4	287.4	281.5	281.5	289.8	291.0	302.9	329.1
65°	344.5	339.7	338.5	321.9	276.8	269.6	273.2	276.8	279.2	291.0	316.0
67.5°	336.1	326.6	326.6	313.6	264.9	257.8	264.9	263.7	267.3	277.9	298.2
70°	325.5	312.4	313.6	307.7	253.0	244.7	250.6	249.5	251.9	258.9	279.2
72.5°	308.8	298.2	300.5	298.2	241.1	229.2	231.6	231.6	231.6	237.5	258.9
75°	287.4	279.2	286.3	292.3	226.9	210.2	212.7	212.7	209.1	212.7	238.8
77.5°	261.4	256.6	280.3	272.0	210.2	190.1	190.1	187.7	180.6	185.3	213.8
80°	232.8	229.2	258.9	228.1	191.3	165.1	162.8	156.8	149.7	153.2	181.8
82.5°	203.2	199.6	217.4	174.6	165.1	136.6	130.6	120.0	112.8	116.4	142.5
85°	166.3	166.3	167.5	131.9	125.9	104.5	97.4	83.2	74.9	77.2	102.2
87.5°	118.8	122.3	112.8	90.3	74.9	58.2	53.5	45.1	38.1	44.0	53.5
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: P191283

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6	7300.6
2.5°	6275.5	6406.1	6554.7	6744.7	6907.5	7174.7	7431.3	7585.7
5°	4692.1	4909.4	5180.3	5528.3	5852.6	6339.6	6823.1	7133.1
7.5°	3358.1	3591.0	3883.1	4317.9	4776.4	5397.7	6036.7	6407.4
10°	2778.4	3017.2	3263.1	3556.5	3931.8	4607.8	5363.2	5781.3
12.5°	2298.6	2553.9	2818.8	3127.7	3475.7	4079.1	4949.9	5430.9
15°	1759.3	2044.4	2356.7	2747.5	3183.5	3880.8	4847.7	5370.4
17.5°	1205.6	1524.0	1907.7	2390.0	2923.3	3816.6	5030.6	5632.9
20°	830.3	1061.9	1471.7	2037.2	2678.6	3808.3	5382.3	6136.5
22.5°	694.9	798.2	1097.6	1712.9	2494.6	3910.4	5927.5	6843.3
25°	642.6	704.4	876.7	1431.4	2360.3	4145.6	6678.1	7758.0
27.5°	611.7	667.6	795.9	1247.3	2254.6	4418.8	7408.7	8644.1
30°	623.6	680.7	773.4	1153.4	2110.9	4647.0	8057.3	9335.4
32.5°	561.9	586.8	662.9	1070.3	2007.5	4838.1	8625.1	9908.0
35°	478.7	522.6	591.6	1031.0	2009.9	4966.4	9244.0	10639.7
37.5°	456.1	500.1	549.9	1016.8	2037.2	5103.1	9954.3	11497.4
40°	441.9	482.3	525.1	1008.5	2063.3	5227.8	10650.5	12345.5
42.5°	432.4	469.2	522.6	980.0	2076.4	5339.5	11223.0	13066.6
45°	431.2	469.2	532.1	951.4	2096.5	5459.4	11702.9	13599.8
47.5°	432.4	484.7	514.3	917.1	2096.5	5660.2	12265.9	14076.2
50°	427.6	510.8	495.3	868.3	2047.8	6040.3	13038.0	14714.1
52.5°	425.2	507.2	458.5	793.5	1963.6	6643.8	14027.5	15593.1
55°	419.3	489.4	432.4	681.8	1864.9	7301.8	15087.1	16632.5
57.5°	413.4	433.5	418.1	584.4	1712.9	7765.1	15816.5	17443.8
60°	463.3	378.9	406.2	536.9	1509.8	7892.2	15787.9	17766.9
62.5°	428.8	355.2	390.8	526.2	1367.3	7535.8	15058.6	17592.3
65°	336.1	339.7	375.3	557.1	1329.2	6591.5	13766.2	16785.7
67.5°	307.7	324.3	359.9	596.3	1332.8	5277.7	11834.7	15028.9
70°	289.8	307.7	342.1	616.5	1342.3	3934.2	9356.8	12240.9
72.5°	269.6	285.1	321.9	620.1	1280.5	2858.0	7211.5	9000.4
75°	245.9	260.1	293.4	540.5	1060.8	1982.6	5516.5	6157.9
77.5°	218.6	229.2	257.8	417.0	787.6	1268.7	4140.9	4498.4
80°	186.5	192.4	216.1	305.2	539.3	793.5	3276.1	3609.9
82.5°	149.7	152.0	167.5	229.2	350.5	509.6	2194.0	2504.0
85°	105.7	105.7	115.2	166.3	238.8	323.2	1191.4	1320.9
87.5°	49.9	51.0	51.0	91.5	124.7	163.9	274.4	168.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)