

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: P191323

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191323
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-SLR-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 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 (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

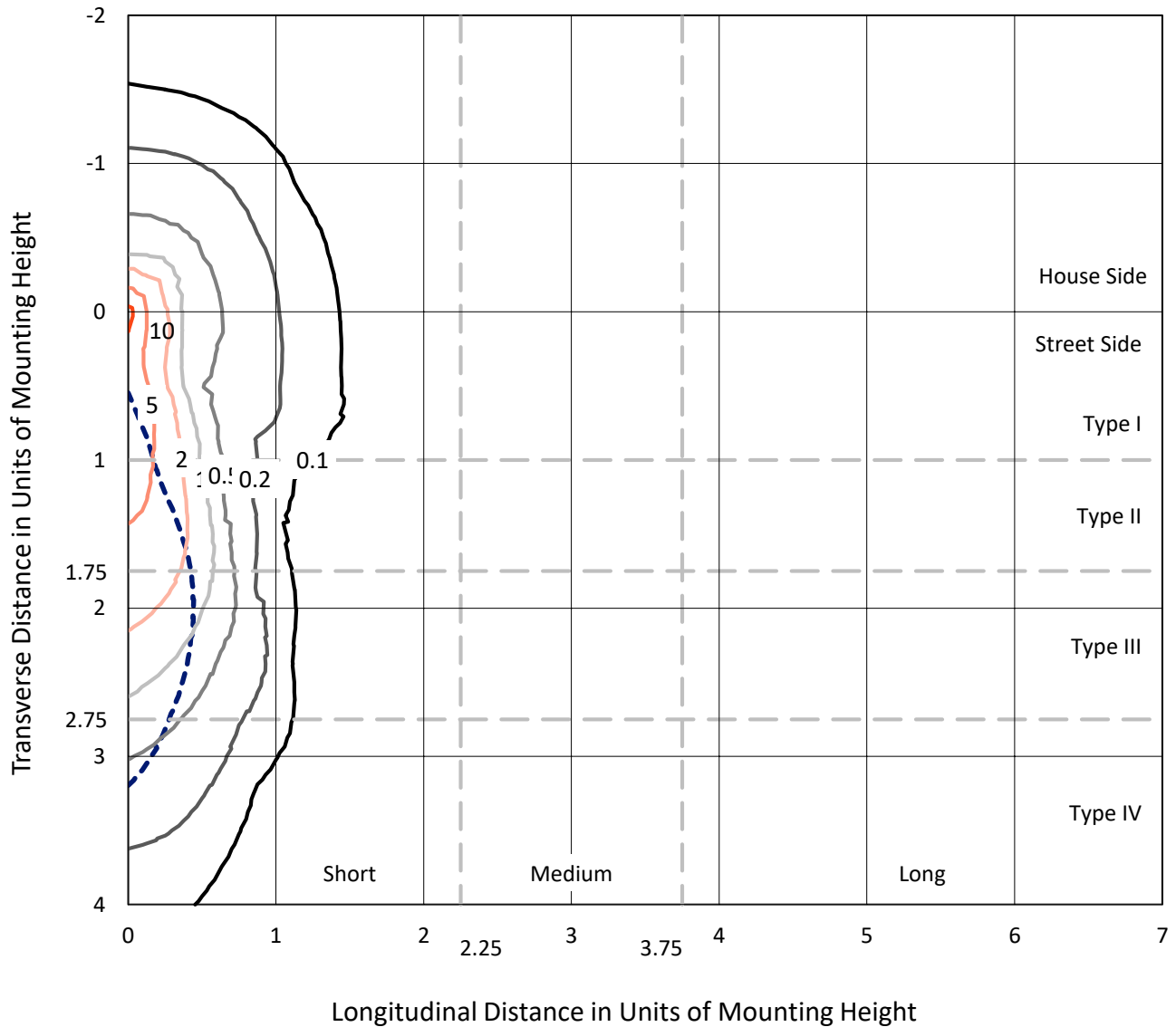


REPORT NUMBER: P191323

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

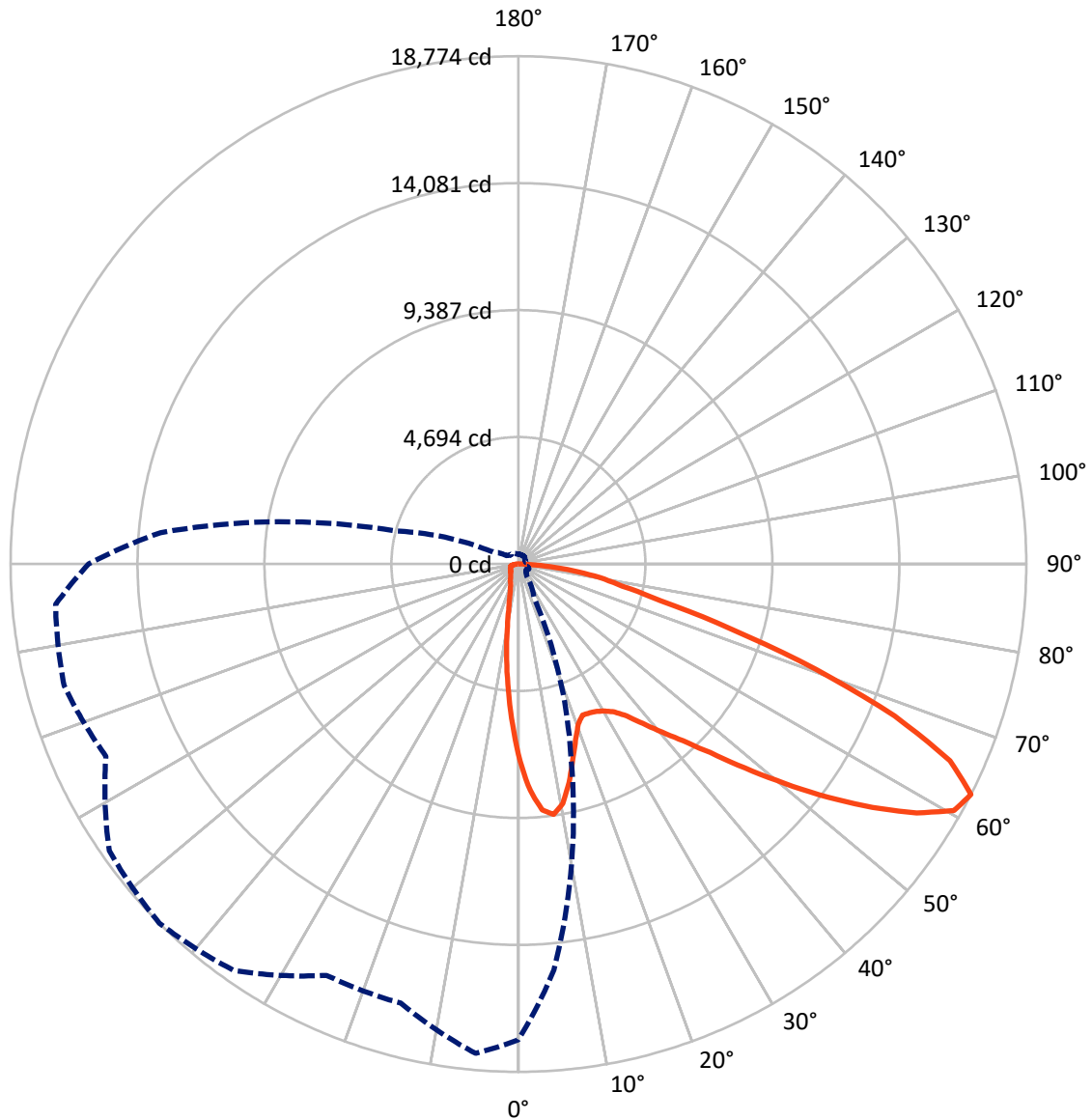


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191323

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

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191323

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-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

Coefficient of Utilization

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



REPORT NUMBER: P191323

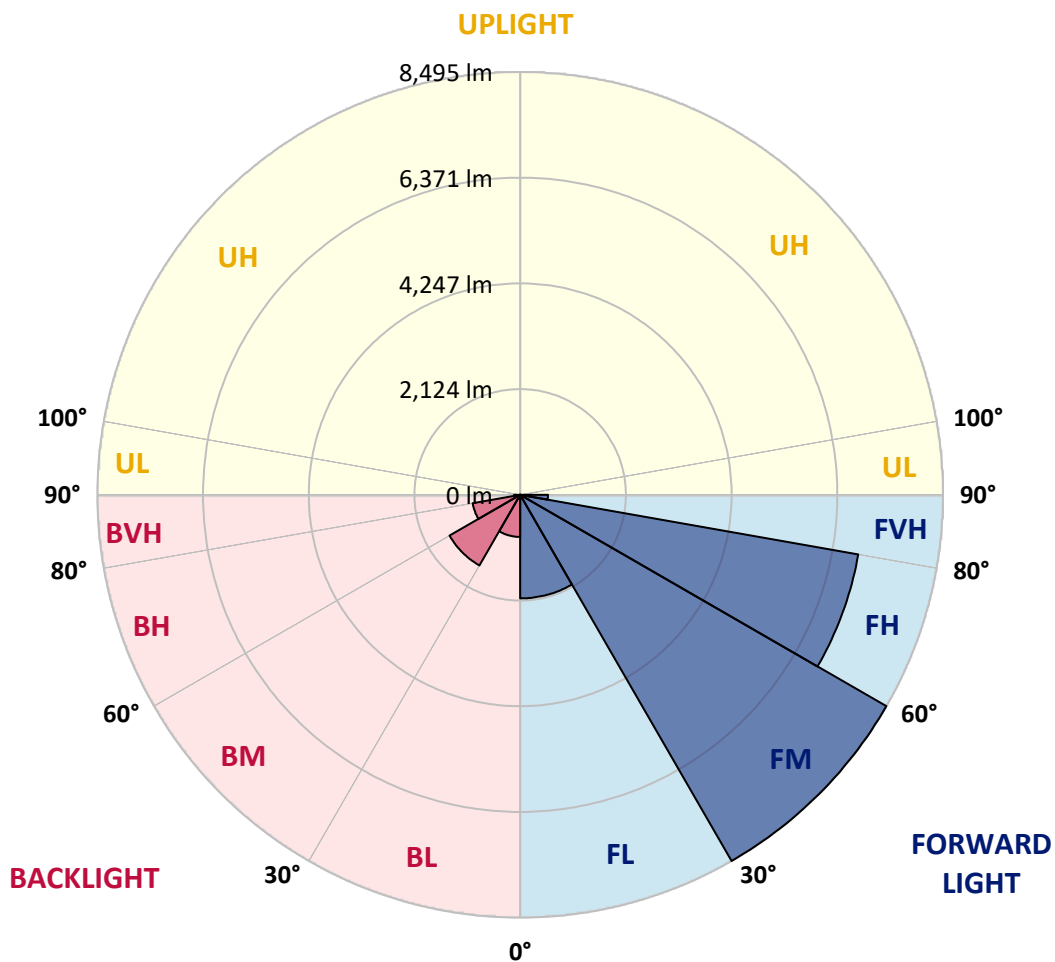
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-800

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: P191323

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-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	7431.3	7174.7	6907.5	6744.7	6554.7	6406.1	6275.5	6014.1	5963.1	6009.4
5°	7133.1	6823.1	6339.6	5852.6	5528.3	5180.3	4909.4	4692.1	4360.6	4302.4	4372.5
7.5°	6407.4	6036.7	5397.7	4776.4	4317.9	3883.1	3591.0	3358.1	3099.1	2987.5	2994.6
10°	5781.3	5363.2	4607.8	3931.8	3556.5	3263.1	3017.2	2778.4	2515.9	2343.7	2296.1
12.5°	5430.9	4949.9	4079.1	3475.7	3127.7	2818.8	2553.9	2298.6	2018.2	1842.3	1792.5
15°	5370.4	4847.7	3880.8	3183.5	2747.5	2356.7	2044.4	1759.3	1470.6	1328.0	1298.3
17.5°	5632.9	5030.6	3816.6	2923.3	2390.0	1907.7	1524.0	1205.6	970.5	899.2	893.2
20°	6136.5	5382.3	3808.3	2678.6	2037.2	1471.7	1061.9	830.3	727.0	706.8	708.0
22.5°	6843.3	5927.5	3910.4	2494.6	1712.9	1097.6	798.2	694.9	654.5	635.5	635.5
25°	7758.0	6678.1	4145.6	2360.3	1431.4	876.7	704.4	642.6	604.7	591.6	593.9
27.5°	8644.1	7408.7	4418.8	2254.6	1247.3	795.9	667.6	611.7	578.5	565.4	571.3
30°	9335.4	8057.3	4647.0	2110.9	1153.4	773.4	680.7	623.6	576.1	555.9	557.1
32.5°	9908.0	8625.1	4838.1	2007.5	1070.3	662.9	586.8	561.9	555.9	532.1	520.3
35°	10639.7	9244.0	4966.4	2009.9	1031.0	591.6	522.6	478.7	446.6	419.3	419.3
37.5°	11497.4	9954.3	5103.1	2037.2	1016.8	549.9	500.1	456.1	426.5	400.3	395.6
40°	12345.5	10650.5	5227.8	2063.3	1008.5	525.1	482.3	441.9	414.6	388.4	381.3
42.5°	13066.6	11223.0	5339.5	2076.4	980.0	522.6	469.2	432.4	406.2	377.8	370.6
45°	13599.8	11702.9	5459.4	2096.5	951.4	532.1	469.2	431.2	399.2	371.8	364.7
47.5°	14076.2	12265.9	5660.2	2096.5	917.1	514.3	484.7	432.4	397.9	369.4	363.5
50°	14714.1	13038.0	6040.3	2047.8	868.3	495.3	510.8	427.6	387.3	364.7	357.5
52.5°	15593.1	14027.5	6643.8	1963.6	793.5	458.5	507.2	425.2	376.5	352.8	344.5
55°	16632.5	15087.1	7301.8	1864.9	681.8	432.4	489.4	419.3	364.7	338.5	330.2
57.5°	17443.8	15816.5	7765.1	1712.9	584.4	418.1	433.5	413.4	350.5	323.2	316.0
60°	17766.9	15787.9	7892.2	1509.8	536.9	406.2	378.9	463.3	338.5	311.2	302.9
62.5°	17592.3	15058.6	7535.8	1367.3	526.2	390.8	355.2	428.8	329.1	302.9	291.0
65°	16785.7	13766.2	6591.5	1329.2	557.1	375.3	339.7	336.1	316.0	291.0	279.2
67.5°	15028.9	11834.7	5277.7	1332.8	596.3	359.9	324.3	307.7	298.2	277.9	267.3
70°	12240.9	9356.8	3934.2	1342.3	616.5	342.1	307.7	289.8	279.2	258.9	251.9
72.5°	9000.4	7211.5	2858.0	1280.5	620.1	321.9	285.1	269.6	258.9	237.5	231.6
75°	6157.9	5516.5	1982.6	1060.8	540.5	293.4	260.1	245.9	238.8	212.7	209.1
77.5°	4498.4	4140.9	1268.7	787.6	417.0	257.8	229.2	218.6	213.8	185.3	180.6
80°	3609.9	3276.1	793.5	539.3	305.2	216.1	192.4	186.5	181.8	153.2	149.7
82.5°	2504.0	2194.0	509.6	350.5	229.2	167.5	152.0	149.7	142.5	116.4	112.8
85°	1320.9	1191.4	323.2	238.8	166.3	115.2	105.7	105.7	102.2	77.2	74.9
87.5°	168.7	274.4	163.9	124.7	91.5	51.0	51.0	49.9	53.5	44.0	38.1
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: P191323

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-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°	5900.2	5957.2	5902.5	5906.1	5966.7	6147.2	6229.2	6296.9	6369.3	6416.9	6438.2
5°	4276.3	4409.3	4454.5	4549.6	4689.7	4920.2	5011.6	5078.1	5122.1	5148.2	5158.9
7.5°	2924.5	3005.3	3095.6	3248.8	3554.1	3689.5	3750.1	3734.7	3684.8	3667.0	3649.2
10°	2204.7	2172.6	2156.0	2240.4	2487.4	2624.0	2666.7	2625.2	2597.9	2603.8	2633.5
12.5°	1708.1	1652.3	1584.7	1575.1	1737.9	1860.2	1887.5	1889.9	1939.8	1983.7	2049.1
15°	1244.9	1238.9	1205.6	1185.5	1278.2	1377.9	1389.8	1411.2	1456.3	1488.4	1545.4
17.5°	877.8	909.9	936.0	949.1	1019.2	1090.5	1077.4	1066.7	1058.3	1058.3	1085.8
20°	708.0	729.4	762.6	800.7	871.9	921.8	889.7	846.9	816.1	806.6	810.1
22.5°	637.9	654.5	673.5	706.8	770.9	805.4	770.9	740.0	709.1	698.5	694.9
25°	602.2	623.6	641.5	666.4	713.9	737.6	704.4	681.8	662.9	649.8	640.3
27.5°	582.1	601.1	605.8	617.7	658.1	679.4	662.9	653.4	641.5	629.5	617.7
30°	560.7	557.1	548.8	549.9	582.1	603.4	602.2	604.7	603.4	599.9	597.5
32.5°	512.0	504.8	497.7	504.8	534.5	553.5	554.7	559.5	559.5	558.3	567.8
35°	426.5	439.5	447.8	469.2	504.8	521.5	514.3	502.5	481.1	468.0	466.9
37.5°	394.3	396.7	411.0	440.7	479.9	495.3	484.7	457.4	443.0	440.7	444.3
40°	378.9	381.3	389.6	417.0	456.1	471.6	462.1	441.9	428.8	427.6	433.5
42.5°	368.3	370.6	375.3	394.3	426.5	445.5	446.6	432.4	417.0	418.1	424.1
45°	362.3	363.5	362.3	371.8	401.5	424.1	433.5	424.1	411.0	413.4	420.5
47.5°	361.1	357.5	352.8	355.2	386.1	408.7	420.5	417.0	411.0	413.4	419.3
50°	356.4	348.0	342.1	340.9	371.8	395.6	406.2	406.2	408.7	413.4	419.3
52.5°	342.1	332.6	332.6	329.1	362.3	384.8	392.0	393.2	396.7	405.1	413.4
55°	324.3	320.7	324.3	318.3	355.2	376.5	380.1	382.5	384.8	392.0	403.9
57.5°	308.8	304.1	312.4	310.1	349.2	368.3	368.3	373.0	373.0	382.5	392.0
60°	300.5	291.0	294.6	297.0	340.9	361.1	358.7	363.5	365.9	374.2	381.3
62.5°	289.8	281.5	281.5	287.4	331.4	350.5	349.2	352.8	362.3	364.7	371.8
65°	276.8	273.2	269.6	276.8	321.9	338.5	339.7	344.5	352.8	355.2	361.1
67.5°	263.7	264.9	257.8	264.9	313.6	326.6	326.6	336.1	339.7	344.5	350.5
70°	249.5	250.6	244.7	253.0	307.7	313.6	312.4	325.5	327.9	331.4	337.4
72.5°	231.6	231.6	229.2	241.1	298.2	300.5	298.2	308.8	310.1	313.6	316.0
75°	212.7	212.7	210.2	226.9	292.3	286.3	279.2	287.4	289.8	292.3	292.3
77.5°	187.7	190.1	190.1	210.2	272.0	280.3	256.6	261.4	264.9	266.1	262.5
80°	156.8	162.8	165.1	191.3	228.1	258.9	229.2	232.8	234.1	234.1	229.2
82.5°	120.0	130.6	136.6	165.1	174.6	217.4	199.6	203.2	199.6	192.4	190.1
85°	83.2	97.4	104.5	125.9	131.9	167.5	166.3	166.3	159.2	149.7	148.5
87.5°	45.1	53.5	58.2	74.9	90.3	112.8	122.3	118.8	112.8	106.9	108.1
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: P191323

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-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°	6549.9	6711.5	6969.2	7166.4	7364.7	7556.0	7762.7	7920.7	8054.9	8107.2	8266.4
5°	5267.0	5468.9	5712.5	6151.9	6463.2	6806.5	7203.2	7728.3	7930.2	8209.4	8666.6
7.5°	3724.0	3906.9	4298.8	4654.0	5094.7	5580.6	6116.3	6840.9	7105.8	7553.7	8298.4
10°	2780.8	2993.5	3308.2	3607.5	3996.0	4492.5	5107.8	5918.0	6239.9	6725.7	7583.3
12.5°	2240.4	2491.0	2824.8	3106.3	3406.8	3757.2	4354.7	5243.2	5674.4	6099.7	6966.8
15°	1721.2	1983.7	2293.8	2651.3	2982.7	3360.5	3986.4	4958.1	5454.7	5897.7	6637.8
17.5°	1191.4	1416.0	1806.7	2179.7	2603.8	3087.3	3884.3	5018.7	5611.5	6122.3	6694.8
20°	844.5	972.8	1293.6	1725.9	2254.6	2861.6	3865.3	5337.0	6108.0	6691.2	7060.7
22.5°	710.3	757.9	944.4	1341.1	1951.7	2692.9	3931.8	5783.8	6778.0	7522.8	7643.9
25°	647.4	675.9	773.4	1052.4	1682.0	2570.6	4156.4	6448.9	7607.1	8354.2	8332.9
27.5°	613.0	642.6	706.8	888.5	1478.9	2494.6	4380.9	7237.7	8555.0	9257.0	8990.9
30°	602.2	642.6	710.3	837.5	1333.9	2374.6	4564.9	7930.2	9284.4	9866.4	9290.3
32.5°	593.9	599.9	630.8	722.2	1196.1	2234.3	4689.7	8551.5	9998.2	10446.1	9721.5
35°	479.9	509.6	559.5	647.4	1115.4	2150.0	4689.7	9087.2	10701.5	11031.7	10132.5
37.5°	462.1	488.3	532.1	607.0	1070.3	2108.5	4595.8	9603.9	11420.1	11695.7	10471.0
40°	452.6	473.9	515.6	576.1	1051.3	2060.9	4459.2	10060.0	12122.2	12360.9	10787.0
42.5°	445.5	464.4	503.7	557.1	1026.3	2008.7	4348.8	10425.9	12731.5	12928.8	11088.7
45°	441.9	462.1	504.8	566.6	976.4	1939.8	4311.9	10821.5	13232.8	13402.7	11415.4
47.5°	441.9	465.6	510.8	586.8	917.1	1868.5	4427.1	11342.9	13706.8	13789.9	11800.2
50°	438.3	464.4	527.4	566.6	830.3	1778.2	4698.0	11999.8	14219.9	14229.5	12287.3
52.5°	431.2	462.1	567.8	554.7	730.5	1659.4	5063.9	12843.2	14979.0	15036.0	13049.9
55°	422.9	458.5	557.1	527.4	648.6	1518.1	5363.2	13868.3	16045.7	16203.6	14171.2
57.5°	412.1	453.8	539.3	489.4	595.2	1336.4	5471.4	14619.1	16790.5	17187.2	15435.1
60°	402.7	450.2	487.0	466.9	561.9	1183.1	5262.3	14470.6	16739.4	17594.7	16555.2
62.5°	393.2	453.8	444.3	452.6	546.5	1084.5	4715.8	13281.5	15892.5	17174.1	17385.6
65°	382.5	421.7	419.3	440.7	542.9	1045.4	3909.3	11498.6	14255.5	15844.9	17581.6
67.5°	368.3	389.6	401.5	425.2	554.7	1010.9	3155.0	9485.1	11980.8	13852.9	16560.0
70°	352.8	370.6	383.7	406.2	547.6	995.4	2624.0	7480.0	9506.5	11353.6	14544.2
72.5°	332.6	348.0	359.9	381.3	540.5	987.1	2216.5	6023.6	7097.5	8433.8	11825.2
75°	308.8	323.2	331.4	352.8	517.9	904.0	1742.6	5097.2	5311.0	5866.8	9418.6
77.5°	281.5	292.3	299.3	323.2	458.5	751.9	1260.3	3931.8	4124.2	4259.7	7221.0
80°	249.5	260.1	263.7	286.3	380.1	588.0	822.0	2904.4	3084.9	3115.8	4715.8
82.5°	212.7	223.3	223.3	244.7	311.2	422.9	539.3	1989.6	2025.3	2129.9	3333.2
85°	171.0	179.3	179.3	190.1	241.1	316.0	370.6	999.0	988.3	1128.5	2887.7
87.5°	122.3	128.3	134.2	136.6	172.3	209.1	223.3	304.1	200.7	230.5	1854.3
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: P191323

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-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°	8386.4	8454.1	8385.1	8335.2	8120.3	7943.2	7706.9	7585.7
5°	9014.8	9186.9	9128.7	8919.7	8470.6	7965.8	7392.0	7133.1
7.5°	8938.6	9339.0	9348.5	8957.7	8296.0	7552.4	6775.6	6407.4
10°	8347.2	8859.1	9005.2	8626.2	7924.3	7092.7	6201.8	5781.3
12.5°	7686.7	8188.0	8299.6	8169.0	7582.1	6747.1	5843.1	5430.9
15°	7146.2	7370.7	7503.8	7617.8	7288.7	6609.3	5822.9	5370.4
17.5°	6817.1	6792.2	6830.2	7028.6	7084.4	6767.2	6131.8	5632.9
20°	6698.4	6317.0	6307.5	6580.7	6988.2	7143.8	6735.2	6136.5
22.5°	6763.8	6146.0	6067.6	6391.9	7039.3	7686.7	7526.4	6843.3
25°	6989.4	6160.3	6097.3	6410.9	7224.6	8265.1	8380.4	7758.0
27.5°	7344.6	6250.5	6167.4	6489.3	7470.5	8751.0	9221.4	8644.1
30°	7682.0	6407.4	6304.0	6643.8	7694.9	8943.5	9737.0	9335.4
32.5°	8091.7	6700.7	6519.0	6927.6	7973.0	9249.9	10196.7	9908.0
35°	8493.3	7118.9	6893.2	7366.0	8282.9	9631.2	10721.6	10639.7
37.5°	8933.9	7665.3	7478.8	7932.6	8707.1	9991.2	11391.6	11497.4
40°	9404.3	8389.9	8169.0	8759.3	9365.1	10442.5	12091.3	12345.5
42.5°	9878.3	9194.1	8930.4	9529.1	10088.5	10888.0	12690.0	13066.6
45°	10421.1	10067.2	9942.5	10589.8	10783.4	11312.0	13131.8	13599.8
47.5°	11053.1	11057.8	11258.6	11517.5	11484.3	11792.0	13576.1	14076.2
50°	11790.7	12294.4	12737.5	12909.7	12206.5	12307.4	14192.6	14714.1
52.5°	12676.9	13773.3	14322.1	14209.2	12984.5	12937.1	15169.0	15593.1
55°	13785.2	15338.9	15884.2	15803.4	13879.0	13794.7	16385.4	16632.5
57.5°	15068.1	16855.8	17357.1	16993.6	14952.9	14735.5	17391.5	17443.8
60°	16195.4	18057.9	18497.4	18094.8	16036.2	15736.9	18019.9	17766.9
62.5°	16822.5	18465.4	18774.2	18340.7	16778.6	16803.5	18157.7	17592.3
65°	16542.2	17435.5	17535.3	17499.6	16587.4	17422.4	17662.4	16785.7
67.5°	15007.5	14831.7	14999.2	15230.8	14948.1	16607.5	16290.4	15028.9
70°	12304.0	11338.2	11672.0	11827.6	11955.8	14291.2	14139.1	12240.9
72.5°	9272.4	7943.2	8206.9	8174.9	8768.8	11462.9	10996.1	9000.4
75°	6570.1	5385.7	5419.1	5406.0	6118.7	8968.4	7962.2	6157.9
77.5°	4597.0	3902.1	3919.9	3993.6	4113.6	6763.8	5688.7	4498.4
80°	3160.9	2961.3	3060.0	3065.9	2850.9	4543.5	4202.7	3609.9
82.5°	2354.3	2058.6	2034.9	2069.2	2234.3	3681.2	3229.8	2504.0
85°	1928.0	1218.7	980.0	1228.3	1980.1	3645.6	2145.3	1320.9
87.5°	1085.8	578.5	261.4	484.7	789.9	2413.8	620.1	168.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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