

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: P192128

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192128
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-10-LED-E1-SLR-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 41832 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

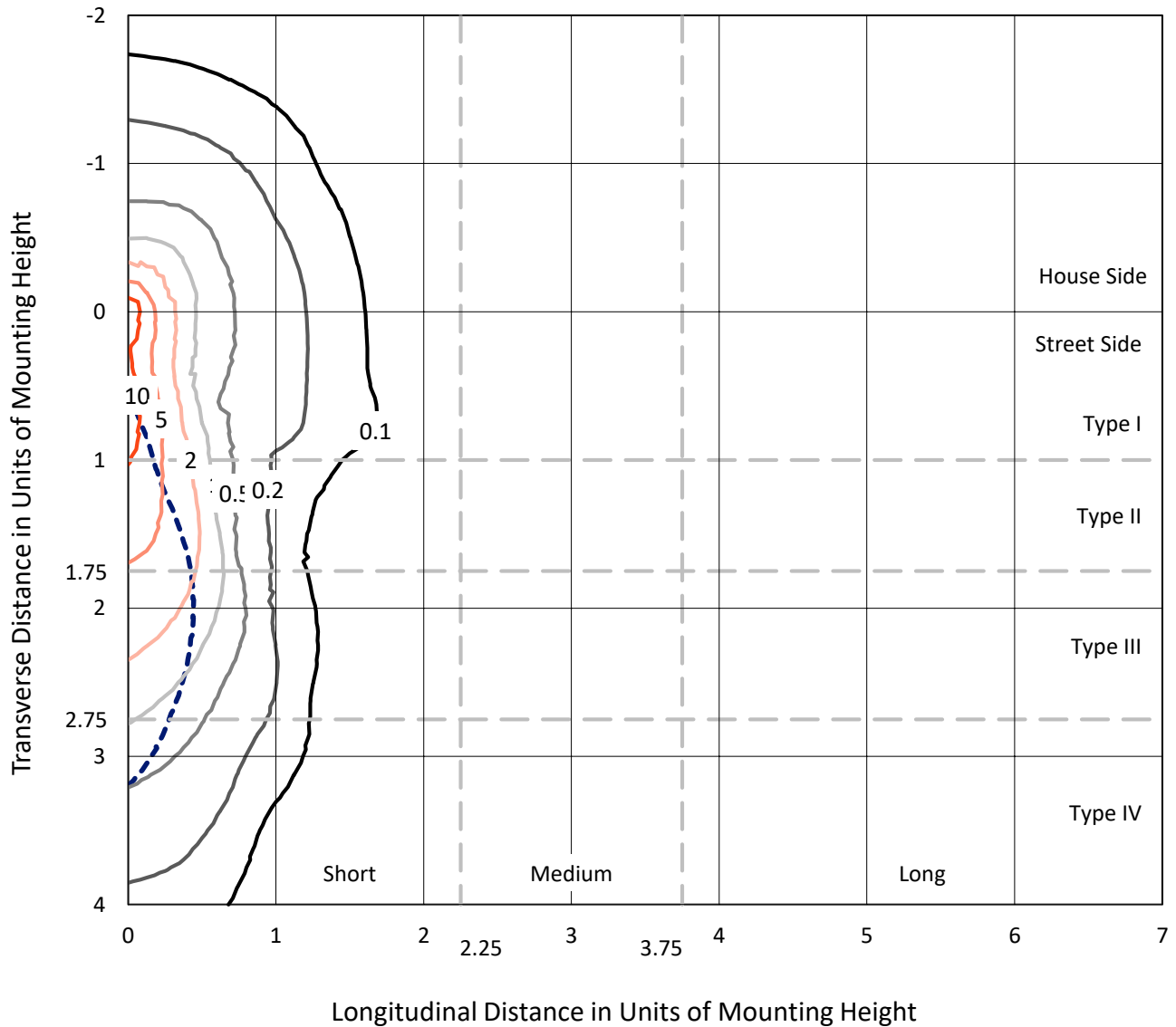


REPORT NUMBER: P192128

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7050-800

Iso-Footcandle Lines of Horizontal Illumination

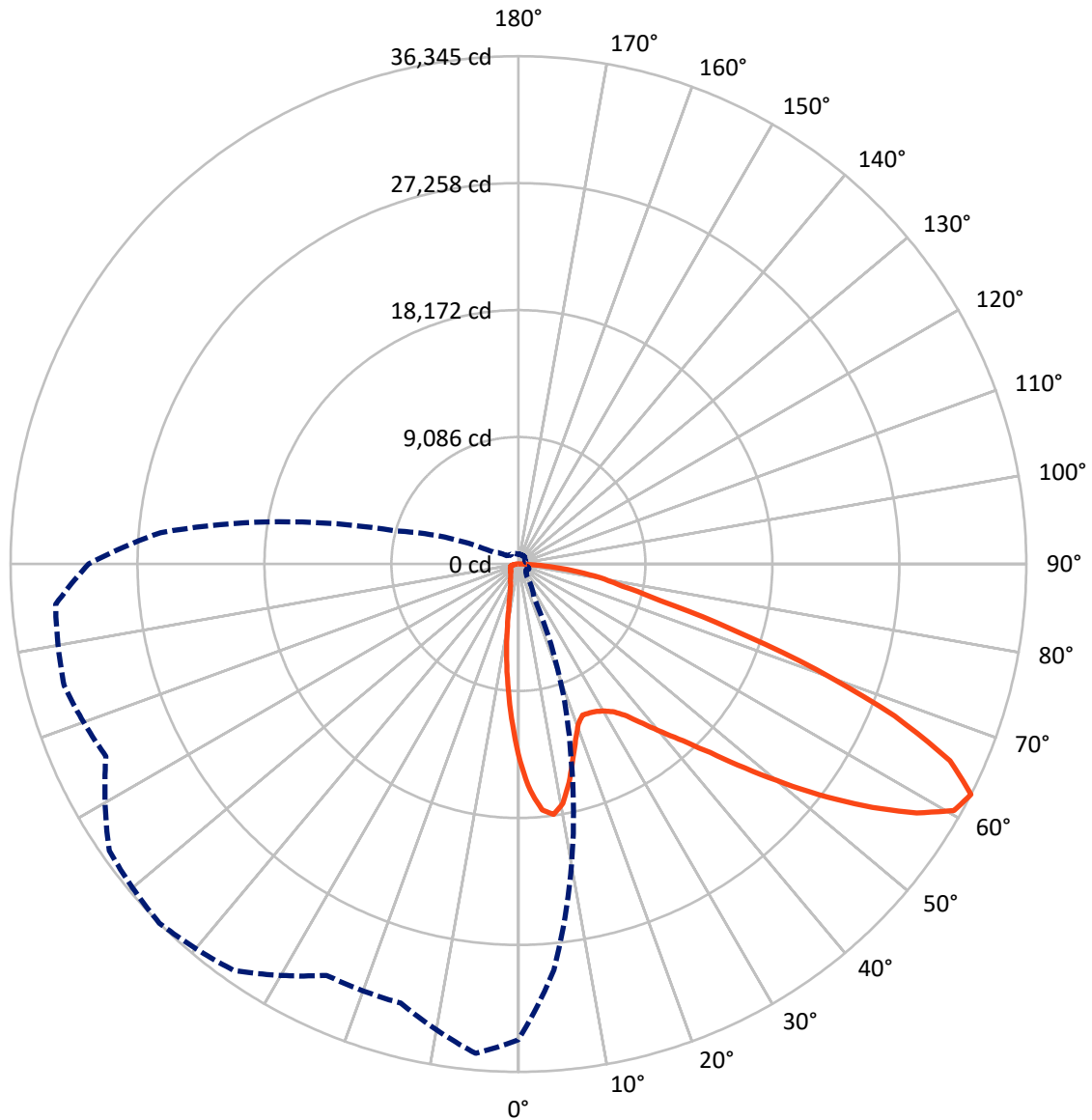
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P192128
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7050-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P192128

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7050-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6922.6	0.0	6922.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	34909.4	0.0	34909.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	41832.0	0.0	41832.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1028.8	2.5
10°-20°	1886.6	4.5
20°-30°	2750.6	6.6
30°-40°	4236.4	10.1
40°-50°	6234.8	14.9
50°-60°	9145.2	21.9
60°-70°	10223.0	24.4
70°-80°	5005.0	12.0
80°-90°	1321.5	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°	41832.0	100.0
0°-180°	41832.0	100.0



REPORT NUMBER: P192128

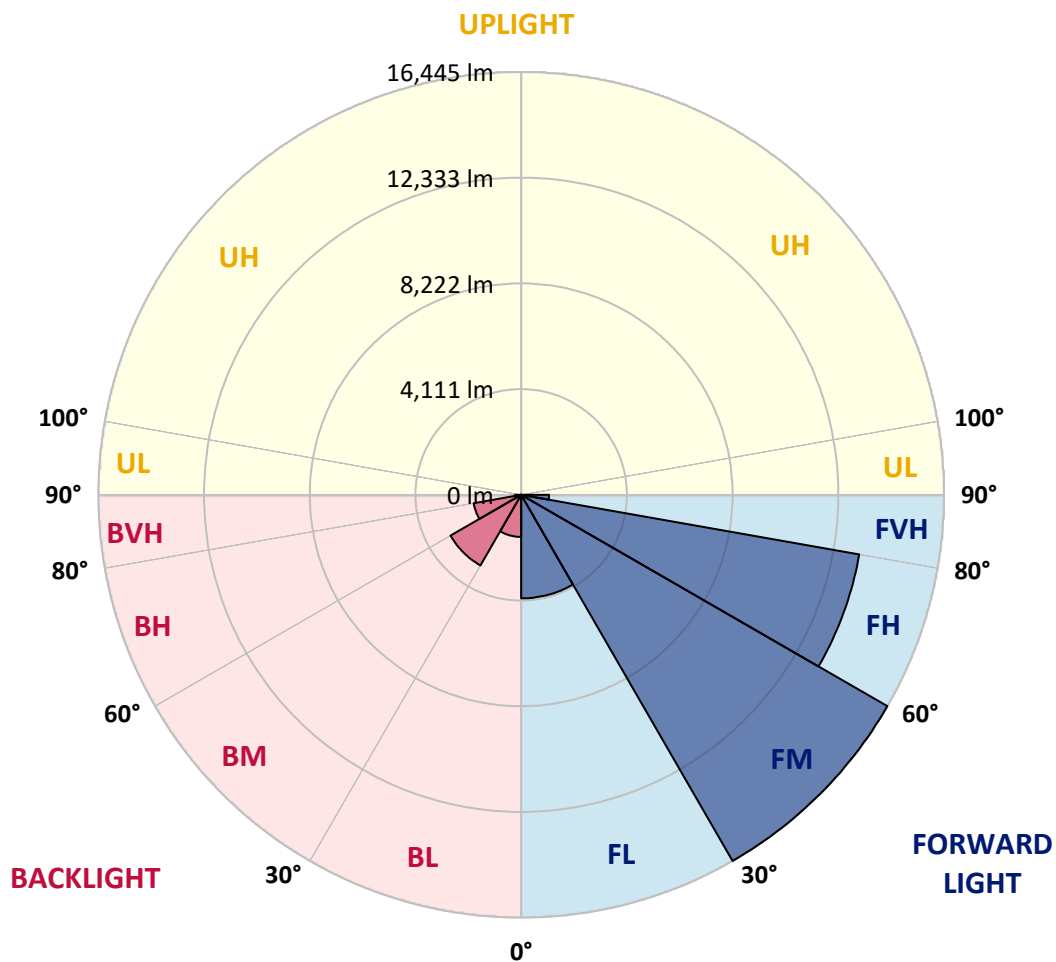
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4028.3	9.6			
FM	(30°-60°)	16444.5	39.3			
FH	(60°-80°)	13351.3	31.9			G5
FVH	(80°-90°)	1085.2	2.6			G5
BL	(0°-30°)	1637.8	3.9	B3/2500		
BM	(30°-60°)	3171.9	7.6	B3/5000		
BH	(60°-80°)	1876.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	236.2	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P192128

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1
2.5°	14685.0	14386.1	13889.3	13371.9	13056.9	12689.0	12401.5	12148.6	11642.7	11543.8	11633.5
5°	13808.9	13208.7	12272.8	11329.9	10702.2	10028.4	9504.1	9083.3	8441.7	8329.0	8464.7
7.5°	12403.8	11686.4	10449.2	9246.5	8358.9	7517.3	6951.6	6500.9	5999.6	5783.4	5797.2
10°	11192.0	10382.5	8920.0	7611.5	6884.9	6316.9	5840.9	5378.7	4870.5	4537.0	4445.1
12.5°	10513.6	9582.3	7896.7	6728.5	6054.7	5456.9	4944.1	4449.7	3907.0	3566.6	3470.0
15°	10396.3	9384.5	7512.7	6162.8	5318.9	4562.3	3957.5	3405.7	2846.9	2570.9	2513.4
17.5°	10904.5	9738.6	7388.5	5659.2	4626.7	3693.1	2950.3	2334.1	1878.7	1740.8	1729.3
20°	11879.5	10419.3	7372.4	5185.5	3943.7	2849.2	2055.8	1607.4	1407.3	1368.2	1370.5
22.5°	13247.8	11474.8	7570.2	4829.1	3316.0	2124.8	1545.3	1345.2	1267.1	1230.3	1230.3
25°	15018.4	12928.1	8025.5	4569.2	2771.0	1697.1	1363.6	1244.1	1170.5	1145.2	1149.8
27.5°	16733.9	14342.4	8554.4	4364.6	2414.5	1540.7	1292.4	1184.3	1119.9	1094.6	1106.1
30°	18072.3	15597.9	8995.9	4086.3	2232.9	1497.0	1317.6	1207.3	1115.3	1076.2	1078.5
32.5°	19180.6	16697.1	9366.1	3886.3	2071.9	1283.2	1136.0	1087.7	1076.2	1030.2	1007.2
35°	20597.2	17895.2	9614.5	3890.9	1996.0	1145.2	1011.8	926.7	864.6	811.7	811.7
37.5°	22257.5	19270.3	9878.9	3943.7	1968.4	1064.7	968.1	883.0	825.5	775.0	765.8
40°	23899.3	20617.9	10120.4	3994.3	1952.3	1016.4	933.6	855.4	802.5	752.0	738.2
42.5°	25295.2	21726.3	10336.5	4019.6	1897.1	1011.8	908.3	837.0	786.4	731.3	717.5
45°	26327.7	22655.3	10568.8	4058.7	1841.9	1030.2	908.3	834.7	772.7	719.8	706.0
47.5°	27249.8	23745.3	10957.4	4058.7	1775.3	995.7	938.2	837.0	770.4	715.2	703.7
50°	28484.7	25240.0	11693.3	3964.4	1681.0	958.9	988.8	827.8	749.7	706.0	692.2
52.5°	30186.3	27155.5	12861.4	3801.2	1536.1	887.6	981.9	823.2	729.0	683.0	666.9
55°	32198.5	29206.7	14135.4	3610.3	1319.9	837.0	947.4	811.7	706.0	655.4	639.3
57.5°	33769.1	30618.7	15032.2	3316.0	1131.4	809.4	839.3	800.2	678.4	625.5	611.7
60°	34394.5	30563.5	15278.3	2922.7	1039.4	786.4	733.6	896.8	655.4	602.5	586.4
62.5°	34056.5	29151.5	14588.4	2646.8	1018.7	756.6	687.6	830.1	637.0	586.4	563.4
65°	32495.1	26649.6	12760.3	2573.2	1078.5	726.7	657.7	650.8	611.7	563.4	540.4
67.5°	29094.0	22910.5	10217.0	2580.1	1154.4	696.8	627.8	595.6	577.2	538.1	517.4
70°	23697.0	18113.6	7616.1	2598.5	1193.5	662.3	595.6	561.1	540.4	501.3	487.5
72.5°	17423.8	13960.6	5532.7	2478.9	1200.4	623.2	551.9	522.0	501.3	459.9	448.4
75°	11920.9	10679.2	3838.0	2053.5	1046.3	568.0	503.6	476.0	462.2	411.6	404.7
77.5°	8708.4	8016.3	2455.9	1524.6	807.1	499.0	443.8	423.1	413.9	358.7	349.5
80°	6988.4	6342.2	1536.1	1044.0	591.0	418.5	372.5	361.0	351.8	296.6	289.7
82.5°	4847.5	4247.3	986.5	678.4	443.8	324.2	294.3	289.7	275.9	225.4	218.5
85°	2557.1	2306.5	625.5	462.2	321.9	223.1	204.7	204.7	197.8	149.5	144.9
87.5°	326.5	531.2	317.3	241.5	177.1	98.9	98.9	96.6	103.5	85.1	73.6
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: P192128

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7050-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1
2.5°	11421.9	11532.3	11426.5	11433.4	11550.7	11900.2	12058.9	12190.0	12330.2	12422.2	12463.6
5°	8278.4	8536.0	8623.4	8807.3	9078.7	9524.8	9701.8	9830.6	9915.7	9966.3	9987.0
7.5°	5661.5	5817.9	5992.7	6289.3	6880.3	7142.4	7259.7	7229.8	7133.2	7098.7	7064.3
10°	4268.0	4205.9	4173.7	4337.0	4815.3	5079.7	5162.5	5082.0	5029.1	5040.6	5098.1
12.5°	3306.8	3198.7	3067.6	3049.2	3364.3	3601.1	3654.0	3658.6	3755.2	3840.3	3966.7
15°	2409.9	2398.4	2334.1	2295.0	2474.3	2667.5	2690.5	2731.9	2819.3	2881.4	2991.7
17.5°	1699.4	1761.5	1812.1	1837.3	1973.0	2111.0	2085.7	2065.0	2048.9	2048.9	2101.8
20°	1370.5	1411.9	1476.3	1549.9	1687.9	1784.5	1722.4	1639.6	1579.8	1561.4	1568.3
22.5°	1234.9	1267.1	1303.9	1368.2	1492.4	1559.1	1492.4	1432.6	1372.8	1352.1	1345.2
25°	1165.9	1207.3	1241.8	1290.1	1382.0	1428.0	1363.6	1319.9	1283.2	1257.9	1239.5
27.5°	1126.8	1163.6	1172.8	1195.8	1274.0	1315.3	1283.2	1264.8	1241.8	1218.8	1195.8
30°	1085.4	1078.5	1062.4	1064.7	1126.8	1168.2	1165.9	1170.5	1168.2	1161.3	1156.7
32.5°	991.1	977.3	963.5	977.3	1034.8	1071.6	1073.9	1083.1	1083.1	1080.8	1099.2
35°	825.5	850.8	866.9	908.3	977.3	1009.5	995.7	972.7	931.3	906.0	903.7
37.5°	763.5	768.1	795.6	853.1	929.0	958.9	938.2	885.3	857.7	853.1	860.0
40°	733.6	738.2	754.3	807.1	883.0	912.9	894.5	855.4	830.1	827.8	839.3
42.5°	712.9	717.5	726.7	763.5	825.5	862.3	864.6	837.0	807.1	809.4	820.9
45°	701.4	703.7	701.4	719.8	777.3	820.9	839.3	820.9	795.6	800.2	814.0
47.5°	699.1	692.2	683.0	687.6	747.4	791.0	814.0	807.1	795.6	800.2	811.7
50°	689.9	673.8	662.3	660.0	719.8	765.8	786.4	786.4	791.0	800.2	811.7
52.5°	662.3	643.9	643.9	637.0	701.4	745.1	758.9	761.2	768.1	784.2	800.2
55°	627.8	620.9	627.8	616.3	687.6	729.0	735.9	740.5	745.1	758.9	781.9
57.5°	597.9	588.7	604.8	600.2	676.1	712.9	712.9	722.1	722.1	740.5	758.9
60°	581.8	563.4	570.3	574.9	660.0	699.1	694.5	703.7	708.3	724.4	738.2
62.5°	561.1	545.0	545.0	556.5	641.6	678.4	676.1	683.0	701.4	706.0	719.8
65°	535.8	528.9	522.0	535.8	623.2	655.4	657.7	666.9	683.0	687.6	699.1
67.5°	510.5	512.8	499.0	512.8	607.1	632.4	632.4	650.8	657.7	666.9	678.4
70°	482.9	485.2	473.7	489.8	595.6	607.1	604.8	630.1	634.7	641.6	653.1
72.5°	448.4	448.4	443.8	466.8	577.2	581.8	577.2	597.9	600.2	607.1	611.7
75°	411.6	411.6	407.0	439.2	565.7	554.2	540.4	556.5	561.1	565.7	565.7
77.5°	363.3	367.9	367.9	407.0	526.6	542.7	496.7	505.9	512.8	515.1	508.2
80°	303.5	315.0	319.6	370.2	441.5	501.3	443.8	450.7	453.0	453.0	443.8
82.5°	232.3	253.0	264.4	319.6	338.0	420.8	386.3	393.2	386.3	372.5	367.9
85°	161.0	188.6	202.4	243.8	255.3	324.2	321.9	321.9	308.1	289.7	287.4
87.5°	87.4	103.5	112.7	144.9	174.8	218.5	236.9	230.0	218.5	207.0	209.3
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: P192128

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7050-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1
2.5°	12679.8	12992.5	13491.5	13873.3	14257.3	14627.5	15027.6	15333.5	15593.3	15694.5	16002.6
5°	10196.3	10587.2	11058.6	11909.4	12511.9	13176.5	13944.5	14960.9	15351.9	15892.3	16777.6
7.5°	7209.1	7563.3	8322.1	9009.7	9862.8	10803.3	11840.4	13243.2	13756.0	14622.9	16064.7
10°	5383.3	5794.9	6404.3	6983.8	7735.7	8696.9	9888.1	11456.4	12079.6	13020.1	14680.4
12.5°	4337.0	4822.2	5468.4	6013.4	6595.1	7273.5	8430.2	10150.3	10985.0	11808.2	13486.9
15°	3332.1	3840.3	4440.5	5132.6	5774.2	6505.5	7717.3	9598.4	10559.6	11417.3	12849.9
17.5°	2306.5	2741.1	3497.6	4219.7	5040.6	5976.6	7519.6	9715.6	10863.1	11851.9	12960.3
20°	1635.0	1883.3	2504.2	3341.3	4364.6	5539.6	7482.8	10331.9	11824.3	12953.4	13668.6
22.5°	1375.1	1467.1	1828.2	2596.2	3778.2	5213.1	7611.5	11196.6	13121.3	14563.1	14797.7
25°	1253.3	1308.5	1497.0	2037.4	3256.2	4976.3	8046.2	12484.3	14726.4	16172.8	16131.4
27.5°	1186.6	1244.1	1368.2	1720.1	2863.0	4829.1	8480.8	14011.2	16561.4	17920.5	17405.4
30°	1165.9	1244.1	1375.1	1621.2	2582.4	4596.8	8837.2	15351.9	17973.4	19100.2	17984.9
32.5°	1149.8	1161.3	1221.1	1398.1	2315.7	4325.5	9078.7	16554.5	19355.4	20222.3	18819.6
35°	929.0	986.5	1083.1	1253.3	2159.3	4162.2	9078.7	17591.6	20716.7	21356.0	19615.3
37.5°	894.5	945.1	1030.2	1175.1	2071.9	4081.7	8897.0	18592.0	22108.0	22641.5	20270.6
40°	876.1	917.5	998.0	1115.3	2035.1	3989.7	8632.6	19475.0	23467.0	23929.2	20882.3
42.5°	862.3	899.1	975.0	1078.5	1986.8	3888.6	8418.7	20183.2	24646.7	25028.4	21466.4
45°	855.4	894.5	977.3	1096.9	1890.2	3755.2	8347.4	20949.0	25617.1	25945.9	22098.8
47.5°	855.4	901.4	988.8	1136.0	1775.3	3617.2	8570.5	21958.5	26534.6	26695.6	22843.8
50°	848.5	899.1	1021.0	1096.9	1607.4	3442.4	9094.8	23230.2	27528.0	27546.4	23786.7
52.5°	834.7	894.5	1099.2	1073.9	1414.2	3212.5	9803.0	24862.9	28997.5	29107.8	25263.0
55°	818.6	887.6	1078.5	1021.0	1255.6	2938.8	10382.5	26847.4	31062.5	31368.3	27433.8
57.5°	797.9	878.4	1044.0	947.4	1152.1	2587.0	10591.8	28300.7	32504.3	33272.4	29880.5
60°	779.6	871.5	942.8	903.7	1087.7	2290.4	10187.1	28013.3	32405.4	34061.1	32049.0
62.5°	761.2	878.4	860.0	876.1	1057.8	2099.5	9129.3	25711.4	30765.8	33247.1	33656.4
65°	740.5	816.3	811.7	853.1	1050.9	2023.6	7567.9	22259.8	27597.0	30673.8	34035.8
67.5°	712.9	754.3	777.3	823.2	1073.9	1956.9	6107.6	18362.0	23193.4	26817.5	32058.2
70°	683.0	717.5	742.8	786.4	1060.1	1927.0	5079.7	14480.3	18403.4	21979.2	28155.8
72.5°	643.9	673.8	696.8	738.2	1046.3	1910.9	4291.0	11661.1	13739.9	16326.9	22892.1
75°	597.9	625.5	641.6	683.0	1002.6	1750.0	3373.5	9867.4	10281.3	11357.5	18233.2
77.5°	545.0	565.7	579.5	625.5	887.6	1455.6	2439.8	7611.5	7984.1	8246.2	13979.0
80°	482.9	503.6	510.5	554.2	735.9	1138.3	1591.3	5622.4	5972.0	6031.7	9129.3
82.5°	411.6	432.3	432.3	473.7	602.5	818.6	1044.0	3851.8	3920.8	4123.1	6452.6
85°	331.1	347.2	347.2	367.9	466.8	611.7	717.5	1933.9	1913.2	2184.6	5590.2
87.5°	236.9	248.4	259.9	264.4	333.4	404.7	432.3	588.7	388.6	446.1	3589.6
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: P192128

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7050-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1
2.5°	16234.9	16366.0	16232.6	16136.0	15719.8	15377.2	14919.6	14685.0
5°	17451.4	17784.8	17672.1	17267.4	16398.2	15420.9	14310.2	13808.9
7.5°	17304.2	18079.1	18097.5	17341.0	16060.1	14620.6	13116.7	12403.8
10°	16159.0	17150.1	17433.0	16699.4	15340.4	13730.7	12006.0	11192.0
12.5°	14880.5	15850.9	16067.0	15814.1	14678.1	13061.5	11311.5	10513.6
15°	13834.2	14268.8	14526.3	14747.1	14110.1	12794.8	11272.4	10396.3
17.5°	13197.2	13148.9	13222.5	13606.5	13714.6	13100.6	11870.3	10904.5
20°	12967.2	12229.1	12210.7	12739.6	13528.3	13829.6	13038.5	11879.5
22.5°	13093.7	11897.9	11746.2	12373.9	13627.2	14880.5	14570.0	13247.8
25°	13530.6	11925.5	11803.6	12410.7	13985.9	16000.3	16223.4	15018.4
27.5°	14218.2	12100.3	11939.3	12562.5	14461.9	16940.9	17851.5	16733.9
30°	14871.3	12403.8	12203.8	12861.4	14896.6	17313.4	18849.5	18072.3
32.5°	15664.6	12971.8	12620.0	13411.0	15434.7	17906.7	19739.4	19180.6
35°	16441.9	13781.3	13344.4	14259.6	16034.8	18644.8	20755.8	20597.2
37.5°	17295.0	14839.1	14478.0	15356.5	16855.8	19341.6	22052.8	22257.5
40°	18205.6	16241.8	15814.1	16957.0	18129.7	20215.4	23407.2	23899.3
42.5°	19123.2	17798.6	17288.1	18447.1	19530.2	21077.8	24566.2	25295.2
45°	20174.1	19488.8	19247.3	20500.6	20875.4	21898.7	25421.6	26327.7
47.5°	21397.4	21406.6	21795.2	22296.5	22232.2	22827.7	26281.7	27249.8
50°	22825.4	23800.5	24658.2	24991.6	23630.3	23825.8	27475.2	28484.7
52.5°	24540.9	26663.4	27725.8	27507.4	25136.5	25044.5	29365.4	30186.3
55°	26686.4	29694.2	30749.7	30593.4	26868.1	26704.8	31720.1	32198.5
57.5°	29169.9	32630.8	33601.2	32897.5	28946.9	28526.1	33667.9	33769.1
60°	31352.2	34957.9	35808.8	35029.2	31044.1	30464.6	34884.3	34394.5
62.5°	32566.4	35746.7	36344.6	35505.2	32481.3	32529.6	35151.1	34056.5
65°	32023.7	33753.0	33946.1	33877.1	32111.1	33727.7	34192.2	32495.1
67.5°	29052.7	28712.3	29036.6	29485.0	28937.7	32150.2	31536.2	29094.0
70°	23818.9	21949.3	22595.5	22896.7	23145.1	27666.0	27371.7	23697.0
72.5°	17950.4	15377.2	15887.7	15825.6	16975.4	22190.8	21287.0	17423.8
75°	12718.9	10426.2	10490.6	10465.3	11845.0	17361.7	15414.0	11920.9
77.5°	8899.3	7554.1	7588.6	7731.1	7963.4	13093.7	11012.6	8708.4
80°	6119.1	5732.8	5923.7	5935.2	5518.9	8795.8	8135.8	6988.4
82.5°	4557.7	3985.1	3939.1	4005.8	4325.5	7126.3	6252.5	4847.5
85°	3732.2	2359.3	1897.1	2377.7	3833.4	7057.4	4153.0	2557.1
87.5°	2101.8	1119.9	505.9	938.2	1529.2	4672.7	1200.4	326.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)