

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: P192141

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192141
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-03-LED-E1-SLR-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA 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: 17519 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
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

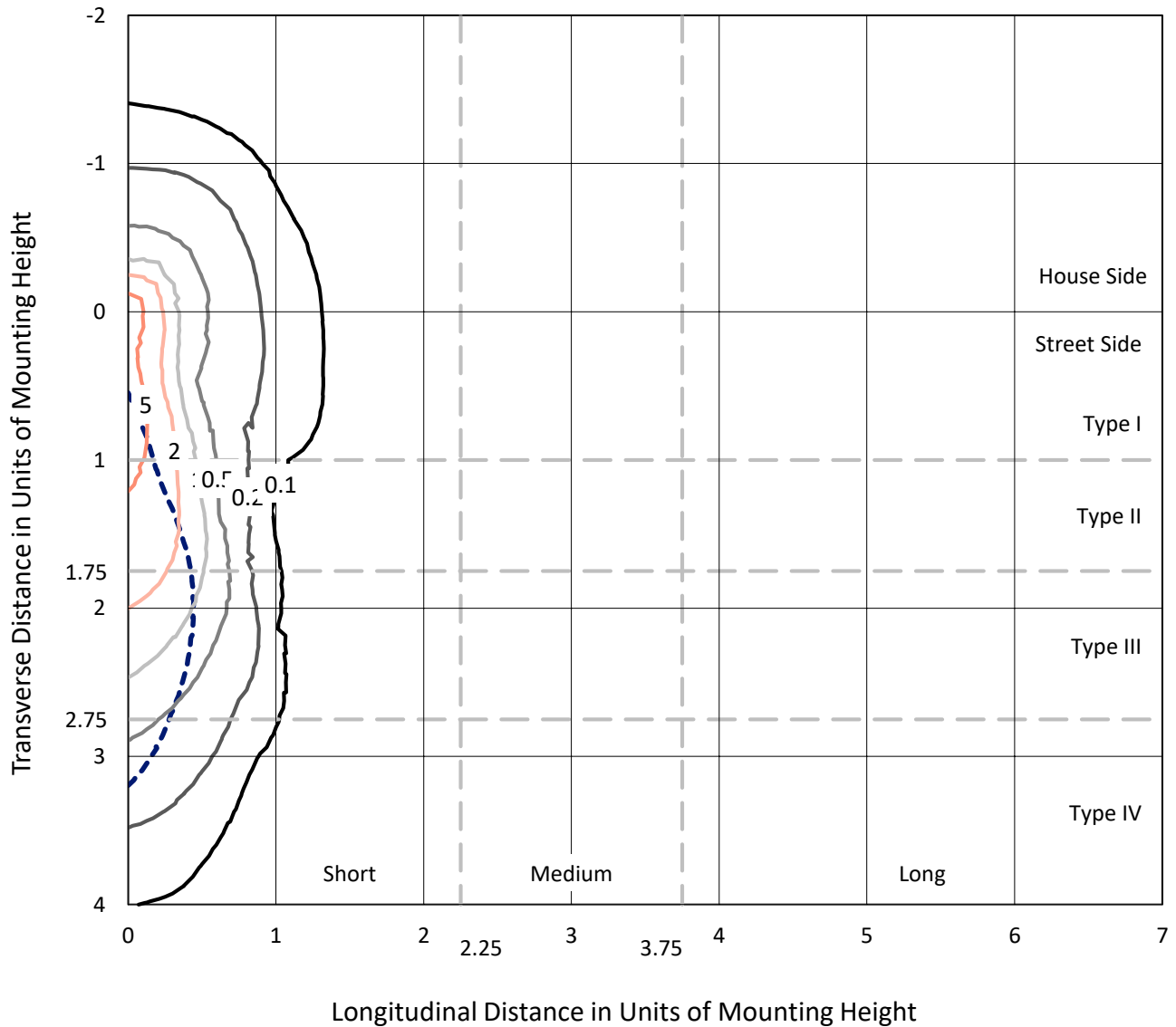


REPORT NUMBER: P192141

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

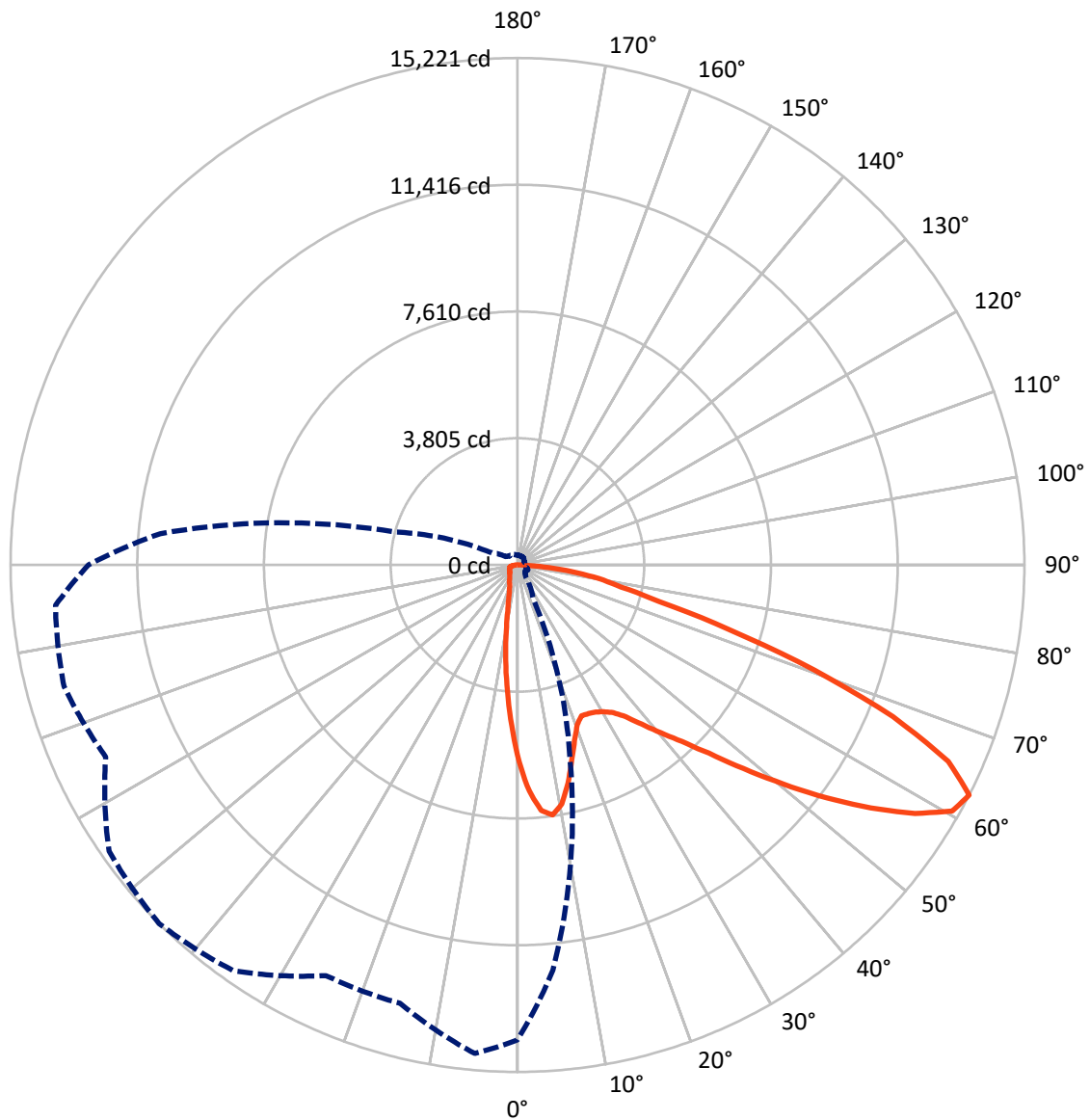


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P192141

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7050-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P192141

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2899.2	0.0	2899.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14619.8	0.0	14619.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	17519.0	0.0	17519.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.9	2.5
10°-20°	790.1	4.5
20°-30°	1152.0	6.6
30°-40°	1774.2	10.1
40°-50°	2611.1	14.9
50°-60°	3830.0	21.9
60°-70°	4281.3	24.4
70°-80°	2096.1	12.0
80°-90°	553.4	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°	17519.0	100.0
0°-180°	17519.0	100.0



REPORT NUMBER: P192141

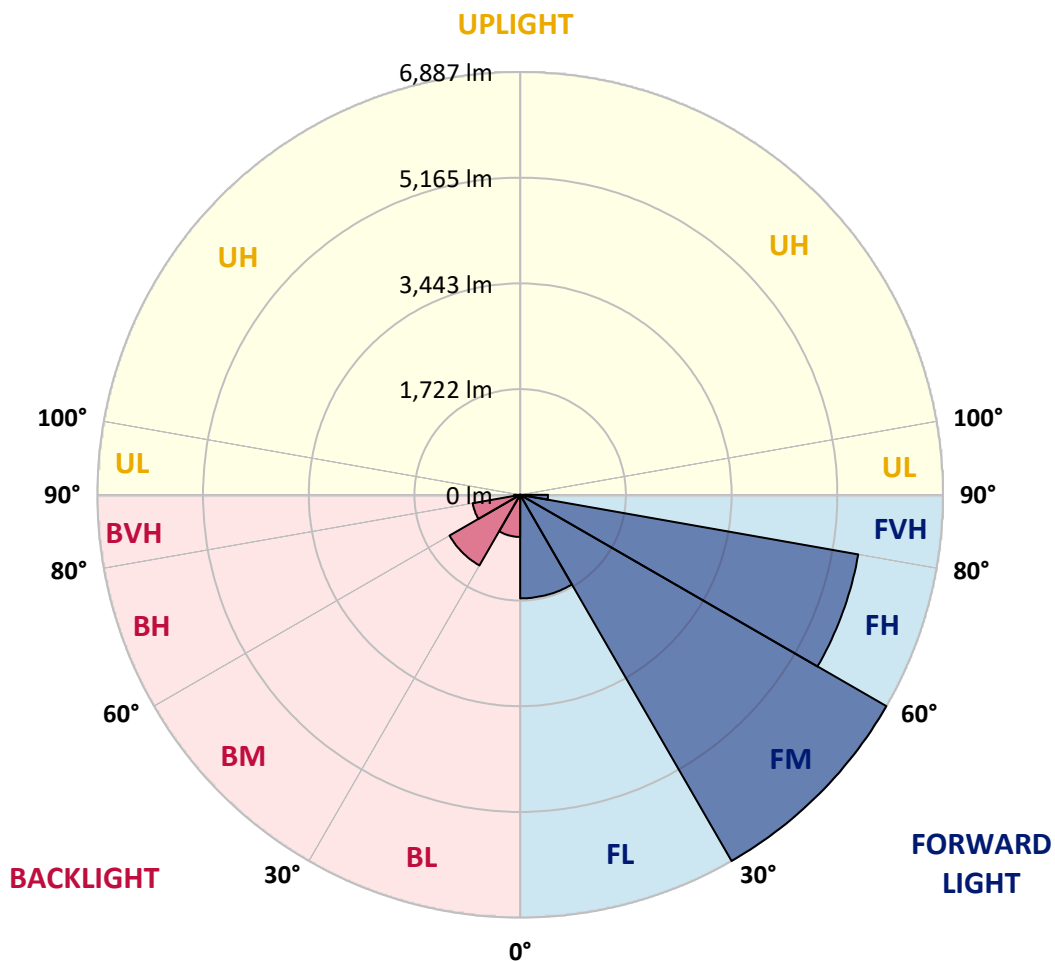
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1687.0	9.6			
FM (30°-60°)	6886.9	39.3			
FH (60°-80°)	5591.5	31.9			G3/7500
FVH (80°-90°)	454.5	2.6			G3/500
BL (0°-30°)	685.9	3.9	B2/1000		
BM (30°-60°)	1328.4	7.6	B2/2500		
BH (60°-80°)	786.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	98.9	0.6			G1/100
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: P192141

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9
2.5°	6150.0	6024.8	5816.8	5600.1	5468.2	5314.1	5193.7	5087.8	4875.9	4834.5	4872.0
5°	5783.1	5531.7	5139.8	4744.9	4482.0	4199.8	3980.3	3804.0	3535.3	3488.1	3545.0
7.5°	5194.7	4894.2	4376.1	3872.4	3500.7	3148.2	2911.3	2722.5	2512.6	2422.1	2427.8
10°	4687.1	4348.1	3735.6	3187.7	2883.4	2645.5	2446.1	2252.6	2039.7	1900.1	1861.6
12.5°	4403.0	4013.0	3307.1	2817.9	2535.7	2285.3	2070.5	1863.5	1636.2	1493.7	1453.2
15°	4353.9	3930.2	3146.3	2581.0	2227.5	1910.7	1657.4	1426.3	1192.2	1076.7	1052.6
17.5°	4566.7	4078.5	3094.3	2370.0	1937.6	1546.6	1235.6	977.5	786.8	729.0	724.2
20°	4975.1	4363.5	3087.5	2171.7	1651.6	1193.2	861.0	673.2	589.4	573.0	574.0
22.5°	5548.1	4805.6	3170.3	2022.4	1388.7	889.9	647.2	563.4	530.6	515.2	515.2
25°	6289.6	5414.2	3361.0	1913.6	1160.5	710.7	571.1	521.0	490.2	479.6	481.5
27.5°	7008.1	6006.5	3582.5	1827.9	1011.2	645.2	541.2	496.0	469.0	458.4	463.2
30°	7568.6	6532.3	3767.4	1711.3	935.1	626.9	551.8	505.6	467.1	450.7	451.7
32.5°	8032.7	6992.7	3922.5	1627.5	867.7	537.4	475.7	455.5	450.7	431.4	421.8
35°	8626.0	7494.4	4026.5	1629.5	835.9	479.6	423.7	388.1	362.1	340.0	340.0
37.5°	9321.3	8070.3	4137.2	1651.6	824.4	445.9	405.4	369.8	345.7	324.5	320.7
40°	10008.9	8634.6	4238.4	1672.8	817.6	425.7	391.0	358.3	336.1	314.9	309.1
42.5°	10593.5	9098.8	4328.9	1683.4	794.5	423.7	380.4	350.5	329.4	306.2	300.5
45°	11025.9	9487.9	4426.1	1699.8	771.4	431.4	380.4	349.6	323.6	301.4	295.7
47.5°	11412.1	9944.4	4588.9	1699.8	743.5	417.0	392.9	350.5	322.6	299.5	294.7
50°	11929.2	10570.4	4897.1	1660.3	704.0	401.6	414.1	346.7	314.0	295.7	289.9
52.5°	12641.9	11372.6	5386.3	1591.9	643.3	371.7	411.2	344.8	305.3	286.0	279.3
55°	13484.5	12231.6	5919.8	1512.0	552.8	350.5	396.8	340.0	295.7	274.5	267.7
57.5°	14142.3	12822.9	6295.4	1388.7	473.8	339.0	351.5	335.1	284.1	261.9	256.2
60°	14404.2	12799.8	6398.5	1224.0	435.3	329.4	307.2	375.6	274.5	252.3	245.6
62.5°	14262.7	12208.5	6109.5	1108.5	426.6	316.8	287.9	347.7	266.8	245.6	235.9
65°	13608.8	11160.7	5343.9	1077.6	451.7	304.3	275.4	272.5	256.2	235.9	226.3
67.5°	12184.4	9594.8	4278.8	1080.5	483.4	291.8	262.9	249.4	241.7	225.4	216.7
70°	9924.2	7585.9	3189.6	1088.2	499.8	277.4	249.4	235.0	226.3	209.9	204.2
72.5°	7297.0	5846.6	2317.1	1038.2	502.7	261.0	231.1	218.6	209.9	192.6	187.8
75°	4992.4	4472.4	1607.3	860.0	438.2	237.9	210.9	199.3	193.6	172.4	169.5
77.5°	3647.0	3357.2	1028.5	638.5	338.0	209.0	185.9	177.2	173.3	150.2	146.4
80°	2926.7	2656.1	643.3	437.2	247.5	175.3	156.0	151.2	147.3	124.2	121.3
82.5°	2030.1	1778.7	413.1	284.1	185.9	135.8	123.3	121.3	115.6	94.4	91.5
85°	1070.9	965.9	261.9	193.6	134.8	93.4	85.7	85.7	82.8	62.6	60.7
87.5°	136.8	222.5	132.9	101.1	74.2	41.4	41.4	40.4	43.3	35.6	30.8
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: P192141

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7050-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9
2.5°	4783.4	4829.7	4785.4	4788.2	4837.4	4983.7	5050.2	5105.1	5163.8	5202.4	5219.7
5°	3467.0	3574.8	3611.4	3688.5	3802.1	3988.9	4063.1	4117.0	4152.6	4173.8	4182.5
7.5°	2371.0	2436.5	2509.7	2633.9	2881.4	2991.2	3040.3	3027.8	2987.4	2972.9	2958.5
10°	1787.4	1761.4	1747.9	1816.3	2016.6	2127.4	2162.0	2128.3	2106.2	2111.0	2135.1
12.5°	1384.9	1339.6	1284.7	1277.0	1408.9	1508.1	1530.3	1532.2	1572.6	1608.3	1661.2
15°	1009.3	1004.5	977.5	961.1	1036.2	1117.1	1126.8	1144.1	1180.7	1206.7	1252.9
17.5°	711.7	737.7	758.9	769.5	826.3	884.1	873.5	864.8	858.1	858.1	880.2
20°	574.0	591.3	618.3	649.1	706.9	747.3	721.3	686.6	661.6	653.9	656.8
22.5°	517.2	530.6	546.0	573.0	625.0	652.9	625.0	600.0	574.9	566.3	563.4
25°	488.3	505.6	520.0	540.3	578.8	598.0	571.1	552.8	537.4	526.8	519.1
27.5°	471.9	487.3	491.2	500.8	533.5	550.9	537.4	529.7	520.0	510.4	500.8
30°	454.6	451.7	444.9	445.9	471.9	489.2	488.3	490.2	489.2	486.3	484.4
32.5°	415.1	409.3	403.5	409.3	433.4	448.8	449.7	453.6	453.6	452.6	460.3
35°	345.7	356.3	363.1	380.4	409.3	422.8	417.0	407.4	390.0	379.4	378.5
37.5°	319.7	321.7	333.2	357.3	389.1	401.6	392.9	370.8	359.2	357.3	360.2
40°	307.2	309.1	315.9	338.0	369.8	382.3	374.6	358.3	347.7	346.7	351.5
42.5°	298.5	300.5	304.3	319.7	345.7	361.1	362.1	350.5	338.0	339.0	343.8
45°	293.7	294.7	293.7	301.4	325.5	343.8	351.5	343.8	333.2	335.1	340.9
47.5°	292.8	289.9	286.0	287.9	313.0	331.3	340.9	338.0	333.2	335.1	340.0
50°	288.9	282.2	277.4	276.4	301.4	320.7	329.4	329.4	331.3	335.1	340.0
52.5°	277.4	269.7	269.7	266.8	293.7	312.0	317.8	318.8	321.7	328.4	335.1
55°	262.9	260.0	262.9	258.1	287.9	305.3	308.2	310.1	312.0	317.8	327.4
57.5°	250.4	246.5	253.3	251.4	283.1	298.5	298.5	302.4	302.4	310.1	317.8
60°	243.6	235.9	238.8	240.8	276.4	292.8	290.8	294.7	296.6	303.4	309.1
62.5°	235.0	228.2	228.2	233.1	268.7	284.1	283.1	286.0	293.7	295.7	301.4
65°	224.4	221.5	218.6	224.4	261.0	274.5	275.4	279.3	286.0	287.9	292.8
67.5°	213.8	214.8	209.0	214.8	254.2	264.8	264.8	272.5	275.4	279.3	284.1
70°	202.2	203.2	198.4	205.1	249.4	254.2	253.3	263.9	265.8	268.7	273.5
72.5°	187.8	187.8	185.9	195.5	241.7	243.6	241.7	250.4	251.4	254.2	256.2
75°	172.4	172.4	170.5	183.9	236.9	232.1	226.3	233.1	235.0	236.9	236.9
77.5°	152.2	154.1	154.1	170.5	220.5	227.3	208.0	211.9	214.8	215.7	212.8
80°	127.1	131.9	133.9	155.0	184.9	209.9	185.9	188.8	189.7	189.7	185.9
82.5°	97.3	105.9	110.7	133.9	141.6	176.2	161.8	164.7	161.8	156.0	154.1
85°	67.4	79.0	84.7	102.1	106.9	135.8	134.8	134.8	129.0	121.3	120.4
87.5°	36.6	43.3	47.2	60.7	73.2	91.5	99.2	96.3	91.5	86.7	87.6
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: P192141

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7050-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9
2.5°	5310.2	5441.2	5650.2	5810.0	5970.9	6125.9	6293.5	6421.6	6530.4	6572.8	6701.8
5°	4270.1	4433.8	4631.3	4987.6	5239.9	5518.2	5839.9	6265.6	6429.3	6655.6	7026.4
7.5°	3019.1	3167.4	3485.3	3773.2	4130.5	4524.4	4958.7	5546.2	5760.9	6124.0	6727.8
10°	2254.5	2426.9	2682.1	2924.8	3239.7	3642.2	4141.1	4797.9	5058.9	5452.7	6148.1
12.5°	1816.3	2019.5	2290.1	2518.4	2762.0	3046.1	3530.5	4250.9	4600.5	4945.2	5648.2
15°	1395.4	1608.3	1859.6	2149.5	2418.2	2724.4	3232.0	4019.7	4422.3	4781.5	5381.5
17.5°	965.9	1147.9	1464.8	1767.2	2111.0	2502.9	3149.2	4068.9	4549.4	4963.5	5427.7
20°	684.7	788.7	1048.8	1399.3	1827.9	2320.0	3133.7	4327.0	4952.0	5424.8	5724.3
22.5°	575.9	614.4	765.6	1087.3	1582.3	2183.2	3187.7	4689.1	5495.1	6099.0	6197.2
25°	524.9	548.0	626.9	853.3	1363.7	2084.0	3369.7	5228.4	6167.3	6773.1	6755.7
27.5°	496.9	521.0	573.0	720.4	1199.0	2022.4	3551.7	5867.8	6935.8	7505.0	7289.3
30°	488.3	521.0	575.9	678.9	1081.5	1925.1	3701.0	6429.3	7527.1	7999.0	7532.0
32.5°	481.5	486.3	511.4	585.5	969.8	1811.5	3802.1	6932.9	8105.9	8469.0	7881.5
35°	389.1	413.1	453.6	524.9	904.3	1743.1	3802.1	7367.3	8676.1	8943.8	8214.8
37.5°	374.6	395.8	431.4	492.1	867.7	1709.4	3726.0	7786.2	9258.7	9482.1	8489.2
40°	366.9	384.3	418.0	467.1	852.3	1670.9	3615.3	8156.0	9827.9	10021.4	8745.4
42.5°	361.1	376.5	408.3	451.7	832.1	1628.5	3525.7	8452.6	10321.9	10481.8	8990.0
45°	358.3	374.6	409.3	459.4	791.6	1572.6	3495.8	8773.3	10728.3	10866.0	9254.8
47.5°	358.3	377.5	414.1	475.7	743.5	1514.9	3589.3	9196.1	11112.6	11180.0	9566.9
50°	355.4	376.5	427.6	459.4	673.2	1441.7	3808.8	9728.7	11528.6	11536.3	9961.7
52.5°	349.6	374.6	460.3	449.7	592.3	1345.4	4105.5	10412.4	12144.0	12190.2	10580.0
55°	342.8	371.7	451.7	427.6	525.8	1230.8	4348.1	11243.5	13008.8	13136.9	11489.1
57.5°	334.2	367.9	437.2	396.8	482.5	1083.4	4435.8	11852.2	13612.6	13934.3	12513.8
60°	326.5	365.0	394.8	378.5	455.5	959.2	4266.3	11731.8	13571.2	14264.6	13421.9
62.5°	318.8	367.9	360.2	366.9	443.0	879.3	3823.3	10767.8	12884.6	13923.7	14095.1
65°	310.1	341.9	340.0	357.3	440.1	847.5	3169.4	9322.3	11557.5	12846.0	14254.0
67.5°	298.5	315.9	325.5	344.8	449.7	819.5	2557.8	7689.9	9713.3	11231.0	13425.8
70°	286.0	300.5	311.1	329.4	444.0	807.0	2127.4	6064.3	7707.2	9204.8	11791.5
72.5°	269.7	282.2	291.8	309.1	438.2	800.3	1797.0	4883.6	5754.2	6837.6	9587.1
75°	250.4	261.9	268.7	286.0	419.9	732.9	1412.8	4132.4	4305.8	4756.5	7636.0
77.5°	228.2	236.9	242.7	261.9	371.7	609.6	1021.8	3187.7	3343.7	3453.5	5854.3
80°	202.2	210.9	213.8	232.1	308.2	476.7	666.4	2354.6	2501.0	2526.1	3823.3
82.5°	172.4	181.1	181.1	198.4	252.3	342.8	437.2	1613.1	1642.0	1726.7	2702.3
85°	138.7	145.4	145.4	154.1	195.5	256.2	300.5	809.9	801.3	914.9	2341.2
87.5°	99.2	104.0	108.8	110.7	139.6	169.5	181.1	246.5	162.8	186.8	1503.3
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: P192141

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7050-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9
2.5°	6799.1	6854.0	6798.1	6757.7	6583.4	6439.9	6248.2	6150.0
5°	7308.5	7448.2	7401.0	7231.5	6867.5	6458.2	5993.0	5783.1
7.5°	7246.9	7571.4	7579.1	7262.3	6725.9	6123.0	5493.2	5194.7
10°	6767.3	7182.4	7300.8	6993.6	6424.5	5750.3	5028.0	4687.1
12.5°	6231.9	6638.3	6728.8	6622.8	6147.1	5470.1	4737.2	4403.0
15°	5793.7	5975.7	6083.5	6176.0	5909.2	5358.4	4720.8	4353.9
17.5°	5526.9	5506.7	5537.5	5698.3	5743.6	5486.5	4971.2	4566.7
20°	5430.6	5121.5	5113.8	5335.3	5665.6	5791.7	5460.5	4975.1
22.5°	5483.6	4982.8	4919.2	5182.1	5707.0	6231.9	6101.8	5548.1
25°	5666.5	4994.3	4943.3	5197.5	5857.2	6700.9	6794.3	6289.6
27.5°	5954.5	5067.5	5000.1	5261.1	6056.6	7094.7	7476.1	7008.1
30°	6228.0	5194.7	5110.9	5386.3	6238.6	7250.8	7894.1	7568.6
32.5°	6560.2	5432.5	5285.2	5616.5	6463.9	7499.2	8266.8	8032.7
35°	6885.8	5771.5	5588.5	5971.8	6715.3	7808.4	8692.4	8626.0
37.5°	7243.0	6214.5	6063.3	6431.2	7059.1	8100.2	9235.6	9321.3
40°	7624.4	6802.0	6622.8	7101.5	7592.6	8466.1	9802.8	10008.9
42.5°	8008.7	7454.0	7240.2	7725.5	8179.1	8827.3	10288.2	10593.5
45°	8448.8	8161.8	8060.7	8585.5	8742.5	9171.1	10646.4	11025.9
47.5°	8961.1	8965.0	9127.7	9337.7	9310.7	9560.1	11006.6	11412.1
50°	9559.2	9967.5	10326.7	10466.4	9896.2	9978.1	11506.4	11929.2
52.5°	10277.6	11166.5	11611.4	11519.9	10527.0	10488.5	12298.1	12641.9
55°	11176.1	12435.8	12877.8	12812.3	11252.2	11183.8	13284.2	13484.5
57.5°	12216.2	13665.6	14072.0	13777.3	12122.8	11946.5	14099.9	14142.3
60°	13130.1	14640.2	14996.5	14670.0	13001.1	12758.4	14609.4	14404.2
62.5°	13638.6	14970.5	15220.9	14869.4	13603.0	13623.2	14721.1	14262.7
65°	13411.3	14135.5	14216.4	14187.5	13447.9	14125.0	14319.5	13608.8
67.5°	12167.1	12024.6	12160.3	12348.1	12118.9	13464.3	13207.2	12184.4
70°	9975.2	9192.2	9462.9	9589.0	9693.0	11586.4	11463.1	9924.2
72.5°	7517.5	6439.9	6653.7	6627.7	7109.2	9293.4	8914.9	7297.0
75°	5326.6	4366.4	4393.4	4382.8	4960.6	7271.0	6455.3	4992.4
77.5°	3727.0	3163.6	3178.0	3237.8	3335.0	5483.6	4612.0	3647.0
80°	2562.7	2400.9	2480.8	2485.6	2311.3	3683.6	3407.2	2926.7
82.5°	1908.8	1669.0	1649.7	1677.6	1811.5	2984.5	2618.5	2030.1
85°	1563.0	988.1	794.5	995.8	1605.4	2955.6	1739.3	1070.9
87.5°	880.2	469.0	211.9	392.9	640.4	1956.9	502.7	136.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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