

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: P269176

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269176
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 15220.8 lumens
Efficiency: N/A
Efficacy: 79.7 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

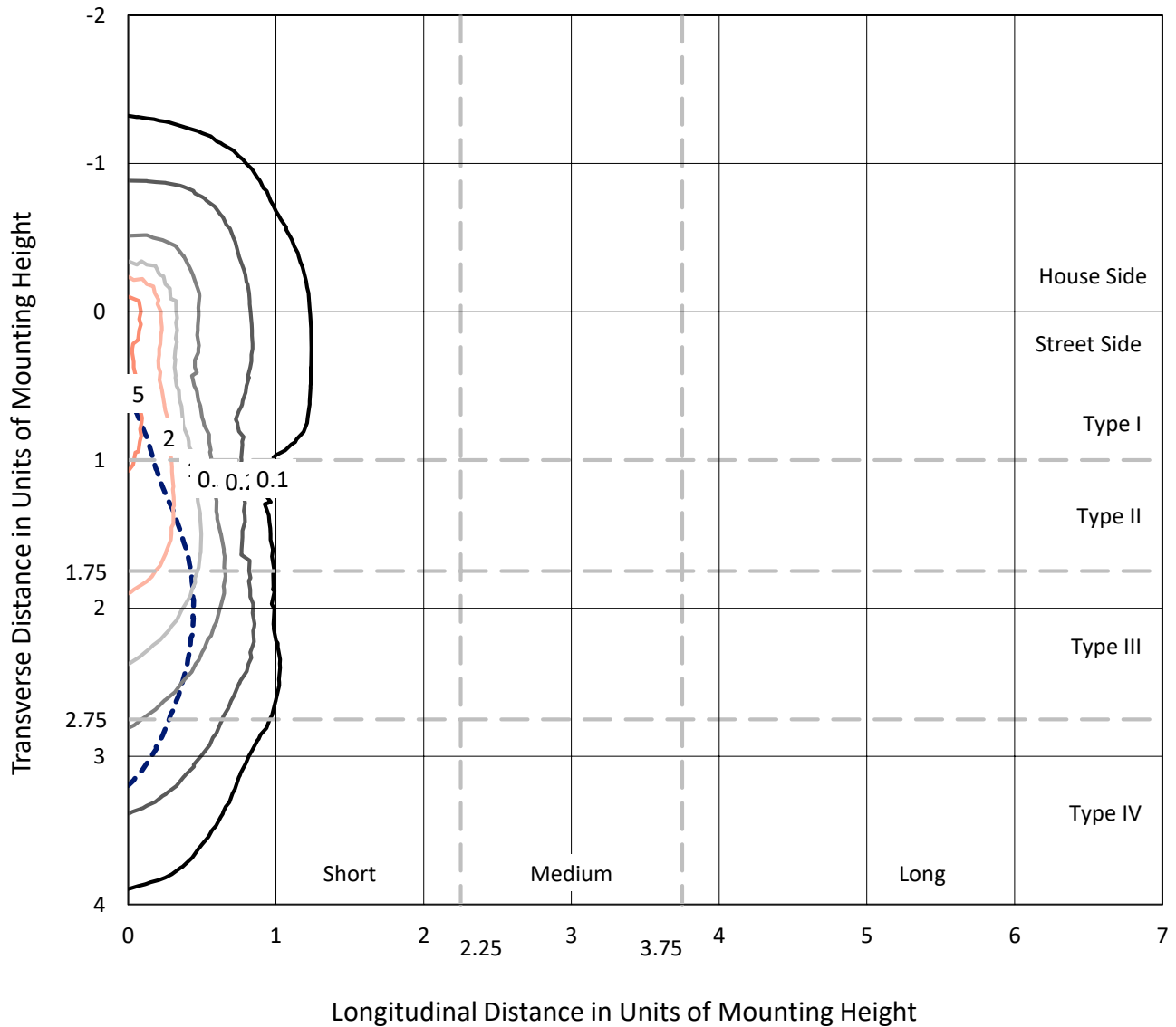


REPORT NUMBER: P269176

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

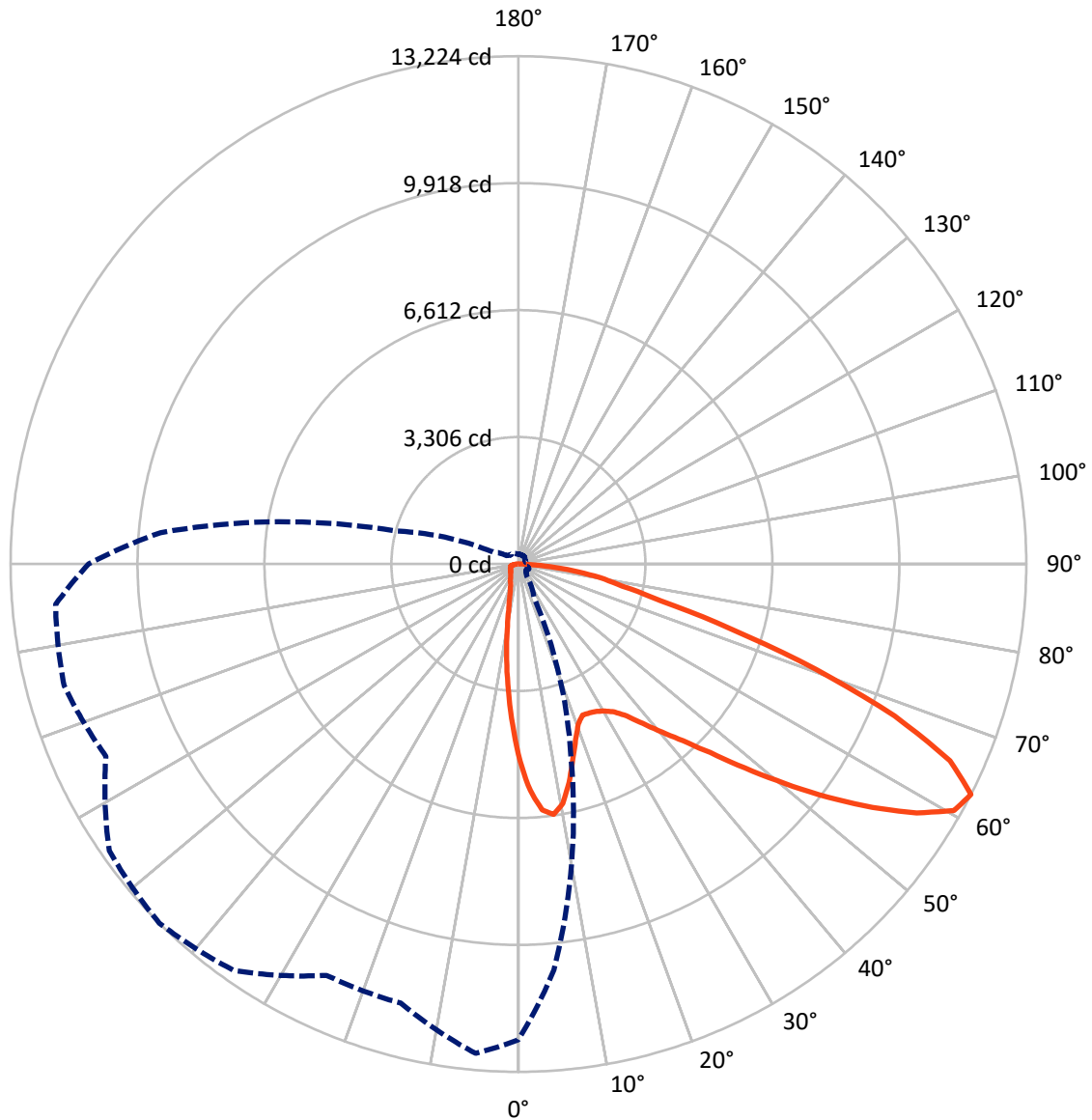


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269176

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7027-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269176

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2518.8	0.0	2518.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12702.0	0.0	12702.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	15220.8	0.0	15220.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.3	2.5
10°-20°	686.5	4.5
20°-30°	1000.8	6.6
30°-40°	1541.4	10.1
40°-50°	2268.6	14.9
50°-60°	3327.5	21.9
60°-70°	3719.7	24.4
70°-80°	1821.1	12.0
80°-90°	480.8	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°	15220.8	100.0
0°-180°	15220.8	100.0



REPORT NUMBER: P269176

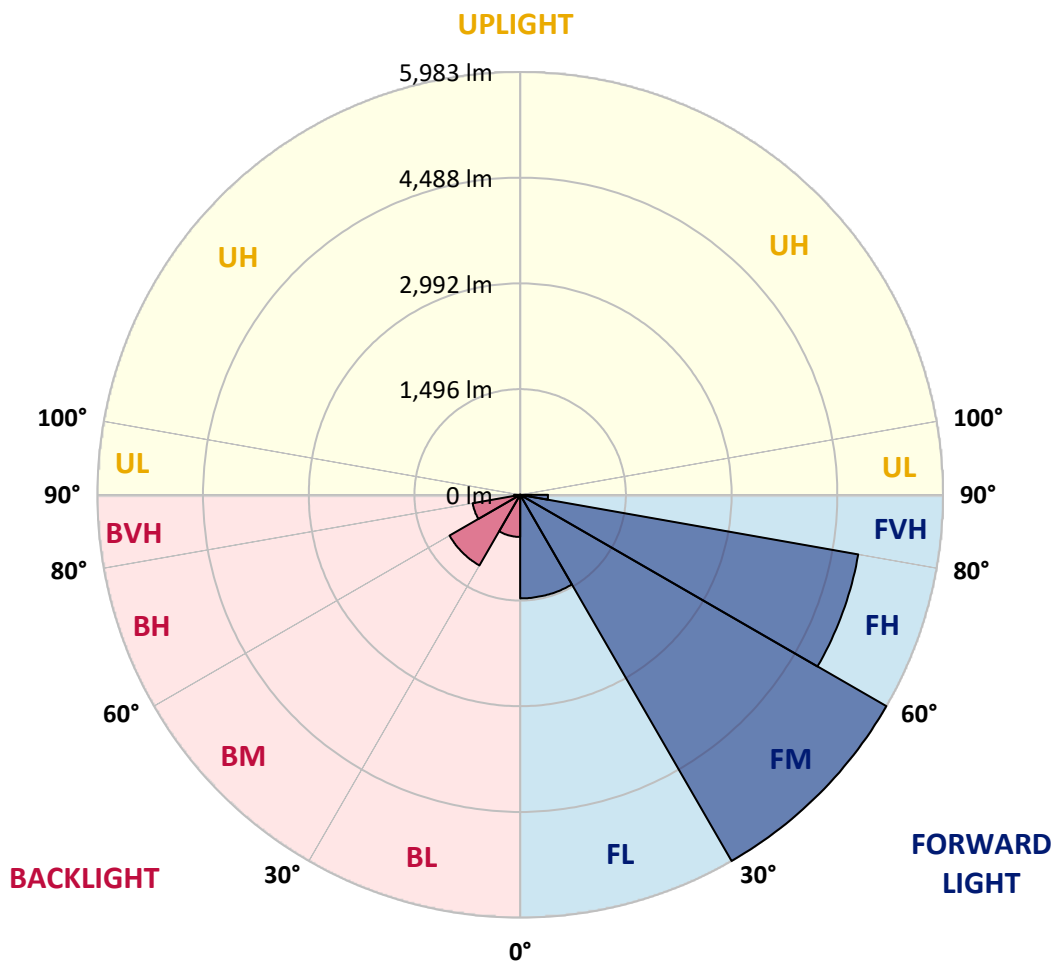
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1465.7	9.6			
FM (30°-60°)	5983.4	39.3			
FH (60°-80°)	4858.0	31.9			G2/5000
FVH (80°-90°)	394.9	2.6			G3/500
BL (0°-30°)	595.9	3.9	B2/1000		
BM (30°-60°)	1154.1	7.6	B2/2500		
BH (60°-80°)	682.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	86.0	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: P269176

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3
2.5°	5343.2	5234.5	5053.8	4865.5	4750.9	4617.0	4512.4	4420.3	4236.2	4200.3	4233.0
5°	5024.4	4806.0	4465.6	4122.4	3894.1	3648.8	3458.1	3305.0	3071.6	3030.5	3079.8
7.5°	4513.3	4252.1	3801.9	3364.4	3041.4	2735.2	2529.4	2365.3	2183.1	2104.3	2109.3
10°	4072.2	3777.7	3245.5	2769.6	2505.2	2298.5	2125.2	1957.0	1772.1	1650.8	1617.4
12.5°	3825.4	3486.5	2873.3	2448.2	2203.1	1985.6	1798.9	1619.0	1421.6	1297.7	1262.6
15°	3782.8	3414.5	2733.5	2242.3	1935.3	1660.1	1440.0	1239.1	1035.8	935.5	914.6
17.5°	3967.6	3543.5	2688.4	2059.2	1683.5	1343.8	1073.6	849.3	683.6	633.3	629.3
20°	4322.5	3791.1	2682.5	1886.8	1435.0	1036.6	748.0	584.8	512.0	497.8	498.6
22.5°	4820.2	4175.2	2754.5	1757.1	1206.6	773.1	562.2	489.4	461.0	447.6	447.6
25°	5464.5	4704.0	2920.1	1662.6	1008.3	617.5	496.1	452.7	425.8	416.6	418.3
27.5°	6088.7	5218.6	3112.5	1588.1	878.5	560.6	470.3	430.8	407.6	398.3	402.5
30°	6575.8	5675.4	3273.2	1486.9	812.4	544.7	479.4	439.4	405.9	391.7	392.4
32.5°	6979.0	6075.3	3407.9	1414.0	753.9	466.8	413.3	395.8	391.7	374.9	366.5
35°	7494.4	6511.3	3498.3	1415.6	726.3	416.6	368.1	337.3	314.5	295.4	295.4
37.5°	8098.5	7011.6	3594.5	1435.0	716.2	387.3	352.2	321.4	300.4	282.0	278.7
40°	8696.0	7501.9	3682.3	1453.4	710.4	369.8	339.6	311.3	291.9	273.7	268.7
42.5°	9203.9	7905.3	3761.1	1462.6	690.3	368.1	330.4	304.5	286.2	266.1	261.0
45°	9579.4	8243.2	3845.6	1476.9	670.1	374.9	330.4	303.7	281.1	261.9	256.8
47.5°	9915.0	8639.9	3986.9	1476.9	645.9	362.2	341.4	304.5	280.4	260.1	256.0
50°	10364.4	9183.7	4254.6	1442.5	611.7	348.9	359.9	301.2	272.7	256.8	251.9
52.5°	10983.4	9880.6	4679.7	1383.1	558.9	323.0	357.3	299.6	265.2	248.6	242.6
55°	11715.5	10626.9	5143.2	1313.6	480.2	304.5	344.7	295.4	256.8	238.5	232.7
57.5°	12287.0	11140.8	5469.6	1206.6	411.7	294.6	305.5	291.2	246.9	227.6	222.6
60°	12514.6	11120.7	5559.2	1063.5	378.1	286.2	266.8	326.4	238.5	219.2	213.3
62.5°	12391.7	10606.9	5308.1	963.1	370.7	275.3	250.2	302.1	231.8	213.3	205.1
65°	11823.5	9696.7	4642.9	936.3	392.4	264.5	239.3	236.9	222.6	205.1	196.5
67.5°	10586.0	8336.1	3717.5	938.8	420.0	253.5	228.3	216.8	210.1	195.8	188.3
70°	8622.3	6590.8	2771.2	945.5	434.2	240.9	216.8	204.2	196.5	182.4	177.3
72.5°	6339.8	5079.6	2013.1	902.0	436.8	226.7	200.9	189.9	182.4	167.4	163.1
75°	4337.5	3885.7	1396.4	747.2	380.7	206.7	183.3	173.3	168.3	149.7	147.2
77.5°	3168.6	2916.7	893.6	554.8	293.7	181.5	161.4	154.0	150.6	130.6	127.2
80°	2542.7	2307.7	558.9	379.9	215.1	152.4	135.6	131.3	128.0	107.9	105.5
82.5°	1763.8	1545.4	359.0	246.9	161.4	117.9	107.1	105.5	100.4	81.9	79.5
85°	930.5	839.2	227.6	168.3	117.0	81.1	74.5	74.5	72.0	54.3	52.7
87.5°	118.8	193.2	115.4	87.9	64.4	36.0	36.0	35.2	37.6	30.9	26.8
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: P269176

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3
2.5°	4155.9	4196.2	4157.6	4160.1	4202.8	4330.0	4387.7	4435.4	4486.4	4519.9	4535.0
5°	3012.1	3105.9	3137.7	3204.7	3303.3	3465.7	3530.1	3577.0	3608.0	3626.3	3633.9
7.5°	2060.0	2116.9	2180.5	2288.4	2503.4	2598.8	2641.5	2630.5	2595.5	2582.9	2570.4
10°	1552.9	1530.4	1518.7	1578.1	1752.1	1848.4	1878.4	1849.2	1829.8	1834.1	1855.0
12.5°	1203.2	1163.8	1116.1	1109.4	1224.1	1310.3	1329.5	1331.2	1366.3	1397.4	1443.3
15°	876.8	872.8	849.3	835.1	900.3	970.6	979.0	994.1	1025.9	1048.4	1088.6
17.5°	618.4	640.9	659.4	668.5	717.8	768.1	758.9	751.3	745.6	745.6	764.7
20°	498.6	513.7	537.1	564.0	614.1	649.3	626.7	596.6	574.8	568.1	570.7
22.5°	449.3	461.0	474.5	497.8	543.0	567.3	543.0	521.2	499.5	492.0	489.4
25°	424.2	439.4	451.8	469.5	502.8	519.6	496.1	480.2	466.8	457.6	450.9
27.5°	409.9	423.5	426.8	435.0	463.5	478.5	466.8	460.2	451.8	443.5	435.0
30°	395.0	392.4	386.6	387.3	409.9	425.1	424.2	425.8	425.1	422.6	420.9
32.5°	360.6	355.5	350.6	355.5	376.5	390.0	390.8	394.0	394.0	393.3	399.9
35°	300.4	309.6	315.5	330.4	355.5	367.2	362.2	353.9	338.9	329.7	328.8
37.5°	277.8	279.5	289.6	310.5	338.0	348.9	341.4	322.1	312.2	310.5	312.9
40°	266.8	268.7	274.4	293.7	321.4	332.2	325.5	311.3	302.1	301.2	305.5
42.5°	259.4	261.0	264.5	277.8	300.4	313.8	314.5	304.5	293.7	294.6	298.6
45°	255.2	256.0	255.2	261.9	282.7	298.6	305.5	298.6	289.6	291.2	296.3
47.5°	254.4	251.9	248.6	250.2	271.9	287.8	296.3	293.7	289.6	291.2	295.4
50°	250.9	245.1	240.9	240.1	261.9	278.7	286.2	286.2	287.8	291.2	295.4
52.5°	240.9	234.3	234.3	231.8	255.2	271.1	276.0	276.9	279.5	285.3	291.2
55°	228.3	226.0	228.3	224.2	250.2	265.2	267.8	269.4	271.1	276.0	284.5
57.5°	217.5	214.2	220.1	218.4	246.0	259.4	259.4	262.8	262.8	269.4	276.0
60°	211.7	205.1	207.5	209.1	240.1	254.4	252.8	256.0	257.8	263.6	268.7
62.5°	204.2	198.3	198.3	202.5	233.4	246.9	246.0	248.6	255.2	256.8	261.9
65°	194.9	192.4	189.9	194.9	226.7	238.5	239.3	242.6	248.6	250.2	254.4
67.5°	185.8	186.6	181.5	186.6	221.0	230.1	230.1	236.9	239.3	242.6	246.9
70°	175.7	176.5	172.4	178.3	216.8	221.0	220.1	229.2	231.0	233.4	237.6
72.5°	163.1	163.1	161.4	169.9	210.1	211.7	210.1	217.5	218.4	221.0	222.6
75°	149.7	149.7	148.1	159.8	205.8	201.7	196.5	202.5	204.2	205.8	205.8
77.5°	132.2	133.8	133.8	148.1	191.6	197.4	180.6	184.1	186.6	187.4	185.0
80°	110.4	114.7	116.3	134.7	160.6	182.4	161.4	164.0	164.7	164.7	161.4
82.5°	84.5	92.0	96.2	116.3	123.0	153.2	140.6	143.1	140.6	135.6	133.8
85°	58.6	68.6	73.7	88.8	92.9	117.9	117.0	117.0	112.1	105.5	104.7
87.5°	31.8	37.6	41.1	52.7	63.6	79.5	86.1	83.6	79.5	75.3	76.1
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: P269176

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3
2.5°	4613.6	4727.4	4909.0	5047.8	5187.6	5322.3	5468.0	5579.2	5673.8	5710.5	5822.6
5°	3710.0	3852.2	4023.8	4333.3	4552.5	4794.3	5073.7	5443.5	5585.9	5782.5	6104.6
7.5°	2623.1	2752.0	3028.0	3278.3	3588.6	3930.9	4308.2	4818.6	5005.1	5320.7	5845.2
10°	1958.8	2108.5	2330.3	2541.0	2814.7	3164.4	3597.8	4168.4	4395.2	4737.4	5341.5
12.5°	1578.1	1754.6	1989.7	2188.0	2399.7	2646.4	3067.4	3693.2	3997.0	4296.6	4907.4
15°	1212.4	1397.4	1615.7	1867.5	2101.0	2367.0	2808.0	3492.4	3842.2	4154.2	4675.5
17.5°	839.2	997.4	1272.5	1535.4	1834.1	2174.5	2736.1	3535.1	3952.6	4312.5	4715.7
20°	594.9	685.2	911.2	1215.8	1588.1	2015.6	2722.7	3759.3	4302.3	4713.1	4973.3
22.5°	500.4	533.9	665.1	944.7	1374.8	1896.9	2769.6	4074.0	4774.2	5298.9	5384.3
25°	456.0	476.1	544.7	741.3	1184.8	1810.7	2927.7	4542.5	5358.3	5884.5	5869.5
27.5°	431.7	452.7	497.8	625.8	1041.8	1757.1	3085.8	5098.2	6026.0	6520.4	6333.1
30°	424.2	452.7	500.4	589.8	939.6	1672.6	3215.5	5585.9	6539.8	6949.6	6544.0
32.5°	418.3	422.6	444.3	508.7	842.6	1573.8	3303.3	6023.5	7042.6	7357.9	6847.6
35°	338.0	359.0	394.0	456.0	785.7	1514.5	3303.3	6400.9	7537.9	7770.5	7137.2
37.5°	325.5	344.0	374.9	427.6	753.9	1485.2	3237.2	6764.7	8044.1	8238.3	7375.5
40°	318.8	333.8	363.2	405.9	740.6	1451.8	3141.1	7086.1	8538.6	8706.8	7598.1
42.5°	313.8	327.2	354.8	392.4	723.0	1414.9	3063.2	7343.9	8967.8	9106.7	7810.7
45°	311.3	325.5	355.5	399.0	687.8	1366.3	3037.3	7622.4	9321.0	9440.6	8040.8
47.5°	311.3	328.1	359.9	413.3	645.9	1316.1	3118.5	7989.7	9654.8	9713.4	8311.8
50°	308.7	327.2	371.4	399.0	584.8	1252.5	3309.1	8452.4	10016.2	10022.8	8654.9
52.5°	303.7	325.5	399.9	390.8	514.5	1168.9	3566.9	9046.6	10551.0	10591.0	9192.0
55°	297.9	323.0	392.4	371.4	456.9	1069.3	3777.7	9768.6	11302.2	11413.5	9982.0
57.5°	290.3	319.6	379.9	344.7	419.1	941.3	3853.9	10297.5	11826.8	12106.4	10872.1
60°	283.7	317.1	343.1	328.8	395.8	833.4	3706.6	10192.8	11791.0	12393.3	11661.2
62.5°	276.9	319.6	312.9	318.8	384.8	763.9	3321.8	9355.3	11194.3	12097.1	12246.1
65°	269.4	297.0	295.4	310.5	382.4	736.3	2753.7	8099.4	10041.3	11160.8	12384.2
67.5°	259.4	274.4	282.7	299.6	390.8	712.0	2222.2	6681.1	8439.0	9757.7	11664.5
70°	248.6	261.0	270.3	286.2	385.7	701.1	1848.4	5268.7	6696.1	7997.3	10244.7
72.5°	234.3	245.1	253.5	268.7	380.7	695.3	1561.3	4243.0	4999.3	5940.6	8329.4
75°	217.5	227.6	233.4	248.6	364.8	636.7	1227.4	3590.3	3740.9	4132.6	6634.3
77.5°	198.3	205.8	210.8	227.6	323.0	529.6	887.7	2769.6	2905.1	3000.3	5086.4
80°	175.7	183.3	185.8	201.7	267.8	414.2	579.0	2045.8	2172.9	2194.6	3321.8
82.5°	149.7	157.4	157.4	172.4	219.2	297.9	379.9	1401.4	1426.6	1500.2	2347.8
85°	120.6	126.3	126.3	133.8	169.9	222.6	261.0	703.6	696.1	794.9	2034.0
87.5°	86.1	90.4	94.5	96.2	121.4	147.2	157.4	214.2	141.5	162.4	1306.0
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: P269176

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3	5142.3
2.5°	5907.2	5954.9	5906.4	5871.2	5719.8	5595.1	5428.5	5343.2
5°	6349.8	6471.1	6430.1	6282.8	5966.5	5611.0	5206.8	5024.4
7.5°	6296.2	6578.2	6584.8	6309.6	5843.6	5319.9	4772.5	4513.3
10°	5879.5	6240.2	6343.1	6076.1	5581.7	4996.1	4368.5	4072.2
12.5°	5414.4	5767.5	5846.1	5754.1	5340.8	4752.6	4115.8	3825.4
15°	5033.7	5191.8	5285.4	5365.8	5134.1	4655.5	4101.5	3782.8
17.5°	4801.9	4784.4	4811.1	4950.7	4990.2	4766.8	4319.1	3967.6
20°	4718.2	4449.7	4442.9	4635.3	4922.4	5031.9	4744.0	4322.5
22.5°	4764.3	4329.1	4273.9	4502.3	4958.4	5414.4	5301.3	4820.2
25°	4923.3	4339.2	4294.8	4515.7	5088.9	5821.8	5903.0	5464.5
27.5°	5173.3	4402.8	4344.3	4570.9	5262.0	6164.0	6495.4	6088.7
30°	5411.0	4513.3	4440.4	4679.7	5420.3	6299.5	6858.5	6575.8
32.5°	5699.7	4719.9	4591.9	4879.8	5616.1	6515.4	7182.3	6979.0
35°	5982.4	5014.3	4855.3	5188.4	5834.4	6784.0	7552.1	7494.4
37.5°	6292.8	5399.4	5267.9	5587.5	6133.1	7037.5	8024.0	8098.5
40°	6624.2	5909.7	5754.1	6169.9	6596.7	7355.5	8516.9	8696.0
42.5°	6958.1	6476.2	6290.4	6712.0	7106.1	7669.3	8938.6	9203.9
45°	7340.4	7091.1	7003.2	7459.3	7595.7	7968.0	9249.8	9579.4
47.5°	7785.6	7788.9	7930.3	8112.8	8089.2	8306.0	9562.7	9915.0
50°	8305.2	8659.9	8972.0	9093.4	8597.9	8669.2	9997.0	10364.4
52.5°	8929.3	9701.6	10088.1	10008.7	9146.1	9112.5	10684.8	10983.4
55°	9710.0	10804.5	11188.5	11131.5	9776.2	9716.6	11541.6	11715.5
57.5°	10613.7	11872.9	12226.0	11969.9	10532.4	10379.3	12250.2	12287.0
60°	11407.7	12719.6	13029.2	12745.6	11295.6	11084.7	12693.0	12514.6
62.5°	11849.5	13006.6	13224.2	12918.7	11818.6	11836.1	12789.9	12391.7
65°	11652.0	12281.2	12351.4	12326.5	11683.7	12272.0	12441.0	11823.5
67.5°	10571.0	10447.2	10565.1	10728.3	10529.2	11698.0	11474.6	10586.0
70°	8666.6	7986.4	8221.5	8331.2	8421.5	10066.4	9959.4	8622.3
72.5°	6531.3	5595.1	5780.9	5758.2	6176.6	8074.2	7745.5	6339.8
75°	4627.9	3793.6	3817.1	3807.8	4309.9	6317.2	5608.5	4337.5
77.5°	3238.1	2748.5	2761.1	2813.0	2897.6	4764.3	4007.0	3168.6
80°	2226.4	2086.0	2155.4	2159.5	2008.2	3200.4	2960.3	2542.7
82.5°	1658.4	1450.0	1433.2	1457.5	1573.8	2593.0	2275.0	1763.8
85°	1358.0	858.5	690.3	865.2	1394.8	2567.8	1511.0	930.5
87.5°	764.7	407.6	184.1	341.4	556.4	1700.2	436.8	118.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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