

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: P192132

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192132
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-04-LED-E1-SLR-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA 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: 21102 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

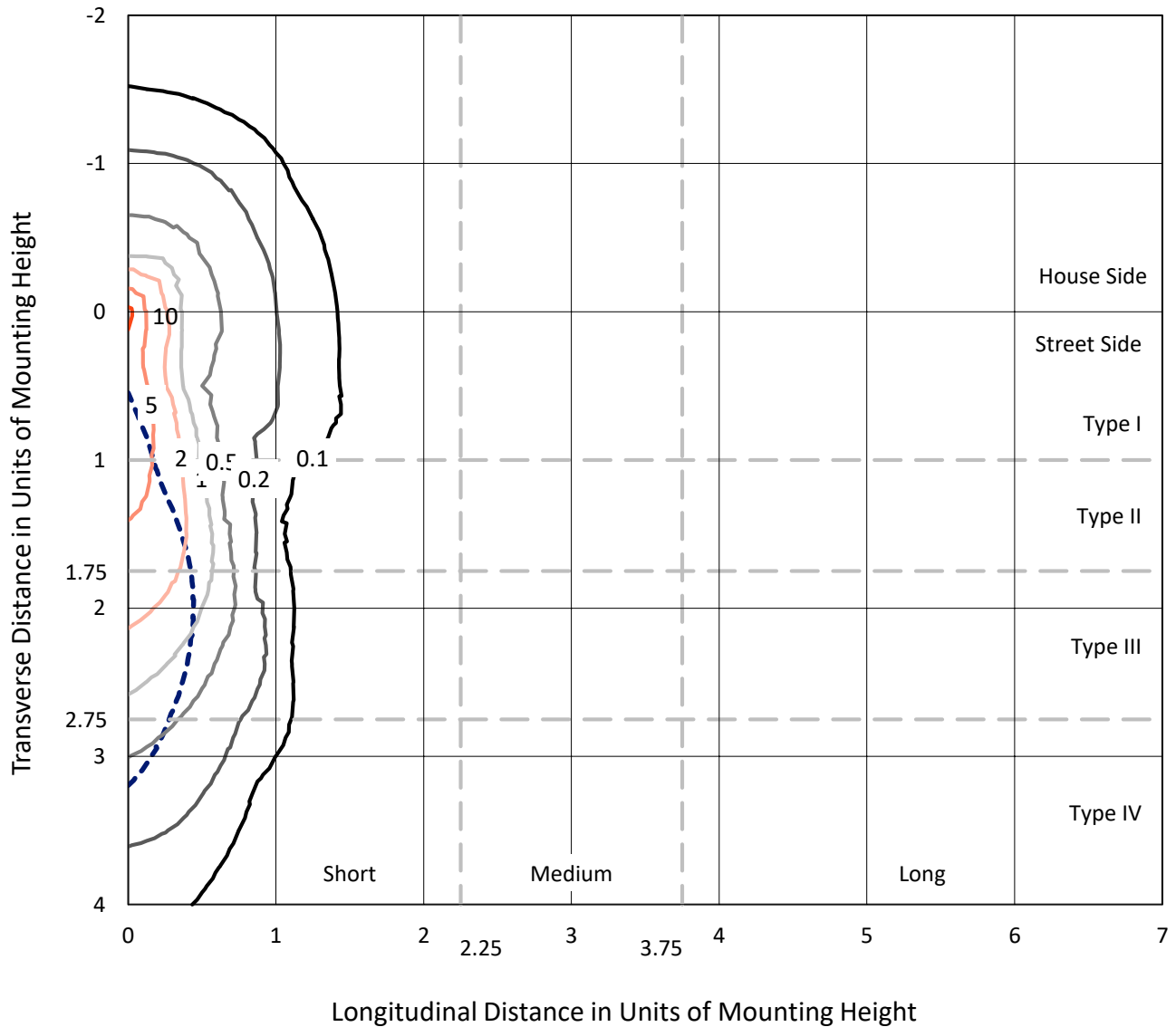
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

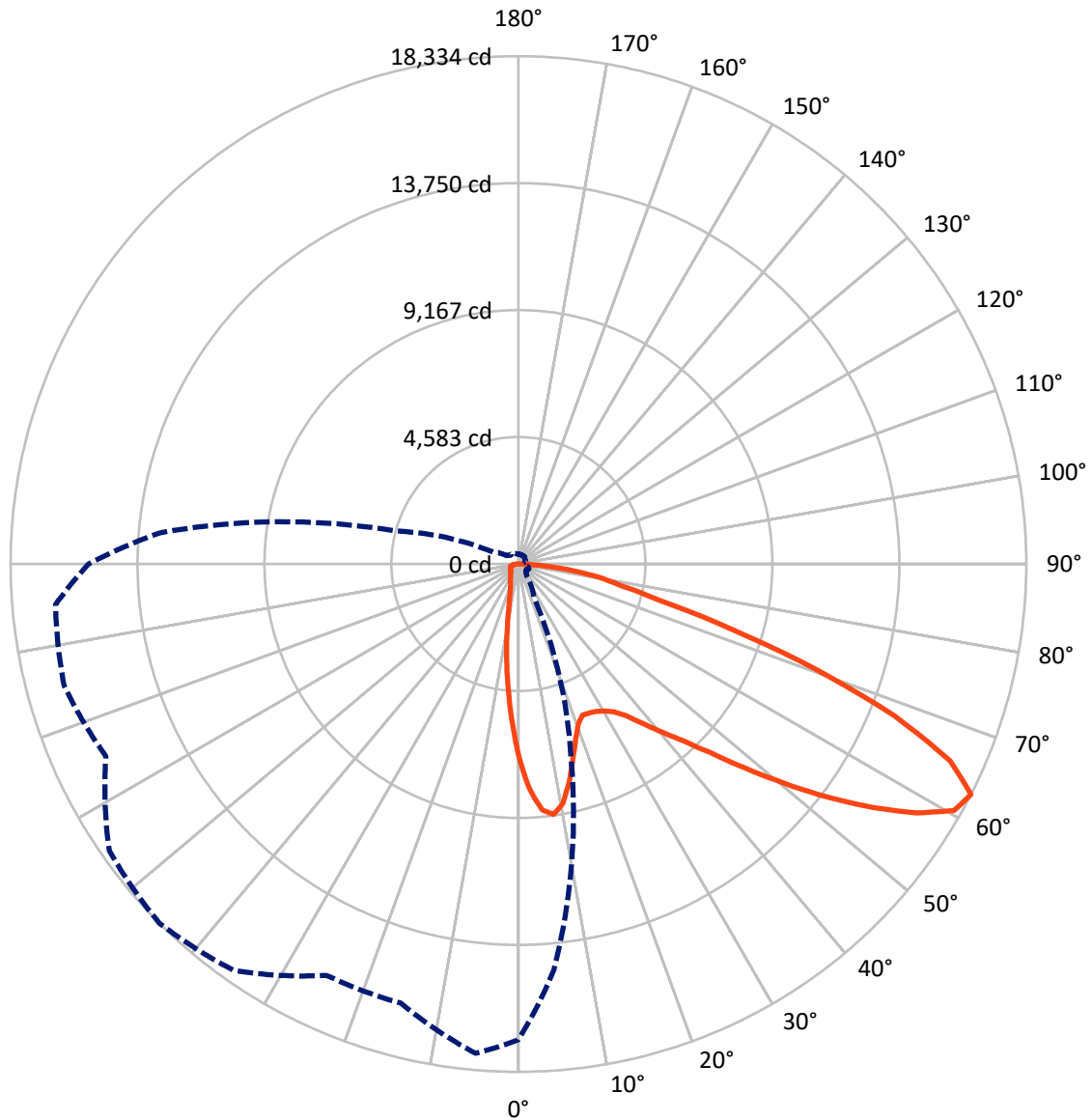
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3492.1	0.0	3492.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17609.9	0.0	17609.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	21102.0	0.0	21102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.0	2.5
10°-20°	951.7	4.5
20°-30°	1387.6	6.6
30°-40°	2137.0	10.1
40°-50°	3145.1	14.9
50°-60°	4613.3	21.9
60°-70°	5157.0	24.4
70°-80°	2524.8	12.0
80°-90°	666.6	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°	21102.0	100.0
0°-180°	21102.0	100.0

Coefficient of Utilization



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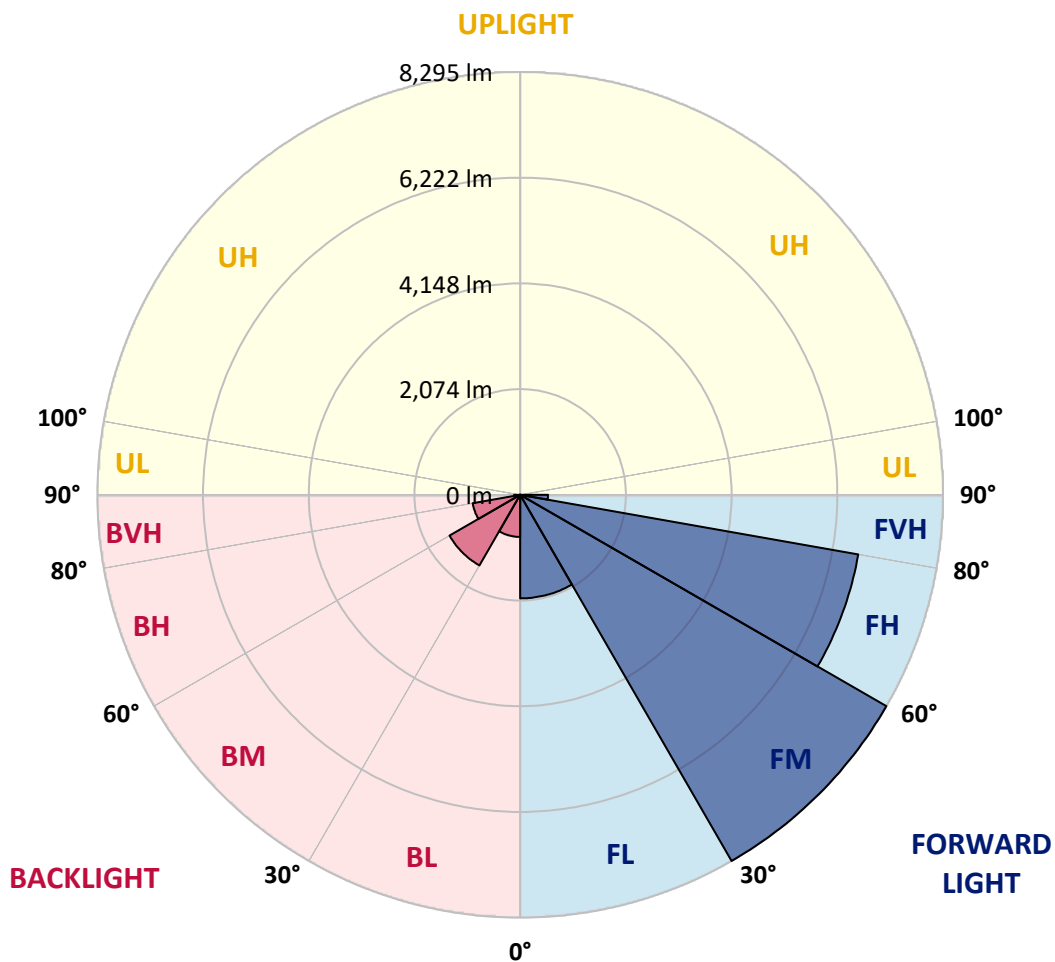
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2032.1	9.6			
FM (30°-60°)	8295.4	39.3			
FH (60°-80°)	6735.0	31.9			G3/7500
FVH (80°-90°)	547.4	2.6			G4/750
BL (0°-30°)	826.2	3.9	B2/1000		
BM (30°-60°)	1600.0	7.6	B2/2500		
BH (60°-80°)	946.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	119.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4
2.5°	7407.8	7257.0	7006.4	6745.4	6586.5	6400.9	6255.9	6128.3	5873.1	5823.2	5868.5
5°	6965.8	6663.1	6190.9	5715.3	5398.7	5058.8	4794.3	4582.0	4258.4	4201.5	4270.0
7.5°	6257.1	5895.1	5271.1	4664.4	4216.6	3792.1	3506.7	3279.3	3026.5	2917.4	2924.4
10°	5645.7	5237.4	4499.7	3839.6	3473.1	3186.5	2946.4	2713.3	2456.9	2288.7	2242.3
12.5°	5303.5	4833.7	3983.5	3394.2	3054.3	2752.7	2494.0	2244.6	1970.8	1799.2	1750.4
15°	5244.4	4734.0	3789.7	3108.8	2683.1	2301.5	1996.4	1718.0	1436.1	1296.9	1267.9
17.5°	5500.7	4912.6	3727.1	2854.8	2333.9	1863.0	1488.3	1177.4	947.7	878.1	872.3
20°	5992.6	5256.0	3719.0	2615.8	1989.4	1437.2	1037.0	810.8	709.9	690.2	691.4
22.5°	6682.8	5788.4	3818.7	2436.0	1672.7	1071.8	779.5	678.6	639.2	620.6	620.6
25°	7576.0	6521.5	4048.4	2304.9	1397.8	856.1	687.9	627.6	590.4	577.7	580.0
27.5°	8441.4	7235.0	4315.2	2201.7	1218.0	777.2	651.9	597.4	564.9	552.2	558.0
30°	9116.5	7868.3	4537.9	2061.3	1126.4	755.2	664.7	609.0	562.6	542.9	544.0
32.5°	9675.6	8422.8	4724.7	1960.4	1045.2	647.3	573.0	548.7	542.9	519.7	508.1
35°	10390.2	9027.2	4850.0	1962.7	1006.9	577.7	510.4	467.5	436.2	409.5	409.5
37.5°	11227.7	9720.8	4983.4	1989.4	993.0	537.1	488.4	445.4	416.4	390.9	386.3
40°	12055.9	10400.6	5105.2	2014.9	984.8	512.7	471.0	431.5	404.8	379.3	372.4
42.5°	12760.1	10959.7	5214.2	2027.7	957.0	510.4	458.2	422.2	396.7	368.9	361.9
45°	13280.9	11428.4	5331.4	2047.4	929.2	519.7	458.2	421.1	389.8	363.1	356.1
47.5°	13746.1	11978.2	5527.4	2047.4	895.5	502.3	473.3	422.2	388.6	360.8	355.0
50°	14369.0	12732.2	5898.6	1999.8	848.0	483.7	498.8	417.6	378.2	356.1	349.2
52.5°	15227.4	13698.5	6487.9	1917.5	774.9	447.8	495.3	415.3	367.7	344.5	336.4
55°	16242.4	14733.2	7130.6	1821.2	665.8	422.2	477.9	409.5	356.1	330.6	322.5
57.5°	17034.7	15445.5	7583.0	1672.7	570.7	408.3	423.4	403.7	342.2	315.5	308.6
60°	17350.2	15417.6	7707.1	1474.4	524.3	396.7	370.0	452.4	330.6	303.9	295.8
62.5°	17179.7	14705.4	7359.1	1335.2	513.9	381.6	346.8	418.8	321.3	295.8	284.2
65°	16392.0	13443.3	6436.9	1298.0	544.0	366.6	331.8	328.3	308.6	284.2	272.6
67.5°	14676.4	11557.1	5153.9	1301.5	582.3	351.5	316.7	300.4	291.2	271.4	261.0
70°	11953.9	9137.4	3841.9	1310.8	602.0	334.1	300.4	283.0	272.6	252.9	245.9
72.5°	8789.4	7042.4	2791.0	1250.5	605.5	314.4	278.4	263.3	252.9	232.0	226.2
75°	6013.5	5387.1	1936.0	1035.9	527.8	286.5	254.0	240.1	233.2	207.6	204.2
77.5°	4392.9	4043.8	1238.9	769.1	407.2	251.7	223.9	213.4	208.8	181.0	176.3
80°	3525.3	3199.3	774.9	526.6	298.1	211.1	187.9	182.1	177.5	149.6	146.2
82.5°	2445.3	2142.5	497.6	342.2	223.9	163.6	148.5	146.2	139.2	113.7	110.2
85°	1289.9	1163.5	315.5	233.2	162.4	112.5	103.2	103.2	99.8	75.4	73.1
87.5°	164.7	268.0	160.1	121.8	89.3	49.9	49.9	48.7	52.2	42.9	37.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4
2.5°	5761.7	5817.4	5764.1	5767.5	5826.7	6003.0	6083.1	6149.2	6219.9	6266.3	6287.2
5°	4176.0	4305.9	4350.0	4442.8	4579.7	4804.7	4894.1	4959.0	5001.9	5027.5	5037.9
7.5°	2855.9	2934.8	3023.0	3172.6	3470.7	3603.0	3662.1	3647.1	3598.3	3580.9	3563.5
10°	2153.0	2121.6	2105.4	2187.8	2429.1	2562.5	2604.2	2563.6	2536.9	2542.7	2571.7
12.5°	1668.1	1613.6	1547.4	1538.2	1697.1	1816.6	1843.2	1845.6	1894.3	1937.2	2001.0
15°	1215.7	1209.9	1177.4	1157.7	1248.2	1345.6	1357.2	1378.1	1422.2	1453.5	1509.2
17.5°	857.2	888.6	914.1	926.8	995.3	1064.9	1052.1	1041.7	1033.6	1033.6	1060.2
20°	691.4	712.2	744.7	781.8	851.4	900.2	868.8	827.1	796.9	787.6	791.1
22.5°	622.9	639.2	657.7	690.2	752.8	786.5	752.8	722.7	692.5	682.1	678.6
25°	588.1	609.0	626.4	650.8	697.2	720.4	687.9	665.8	647.3	634.5	625.2
27.5°	568.4	587.0	591.6	603.2	642.6	663.5	647.3	638.0	626.4	614.8	603.2
30°	547.5	544.0	535.9	537.1	568.4	589.3	588.1	590.4	589.3	585.8	583.5
32.5°	500.0	493.0	486.0	493.0	522.0	540.6	541.7	546.4	546.4	545.2	554.5
35°	416.4	429.2	437.3	458.2	493.0	509.2	502.3	490.7	469.8	457.0	455.9
37.5°	385.1	387.4	401.4	430.4	468.6	483.7	473.3	446.6	432.7	430.4	433.8
40°	370.0	372.4	380.5	407.2	445.4	460.5	451.2	431.5	418.8	417.6	423.4
42.5°	359.6	361.9	366.6	385.1	416.4	435.0	436.2	422.2	407.2	408.3	414.1
45°	353.8	355.0	353.8	363.1	392.1	414.1	423.4	414.1	401.4	403.7	410.6
47.5°	352.6	349.2	344.5	346.8	377.0	399.0	410.6	407.2	401.4	403.7	409.5
50°	348.0	339.9	334.1	332.9	363.1	386.3	396.7	396.7	399.0	403.7	409.5
52.5°	334.1	324.8	324.8	321.3	353.8	375.8	382.8	384.0	387.4	395.6	403.7
55°	316.7	313.2	316.7	310.9	346.8	367.7	371.2	373.5	375.8	382.8	394.4
57.5°	301.6	297.0	305.1	302.8	341.0	359.6	359.6	364.2	364.2	373.5	382.8
60°	293.5	284.2	287.7	290.0	332.9	352.6	350.3	355.0	357.3	365.4	372.4
62.5°	283.0	274.9	274.9	280.7	323.6	342.2	341.0	344.5	353.8	356.1	363.1
65°	270.3	266.8	263.3	270.3	314.4	330.6	331.8	336.4	344.5	346.8	352.6
67.5°	257.5	258.7	251.7	258.7	306.2	319.0	319.0	328.3	331.8	336.4	342.2
70°	243.6	244.8	239.0	247.1	300.4	306.2	305.1	317.8	320.2	323.6	329.4
72.5°	226.2	226.2	223.9	235.5	291.2	293.5	291.2	301.6	302.8	306.2	308.6
75°	207.6	207.6	205.3	221.6	285.4	279.6	272.6	280.7	283.0	285.4	285.4
77.5°	183.3	185.6	185.6	205.3	265.6	273.8	250.6	255.2	258.7	259.8	256.4
80°	153.1	158.9	161.2	186.8	222.7	252.9	223.9	227.4	228.5	228.5	223.9
82.5°	117.2	127.6	133.4	161.2	170.5	212.3	194.9	198.4	194.9	187.9	185.6
85°	81.2	95.1	102.1	123.0	128.8	163.6	162.4	162.4	155.4	146.2	145.0
87.5°	44.1	52.2	56.8	73.1	88.2	110.2	119.5	116.0	110.2	104.4	105.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4
2.5°	6396.3	6554.0	6805.8	6998.3	7192.0	7378.8	7580.6	7734.9	7866.0	7917.0	8072.5
5°	5143.5	5340.7	5578.5	6007.7	6311.6	6646.8	7034.3	7547.0	7744.2	8016.8	8463.4
7.5°	3636.6	3815.3	4198.1	4544.9	4975.3	5449.7	5972.9	6680.5	6939.2	7376.5	8103.8
10°	2715.6	2923.2	3230.6	3522.9	3902.3	4387.1	4988.0	5779.1	6093.5	6567.9	7405.5
12.5°	2187.8	2432.5	2758.5	3033.4	3326.9	3669.1	4252.6	5120.3	5541.3	5956.6	6803.4
15°	1680.8	1937.2	2240.0	2589.1	2912.8	3281.7	3893.0	4841.9	5326.7	5759.4	6482.1
17.5°	1163.5	1382.7	1764.4	2128.6	2542.7	3014.9	3793.2	4901.0	5479.9	5978.7	6537.8
20°	824.8	950.0	1263.2	1685.5	2201.7	2794.5	3774.7	5211.9	5964.7	6534.3	6895.1
22.5°	693.7	740.1	922.2	1309.6	1905.9	2629.7	3839.6	5648.1	6619.0	7346.3	7464.6
25°	632.2	660.0	755.2	1027.8	1642.6	2510.3	4058.9	6297.7	7428.7	8158.3	8137.4
27.5°	598.6	627.6	690.2	867.7	1444.2	2436.0	4278.1	7067.9	8354.4	9039.9	8780.1
30°	588.1	627.6	693.7	817.8	1302.7	2318.9	4457.9	7744.2	9066.6	9635.0	9072.4
32.5°	580.0	585.8	616.0	705.3	1168.1	2182.0	4579.7	8350.9	9763.8	10201.1	9493.5
35°	468.6	497.6	546.4	632.2	1089.2	2099.6	4579.7	8874.0	10450.5	10773.0	9894.8
37.5°	451.2	476.8	519.7	592.8	1045.2	2059.0	4488.1	9378.6	11152.3	11421.4	10225.4
40°	442.0	462.8	503.4	562.6	1026.6	2012.6	4354.7	9824.1	11837.9	12071.0	10534.0
42.5°	435.0	453.6	491.8	544.0	1002.2	1961.6	4246.8	10181.4	12432.9	12625.5	10828.6
45°	431.5	451.2	493.0	553.3	953.5	1894.3	4210.8	10567.6	12922.5	13088.3	11147.7
47.5°	431.5	454.7	498.8	573.0	895.5	1824.7	4323.3	11076.9	13385.3	13466.5	11523.5
50°	428.0	453.6	515.0	553.3	810.8	1736.5	4587.8	11718.4	13886.4	13895.7	11999.1
52.5°	421.1	451.2	554.5	541.7	713.4	1620.5	4945.1	12542.0	14627.7	14683.3	12743.8
55°	413.0	447.8	544.0	515.0	633.4	1482.5	5237.4	13543.1	15669.4	15823.6	13838.9
57.5°	402.5	443.1	526.6	477.9	581.2	1305.0	5343.0	14276.2	16396.7	16784.1	15073.1
60°	393.2	439.6	475.6	455.9	548.7	1155.4	5138.8	14131.2	16346.8	17182.0	16167.0
62.5°	384.0	443.1	433.8	442.0	533.6	1059.1	4605.2	12970.0	15519.7	16771.4	16977.8
65°	373.5	411.8	409.5	430.4	530.1	1020.8	3817.6	11228.9	13921.2	15473.3	17169.2
67.5°	359.6	380.5	392.1	415.3	541.7	987.2	3081.0	9262.6	11699.8	13528.0	16171.6
70°	344.5	361.9	374.7	396.7	534.8	972.1	2562.5	7304.6	9283.5	11087.3	14203.1
72.5°	324.8	339.9	351.5	372.4	527.8	964.0	2164.6	5882.4	6931.0	8236.0	11547.9
75°	301.6	315.5	323.6	344.5	505.8	882.8	1701.7	4977.6	5186.4	5729.3	9197.7
77.5°	274.9	285.4	292.3	315.5	447.8	734.3	1230.8	3839.6	4027.5	4159.8	7051.7
80°	243.6	254.0	257.5	279.6	371.2	574.2	802.7	2836.2	3012.5	3042.7	4605.2
82.5°	207.6	218.1	218.1	239.0	303.9	413.0	526.6	1943.0	1977.8	2079.9	3255.0
85°	167.0	175.2	175.2	185.6	235.5	308.6	361.9	975.6	965.1	1102.0	2820.0
87.5°	119.5	125.3	131.1	133.4	168.2	204.2	218.1	297.0	196.0	225.0	1810.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-7050

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4	7129.4
2.5°	8189.6	8255.8	8188.5	8139.8	7929.8	7757.0	7526.1	7407.8
5°	8803.3	8971.5	8914.6	8710.5	8272.0	7779.0	7218.7	6965.8
7.5°	8729.0	9120.0	9129.2	8747.6	8101.5	7375.3	6616.7	6257.1
10°	8151.4	8651.3	8794.0	8424.0	7738.4	6926.4	6056.4	5645.7
12.5°	7506.4	7995.9	8105.0	7977.4	7404.3	6588.8	5706.1	5303.5
15°	6978.6	7197.8	7327.8	7439.1	7117.8	6454.3	5686.3	5244.4
17.5°	6657.3	6632.9	6670.0	6863.8	6918.3	6608.5	5987.9	5500.7
20°	6541.3	6168.9	6159.6	6426.4	6824.3	6976.3	6577.2	5992.6
22.5°	6605.1	6001.9	5925.3	6242.0	6874.2	7506.4	7349.8	6682.8
25°	6825.5	6015.8	5954.3	6260.5	7055.2	8071.3	8183.8	7576.0
27.5°	7172.3	6103.9	6022.7	6337.1	7295.3	8545.8	9005.1	8441.4
30°	7501.8	6257.1	6156.1	6487.9	7514.5	8733.7	9508.6	9116.5
32.5°	7902.0	6543.6	6366.1	6765.2	7786.0	9033.0	9957.5	9675.6
35°	8294.0	6951.9	6731.5	7193.2	8088.7	9405.3	10470.2	10390.2
37.5°	8724.4	7485.5	7303.4	7746.5	8502.8	9756.8	11124.5	11227.7
40°	9183.8	8193.1	7977.4	8553.9	9145.5	10197.6	11807.7	12055.9
42.5°	9646.6	8978.4	8720.9	9305.6	9851.9	10632.6	12392.3	12760.1
45°	10176.7	9831.0	9709.2	10341.4	10530.5	11046.7	12823.9	13280.9
47.5°	10793.8	10798.5	10994.5	11247.4	11214.9	11515.4	13257.7	13746.1
50°	11514.2	12006.1	12438.7	12606.9	11920.2	12018.8	13859.7	14369.0
52.5°	12379.6	13450.3	13986.2	13876.0	12680.0	12633.6	14813.3	15227.4
55°	13461.9	14979.1	15511.6	15432.7	13553.5	13471.1	16001.1	16242.4
57.5°	14714.7	16460.5	16950.0	16595.0	14602.1	14389.9	16983.6	17034.7
60°	15815.5	17634.4	18063.6	17670.4	15660.1	15367.7	17597.3	17350.2
62.5°	16428.0	18032.3	18333.9	17910.5	16385.1	16409.4	17731.8	17179.7
65°	16154.2	17026.6	17124.0	17089.2	16198.3	17013.8	17248.1	16392.0
67.5°	14655.5	14483.8	14647.4	14873.6	14597.5	16218.0	15908.3	14676.4
70°	12015.3	11072.3	11398.2	11550.2	11675.5	13956.0	13807.5	11953.9
72.5°	9055.0	7757.0	8014.5	7983.2	8563.2	11194.1	10738.2	8789.4
75°	6416.0	5259.5	5291.9	5279.2	5975.2	8758.0	7775.5	6013.5
77.5°	4489.2	3810.6	3828.0	3899.9	4017.1	6605.1	5555.3	4392.9
80°	3086.8	2891.9	2988.2	2994.0	2784.0	4437.0	4104.1	3525.3
82.5°	2299.1	2010.3	1987.1	2020.7	2182.0	3594.9	3154.1	2445.3
85°	1882.7	1190.2	957.0	1199.4	1933.7	3560.1	2095.0	1289.9
87.5°	1060.2	564.9	255.2	473.3	771.4	2357.1	605.5	164.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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