

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: P269093

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269093
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-02-LED-E1-SLR-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 9298.5 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

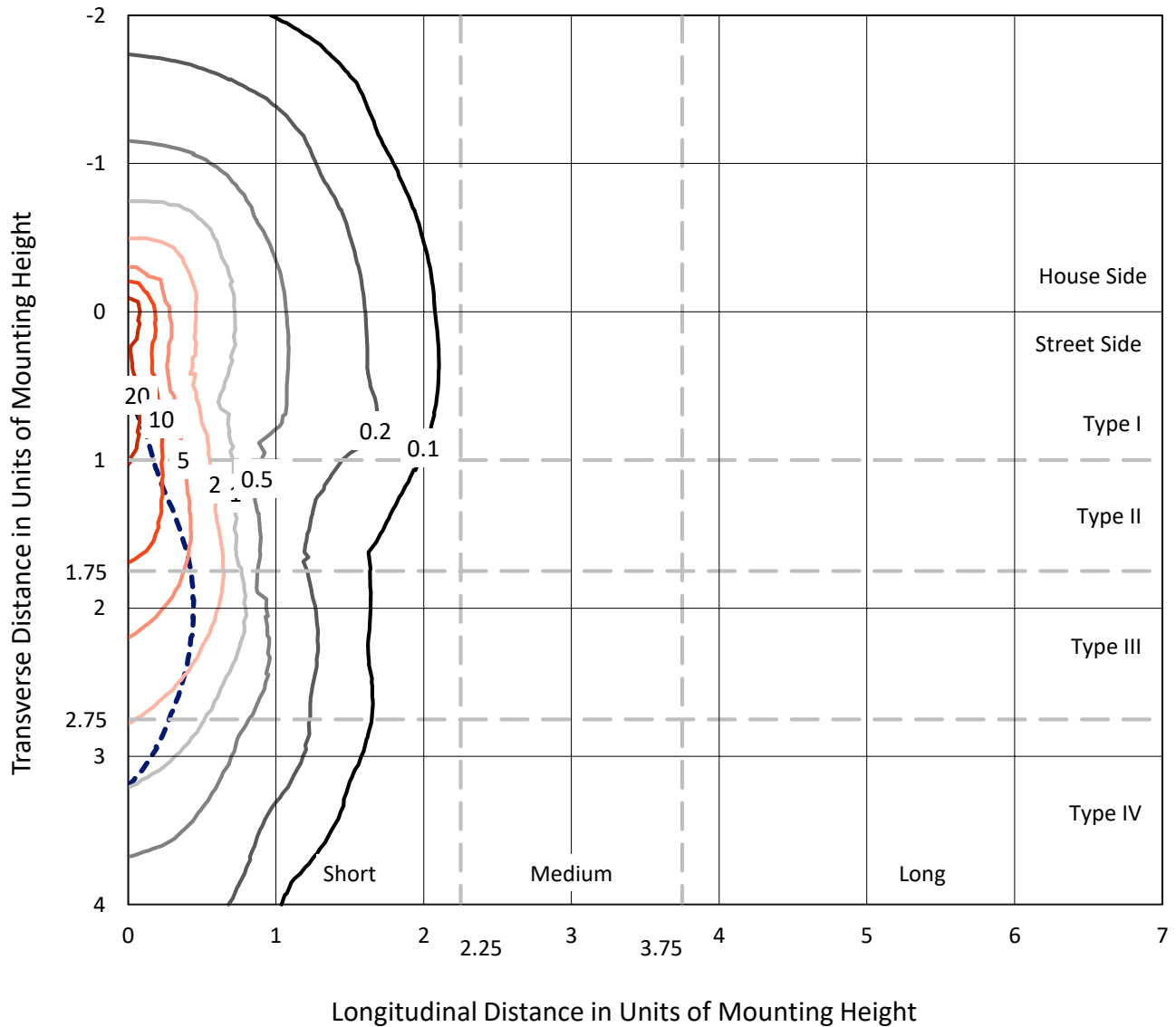
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

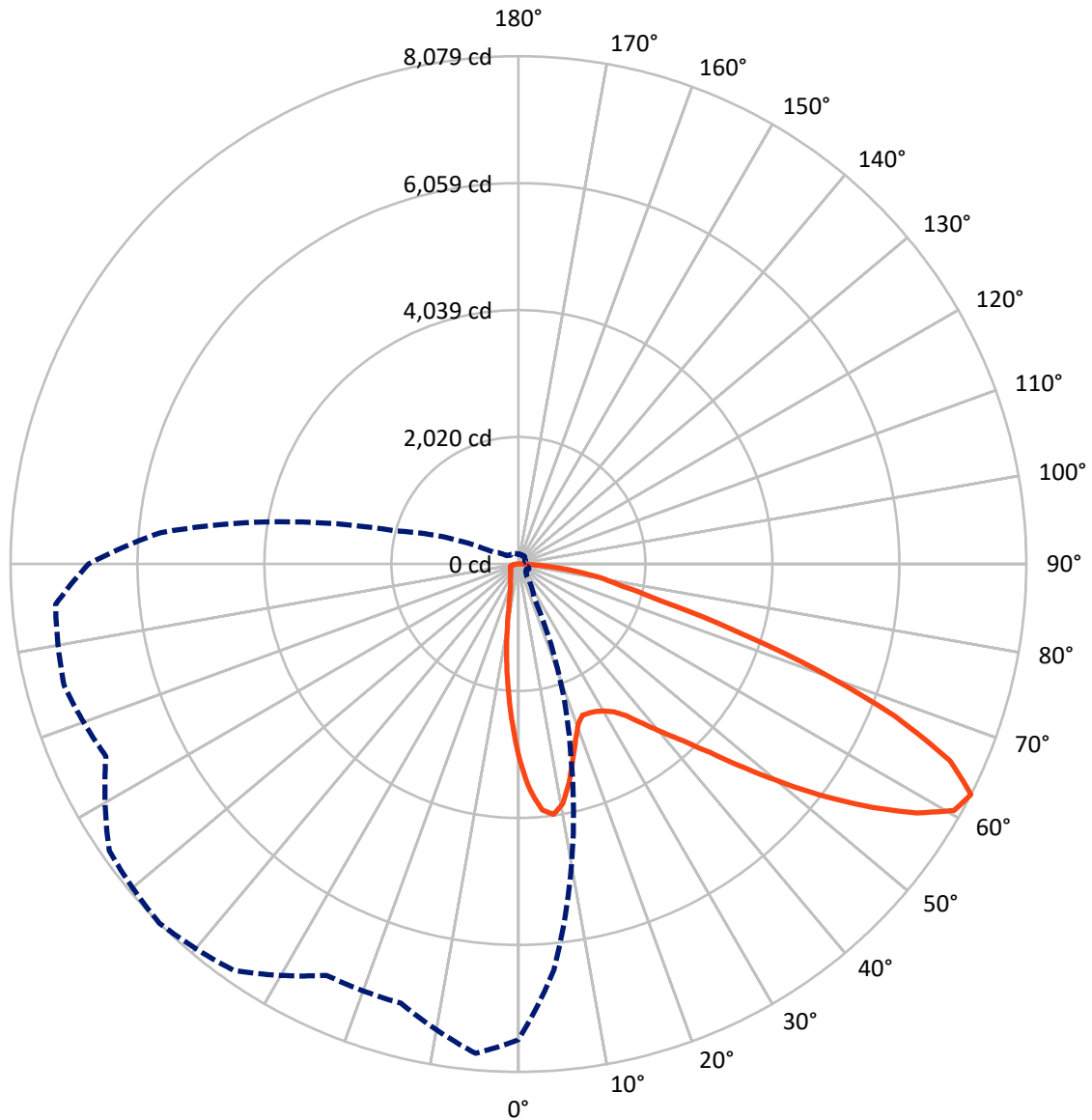
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.4 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	1538.8	0.0	1538.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7759.8	0.0	7759.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	9298.5	0.0	9298.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	2.5
10°-20°	419.4	4.5
20°-30°	611.4	6.6
30°-40°	941.7	10.1
40°-50°	1385.9	14.9
50°-60°	2032.8	21.9
60°-70°	2272.4	24.4
70°-80°	1112.5	12.0
80°-90°	293.7	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°	9298.5	100.0
0°-180°	9298.5	100.0



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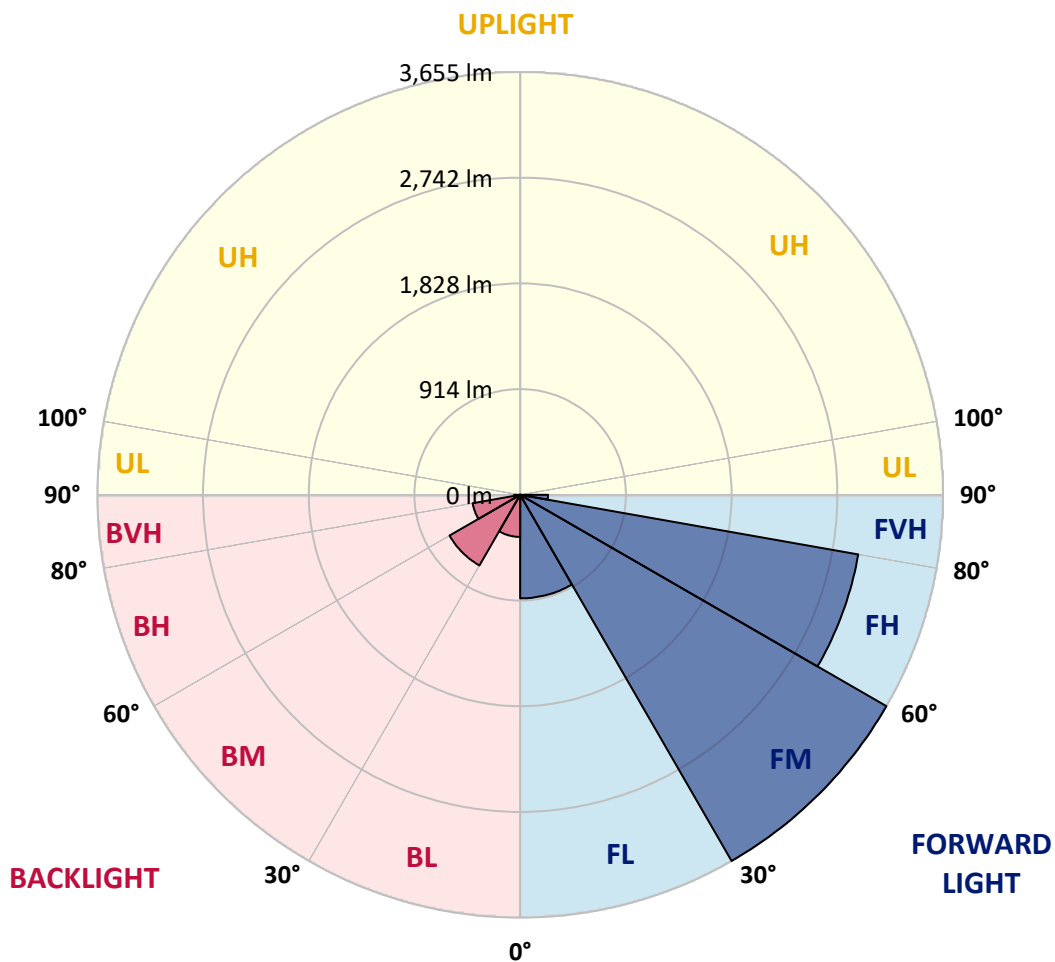
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	895.4	9.6			
FM (30°-60°)	3655.3	39.3			
FH (60°-80°)	2967.8	31.9			G2/5000
FVH (80°-90°)	241.2	2.6			G3/500
BL (0°-30°)	364.1	3.9	B1/500		
BM (30°-60°)	705.1	7.6	B1/1000		
BH (60°-80°)	417.2	4.5	B1/500		G1/500
BVH (80°-90°)	52.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6
2.5°	3264.3	3197.7	3087.4	2972.3	2902.3	2820.6	2756.7	2700.5	2587.9	2566.0	2586.0
5°	3069.5	2936.1	2728.1	2518.5	2378.9	2229.1	2112.6	2019.1	1876.5	1851.3	1881.6
7.5°	2757.2	2597.7	2322.7	2055.3	1858.1	1670.9	1545.3	1445.1	1333.7	1285.6	1288.6
10°	2487.8	2307.8	1982.7	1691.9	1530.4	1404.1	1298.3	1195.6	1082.6	1008.4	988.0
12.5°	2337.0	2130.1	1755.3	1495.7	1345.9	1213.0	1098.9	989.0	868.4	792.8	771.4
15°	2310.9	2086.0	1669.9	1369.8	1182.3	1014.1	879.7	757.0	632.8	571.5	558.7
17.5°	2423.8	2164.7	1642.3	1257.9	1028.4	821.0	655.9	518.9	417.6	386.9	384.4
20°	2640.6	2316.0	1638.8	1152.6	876.7	633.3	457.0	357.3	312.8	304.2	304.6
22.5°	2944.7	2550.6	1682.7	1073.5	737.1	472.2	343.5	299.0	281.7	273.4	273.4
25°	3338.3	2873.7	1783.9	1015.7	616.0	377.2	303.1	276.6	260.1	254.6	255.6
27.5°	3719.7	3188.1	1901.5	970.2	536.6	342.4	287.3	263.3	248.9	243.4	245.9
30°	4017.2	3467.2	1999.6	908.4	496.4	332.7	292.8	268.4	247.9	239.2	239.8
32.5°	4263.5	3711.4	2081.9	863.8	460.6	285.2	252.6	241.7	239.2	229.0	223.9
35°	4578.4	3977.9	2137.2	864.9	443.8	254.6	224.9	206.0	192.1	180.4	180.4
37.5°	4947.4	4283.5	2195.9	876.7	437.6	236.7	215.2	196.3	183.6	172.2	170.1
40°	5312.4	4583.1	2249.5	887.9	434.1	226.0	207.5	190.1	178.5	167.2	164.1
42.5°	5622.8	4829.4	2297.7	893.5	421.8	224.9	201.8	186.0	174.8	162.6	159.4
45°	5852.2	5035.9	2349.2	902.2	409.4	229.0	201.8	185.5	171.8	160.0	156.9
47.5°	6057.2	5278.3	2435.7	902.2	394.6	221.3	208.5	186.0	171.2	159.0	156.5
50°	6331.7	5610.5	2599.2	881.2	373.6	213.2	219.7	184.1	166.6	156.9	153.9
52.5°	6709.9	6036.3	2858.9	844.9	341.4	197.3	218.3	183.0	162.1	151.9	148.2
55°	7157.2	6492.2	3142.0	802.5	293.3	186.0	210.7	180.4	156.9	145.6	142.1
57.5°	7506.2	6806.0	3341.4	737.1	251.4	179.9	186.6	177.9	150.7	139.1	136.0
60°	7645.4	6793.7	3396.1	649.7	231.0	174.8	163.0	199.3	145.6	133.8	130.3
62.5°	7570.1	6480.0	3242.7	588.3	226.5	168.2	152.8	184.5	141.7	130.3	125.3
65°	7223.1	5923.8	2836.4	572.0	239.8	161.5	146.2	144.6	136.0	125.3	120.2
67.5°	6467.1	5092.6	2271.1	573.5	256.6	154.9	139.5	132.4	128.3	119.7	115.1
70°	5267.4	4026.4	1692.9	577.6	265.3	147.2	132.4	124.8	120.2	111.4	108.3
72.5°	3873.0	3103.3	1229.8	551.0	266.8	138.5	122.7	116.1	111.4	102.2	99.7
75°	2649.8	2373.9	853.1	456.5	232.7	126.2	112.0	105.8	102.8	91.4	90.0
77.5°	1935.8	1781.9	545.9	338.9	179.4	110.9	98.6	94.1	91.9	79.7	77.8
80°	1553.3	1409.8	341.4	232.0	131.3	93.1	82.9	80.3	78.2	65.9	64.4
82.5°	1077.4	944.1	219.2	150.7	98.6	72.0	65.4	64.4	61.4	50.0	48.6
85°	568.4	512.8	139.1	102.8	71.5	49.5	45.5	45.5	43.9	33.2	32.2
87.5°	72.7	118.0	70.5	53.7	39.3	22.0	22.0	21.5	22.9	19.0	16.3
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°	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6
2.5°	2538.9	2563.5	2539.9	2541.5	2567.5	2645.1	2680.5	2709.6	2740.8	2761.3	2770.5
5°	1840.2	1897.4	1916.9	1957.8	2018.0	2117.1	2156.6	2185.1	2204.1	2215.3	2219.9
7.5°	1258.4	1293.2	1332.0	1398.0	1529.4	1587.7	1613.7	1607.1	1585.6	1578.0	1570.2
10°	948.7	934.9	927.7	964.1	1070.4	1129.1	1147.6	1129.7	1117.9	1120.5	1133.2
12.5°	735.1	711.0	681.9	677.9	747.7	800.5	812.2	813.2	834.7	853.6	881.7
15°	535.7	533.1	518.9	510.1	550.0	592.9	598.0	607.3	626.7	640.5	665.0
17.5°	377.7	391.5	402.8	408.4	438.6	469.3	463.6	459.0	455.4	455.4	467.2
20°	304.6	313.9	328.2	344.5	375.2	396.6	382.9	364.4	351.1	347.0	348.6
22.5°	274.5	281.7	289.9	304.2	331.7	346.6	331.7	318.4	305.2	300.6	299.0
25°	259.2	268.4	276.0	286.7	307.2	317.5	303.1	293.3	285.2	279.6	275.5
27.5°	250.4	258.6	260.7	265.8	283.1	292.4	285.2	281.1	276.0	270.8	265.8
30°	241.3	239.8	236.2	236.7	250.4	259.7	259.2	260.1	259.7	258.2	257.2
32.5°	220.4	217.2	214.2	217.2	230.1	238.2	238.7	240.7	240.7	240.2	244.2
35°	183.6	189.2	192.6	201.8	217.2	224.3	221.3	216.2	207.0	201.4	201.0
37.5°	169.7	170.7	176.8	189.6	206.5	213.2	208.5	196.8	190.7	189.6	191.2
40°	163.0	164.1	167.7	179.4	196.3	202.9	198.9	190.1	184.5	184.1	186.6
42.5°	158.5	159.4	161.5	169.7	183.6	191.7	192.1	186.0	179.4	179.9	182.4
45°	155.9	156.5	155.9	160.0	172.7	182.4	186.6	182.4	176.8	177.9	181.0
47.5°	155.3	153.9	151.9	152.8	166.1	175.9	181.0	179.4	176.8	177.9	180.4
50°	153.3	149.7	147.2	146.8	160.0	170.1	174.8	174.8	175.9	177.9	180.4
52.5°	147.2	143.1	143.1	141.7	155.9	165.6	168.7	169.2	170.7	174.4	177.9
55°	139.5	138.0	139.5	137.0	152.8	162.1	163.6	164.6	165.6	168.7	173.8
57.5°	132.9	130.9	134.4	133.4	150.2	158.5	158.5	160.4	160.4	164.6	168.7
60°	129.4	125.3	126.8	127.7	146.8	155.3	154.4	156.5	157.5	161.1	164.1
62.5°	124.8	121.1	121.1	123.6	142.7	150.7	150.2	151.9	155.9	156.9	160.0
65°	119.0	117.6	116.1	119.0	138.5	145.6	146.2	148.2	151.9	152.8	155.3
67.5°	113.5	113.9	110.9	113.9	134.9	140.6	140.6	144.6	146.2	148.2	150.7
70°	107.3	107.8	105.3	108.9	132.4	134.9	134.4	140.0	141.0	142.7	145.2
72.5°	99.7	99.7	98.6	103.8	128.3	129.4	128.3	132.9	133.4	134.9	136.0
75°	91.4	91.4	90.5	97.6	125.8	123.2	120.2	123.6	124.8	125.8	125.8
77.5°	80.8	81.7	81.7	90.5	117.0	120.6	110.4	112.5	113.9	114.5	112.9
80°	67.5	70.0	71.1	82.3	98.2	111.4	98.6	100.3	100.7	100.7	98.6
82.5°	51.7	56.2	58.7	71.1	75.2	93.6	85.9	87.5	85.9	82.9	81.7
85°	35.8	42.0	44.9	54.2	56.8	72.0	71.5	71.5	68.5	64.4	63.9
87.5°	19.5	22.9	25.1	32.2	38.8	48.6	52.6	51.2	48.6	46.1	46.5
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°	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6
2.5°	2818.5	2888.1	2998.9	3083.8	3169.2	3251.4	3340.3	3408.3	3466.1	3488.6	3557.1
5°	2266.5	2353.4	2458.1	2647.2	2781.2	2929.0	3099.6	3325.5	3412.5	3532.6	3729.4
7.5°	1602.4	1681.2	1849.9	2002.7	2192.4	2401.3	2631.9	2943.7	3057.7	3250.4	3570.9
10°	1196.6	1288.1	1423.5	1552.5	1719.5	1933.2	2198.0	2546.5	2685.2	2894.2	3263.3
12.5°	964.1	1071.9	1215.5	1336.7	1466.0	1616.8	1873.9	2256.3	2441.9	2624.8	2998.0
15°	740.7	853.6	987.1	1140.8	1283.5	1446.0	1715.5	2133.6	2347.2	2537.9	2856.3
17.5°	512.8	609.3	777.5	938.0	1120.5	1328.6	1671.4	2159.6	2414.7	2634.5	2880.9
20°	363.5	418.6	556.6	742.7	970.2	1231.3	1663.3	2296.5	2628.4	2879.3	3038.2
22.5°	305.7	326.2	406.4	577.2	839.8	1158.9	1691.9	2488.8	2916.6	3237.1	3289.2
25°	278.6	290.8	332.7	452.8	723.9	1106.2	1788.5	2775.0	3273.5	3594.9	3585.8
27.5°	263.7	276.6	304.2	382.4	636.4	1073.5	1885.2	3114.5	3681.3	3983.4	3868.9
30°	259.2	276.6	305.7	360.4	574.0	1021.8	1964.4	3412.5	3995.2	4245.7	3997.7
32.5°	255.6	258.2	271.4	310.8	514.6	961.5	2018.0	3679.7	4302.4	4495.1	4183.2
35°	206.5	219.2	240.7	278.6	480.0	925.2	2018.0	3910.3	4605.0	4747.2	4360.2
37.5°	198.9	210.1	229.0	261.1	460.6	907.3	1977.7	4132.7	4914.3	5032.8	4505.8
40°	194.8	203.9	221.8	247.9	452.3	886.8	1918.9	4328.9	5216.3	5319.0	4641.8
42.5°	191.7	199.9	216.8	239.8	441.6	864.3	1871.3	4486.3	5478.6	5563.5	4771.6
45°	190.1	198.9	217.2	243.8	420.1	834.7	1855.4	4656.6	5694.3	5767.4	4912.2
47.5°	190.1	200.4	219.7	252.6	394.6	804.1	1905.0	4881.0	5898.2	5933.9	5077.8
50°	188.6	199.9	226.9	243.8	357.3	765.1	2021.6	5163.6	6119.1	6123.0	5287.3
52.5°	185.5	198.9	244.2	238.7	314.3	714.2	2179.1	5526.6	6445.7	6470.2	5615.6
55°	181.9	197.3	239.8	226.9	279.2	653.2	2307.8	5967.7	6904.6	6972.6	6098.1
57.5°	177.3	195.2	232.0	210.7	256.0	575.0	2354.4	6290.8	7225.2	7395.8	6642.0
60°	173.4	193.8	209.6	201.0	241.7	509.1	2264.4	6227.0	7203.1	7571.3	7124.0
62.5°	169.2	195.2	191.2	194.8	235.1	466.7	2029.4	5715.1	6838.7	7390.3	7481.3
65°	164.6	181.5	180.4	189.6	233.6	449.8	1682.2	4948.0	6134.3	6818.2	7565.5
67.5°	158.5	167.7	172.7	183.0	238.7	435.0	1357.6	4081.5	5155.6	5961.2	7126.1
70°	151.9	159.4	165.1	174.8	235.6	428.3	1129.1	3218.7	4090.8	4885.6	6258.6
72.5°	143.1	149.7	154.9	164.1	232.7	424.8	953.8	2592.1	3054.1	3629.2	5088.4
75°	132.9	139.1	142.7	151.9	222.9	389.0	749.8	2193.3	2285.4	2524.5	4053.0
77.5°	121.1	125.8	128.7	139.1	197.3	323.6	542.3	1691.9	1774.7	1833.0	3107.2
80°	107.3	112.0	113.5	123.2	163.6	253.1	353.8	1249.8	1327.4	1340.8	2029.4
82.5°	91.4	96.1	96.1	105.3	133.8	181.9	232.0	856.2	871.5	916.5	1434.4
85°	73.7	77.2	77.2	81.7	103.8	136.0	159.4	429.8	425.3	485.7	1242.6
87.5°	52.6	55.2	57.9	58.7	74.1	90.0	96.1	130.9	86.3	99.2	798.0
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6	3141.6
2.5°	3608.8	3637.9	3608.2	3586.8	3494.2	3418.1	3316.4	3264.3
5°	3879.2	3953.4	3928.2	3838.3	3645.1	3427.8	3180.9	3069.5
7.5°	3846.5	4018.7	4022.8	3854.5	3570.0	3249.9	2915.5	2757.2
10°	3592.0	3812.1	3875.1	3711.9	3409.8	3052.1	2668.8	2487.8
12.5°	3307.6	3523.4	3571.4	3515.2	3262.7	2903.3	2514.4	2337.0
15°	3075.1	3171.7	3229.0	3278.1	3136.4	2844.0	2505.7	2310.9
17.5°	2933.5	2922.7	2939.2	3024.6	3048.5	2912.0	2638.6	2423.8
20°	2882.4	2718.4	2714.1	2831.7	3007.2	3074.1	2898.2	2640.6
22.5°	2910.5	2644.7	2611.0	2750.5	3029.2	3307.6	3238.7	2944.7
25°	3007.6	2650.9	2623.8	2758.7	3108.9	3556.6	3606.2	3338.3
27.5°	3160.4	2689.6	2654.0	2792.4	3214.7	3765.6	3968.2	3719.7
30°	3305.7	2757.2	2712.7	2858.9	3311.2	3848.5	4190.0	4017.2
32.5°	3482.0	2883.4	2805.1	2981.0	3430.8	3980.4	4387.7	4263.5
35°	3654.8	3063.3	2966.3	3169.7	3564.2	4144.4	4613.6	4578.4
37.5°	3844.3	3298.4	3218.2	3413.5	3746.8	4299.3	4902.1	4947.4
40°	4046.9	3610.3	3515.2	3769.3	4029.9	4493.5	5203.1	5312.4
42.5°	4250.8	3956.3	3842.9	4100.5	4341.1	4685.2	5460.6	5622.8
45°	4484.3	4332.0	4278.4	4556.9	4640.3	4867.7	5650.8	5852.2
47.5°	4756.3	4758.3	4844.6	4956.2	4941.8	5074.3	5841.9	6057.2
50°	5073.6	5290.5	5481.1	5555.2	5252.6	5296.0	6107.2	6331.7
52.5°	5455.0	5926.8	6163.0	6114.5	5587.4	5566.9	6527.4	6709.9
55°	5932.0	6600.6	6835.2	6800.3	5972.3	5936.0	7050.8	7157.2
57.5°	6484.0	7253.3	7469.0	7312.6	6434.4	6340.9	7483.8	7506.2
60°	6969.1	7770.6	7959.7	7786.4	6900.6	6771.8	7754.2	7645.4
62.5°	7238.9	7945.9	8078.7	7892.1	7220.0	7230.7	7813.5	7570.1
65°	7118.3	7502.7	7545.7	7530.3	7137.8	7497.2	7600.4	7223.1
67.5°	6457.9	6382.3	6454.3	6554.0	6432.4	7146.5	7010.0	6467.1
70°	5294.5	4879.0	5022.7	5089.5	5144.8	6149.6	6084.3	5267.4
72.5°	3990.1	3418.1	3531.5	3517.8	3773.3	4932.7	4731.7	3873.0
75°	2827.1	2317.5	2331.9	2326.3	2632.9	3859.2	3426.2	2649.8
77.5°	1978.2	1679.1	1686.7	1718.5	1770.1	2910.5	2447.9	1935.8
80°	1360.2	1274.3	1316.7	1319.3	1226.7	1955.3	1808.5	1553.3
82.5°	1013.1	885.8	875.6	890.4	961.5	1584.2	1389.9	1077.4
85°	829.7	524.4	421.8	528.6	852.1	1568.7	923.2	568.4
87.5°	467.2	248.9	112.5	208.5	339.9	1038.7	266.8	72.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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