

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: P533594

Luminaire Tested: **GALN-SA9A-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28763 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

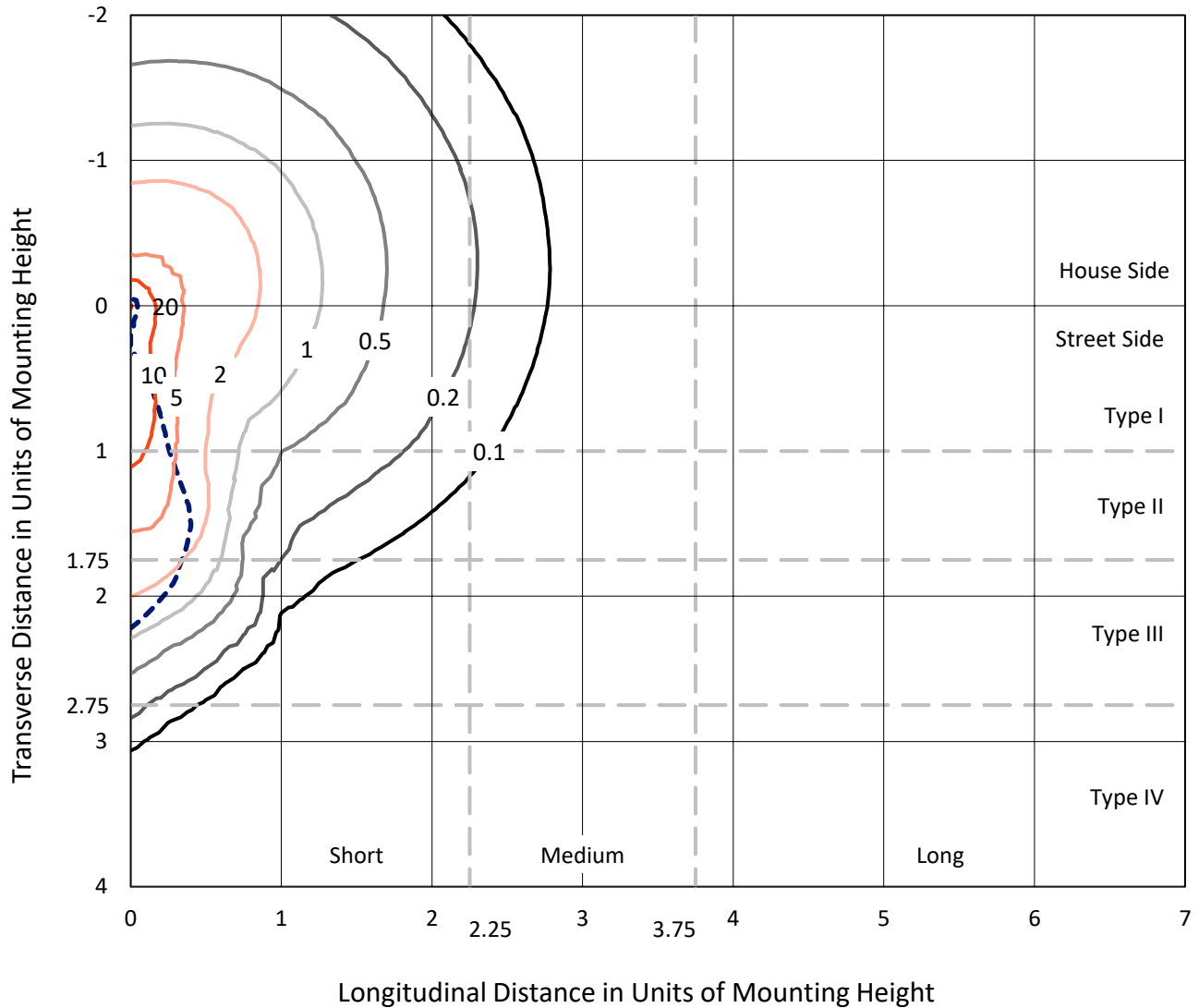
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

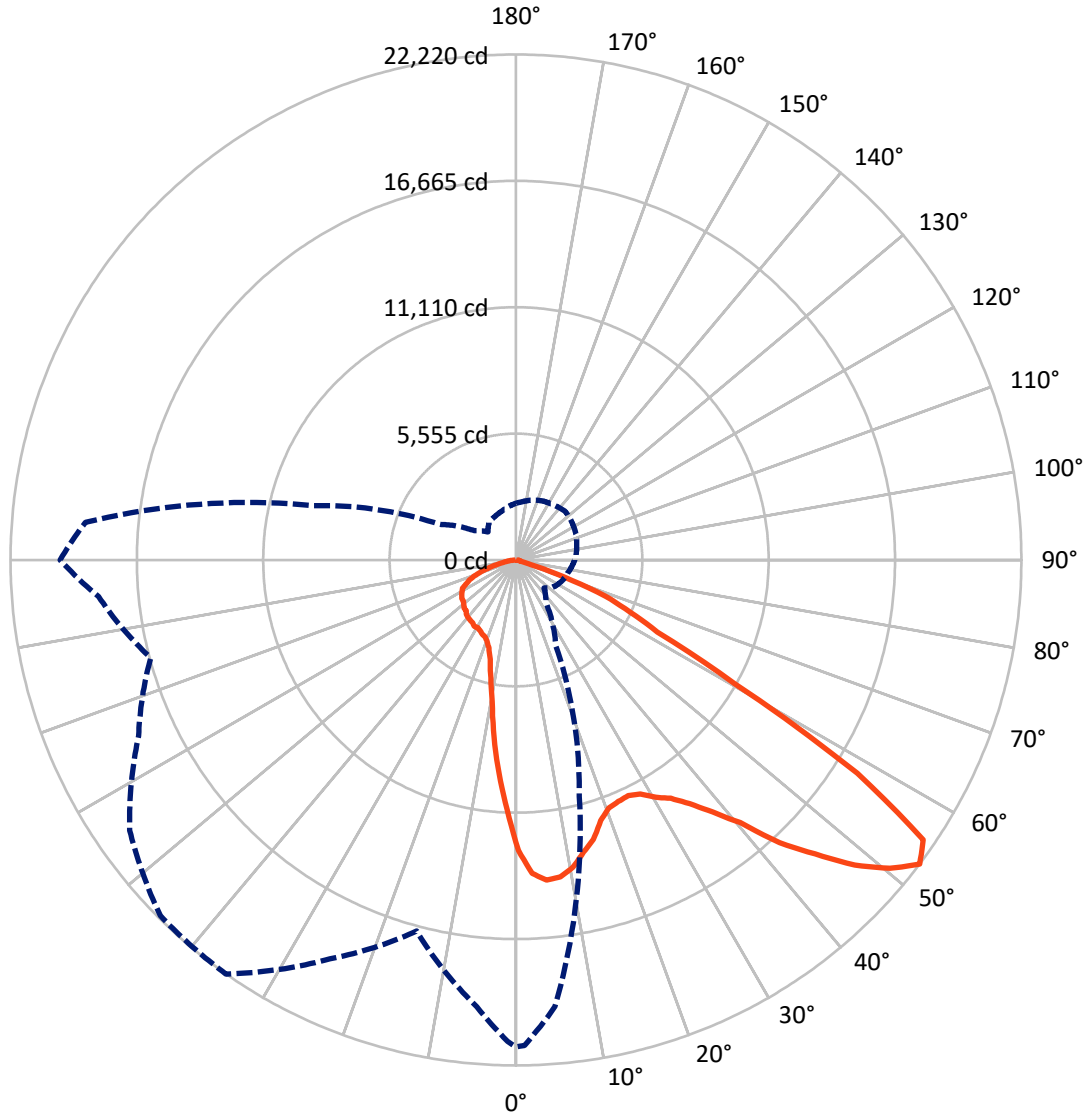
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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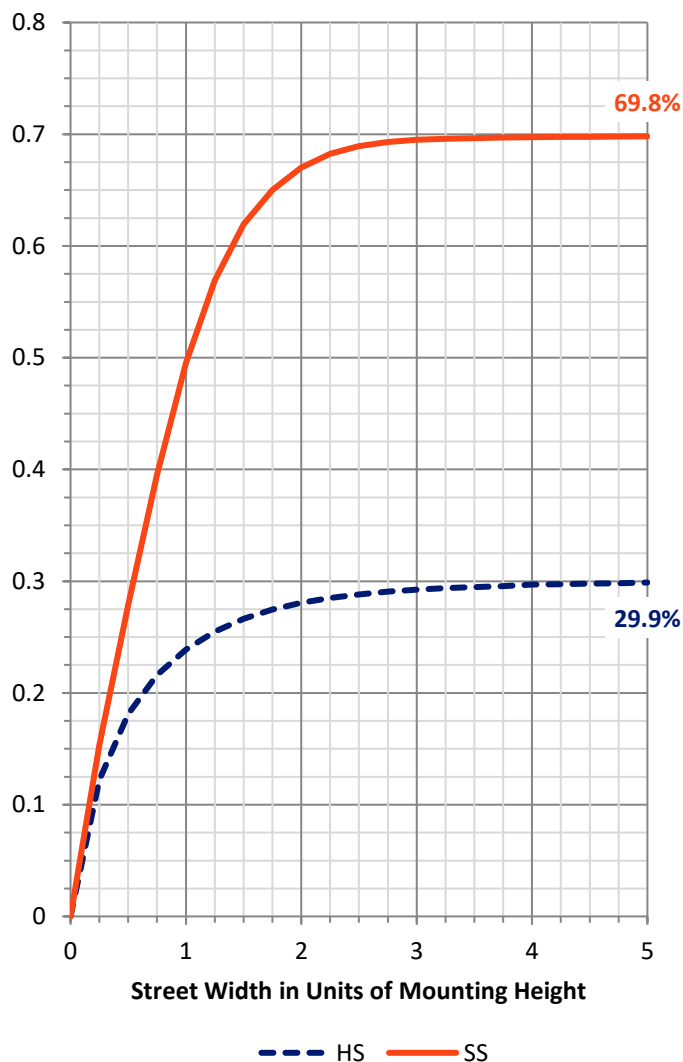
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8670.8	0.0	8670.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	20092.2	0.0	20092.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	28763.0	0.0	28763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	973.9	3.4
10°-20°	2111.2	7.3
20°-30°	3189.9	11.1
30°-40°	4609.5	16.0
40°-50°	6134.4	21.3
50°-60°	6861.5	23.9
60°-70°	3867.1	13.4
70°-80°	862.0	3.0
80°-90°	153.5	0.5
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°	28763.0	100.0
0°-180°	28763.0	100.0

Coefficient of Utilization



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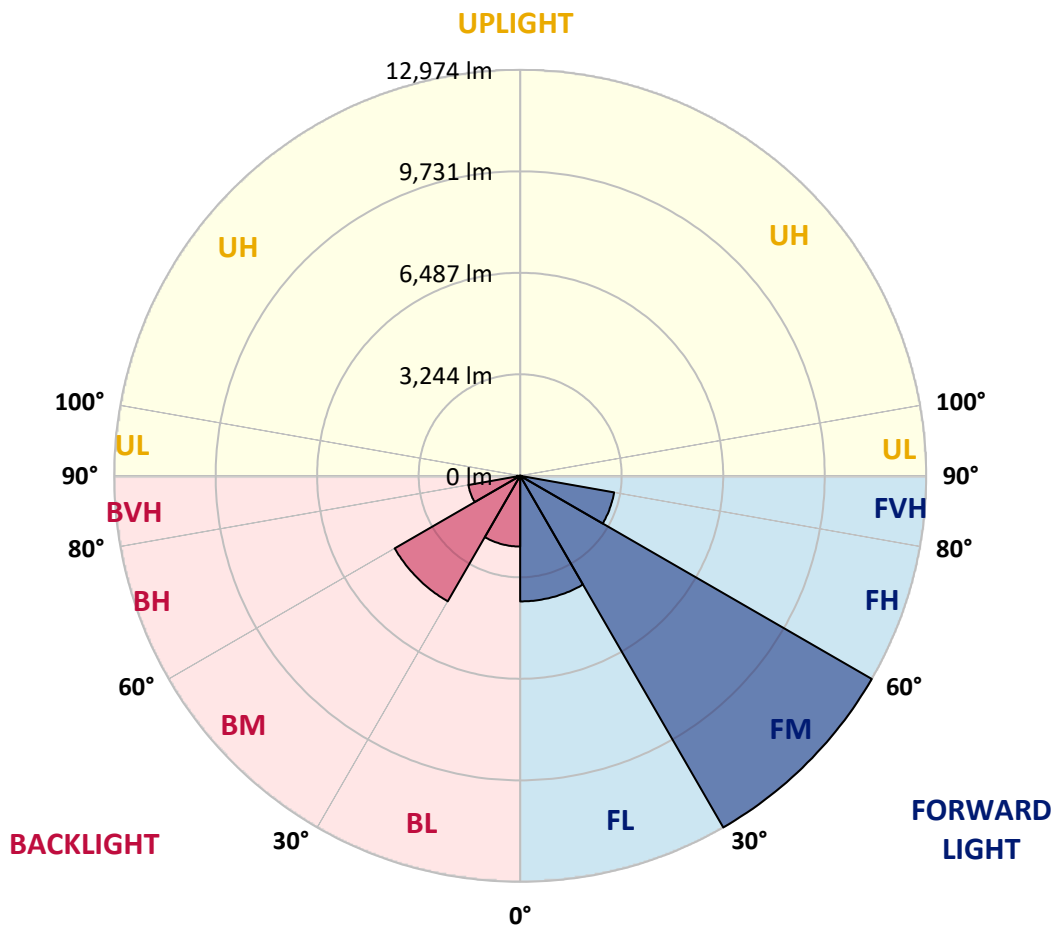
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4013.8	14.0			
FM (30°-60°)	12974.3	45.1			
FH (60°-80°)	3048.5	10.6			G2/5000
FVH (80°-90°)	55.6	0.2			G1/100
BL (0°-30°)	2261.1	7.9	B3/2500		
BM (30°-60°)	4631.1	16.1	B3/5000		
BH (60°-80°)	1680.7	5.8	B3/2500		G3/2500
BVH (80°-90°)	97.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2
2.5°	12977.8	13186.3	12961.1	12560.9	12277.4	12019.0	11748.0	11693.8	11339.4	11276.9	11018.4
5°	12239.9	12194.1	11918.9	11393.6	10814.1	10288.9	9901.2	9526.0	9271.7	8975.7	8954.8
7.5°	11343.6	11076.8	10918.4	10122.1	9405.1	8579.6	8225.3	7654.1	7474.9	7208.0	7070.5
10°	10543.2	10347.2	9976.2	9179.9	8179.4	7633.3	7253.9	6945.4	6737.0	6461.8	6115.8
12.5°	10147.1	10067.9	9651.0	8417.0	7675.0	7091.3	6824.5	6524.3	6170.0	5728.1	5557.2
15°	10218.0	9951.2	9634.3	8271.1	7245.6	6682.8	6257.5	5882.3	5427.9	5006.9	4760.9
17.5°	10747.4	10543.2	9909.5	8362.8	7083.0	6270.0	5498.8	4944.3	4535.8	4156.4	3985.5
20°	11789.7	11493.7	10780.8	8479.6	6732.8	5694.7	4810.9	4127.2	3689.5	3489.4	3431.0
22.5°	12944.5	12769.4	11631.3	8742.2	6453.5	5161.1	4081.4	3397.7	3235.1	3180.9	3289.3
25°	14349.4	13895.0	12952.8	9171.6	6236.7	4706.7	3464.4	3085.0	3001.6	3055.8	3180.9
27.5°	15416.6	15295.7	13878.3	9576.0	5940.7	4160.6	3118.3	2868.2	2893.2	2947.4	3064.1
30°	16684.0	16071.1	14774.6	9855.3	5673.9	3785.4	2876.5	2809.8	2834.9	2926.6	2984.9
32.5°	17446.9	17217.6	15337.4	10276.4	5365.4	3460.2	2688.9	2626.4	2663.9	2801.5	2939.1
35°	18418.2	17963.8	16033.6	10384.7	5148.6	3331.0	2555.5	2509.7	2597.2	2693.1	2847.4
37.5°	19552.2	19239.5	16996.6	10309.7	5031.9	3197.6	2443.0	2422.1	2484.7	2618.1	2797.3
40°	20223.4	20127.5	17501.1	10355.6	4848.4	3080.8	2313.7	2338.8	2468.0	2572.2	2747.3
42.5°	20869.6	20244.2	18247.3	10338.9	4731.7	2922.4	2326.3	2297.1	2397.1	2518.0	2684.8
45°	21011.3	20390.1	18422.4	10222.2	4590.0	2768.2	2230.4	2242.9	2363.8	2513.9	2622.2
47.5°	20919.6	20461.0	18747.6	10188.8	4456.6	2659.8	2088.6	2238.7	2309.6	2430.5	2584.7
50°	20857.0	20832.0	19022.7	10347.2	4277.3	2488.8	1917.7	2184.5	2255.4	2376.3	2543.0
52.5°	21407.3	21353.1	19710.6	10764.1	4135.6	2305.4	1742.6	2046.9	2217.9	2334.6	2497.2
55°	21740.9	21503.2	20890.4	11276.9	3897.9	2063.6	1621.7	1876.0	2126.1	2230.4	2397.1
57.5°	19556.3	19393.8	18897.7	10526.5	3497.7	1746.8	1471.6	1700.9	2001.1	2163.7	2334.6
60°	16271.2	16016.9	14745.4	8946.5	2580.6	1359.1	1379.9	1563.3	1967.7	2030.3	2230.4
62.5°	15341.6	14712.1	12982.0	7199.7	1980.2	1167.3	1238.2	1438.3	1792.6	1896.9	2097.0
65°	12173.2	11706.3	9288.3	5198.6	1325.7	1013.0	1129.8	1296.5	1546.7	1750.9	1934.4
67.5°	7620.8	7174.7	4956.8	2459.7	925.5	867.1	1008.9	1184.0	1388.2	1571.7	1776.0
70°	3981.3	3493.5	2288.7	888.0	637.8	708.7	842.1	1008.9	1209.0	1359.1	1517.5
72.5°	1484.1	1204.8	746.2	383.5	441.9	542.0	683.7	804.6	946.3	1129.8	1217.3
75°	229.3	195.9	191.8	233.5	300.2	391.9	487.8	608.7	733.7	850.5	908.8
77.5°	108.4	104.2	116.7	154.2	200.1	279.3	354.4	471.1	571.1	646.2	679.5
80°	70.9	66.7	75.0	104.2	150.1	208.4	283.5	362.7	454.4	516.9	508.6
82.5°	41.7	45.9	45.9	70.9	104.2	150.1	204.3	275.1	337.7	391.9	358.5
85°	25.0	20.8	20.8	41.7	70.9	120.9	170.9	116.7	120.9	120.9	137.6
87.5°	8.3	8.3	8.3	4.2	8.3	8.3	12.5	20.8	25.0	29.2	37.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2
2.5°	11010.1	11139.3	11093.5	10930.9	11055.9	11076.8	10993.4	11281.1	11335.3	11247.7	11272.7
5°	8925.6	8959.0	9034.0	9192.4	9305.0	9438.4	9438.4	9446.7	9334.2	9617.7	9534.3
7.5°	6953.7	6974.6	7062.1	7399.8	7495.7	7750.0	7858.4	7783.4	7558.2	7462.3	7541.6
10°	6003.2	5882.3	5853.1	5894.8	6111.6	6220.0	6311.7	6286.7	6249.2	6174.2	6090.8
12.5°	5369.6	5282.0	5211.1	5111.1	5123.6	5227.8	5298.7	5240.3	5257.0	5273.7	5298.7
15°	4681.7	4619.2	4581.6	4431.5	4414.9	4485.7	4510.8	4544.1	4606.6	4610.8	4581.6
17.5°	3952.1	3897.9	3981.3	4064.7	4006.3	4010.5	4056.3	4085.5	4068.9	3993.8	3956.3
20°	3451.9	3510.2	3593.6	3672.8	3735.3	3772.9	3789.5	3743.7	3689.5	3535.2	3531.1
22.5°	3305.9	3381.0	3451.9	3572.8	3631.1	3727.0	3639.5	3535.2	3460.2	3385.2	3297.6
25°	3197.6	3260.1	3401.8	3447.7	3560.2	3639.5	3576.9	3472.7	3343.5	3235.1	3168.4
27.5°	3118.3	3189.2	3280.9	3406.0	3493.5	3539.4	3476.9	3435.2	3301.8	3172.5	3076.7
30°	3068.3	3143.4	3310.1	3414.3	3489.4	3526.9	3418.5	3368.5	3272.6	3164.2	3080.8
32.5°	3035.0	3101.7	3243.4	3376.8	3426.8	3426.8	3443.5	3385.2	3251.7	3068.3	2997.4
35°	2926.6	3018.3	3135.0	3289.3	3381.0	3435.2	3351.8	3285.1	3197.6	3010.0	2880.7
37.5°	2864.0	2926.6	3076.7	3222.6	3301.8	3360.1	3326.8	3210.1	3093.3	2939.1	2834.9
40°	2797.3	2897.4	3030.8	3168.4	3255.9	3314.3	3289.3	3151.7	3010.0	2864.0	2793.2
42.5°	2751.5	2818.2	2955.8	3110.0	3214.2	3326.8	3251.7	3080.8	2980.8	2780.7	2701.5
45°	2714.0	2822.4	2968.3	3030.8	3139.2	3255.9	3122.5	3018.3	2901.6	2755.6	2688.9
47.5°	2668.1	2768.2	2864.0	3030.8	3080.8	3135.0	3110.0	2943.2	2843.2	2684.8	2638.9
50°	2651.4	2688.9	2864.0	2955.8	3026.6	3080.8	3014.1	2889.1	2793.2	2630.6	2530.5
52.5°	2584.7	2655.6	2768.2	2889.1	2976.6	3043.3	2934.9	2855.7	2726.5	2555.5	2493.0
55°	2501.3	2543.0	2743.1	2868.2	2914.1	2959.9	2918.2	2789.0	2655.6	2480.5	2418.0
57.5°	2393.0	2488.8	2651.4	2826.5	2884.9	2909.9	2843.2	2739.0	2572.2	2418.0	2317.9
60°	2280.4	2380.4	2559.7	2701.5	2759.8	2851.5	2751.5	2688.9	2497.2	2326.3	2217.9
62.5°	2167.8	2280.4	2413.8	2593.1	2643.1	2680.6	2655.6	2568.0	2413.8	2222.0	2088.6
65°	2034.4	2117.8	2284.6	2376.3	2409.6	2497.2	2409.6	2376.3	2238.7	2055.3	1942.7
67.5°	1834.3	1905.2	2051.1	2138.6	2163.7	2201.2	2197.0	2159.5	2005.2	1880.2	1780.1
70°	1605.0	1667.6	1759.3	1863.5	1876.0	1921.9	1880.2	1871.8	1771.8	1600.9	1546.7
72.5°	1288.2	1346.6	1467.5	1513.3	1517.5	1534.2	1513.3	1484.1	1459.1	1279.9	1225.7
75°	988.0	1021.4	1079.7	1121.4	1121.4	1142.3	1129.8	1100.6	1033.9	921.3	867.1
77.5°	687.9	721.2	796.3	821.3	817.1	825.4	787.9	758.7	658.7	600.3	554.5
80°	500.3	521.1	558.6	575.3	579.5	592.0	546.1	521.1	462.7	396.0	375.2
82.5°	362.7	375.2	379.4	400.2	400.2	379.4	366.9	341.9	300.2	258.5	241.8
85°	150.1	154.2	158.4	183.4	187.6	225.1	208.4	195.9	170.9	145.9	133.4
87.5°	37.5	41.7	54.2	45.9	54.2	54.2	58.4	66.7	66.7	54.2	54.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2
2.5°	11368.6	11402.0	11827.2	11881.4	12089.8	12302.4	12731.8	13040.3	13290.5	13453.1	13498.9
5°	9621.8	9834.5	10030.4	10347.2	10634.9	11043.4	11514.5	12098.2	12831.9	13207.1	13357.2
7.5°	7533.2	7783.4	8066.8	8375.3	8796.4	9530.1	10159.6	10835.0	11773.0	12160.7	12748.5
10°	6149.1	6428.5	6803.7	7041.3	7549.9	8250.3	8984.0	9763.6	10659.9	11218.5	11898.1
12.5°	5436.3	5665.5	6011.6	6511.8	6891.2	7345.6	7891.7	8875.6	10159.6	10689.1	11156.0
15°	4648.3	4902.6	5302.9	5857.3	6311.7	6853.7	7466.5	8537.9	9905.3	10722.4	11118.5
17.5°	3998.0	4181.4	4602.5	5081.9	5603.0	6195.0	7074.6	8521.2	10172.1	11218.5	11864.7
20°	3547.7	3572.8	3802.0	4210.6	4919.3	5690.6	6832.8	8437.9	11026.8	12073.2	12890.3
22.5°	3264.3	3239.2	3243.4	3589.4	4085.5	5194.5	6453.5	8721.4	11998.1	13432.2	13982.5
25°	3122.5	3055.8	3014.1	3089.2	3539.4	4606.6	6165.8	9096.6	13044.5	14553.7	15229.0
27.5°	3047.5	2930.7	2847.4	2859.9	3189.2	4310.7	5986.6	9259.1	14082.6	16117.0	16354.6
30°	3018.3	2872.4	2751.5	2709.8	2926.6	3897.9	5603.0	9538.5	15012.2	16975.8	17180.1
32.5°	2914.1	2734.8	2618.1	2580.6	2668.1	3535.2	5327.9	9738.6	15833.5	17909.6	17838.8
35°	2793.2	2643.1	2497.2	2426.3	2488.8	3301.8	5106.9	9642.7	16800.7	18635.0	18597.5
37.5°	2780.7	2584.7	2463.8	2347.1	2342.9	3014.1	4806.8	9734.4	17417.7	19935.7	19422.9
40°	2672.3	2547.2	2388.8	2292.9	2238.7	2868.2	4514.9	9517.6	18322.4	20461.0	19956.6
42.5°	2676.4	2488.8	2351.3	2238.7	2184.5	2655.6	4314.8	9459.3	18639.2	21315.6	20206.7
45°	2609.7	2426.3	2309.6	2176.2	2147.0	2493.0	4123.0	9188.3	19197.8	21357.3	19894.0
47.5°	2543.0	2380.4	2255.4	2097.0	2030.3	2434.6	3973.0	8963.2	18906.0	20965.4	19460.5
50°	2497.2	2309.6	2192.8	2080.3	1892.7	2334.6	3777.0	8909.0	18497.4	20436.0	18655.9
52.5°	2418.0	2251.2	2130.3	2042.8	1742.6	2242.9	3702.0	9225.8	18997.7	20039.9	18422.4
55°	2342.9	2172.0	2017.8	1846.8	1617.5	2001.1	3493.5	9521.8	19727.3	20952.9	19481.3
57.5°	2263.7	2101.1	1934.4	1730.1	1496.6	1750.9	3276.8	9576.0	18359.9	19364.6	18493.3
60°	2159.5	1951.0	1826.0	1559.2	1367.4	1450.8	2597.2	8442.0	14241.0	16171.2	16200.4
62.5°	2042.8	1817.6	1709.3	1396.6	1234.0	1250.7	2117.8	7095.5	11552.0	13386.4	14182.6
65°	1888.5	1671.7	1542.5	1292.4	1138.1	1083.9	1550.8	5198.6	8775.6	10860.0	11764.7
67.5°	1688.4	1484.1	1321.5	1125.6	1017.2	929.7	1058.9	2926.6	5182.0	7291.4	7566.6
70°	1475.8	1300.7	1129.8	967.2	846.3	783.8	775.4	1296.5	2476.3	3922.9	4464.9
72.5°	1163.1	1038.1	900.5	779.6	700.4	608.7	554.5	537.8	838.0	1596.7	2205.4
75°	833.8	729.6	650.3	571.1	512.8	462.7	421.1	383.5	350.2	400.2	550.3
77.5°	525.3	487.8	425.2	404.4	371.0	358.5	341.9	321.0	296.0	279.3	279.3
80°	354.4	329.3	308.5	304.3	291.8	287.7	291.8	271.0	246.0	225.1	233.5
82.5°	237.6	233.5	229.3	225.1	229.3	233.5	241.8	237.6	216.8	204.3	208.4
85°	141.7	150.1	158.4	166.8	183.4	162.6	133.4	112.6	100.1	91.7	87.5
87.5°	54.2	75.0	66.7	62.5	66.7	62.5	58.4	54.2	45.9	41.7	41.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2	12765.2
2.5°	13803.3	13886.6	13957.5	13940.8	13794.9	13599.0	13519.8	13115.4	13032.0	12977.8
5°	13990.9	14474.4	14578.7	14516.1	14136.8	13657.3	13190.4	12598.4	12252.4	12239.9
7.5°	13644.8	14241.0	14428.6	14570.3	14065.9	13232.1	12431.7	11543.7	11326.9	11343.6
10°	12765.2	13715.7	14178.5	14324.4	13744.9	13023.7	11914.7	11014.3	10551.5	10543.2
12.5°	12277.4	13023.7	13152.9	13357.2	13186.3	12456.7	11614.6	10605.7	10155.5	10147.1
15°	11843.9	12335.8	12373.3	12661.0	12752.7	12260.8	11693.8	10618.2	10255.5	10218.0
17.5°	12223.2	11881.4	11739.6	11777.2	12048.1	12227.4	12152.4	11326.9	10955.9	10747.4
20°	12477.5	11714.6	11285.2	11326.9	11647.9	12302.4	12836.1	12352.5	11764.7	11789.7
22.5°	13157.1	11739.6	11068.5	11022.6	11531.2	12694.3	13607.3	13649.0	13082.0	12944.5
25°	14174.3	12027.3	11001.7	10989.2	11477.0	13115.4	14507.8	15183.2	14603.7	14349.4
27.5°	14991.4	12477.5	11210.2	11251.9	11647.9	13457.2	15274.9	16171.2	15729.3	15416.6
30°	15708.4	12944.5	11502.0	11310.2	12106.5	13636.5	15604.2	17296.8	16942.4	16684.0
32.5°	16004.4	13607.3	11964.8	11647.9	12485.9	13853.3	16287.9	18389.1	18084.7	17446.9
35°	16504.7	13978.3	12214.9	12189.9	13148.7	14374.4	16608.9	19110.3	18985.2	18418.2
37.5°	16904.9	14353.6	13102.9	12827.7	14057.6	15249.9	17125.9	20106.6	19819.0	19552.2
40°	17213.4	15024.7	13932.5	14295.2	15174.8	16046.1	17601.1	20169.2	20998.8	20223.4
42.5°	16929.9	15625.1	15295.7	16162.9	16996.6	16954.9	17655.3	20652.8	21273.9	20869.6
45°	16859.1	16642.3	17451.0	18239.0	18430.7	17709.5	17267.6	20119.1	21190.6	21011.3
47.5°	16688.1	17642.8	19051.9	20335.9	20044.1	18214.0	16804.9	20023.3	21240.6	20919.6
50°	16629.8	17859.6	20235.9	21486.6	21311.5	18651.7	16588.1	19406.3	20886.2	20857.0
52.5°	16625.6	18305.7	20727.8	22111.9	22220.3	19343.7	16884.1	19718.9	21161.4	21407.3
55°	16813.2	18163.9	20665.3	21765.9	21724.2	19035.2	16917.4	19927.4	21499.1	21740.9
57.5°	15858.5	16271.2	17055.0	17926.3	17701.2	15766.8	15108.1	18422.4	19731.4	19556.3
60°	13694.9	12402.5	11518.7	11477.0	11039.3	10434.8	12365.0	16442.2	16442.2	16271.2
62.5°	11993.9	8141.9	6995.4	6670.3	6982.9	7679.1	11927.2	15991.9	15537.5	15341.6
65°	10489.0	6215.8	5056.9	4965.2	5507.1	6557.7	10785.0	13624.0	12823.6	12173.2
67.5°	6749.5	4552.4	3760.4	3597.8	4252.3	4815.1	7178.9	8379.5	7875.1	7620.8
70°	4352.3	2964.1	2092.8	1963.6	2217.9	2968.3	4585.8	4886.0	4152.2	3981.3
72.5°	2059.4	1279.9	733.7	604.5	679.5	1133.9	1813.5	1951.0	1621.7	1484.1
75°	654.5	471.1	300.2	258.5	246.0	291.8	416.9	321.0	233.5	229.3
77.5°	291.8	279.3	237.6	200.1	175.1	145.9	120.9	100.1	104.2	108.4
80°	241.8	221.0	195.9	175.1	145.9	112.6	87.5	66.7	66.7	70.9
82.5°	212.6	191.8	170.9	145.9	125.1	91.7	66.7	45.9	41.7	41.7
85°	91.7	108.4	116.7	125.1	100.1	75.0	45.9	29.2	25.0	25.0
87.5°	37.5	33.4	29.2	25.0	20.8	20.8	16.7	12.5	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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