

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: P527639

Luminaire Tested: **GALN-SA2C-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6211 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

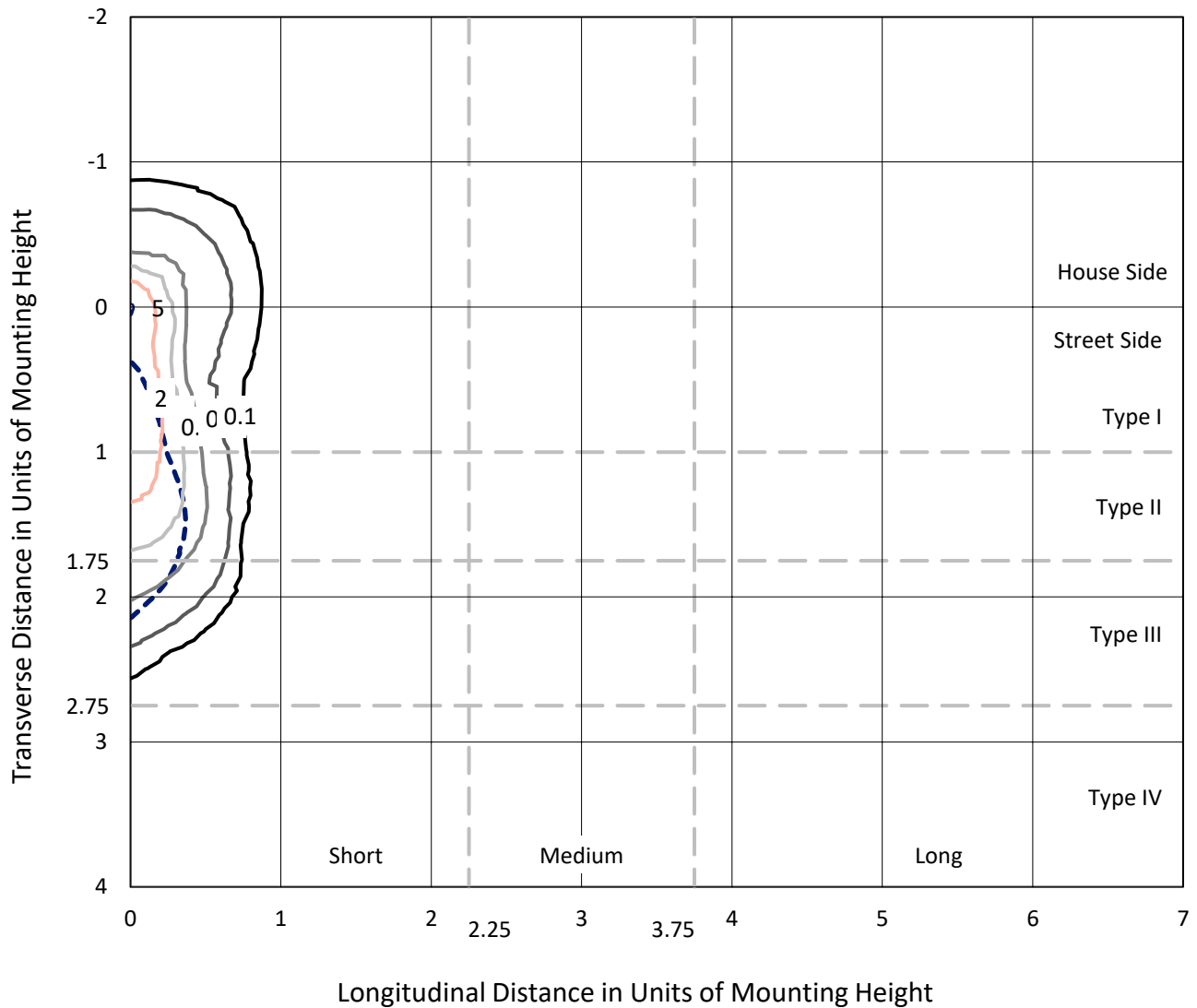
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

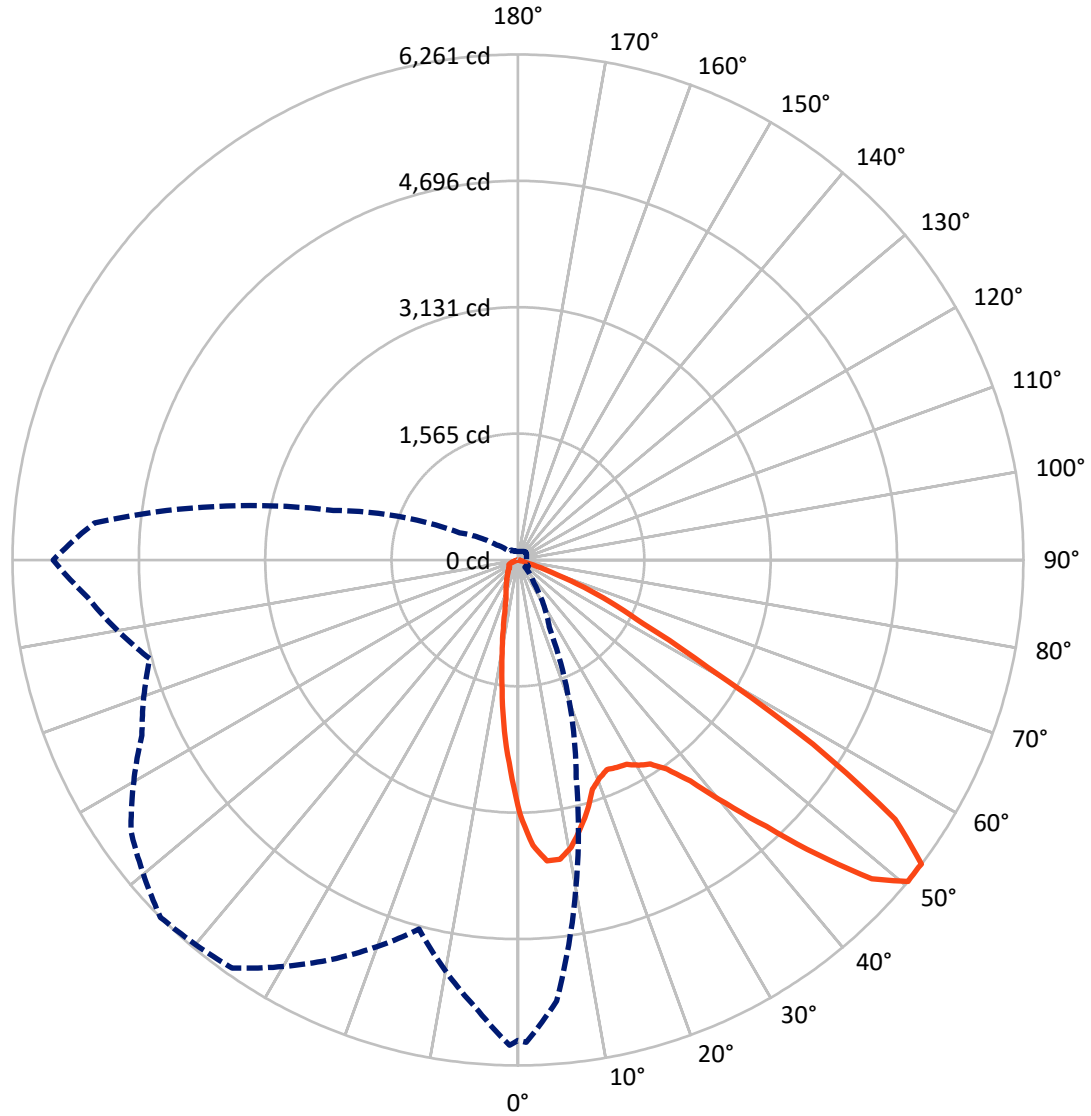
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1244.1	0.0	1244.1
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	4966.9	0.0	4966.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	6211.0	0.0	6211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	3.7
10°-20°	456.3	7.3
20°-30°	685.5	11.0
30°-40°	1028.9	16.6
40°-50°	1446.0	23.3
50°-60°	1559.8	25.1
60°-70°	724.2	11.7
70°-80°	68.1	1.1
80°-90°	12.6	0.2
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°	6211.0	100.0
0°-180°	6211.0	100.0

Coefficient of Utilization



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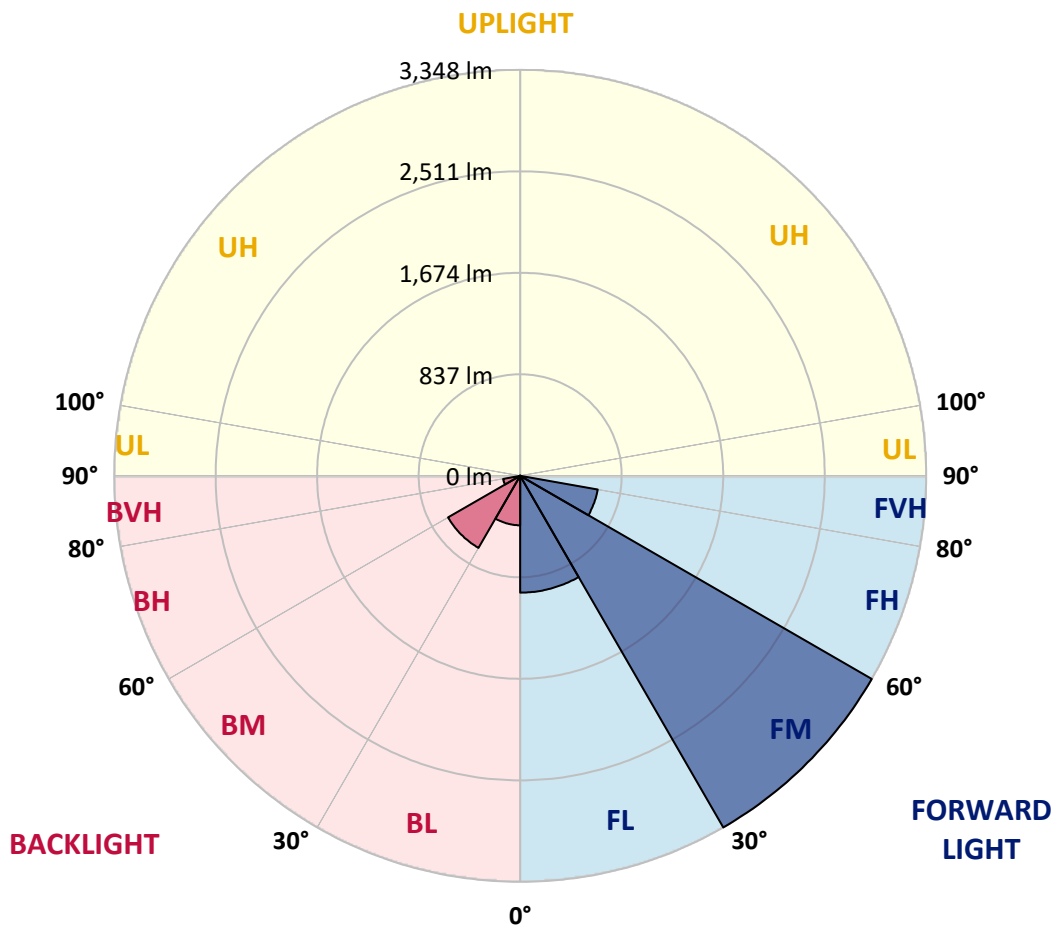
CATALOG NUMBER: GALN-SA2C-830-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	963.6	15.5			
FM (30°-60°)	3348.2	53.9			
FH (60°-80°)	649.5	10.5			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	407.8	6.6	B1/500		
BM (30°-60°)	686.5	11.1	B1/1000		
BH (60°-80°)	142.9	2.3	B1/500		G1/500
BVH (80°-90°)	6.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8
2.5°	3274.2	3223.7	3159.6	3106.6	3027.8	2868.8	2825.7	2773.9	2730.8	2672.9	2591.5
5°	2977.2	2961.2	2931.6	2732.0	2587.8	2395.6	2237.9	2171.3	2083.8	2012.3	1960.6
7.5°	2750.5	2686.4	2592.8	2391.9	2161.5	1955.7	1780.7	1678.4	1562.6	1523.1	1452.9
10°	2507.7	2522.5	2384.5	2102.3	1823.8	1657.4	1549.0	1450.4	1345.7	1276.7	1176.8
12.5°	2430.1	2382.0	2276.1	1927.3	1689.5	1534.2	1402.4	1280.4	1169.5	1058.5	962.4
15°	2480.6	2406.7	2258.8	1890.3	1586.0	1392.5	1227.4	1062.2	960.0	818.2	718.4
17.5°	2661.8	2602.6	2404.2	1929.8	1533.0	1256.9	1011.7	841.7	685.2	557.0	506.5
20°	2963.7	2879.9	2631.0	1980.3	1454.1	1093.1	820.7	611.2	463.3	409.1	380.8
22.5°	3259.4	3213.8	2899.6	2077.7	1383.9	947.6	616.2	411.6	346.3	336.4	317.9
25°	3822.6	3685.8	3310.0	2253.9	1329.7	810.9	464.6	331.5	293.3	285.9	288.4
27.5°	4157.8	4043.2	3689.5	2370.9	1269.3	706.1	393.1	304.4	278.5	262.5	256.3
30°	4479.4	4346.3	3878.0	2440.0	1139.9	595.2	348.7	292.1	285.9	262.5	255.1
32.5°	4727.1	4596.5	4150.4	2543.5	1086.9	523.7	287.1	228.0	212.0	209.5	231.7
35°	5106.7	4967.4	4383.3	2600.2	1046.2	486.8	248.9	203.3	184.8	177.5	178.7
37.5°	5460.3	5365.4	4598.9	2622.3	1003.1	475.7	223.0	182.4	166.4	161.4	160.2
40°	5756.1	5544.1	4803.5	2645.7	984.6	454.7	207.0	166.4	155.3	147.9	147.9
42.5°	5891.6	5676.0	5032.7	2632.2	979.7	421.4	207.0	152.8	144.2	136.8	135.6
45°	5862.1	5774.6	5135.0	2626.0	979.7	388.2	188.5	149.1	136.8	126.9	124.5
47.5°	5938.5	5823.9	5263.2	2651.9	960.0	364.8	159.0	156.5	129.4	117.1	114.6
50°	5952.0	5974.2	5486.2	2786.2	916.8	335.2	124.5	154.0	124.5	106.0	103.5
52°	6040.7	5902.7	5554.0	2857.7	871.2	313.0	104.7	131.9	119.5	98.6	96.1
52.5°	5918.7	6008.7	5570.0	2883.6	876.2	298.2	101.0	129.4	117.1	98.6	92.4
55°	5782.0	5868.2	5504.7	2939.0	803.5	234.1	78.9	93.7	106.0	86.3	82.6
57.5°	5025.3	5112.8	4783.8	2691.3	654.4	165.1	65.3	70.2	93.7	80.1	76.4
60°	4467.1	4404.2	4014.8	2245.3	464.6	92.4	51.8	54.2	102.3	73.9	72.7
62.5°	4082.6	3948.3	3355.6	1733.8	283.4	61.6	40.7	41.9	78.9	69.0	69.0
65°	3020.4	2870.0	2229.2	1048.7	139.2	43.1	30.8	33.3	49.3	59.2	59.2
67.5°	1724.0	1666.1	1077.0	473.2	57.9	27.1	23.4	25.9	38.2	48.1	45.6
70°	792.4	711.0	414.1	99.8	27.1	18.5	18.5	20.9	30.8	35.7	33.3
72.5°	231.7	219.3	101.0	16.0	11.1	11.1	12.3	16.0	23.4	27.1	24.6
75°	17.3	11.1	7.4	4.9	4.9	7.4	9.9	16.0	23.4	25.9	20.9
77.5°	1.2	2.5	1.2	1.2	3.7	7.4	11.1	19.7	30.8	32.0	23.4
80°	1.2	1.2	0.0	1.2	3.7	7.4	12.3	22.2	34.5	37.0	19.7
82.5°	0.0	0.0	0.0	1.2	4.9	9.9	14.8	23.4	32.0	39.4	20.9
85°	0.0	0.0	0.0	1.2	7.4	13.6	17.3	6.2	3.7	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8
2.5°	2649.4	2617.4	2605.1	2616.2	2612.5	2608.8	2676.6	2661.8	2659.3	2681.5	2676.6
5°	1988.9	1932.2	2087.5	2024.7	2090.0	2129.4	2136.8	2140.5	2186.1	2138.0	2200.9
7.5°	1417.1	1431.9	1430.7	1472.6	1547.8	1614.3	1653.7	1622.9	1620.5	1614.3	1587.2
10°	1132.5	1106.6	1101.7	1091.8	1115.2	1171.9	1220.0	1181.8	1154.7	1191.6	1180.5
12.5°	925.5	889.7	870.0	830.6	831.8	870.0	870.0	870.0	897.1	918.1	934.1
15°	709.8	680.2	680.2	640.8	632.2	633.4	653.1	655.6	698.7	711.0	717.2
17.5°	496.6	480.6	499.1	515.1	505.2	507.7	515.1	517.6	523.7	518.8	531.1
20°	382.0	379.5	384.5	412.8	433.8	446.1	437.5	425.1	417.7	400.5	400.5
22.5°	324.1	329.0	337.7	361.1	388.2	395.6	385.7	357.4	335.2	332.7	334.0
25°	288.4	293.3	306.8	321.6	336.4	348.7	338.9	317.9	305.6	294.5	294.5
27.5°	266.2	268.6	276.0	287.1	299.4	309.3	305.6	294.5	281.0	276.0	264.9
30°	248.9	252.6	261.2	263.7	274.8	279.7	273.6	271.1	262.5	256.3	252.6
32.5°	240.3	239.1	245.2	247.7	248.9	252.6	245.2	248.9	247.7	237.8	234.1
35°	181.1	191.0	207.0	220.6	224.3	229.2	228.0	223.0	209.5	198.4	184.8
37.5°	162.7	168.8	177.5	188.5	203.3	209.5	207.0	194.7	178.7	171.3	168.8
40°	150.3	154.0	161.4	168.8	183.6	194.7	186.1	175.0	162.7	156.5	152.8
42.5°	139.2	140.5	144.2	151.6	162.7	179.9	165.1	150.3	145.4	141.7	139.2
45°	126.9	126.9	131.9	135.6	147.9	163.9	149.1	135.6	133.1	130.6	129.4
47.5°	117.1	118.3	120.8	125.7	135.6	146.6	136.8	125.7	119.5	118.3	115.8
50°	104.7	106.0	110.9	115.8	128.2	134.3	128.2	115.8	109.7	106.0	106.0
52°	94.9	98.6	103.5	113.4	122.0	131.9	124.5	110.9	103.5	99.8	97.4
52.5°	93.7	96.1	101.0	112.1	122.0	130.6	123.2	109.7	101.0	98.6	96.1
55°	83.8	87.5	96.1	109.7	120.8	130.6	120.8	108.4	96.1	90.0	87.5
57.5°	80.1	82.6	93.7	110.9	119.5	130.6	120.8	108.4	96.1	85.0	82.6
60°	76.4	81.3	93.7	107.2	118.3	131.9	122.0	107.2	93.7	80.1	80.1
62.5°	72.7	76.4	92.4	104.7	113.4	126.9	117.1	104.7	90.0	76.4	75.2
65°	62.8	69.0	81.3	87.5	97.4	109.7	99.8	91.2	78.9	67.8	66.5
67.5°	48.1	50.5	60.4	67.8	73.9	85.0	80.1	69.0	60.4	51.8	51.8
70°	33.3	35.7	43.1	46.8	53.0	59.2	55.5	46.8	40.7	35.7	34.5
72.5°	23.4	24.6	27.1	29.6	32.0	34.5	33.3	27.1	23.4	22.2	20.9
75°	18.5	20.9	22.2	20.9	19.7	18.5	18.5	16.0	13.6	12.3	12.3
77.5°	18.5	19.7	18.5	16.0	13.6	12.3	11.1	9.9	7.4	6.2	7.4
80°	16.0	16.0	16.0	13.6	12.3	11.1	9.9	8.6	7.4	6.2	6.2
82.5°	17.3	17.3	16.0	13.6	13.6	11.1	11.1	9.9	8.6	6.2	6.2
85°	0.0	0.0	0.0	2.5	6.2	11.1	11.1	9.9	8.6	7.4	7.4
87.5°	0.0	0.0	0.0	0.0	1.2	2.5	4.9	6.2	7.4	7.4	7.4
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°	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8
2.5°	2720.9	2767.7	2856.5	2945.2	2999.4	3063.5	3179.3	3241.0	3321.0	3360.5	3438.1
5°	2192.3	2303.2	2342.6	2443.7	2552.1	2660.5	2833.1	3022.8	3180.6	3289.0	3429.5
7.5°	1599.5	1625.4	1778.2	1846.0	2023.4	2220.6	2456.0	2695.0	2894.7	3072.1	3179.3
10°	1199.0	1293.9	1390.0	1519.4	1662.4	1865.7	2091.2	2354.9	2613.7	2791.2	2926.7
12.5°	963.7	1038.8	1167.0	1306.2	1482.5	1616.8	1843.5	2104.8	2440.0	2613.7	2792.4
15°	729.5	825.6	971.1	1115.2	1301.3	1443.0	1672.2	2001.3	2432.6	2671.6	2825.7
17.5°	541.0	606.3	736.9	898.3	1088.1	1287.8	1597.1	1990.2	2515.1	2799.8	2958.8
20°	414.1	436.2	518.8	663.0	868.8	1130.0	1475.1	2038.2	2759.1	3111.6	3273.0
22.5°	335.2	345.0	377.1	476.9	676.5	992.0	1417.1	2071.5	3033.9	3484.9	3700.6
25°	292.1	289.6	310.5	353.7	528.7	862.6	1343.2	2197.2	3370.3	3923.6	4117.1
27.5°	266.2	266.2	276.0	306.8	438.7	778.8	1296.4	2287.1	3709.2	4309.4	4414.1
30°	252.6	255.1	283.4	293.3	364.8	679.0	1218.7	2378.3	4033.3	4555.8	4700.0
32.5°	234.1	224.3	218.1	242.8	306.8	589.0	1141.1	2416.5	4295.8	4857.7	4981.0
35°	179.9	175.0	182.4	200.9	263.7	512.6	1054.8	2459.7	4597.7	5207.7	5232.3
37.5°	162.7	161.4	166.4	182.4	221.8	446.1	993.2	2448.6	4828.2	5497.3	5430.7
40°	150.3	150.3	154.0	167.6	198.4	399.3	929.2	2438.7	5051.2	5822.6	5627.9
42.5°	140.5	140.5	146.6	155.3	188.5	368.5	881.1	2425.2	5238.5	6022.3	5743.8
45°	126.9	130.6	140.5	149.1	191.0	347.5	845.4	2373.4	5302.6	6019.8	5688.3
47.5°	117.1	122.0	131.9	144.2	172.5	341.3	820.7	2327.8	5280.4	5871.9	5514.5
50°	106.0	112.1	125.7	146.6	146.6	329.0	794.8	2368.5	5264.4	5757.3	5348.2
52°	98.6	103.5	120.8	142.9	128.2	303.1	778.8	2447.3	5329.7	5742.5	5274.2
52.5°	97.4	101.0	117.1	140.5	122.0	298.2	767.7	2465.8	5350.6	5705.6	5324.8
55°	86.3	91.2	107.2	109.7	99.8	245.2	732.0	2507.7	5247.1	5632.8	5276.7
57.5°	81.3	83.8	94.9	90.0	86.3	184.8	629.7	2442.4	4660.6	5003.1	4909.5
60°	75.2	77.6	88.7	70.2	72.7	129.4	473.2	2120.8	3742.5	4168.9	4337.7
62.5°	72.7	71.5	83.8	56.7	61.6	93.7	334.0	1724.0	2883.6	3432.0	3724.0
65°	64.1	62.8	60.4	48.1	53.0	72.7	199.6	1125.1	2032.1	2596.5	2756.7
67.5°	49.3	51.8	44.4	38.2	44.4	56.7	110.9	504.0	1065.9	1557.6	1687.0
70°	34.5	37.0	35.7	33.3	39.4	46.8	64.1	172.5	441.2	818.2	902.0
72.5°	20.9	25.9	27.1	28.3	34.5	40.7	45.6	55.5	117.1	289.6	359.8
75°	12.3	17.3	20.9	24.6	28.3	34.5	38.2	39.4	40.7	54.2	87.5
77.5°	8.6	12.3	18.5	23.4	28.3	34.5	40.7	43.1	40.7	38.2	40.7
80°	7.4	12.3	17.3	22.2	29.6	35.7	40.7	40.7	39.4	34.5	37.0
82.5°	7.4	12.3	18.5	23.4	28.3	34.5	39.4	40.7	37.0	34.5	35.7
85°	8.6	13.6	19.7	24.6	30.8	28.3	25.9	20.9	19.7	16.0	17.3
87.5°	8.6	12.3	12.3	13.6	14.8	14.8	14.8	13.6	11.1	9.9	9.9
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°	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8
2.5°	3441.8	3540.4	3536.7	3539.2	3524.4	3424.6	3376.5	3254.5	3289.0	3274.2
5°	3573.7	3671.0	3754.8	3745.0	3631.6	3496.0	3295.2	3105.4	3053.6	2977.2
7.5°	3441.8	3676.0	3753.6	3742.5	3574.9	3401.1	3080.8	2891.0	2801.0	2750.5
10°	3232.3	3503.4	3599.5	3619.3	3505.9	3242.2	2947.7	2643.3	2595.2	2507.7
12.5°	3112.8	3310.0	3369.1	3422.1	3382.7	3185.5	2846.6	2554.6	2488.0	2430.1
15°	3015.4	3132.5	3157.2	3217.5	3241.0	3135.0	2899.6	2650.7	2486.8	2480.6
17.5°	3105.4	3057.3	2967.4	2985.9	3059.8	3136.2	3036.4	2840.5	2681.5	2661.8
20°	3254.5	3042.5	2839.2	2884.8	2946.4	3180.6	3243.4	3105.4	3014.2	2963.7
22.5°	3425.8	3068.4	2798.6	2820.7	2937.8	3280.4	3578.6	3502.2	3332.1	3259.4
25°	3742.5	3139.9	2830.6	2845.4	3005.6	3419.6	3881.7	3938.4	3837.4	3822.6
27.5°	4051.8	3324.7	2900.8	2867.6	3040.1	3555.2	4065.4	4369.7	4192.3	4157.8
30°	4209.5	3475.1	3005.6	2948.9	3183.0	3637.8	4176.3	4650.7	4495.4	4479.4
32.5°	4451.1	3611.9	3086.9	3014.2	3263.1	3740.0	4383.3	4957.5	4807.2	4727.1
35°	4552.1	3761.0	3265.6	3180.6	3492.3	3883.0	4489.3	5231.1	5184.3	5106.7
37.5°	4746.8	3921.2	3476.3	3471.4	3769.6	4069.1	4680.3	5603.3	5594.6	5460.3
40°	4762.8	4096.2	3809.0	3964.3	4198.4	4393.2	4847.9	5706.8	5847.3	5756.1
42.5°	4787.5	4403.0	4384.5	4512.7	4713.5	4671.7	4854.0	5731.4	5945.8	5891.6
45°	4798.6	4709.9	4969.9	5206.5	5290.3	5036.4	4796.1	5684.6	5997.6	5862.1
47.5°	4709.9	4973.6	5443.1	5900.3	5924.9	5260.7	4771.5	5636.5	6028.4	5938.5
50°	4722.2	5138.7	5852.2	6261.3	6171.4	5459.1	4733.3	5607.0	6012.4	5952.0
52°	4692.6	5142.4	5910.1	6253.9	6191.1	5349.4	4668.0	5493.6	5997.6	6040.7
52.5°	4725.9	5120.2	5849.7	6258.9	6177.5	5403.6	4659.3	5556.4	6006.2	5918.7
55°	4611.3	4856.5	5496.1	5669.8	5657.5	4904.6	4394.4	5348.2	5780.7	5782.0
57.5°	4167.6	4209.5	4310.6	4306.9	4250.2	3855.9	3758.5	4918.1	5153.5	5025.3
60°	3672.3	3082.0	2809.6	2698.7	2635.9	2571.8	3324.7	4499.1	4521.3	4467.1
62.5°	3173.2	2136.8	1774.5	1743.7	1758.5	1992.6	3213.8	4332.8	4199.7	4082.6
65°	2560.7	1557.6	1289.0	1248.3	1392.5	1645.1	2601.4	3322.3	3117.7	3020.4
67.5°	1608.2	1136.2	871.2	794.8	968.6	1132.5	1709.2	2087.5	1858.3	1724.0
70°	953.8	634.6	394.3	353.7	398.0	603.8	957.5	1041.3	861.4	792.4
72.5°	375.9	232.9	109.7	93.7	97.4	212.0	352.4	343.8	260.0	231.7
75°	101.0	70.2	38.2	30.8	25.9	39.4	56.7	37.0	13.6	17.3
77.5°	46.8	41.9	33.3	25.9	19.7	14.8	7.4	2.5	2.5	1.2
80°	40.7	35.7	30.8	25.9	19.7	12.3	6.2	1.2	1.2	1.2
82.5°	38.2	33.3	28.3	23.4	18.5	12.3	6.2	1.2	0.0	0.0
85°	16.0	20.9	23.4	22.2	19.7	12.3	6.2	1.2	0.0	0.0
87.5°	8.6	7.4	6.2	4.9	3.7	2.5	2.5	0.0	0.0	0.0
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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