

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: INVUE

Report Number: P677414

Luminaire Tested: **CCW-SA-2E-730-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677414
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-730-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8947.5 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

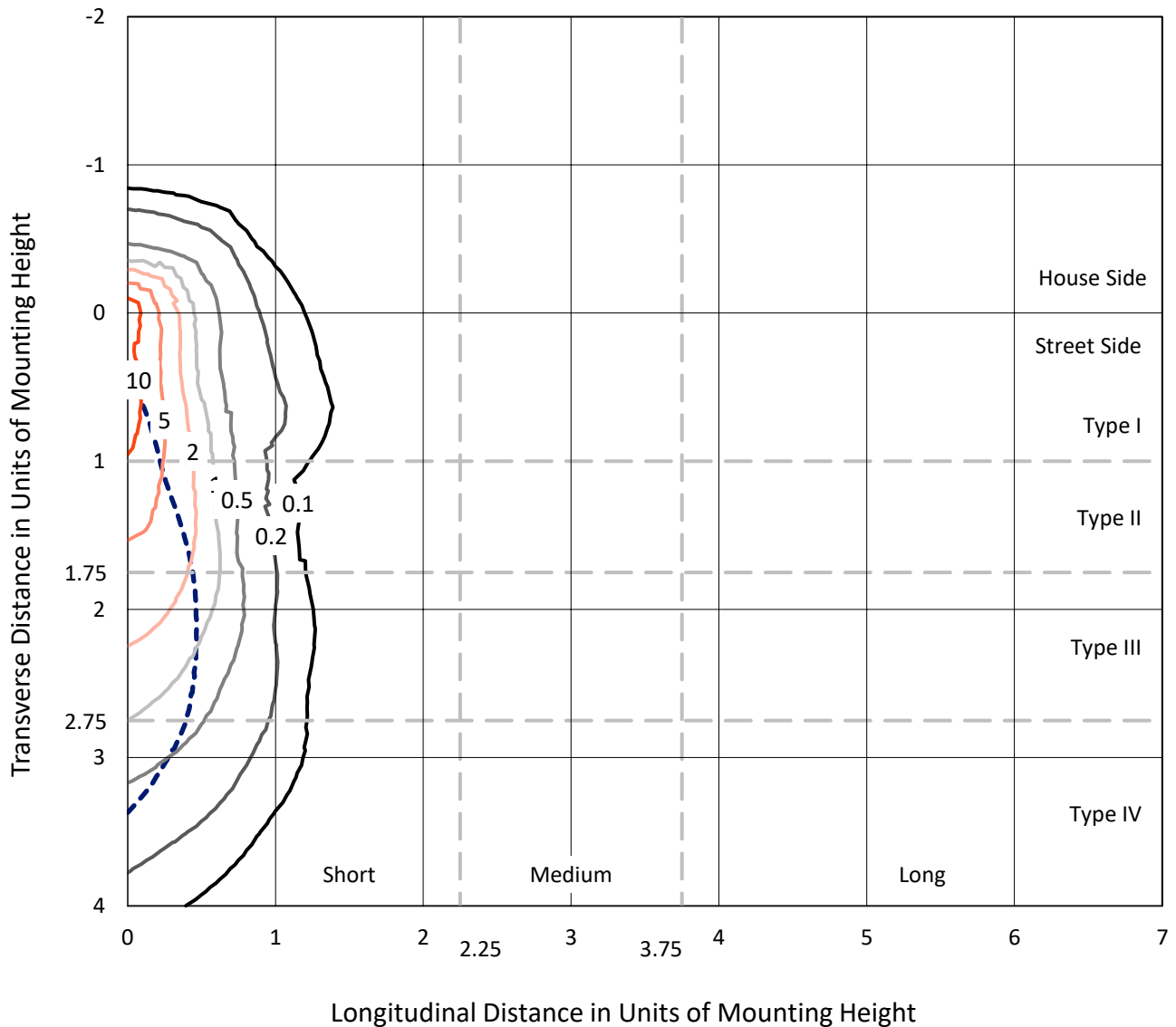
Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

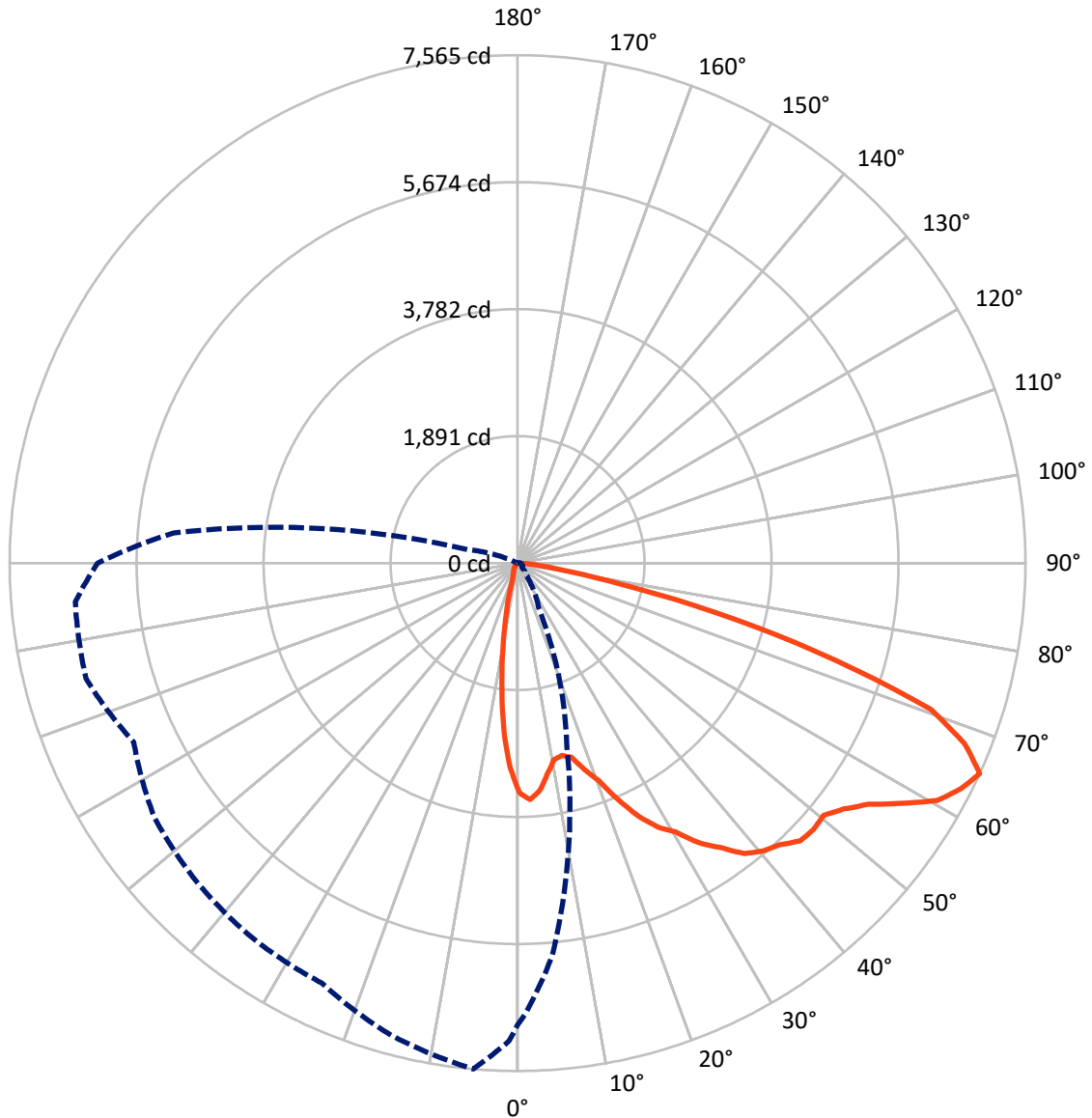
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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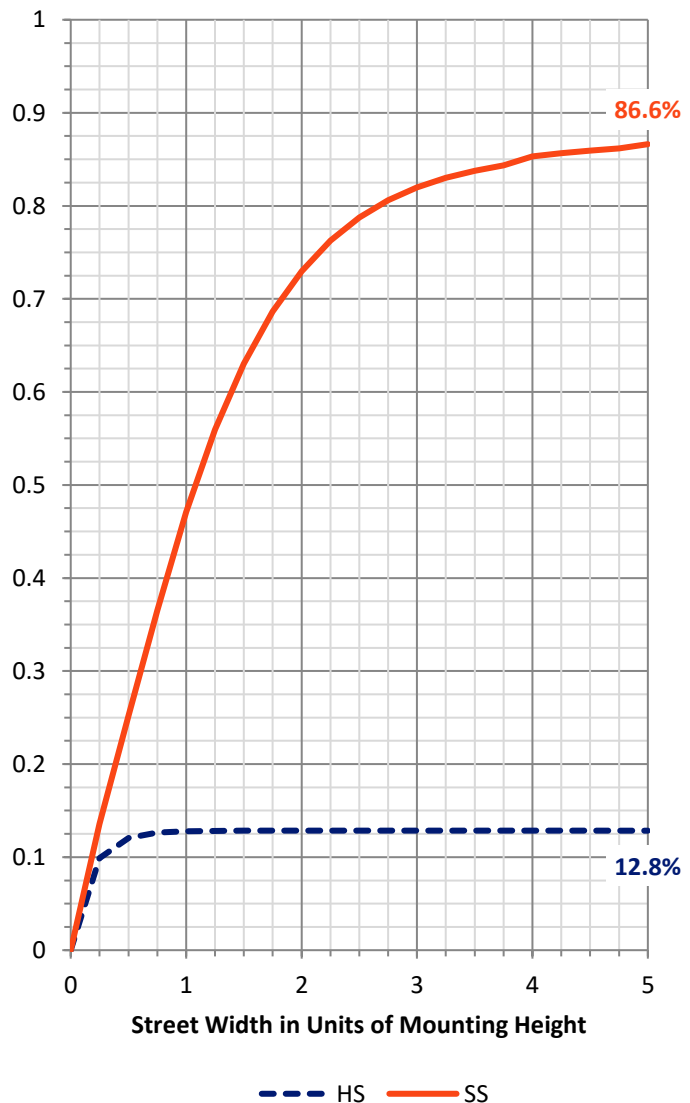
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1161.7	0.0	1161.7
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	7785.7	0.0	7785.7
	% Fixture	87.0	0.0	87.0
Total	Lumens	8947.5	0.0	8947.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	2.9
10°-20°	501.7	5.6
20°-30°	698.8	7.8
30°-40°	992.9	11.1
40°-50°	1376.9	15.4
50°-60°	1876.1	21.0
60°-70°	2062.6	23.1
70°-80°	1013.8	11.3
80°-90°	165.5	1.9
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°	8947.5	100.0
0°-180°	8947.5	100.0



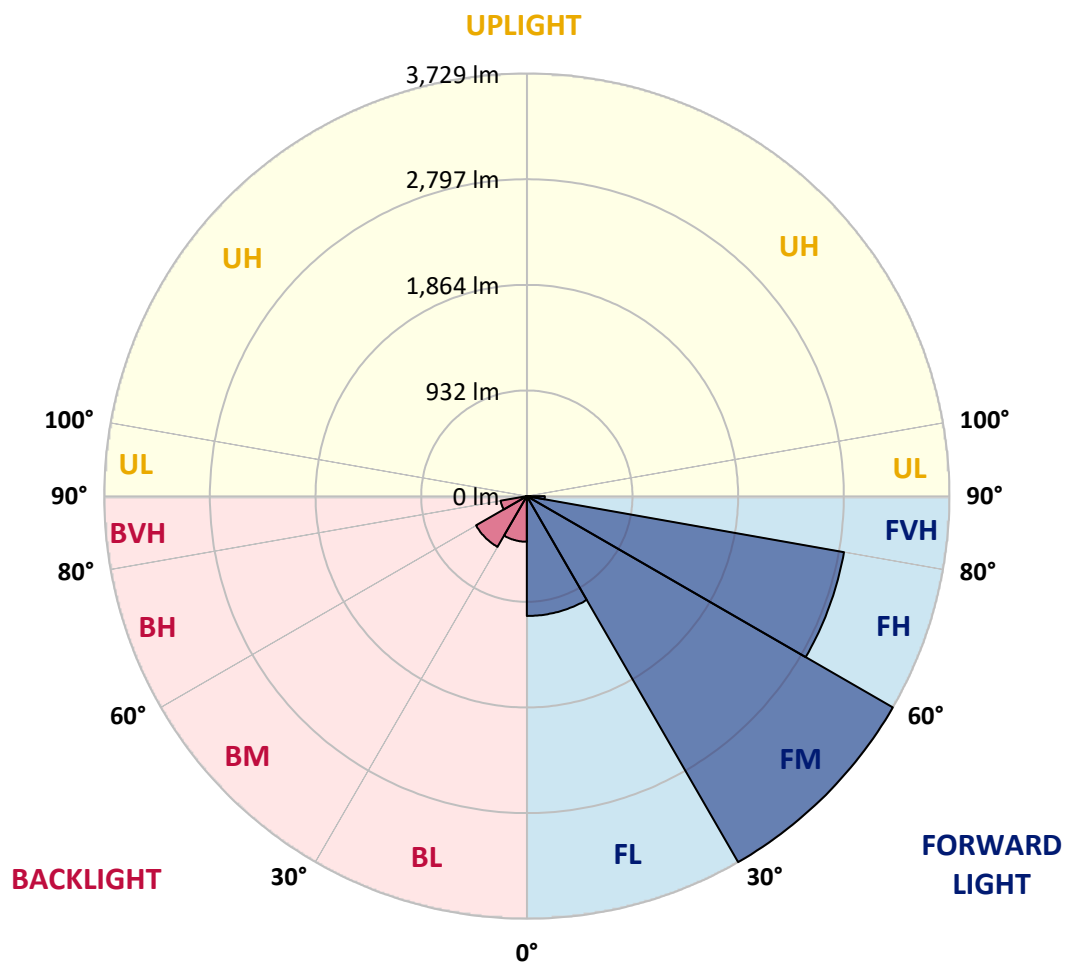
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.4	11.8			
FM (30°-60°)	3728.7	41.7			
FH (60°-80°)	2841.6	31.8			G2/5000
FVH (80°-90°)	158.1	1.8			G2/225
BL (0°-30°)	402.2	4.5	B1/500		
BM (30°-60°)	517.2	5.8	B1/1000		
BH (60°-80°)	234.8	2.6	B1/500		G1/500
BVH (80°-90°)	7.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6
2.5°	3490.6	3531.6	3493.0	3357.9	3333.8	3268.6	3169.7	3162.5	3058.8	3070.8	3015.3
5°	3280.7	3321.7	3239.7	3061.2	2894.7	2762.1	2682.5	2540.1	2508.8	2438.8	2438.8
7.5°	3066.0	3063.6	2923.7	2774.1	2525.7	2282.0	2171.0	1966.0	1845.4	1780.3	1717.5
10°	2887.5	2848.9	2762.1	2453.3	2183.1	1929.8	1792.3	1657.2	1531.8	1423.2	1314.7
12.5°	2762.1	2786.2	2648.7	2313.4	1963.6	1787.5	1640.3	1498.0	1348.5	1225.4	1104.8
15°	2827.2	2788.6	2627.0	2282.0	1927.4	1686.2	1490.8	1317.1	1150.7	989.0	897.4
17.5°	3029.8	2930.9	2740.3	2282.0	1852.6	1531.8	1295.4	1090.3	911.8	767.1	653.7
20°	3302.4	3189.0	2984.0	2366.4	1797.1	1418.4	1095.2	837.1	651.3	516.2	429.4
22.5°	3582.2	3493.0	3184.2	2400.2	1732.0	1266.4	863.6	605.5	434.2	347.4	303.9
25°	3917.5	3792.1	3454.4	2535.3	1635.5	1119.3	680.3	422.1	323.2	277.4	250.9
27.5°	4185.3	4163.6	3707.7	2617.3	1563.2	998.7	537.9	335.3	267.8	234.0	217.1
30°	4523.0	4404.8	4016.4	2781.4	1481.1	861.2	448.7	301.5	246.1	209.9	197.8
32.5°	4725.6	4670.2	4178.1	2873.0	1389.5	747.8	386.0	265.4	224.3	197.8	185.7
35°	5019.9	4909.0	4409.6	2930.9	1341.2	682.7	347.4	241.2	188.2	161.6	147.1
37.5°	5348.0	5307.0	4687.1	2928.5	1271.3	644.1	320.8	224.3	178.5	149.6	132.7
40°	5683.3	5516.9	4855.9	2996.0	1235.1	615.1	301.5	214.7	168.9	142.3	120.6
42.5°	5934.2	5743.6	5051.3	2971.9	1191.7	564.5	294.3	200.2	161.6	130.3	111.0
45°	6001.7	5934.2	5227.4	2964.7	1160.3	523.5	282.2	197.8	156.8	123.0	103.7
47.5°	6132.0	6086.2	5444.5	2976.7	1136.2	492.1	253.3	202.6	149.6	115.8	98.9
50°	6189.9	6107.9	5620.6	3005.7	1080.7	453.5	226.8	212.3	147.1	113.4	94.1
52.5°	6428.7	6356.3	5861.8	3087.7	1034.9	402.9	200.2	202.6	152.0	106.1	89.3
55°	6662.7	6580.7	6233.3	3275.9	969.7	361.8	171.3	178.5	144.7	96.5	79.6
57.5°	6983.5	6848.5	6481.8	3353.1	911.8	306.4	152.0	147.1	135.1	86.8	70.0
60°	7031.8	7087.3	6445.6	3304.8	851.5	270.2	132.7	113.4	144.7	77.2	60.3
62.5°	7193.4	6961.8	6276.7	3193.9	808.1	248.5	118.2	94.1	125.4	67.5	50.7
65°	6882.2	6711.0	5881.1	2836.8	752.6	250.9	103.7	77.2	79.6	55.5	41.0
67.5°	6426.3	6291.2	5225.0	2448.5	697.1	246.1	91.7	67.5	60.3	48.2	36.2
70°	5639.9	5348.0	4438.6	1987.7	615.1	229.2	77.2	60.3	50.7	38.6	26.5
72.5°	4103.3	3985.1	3184.2	1536.6	552.4	207.5	72.4	50.7	43.4	28.9	21.7
75°	2762.1	2566.7	2009.4	1008.3	443.9	180.9	60.3	45.8	33.8	21.7	16.9
77.5°	1459.4	1379.8	1138.6	480.0	246.1	84.4	33.8	26.5	19.3	16.9	9.6
80°	632.0	562.1	492.1	195.4	86.8	38.6	21.7	14.5	12.1	9.6	4.8
82.5°	323.2	308.8	255.7	84.4	50.7	28.9	12.1	9.6	7.2	4.8	2.4
85°	159.2	164.0	135.1	26.5	28.9	16.9	2.4	2.4	0.0	0.0	0.0
87.5°	12.1	12.1	9.6	4.8	7.2	2.4	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°	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6
2.5°	2993.6	3027.4	2969.5	3005.7	2988.8	2996.0	3003.3	2984.0	2988.8	3056.4	3058.8
5°	2397.8	2462.9	2438.8	2472.6	2530.5	2501.5	2528.1	2523.2	2528.1	2537.7	2581.1
7.5°	1710.3	1691.0	1736.8	1826.1	1929.8	1992.5	1961.2	1944.3	1934.6	1910.5	1939.5
10°	1290.6	1280.9	1268.9	1295.4	1362.9	1432.9	1471.5	1406.4	1370.2	1324.3	1307.5
12.5°	1071.1	1010.7	977.0	936.0	955.3	1018.0	1020.4	957.7	899.8	875.7	902.2
15°	844.3	803.3	743.0	685.1	656.1	704.4	663.4	603.1	528.3	518.6	516.2
17.5°	603.1	578.9	535.5	511.4	477.6	465.6	422.1	330.5	277.4	262.9	267.8
20°	410.1	390.8	388.4	366.7	352.2	342.5	272.6	212.3	195.4	197.8	200.2
22.5°	303.9	294.3	282.2	279.8	267.8	255.7	200.2	178.5	166.4	166.4	173.7
25°	248.5	243.6	231.6	226.8	221.9	205.0	168.9	152.0	147.1	142.3	149.6
27.5°	212.3	209.9	202.6	195.4	190.6	173.7	147.1	132.7	127.9	127.9	127.9
30°	190.6	190.6	180.9	166.4	166.4	147.1	125.4	115.8	111.0	111.0	108.6
32.5°	178.5	173.7	161.6	152.0	144.7	125.4	111.0	101.3	94.1	94.1	96.5
35°	144.7	144.7	142.3	135.1	125.4	106.1	94.1	84.4	79.6	77.2	79.6
37.5°	127.9	120.6	111.0	113.4	108.6	91.7	79.6	72.4	65.1	65.1	65.1
40°	115.8	108.6	98.9	91.7	89.3	82.0	70.0	57.9	50.7	48.2	48.2
42.5°	103.7	98.9	84.4	72.4	70.0	70.0	53.1	43.4	36.2	36.2	36.2
45°	96.5	89.3	77.2	62.7	50.7	53.1	43.4	31.4	26.5	24.1	24.1
47.5°	91.7	84.4	67.5	53.1	38.6	38.6	31.4	21.7	16.9	14.5	14.5
50°	84.4	77.2	60.3	43.4	28.9	24.1	19.3	12.1	7.2	4.8	4.8
52.5°	79.6	72.4	53.1	36.2	24.1	16.9	12.1	2.4	0.0	0.0	0.0
55°	72.4	62.7	45.8	28.9	19.3	9.6	2.4	0.0	0.0	0.0	0.0
57.5°	62.7	55.5	36.2	21.7	12.1	2.4	0.0	0.0	0.0	0.0	0.0
60°	53.1	45.8	28.9	16.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	43.4	38.6	21.7	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	36.2	28.9	16.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	31.4	24.1	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	24.1	16.9	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	16.9	12.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6
2.5°	3068.4	3140.8	3208.3	3227.6	3280.7	3427.8	3427.8	3497.8	3623.2	3669.1	3678.7
5°	2588.4	2665.6	2680.0	2829.6	2899.6	3049.1	3148.0	3384.4	3526.7	3616.0	3671.5
7.5°	1968.4	1995.0	2050.4	2190.3	2327.8	2508.8	2696.9	2998.5	3249.3	3350.7	3538.8
10°	1353.3	1432.9	1553.5	1678.9	1893.6	2093.9	2337.5	2622.1	2930.9	3056.4	3218.0
12.5°	911.8	1022.8	1215.8	1394.3	1592.1	1794.7	2026.3	2407.5	2757.2	2930.9	3092.5
15°	533.1	668.2	834.6	1124.1	1387.1	1613.8	1845.4	2231.4	2655.9	2880.3	3078.1
17.5°	270.2	311.2	448.7	699.6	1046.9	1418.4	1763.4	2255.5	2733.1	3008.1	3172.1
20°	202.6	214.7	253.3	371.5	716.4	1172.4	1686.2	2291.7	2947.8	3283.1	3372.4
22.5°	176.1	185.7	202.6	241.2	402.9	897.4	1577.6	2380.9	3239.7	3555.7	3743.9
25°	149.6	159.2	173.7	197.8	258.1	610.3	1445.0	2475.0	3500.2	3898.2	4074.3
27.5°	130.3	137.5	152.0	171.3	209.9	388.4	1215.8	2600.4	3898.2	4313.1	4359.0
30°	111.0	118.2	130.3	152.0	178.5	275.0	892.5	2617.3	4117.8	4494.1	4621.9
32.5°	96.5	98.9	113.4	132.7	149.6	217.1	627.2	2634.2	4279.4	4728.1	4754.6
35°	79.6	84.4	98.9	111.0	130.3	171.3	475.2	2549.8	4489.2	4969.3	4962.1
37.5°	65.1	72.4	82.0	91.7	106.1	144.7	378.7	2393.0	4752.2	5343.2	5116.4
40°	50.7	57.9	67.5	79.6	89.3	130.3	284.6	2156.6	5027.2	5526.5	5285.3
42.5°	36.2	41.0	50.7	62.7	79.6	108.6	205.0	1876.8	5135.7	5741.2	5487.9
45°	26.5	31.4	38.6	53.1	82.0	86.8	142.3	1621.0	5251.5	5835.3	5442.1
47.5°	14.5	19.3	28.9	45.8	72.4	65.1	101.3	1391.9	5384.2	5919.7	5478.3
50°	4.8	7.2	16.9	48.2	57.9	50.7	79.6	1268.9	5514.5	5936.6	5550.6
52.5°	0.0	0.0	9.6	50.7	43.4	38.6	70.0	1220.6	5480.7	5989.7	5504.8
55°	0.0	0.0	2.4	21.7	24.1	28.9	57.9	1218.2	5719.5	6006.6	5755.7
57.5°	0.0	0.0	0.0	7.2	14.5	24.1	50.7	1141.0	5871.5	6426.3	6093.4
60°	0.0	0.0	0.0	2.4	9.6	16.9	38.6	1073.5	6025.9	6614.5	6455.3
62.5°	0.0	0.0	0.0	0.0	2.4	7.2	26.5	969.7	5714.7	6600.0	6805.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	16.9	767.1	5140.6	6255.0	6612.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.6	530.7	4501.3	5820.8	6257.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	320.8	3632.9	5104.4	5307.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	137.5	2593.2	4052.6	4354.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.5	1604.2	2962.3	3333.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	1039.7	2243.4	2530.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	554.8	1406.4	1635.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	241.2	853.9	984.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.2	518.6	591.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.6	106.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6	3420.6
2.5°	3683.5	3753.5	3780.0	3739.0	3743.9	3659.4	3647.4	3529.2	3480.9	3490.6
5°	3852.4	3953.7	4009.2	3963.4	3859.6	3698.0	3550.9	3411.0	3324.1	3280.7
7.5°	3813.8	3927.2	3997.1	4040.6	3922.4	3661.8	3437.5	3174.6	3063.6	3066.0
10°	3601.5	3837.9	3980.3	3924.8	3869.3	3608.8	3261.4	2976.7	2877.8	2887.5
12.5°	3430.3	3693.2	3777.6	3821.0	3707.7	3500.2	3266.2	2940.6	2829.6	2762.1
15°	3324.1	3519.5	3524.3	3591.9	3546.0	3546.0	3316.9	2998.5	2902.0	2827.2
17.5°	3324.1	3367.5	3362.7	3386.8	3464.0	3555.7	3444.7	3232.5	3041.9	3029.8
20°	3398.9	3263.8	3232.5	3242.1	3307.2	3579.8	3727.0	3461.6	3341.0	3302.4
22.5°	3572.6	3275.9	3085.3	3051.5	3251.7	3577.4	3907.9	3823.5	3613.6	3582.2
25°	3811.4	3254.2	3046.7	3003.3	3155.3	3664.2	4156.4	4173.2	3982.7	3917.5
27.5°	4038.2	3350.7	3041.9	3032.2	3232.5	3644.9	4327.6	4453.1	4238.4	4185.3
30°	4115.3	3447.1	3131.1	3003.3	3261.4	3714.9	4322.8	4650.9	4511.0	4523.0
32.5°	4207.0	3543.6	3140.8	3090.1	3384.4	3828.3	4460.3	4969.3	4868.0	4725.6
35°	4342.1	3673.9	3232.5	3186.6	3471.3	3929.6	4489.2	5203.3	5186.4	5019.9
37.5°	4457.9	3801.7	3423.0	3430.3	3736.6	4093.6	4617.1	5490.3	5461.4	5348.0
40°	4539.9	3980.3	3719.7	3739.0	3968.2	4277.0	4843.9	5635.1	5849.8	5683.3
42.5°	4552.0	4139.5	4059.9	4214.2	4428.9	4561.6	4935.5	5734.0	6042.8	5934.2
45°	4597.8	4392.8	4614.7	4728.1	4904.2	4812.5	4930.7	5902.8	6057.2	6001.7
47.5°	4776.3	4853.5	5133.3	5478.3	5541.0	5239.5	5046.5	5929.4	6139.2	6132.0
50°	4962.1	5348.0	5741.2	5970.4	6050.0	5533.8	5155.0	5907.7	6247.8	6189.9
52.5°	5169.5	5777.4	6344.3	6626.5	6583.1	5859.4	5278.1	6083.8	6448.0	6428.7
55°	5299.8	5970.4	6732.7	7125.9	7092.1	6223.7	5668.8	6337.0	6711.0	6662.7
57.5°	5644.7	6284.0	7118.6	7302.0	7391.2	6701.3	5941.4	6752.0	6930.5	6983.5
60°	5929.4	6489.0	7219.9	7485.3	7516.7	6986.0	6419.1	7178.9	7210.3	7031.8
62.5°	6346.7	6568.6	7005.3	7244.1	7405.7	7147.6	6848.5	7408.1	7205.5	7193.4
65°	6653.1	6308.1	6604.8	6737.5	6841.2	6901.5	7280.2	7564.9	7116.2	6882.2
67.5°	6481.8	5816.0	5760.5	5767.8	5799.1	6163.4	7135.5	7181.3	6619.3	6426.3
70°	5705.0	4771.5	4696.7	4754.6	4597.8	5036.8	6549.3	6527.6	5840.1	5639.9
72.5°	4614.7	3478.5	3350.7	3430.3	3466.4	3932.0	5509.6	4950.0	4260.1	4103.3
75°	3666.7	2549.8	2151.8	2344.7	2467.8	2863.4	4303.5	3362.7	2974.3	2762.1
77.5°	2880.3	1929.8	1674.1	1596.9	1710.3	2081.8	3131.1	1765.8	1558.3	1459.4
80°	1826.1	1418.4	1539.0	1428.1	1476.3	1486.0	1630.7	803.3	639.3	632.0
82.5°	1100.0	969.7	1153.1	634.4	1155.5	1032.5	677.8	364.3	323.2	323.2
85°	779.2	600.7	398.0	258.1	513.8	566.9	262.9	188.2	164.0	159.2
87.5°	390.8	185.7	89.3	57.9	65.1	106.1	31.4	14.5	14.5	12.1
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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