

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: P677303

Luminaire Tested: **CCW-SA-2E-750-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677303
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-750-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

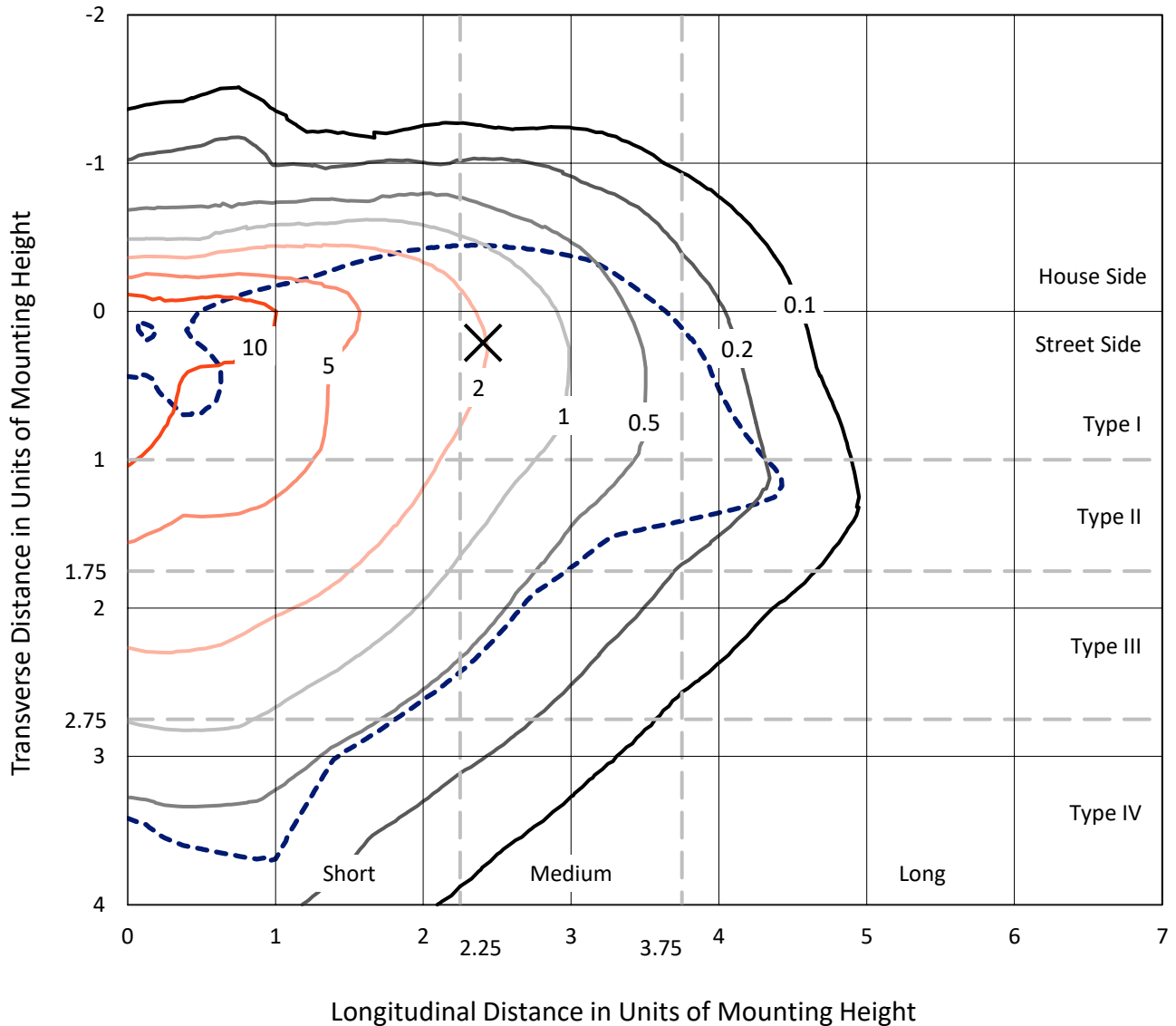
Lumens per Lamp: N/A
Luminaire Lumens: 10147.5 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

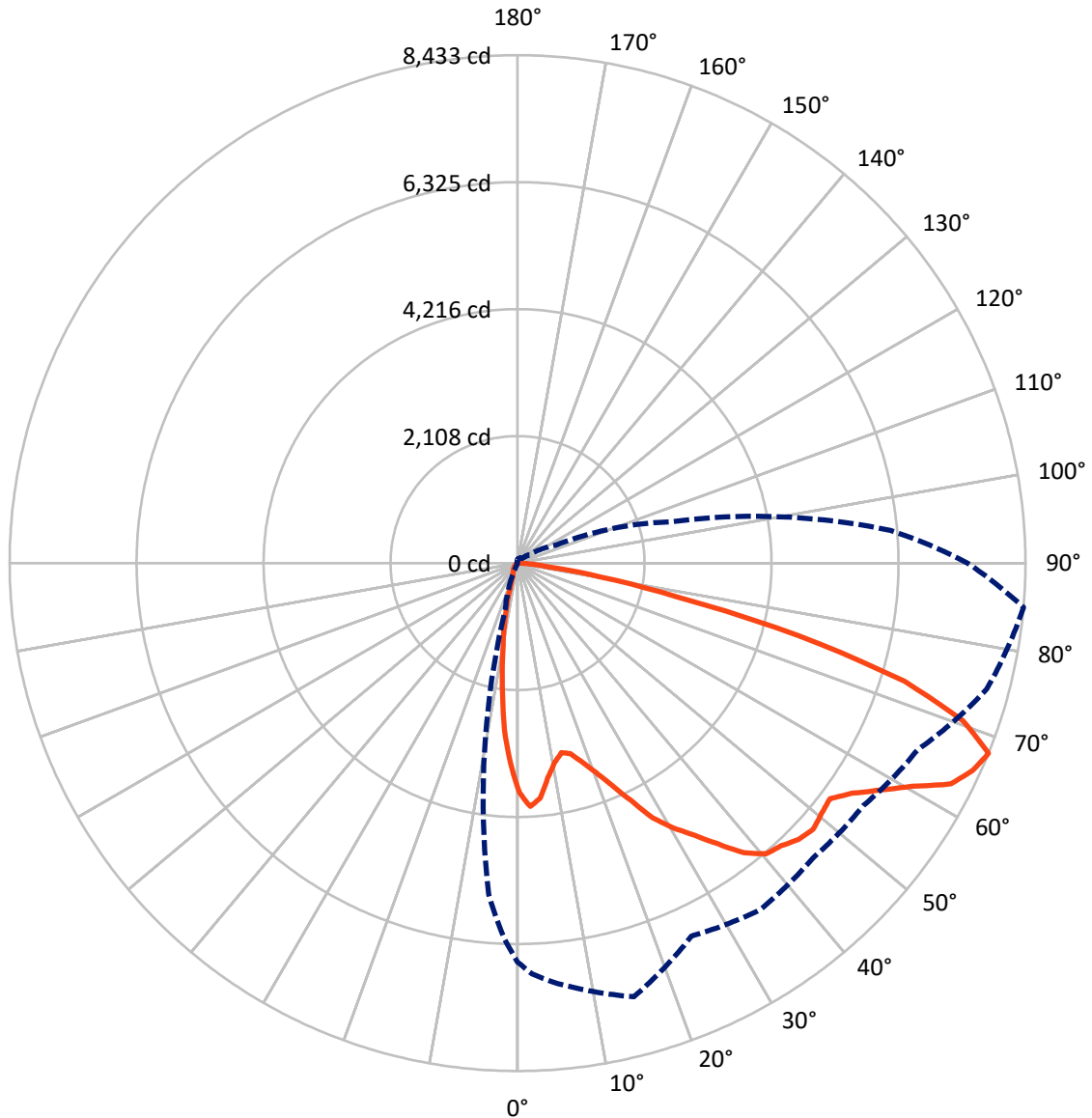
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 19.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1761.9	0.0	1761.9
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	8385.6	0.0	8385.6
	% Fixture	82.6	0.0	82.6
Total	Lumens	10147.5	0.0	10147.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.8	2.9
10°-20°	568.4	5.6
20°-30°	786.6	7.8
30°-40°	1111.6	11.0
40°-50°	1513.5	14.9
50°-60°	2004.5	19.8
60°-70°	2327.4	22.9
70°-80°	1318.0	13.0
80°-90°	227.7	2.2
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°	10147.5	100.0
0°-180°	10147.5	100.0



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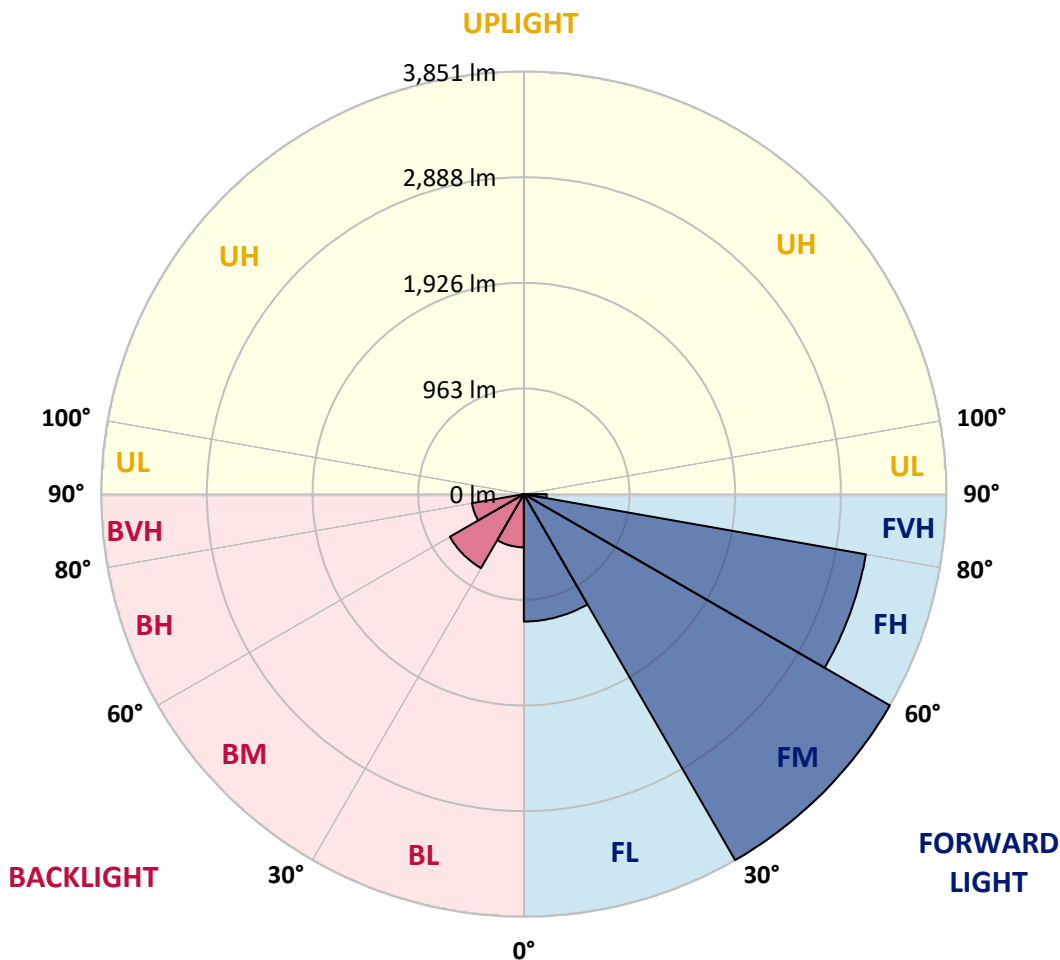
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1160.4	11.4			
FM	(30°-60°)	3851.1	38.0			
FH	(60°-80°)	3165.5	31.2			G2/5000
FVH	(80°-90°)	208.5	2.1			G2/225
BL	(0°-30°)	484.4	4.8	B1/500		
BM	(30°-60°)	778.5	7.7	B1/1000		
BH	(60°-80°)	479.8	4.7	B1/500		G1/500
BVH	(80°-90°)	19.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4
2.5°	3964.4	4048.4	4051.2	4089.1	4127.0	4127.0	4216.4	4194.8	4116.2	4102.6	4045.7
5°	3994.2	4024.1	4045.7	4238.1	4400.7	4384.5	4433.2	4400.7	4249.0	4053.9	3921.1
7.5°	3736.8	3769.3	3856.0	4183.9	4403.4	4476.6	4568.7	4365.5	4205.6	3853.3	3598.6
10°	3395.4	3457.7	3617.6	3991.5	4262.5	4495.6	4495.6	4333.0	4024.1	3679.9	3368.3
12.5°	3205.7	3330.3	3417.1	3796.4	4148.7	4308.6	4303.2	4216.4	4015.9	3582.4	3230.1
15°	3238.2	3273.4	3457.7	3753.1	3986.1	3978.0	4075.5	4048.4	3907.5	3669.1	3281.6
17.5°	3387.2	3441.4	3601.3	3753.1	3864.2	3831.7	3828.9	3959.0	3967.1	3815.4	3474.0
20°	3631.1	3791.0	3866.9	3913.0	3777.5	3639.3	3623.0	3804.6	3945.5	4002.4	3704.3
22.5°	4021.3	4127.0	4281.5	4045.7	3693.5	3520.0	3487.5	3688.0	3972.6	4224.6	4002.4
25°	4403.4	4484.7	4633.8	4330.3	3788.3	3495.6	3438.7	3612.2	4075.5	4533.5	4362.8
27.5°	4807.2	4877.6	4893.9	4538.9	3839.8	3446.9	3379.1	3612.2	4162.3	4696.1	4793.6
30°	5053.8	5137.8	5154.0	4723.2	3923.8	3487.5	3455.0	3628.4	4221.9	4834.3	5102.6
32.5°	5330.2	5351.9	5338.3	4755.7	4015.9	3606.7	3471.3	3736.8	4289.6	4999.6	5384.4
35°	5660.8	5698.7	5560.5	4904.7	4221.9	3682.6	3633.8	3869.6	4406.1	5075.5	5725.8
37.5°	5912.8	6032.0	5720.4	4961.6	4262.5	3842.5	3850.6	4146.0	4487.4	5167.6	6102.5
40°	6387.0	6186.5	5991.4	5156.7	4417.0	4113.5	4070.1	4430.5	4761.1	5227.2	6349.1
42.5°	6647.1	6541.5	6097.0	5175.7	4655.4	4487.4	4498.3	4753.0	4904.7	5395.2	6416.8
45°	6712.2	6601.1	6240.7	5189.3	4891.2	4929.1	5116.1	5164.9	5116.1	5506.3	6544.2
47.5°	6877.5	6636.3	6224.4	5370.8	5273.3	5419.6	5658.1	5763.7	5403.3	5465.7	6603.8
50°	6845.0	6706.8	6189.2	5446.7	5739.4	6126.9	6286.7	6243.4	5723.1	5381.7	6538.7
52.5°	6709.5	6560.4	6297.6	5652.6	6175.6	6644.4	6866.6	6758.2	6007.6	5571.3	6495.4
55°	6907.3	6793.5	6438.5	5931.8	6503.5	7099.7	7256.8	7175.5	6357.2	5747.5	6742.0
57.5°	7121.4	7097.0	6820.6	6259.6	6891.0	7568.5	7568.5	7468.2	6660.7	6002.2	7107.8
60°	7430.3	7484.5	7102.4	6476.4	7023.8	7541.4	7934.3	7817.8	6966.9	6449.3	7522.4
62.5°	7330.0	7503.4	7465.5	6942.5	7175.5	7674.2	7888.2	7974.9	7346.3	6994.0	8075.2
65°	7007.5	7191.8	7462.8	7248.7	7061.7	7351.7	7460.1	7722.9	7536.0	7506.1	8302.8
67.5°	6622.8	6823.3	6991.3	7454.7	6831.4	7023.8	6929.0	7013.0	7330.0	8067.1	8432.9
70°	5782.7	5975.1	6240.7	6996.7	6221.7	6048.3	6023.9	5983.2	6476.4	7866.5	7842.2
72.5°	4755.7	4845.1	5284.1	5687.9	4603.9	4571.4	4609.4	4563.3	5135.1	7121.4	6717.6
75°	3560.7	3650.1	3899.4	4368.2	3135.2	2948.3	3165.0	3379.1	3921.1	5528.0	4826.2
77.5°	2677.3	2791.1	2948.3	3268.0	2300.6	2008.0	2037.8	2241.0	2834.5	4427.8	2704.4
80°	1737.0	1723.4	2026.9	2249.1	1731.6	1785.8	1709.9	1858.9	2054.0	2368.4	1382.0
82.5°	1002.6	1016.2	1143.5	1289.9	1205.9	1379.3	994.5	1661.1	1466.0	964.7	514.9
85°	563.6	588.0	704.5	894.2	756.0	506.7	414.6	823.8	921.3	395.6	249.3
87.5°	56.9	48.8	94.8	338.7	205.9	84.0	124.7	197.8	222.2	149.0	73.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4
2.5°	3964.4	3964.4	3896.7	3782.9	3736.8	3655.5	3544.4	3579.6	3541.7	3403.5	3368.3
5°	3801.8	3671.8	3530.9	3357.4	3257.2	3051.2	2986.2	2869.7	2888.6	2772.1	2777.5
7.5°	3463.1	3360.2	3121.7	2894.1	2696.3	2517.4	2265.4	2170.5	2078.4	2032.3	2086.5
10°	3265.3	3072.9	2747.7	2449.7	2186.8	2026.9	1858.9	1728.9	1609.6	1520.2	1501.2
12.5°	3121.7	2951.0	2558.1	2194.9	1989.0	1858.9	1704.5	1525.6	1409.1	1254.6	1208.6
15°	3078.3	2869.7	2455.1	2094.7	1894.1	1680.1	1503.9	1327.8	1176.1	1013.5	956.6
17.5°	3227.4	2986.2	2452.4	2013.4	1731.6	1501.2	1257.3	1059.5	905.1	756.0	720.8
20°	3479.4	3110.9	2531.0	1964.6	1577.1	1268.2	991.8	794.0	620.5	523.0	498.6
22.5°	3766.6	3322.2	2539.1	1834.5	1422.6	1035.1	723.5	523.0	425.4	379.4	365.8
25°	4118.9	3660.9	2636.6	1728.9	1241.1	785.8	514.9	401.1	344.1	317.0	311.6
27.5°	4408.8	3896.7	2742.3	1617.8	1062.2	582.6	403.8	327.9	298.1	271.0	268.3
30°	4709.6	4167.7	2772.1	1550.0	907.8	479.6	346.9	289.9	257.4	243.9	241.2
32.5°	4972.5	4463.0	2867.0	1438.9	761.5	422.7	314.3	260.1	238.5	216.8	214.1
35°	5311.2	4633.8	2913.0	1379.3	707.3	382.1	287.2	238.5	205.9	192.4	187.0
37.5°	5674.3	4799.1	2942.8	1333.2	661.2	357.7	271.0	224.9	195.1	176.1	170.7
40°	6013.0	5032.1	2899.5	1276.3	626.0	327.9	260.1	208.7	181.6	162.6	154.5
42.5°	6273.2	5259.7	2885.9	1222.1	588.0	317.0	246.6	200.5	170.7	149.0	146.3
45°	6419.5	5414.2	2791.1	1178.8	558.2	322.5	241.2	189.7	162.6	143.6	132.8
47.5°	6384.3	5533.4	2815.5	1165.2	517.6	300.8	238.5	181.6	149.0	132.8	124.7
50°	6579.4	5774.6	2774.8	1121.9	487.8	271.0	260.1	181.6	146.3	127.4	119.2
52.5°	6611.9	5994.1	2861.5	1043.3	441.7	249.3	257.4	178.8	140.9	121.9	111.1
55°	6882.9	6248.8	3029.6	999.9	403.8	216.8	235.8	173.4	127.4	111.1	105.7
57.5°	7251.4	6777.2	3137.9	959.3	352.3	189.7	197.8	170.7	116.5	103.0	94.8
60°	7606.4	6988.6	3146.1	886.1	303.5	170.7	154.5	170.7	108.4	92.1	84.0
62.5°	7872.0	6988.6	3091.9	823.8	265.6	151.7	135.5	162.6	97.6	81.3	75.9
65°	7728.3	6801.6	2951.0	772.3	241.2	132.8	116.5	124.7	86.7	70.5	65.0
67.5°	7470.9	6219.0	2639.3	710.0	238.5	116.5	100.3	92.1	75.9	62.3	56.9
70°	7059.0	5433.1	2197.6	639.5	233.0	105.7	89.4	78.6	67.7	54.2	48.8
72.5°	5687.9	4487.4	1804.7	598.9	227.6	92.1	75.9	67.7	56.9	46.1	40.6
75°	3940.0	2867.0	1390.1	512.2	222.2	84.0	70.5	59.6	48.8	37.9	35.2
77.5°	2362.9	1915.8	896.9	384.8	146.3	67.7	59.6	46.1	40.6	32.5	29.8
80°	1105.6	905.1	363.1	149.0	70.5	48.8	40.6	35.2	32.5	27.1	24.4
82.5°	433.6	382.1	176.1	86.7	56.9	37.9	32.5	29.8	27.1	21.7	19.0
85°	233.0	205.9	84.0	59.6	40.6	27.1	27.1	24.4	21.7	19.0	16.3
87.5°	51.5	37.9	35.2	35.2	29.8	21.7	21.7	19.0	16.3	13.5	10.8
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4
2.5°	3349.3	3390.0	3324.9	3365.6	3308.7	3352.0	3357.4	3316.8	3327.6	3381.8	3406.2
5°	2853.4	2826.3	2766.7	2747.7	2750.4	2715.2	2728.8	2747.7	2777.5	2793.8	2842.6
7.5°	2056.7	2119.1	2116.4	2162.4	2165.1	2159.7	2121.8	2040.5	2067.6	2045.9	2073.0
10°	1471.4	1498.5	1550.0	1579.8	1634.0	1604.2	1517.5	1485.0	1468.7	1466.0	1493.1
12.5°	1176.1	1111.0	1105.6	1116.4	1143.5	1108.3	1065.0	1027.0	1046.0	1083.9	1113.7
15°	910.5	856.3	785.8	775.0	780.4	764.2	718.1	669.3	682.9	720.8	742.5
17.5°	699.1	636.8	588.0	555.5	544.7	487.8	420.0	379.4	368.5	365.8	384.8
20°	471.5	460.7	452.5	411.9	411.9	330.6	273.7	243.9	243.9	249.3	252.0
22.5°	352.3	338.7	341.4	333.3	311.6	246.6	216.8	208.7	208.7	214.1	214.1
25°	306.2	287.2	281.8	279.1	257.4	211.4	189.7	181.6	181.6	187.0	187.0
27.5°	260.1	254.7	246.6	235.8	216.8	181.6	168.0	159.9	162.6	165.3	162.6
30°	238.5	224.9	214.1	214.1	192.4	162.6	151.7	146.3	140.9	146.3	149.0
32.5°	211.4	203.2	197.8	189.7	165.3	143.6	132.8	127.4	124.7	124.7	127.4
35°	181.6	181.6	176.1	165.3	143.6	130.1	116.5	111.1	108.4	111.1	111.1
37.5°	162.6	154.5	157.2	146.3	127.4	113.8	100.3	94.8	94.8	92.1	94.8
40°	151.7	138.2	130.1	124.7	113.8	97.6	86.7	81.3	78.6	78.6	78.6
42.5°	135.5	124.7	108.4	105.7	103.0	84.0	70.5	67.7	65.0	62.3	62.3
45°	127.4	111.1	97.6	84.0	84.0	70.5	59.6	54.2	51.5	48.8	51.5
47.5°	116.5	100.3	84.0	70.5	67.7	56.9	46.1	40.6	37.9	37.9	37.9
50°	111.1	89.4	73.2	59.6	51.5	46.1	35.2	29.8	27.1	27.1	27.1
52.5°	103.0	84.0	65.0	51.5	40.6	35.2	27.1	21.7	19.0	19.0	19.0
55°	92.1	75.9	56.9	43.4	35.2	27.1	19.0	13.5	10.8	10.8	10.8
57.5°	86.7	67.7	48.8	37.9	27.1	19.0	10.8	8.1	8.1	5.4	8.1
60°	78.6	59.6	40.6	29.8	21.7	13.5	8.1	2.7	2.7	2.7	2.7
62.5°	67.7	51.5	35.2	24.4	16.3	8.1	2.7	0.0	0.0	0.0	0.0
65°	56.9	40.6	27.1	19.0	10.8	2.7	0.0	0.0	0.0	0.0	0.0
67.5°	48.8	35.2	21.7	13.5	8.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	43.4	29.8	16.3	10.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	35.2	24.4	13.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.8	19.0	8.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	24.4	13.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.0	10.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.3	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	2.7	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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4	3815.4
2.5°	3441.4	3425.2	3506.5	3639.3	3707.0	3839.8	3872.3	3956.3	3934.6	3964.4
5°	2848.0	2880.5	2999.7	3194.9	3265.3	3457.7	3639.3	3820.8	3937.3	3994.2
7.5°	2113.6	2222.0	2368.4	2547.2	2728.8	2980.8	3289.7	3501.1	3614.9	3736.8
10°	1574.4	1690.9	1858.9	2035.1	2330.4	2612.2	2921.2	3184.0	3281.6	3395.4
12.5°	1238.4	1419.9	1615.0	1804.7	1980.9	2249.1	2631.2	3013.3	3119.0	3205.7
15°	861.7	1083.9	1363.0	1609.6	1856.2	2089.3	2484.9	2948.3	3091.9	3238.2
17.5°	476.9	653.1	972.8	1319.7	1682.8	2040.5	2533.7	3067.5	3284.3	3387.2
20°	276.4	346.9	574.5	986.4	1466.0	1934.8	2558.1	3292.4	3579.6	3631.1
22.5°	227.6	252.0	325.2	617.8	1200.4	1867.1	2682.7	3606.7	3899.4	4021.3
25°	195.1	214.1	252.0	371.2	907.8	1723.4	2761.3	3999.7	4270.6	4403.4
27.5°	173.4	192.4	222.2	273.7	617.8	1525.6	2891.4	4354.6	4625.6	4807.2
30°	151.7	168.0	197.8	233.0	428.1	1303.4	3002.5	4614.8	4996.9	5053.8
32.5°	135.5	149.0	170.7	200.5	317.0	989.1	3091.9	4883.1	5205.5	5330.2
35°	116.5	132.8	146.3	170.7	241.2	745.2	3037.7	5091.7	5511.7	5660.8
37.5°	103.0	113.8	127.4	143.6	203.2	582.6	2926.6	5341.0	5774.6	5912.8
40°	86.7	94.8	111.1	127.4	184.3	449.8	2799.2	5641.8	6143.1	6387.0
42.5°	73.2	81.3	92.1	119.2	151.7	333.3	2541.8	5874.8	6441.2	6647.1
45°	56.9	67.7	84.0	119.2	121.9	246.6	2276.2	6048.3	6609.2	6712.2
47.5°	43.4	54.2	81.3	103.0	97.6	170.7	1961.9	6246.1	6782.6	6877.5
50°	32.5	43.4	92.1	89.4	81.3	130.1	1764.1	6384.3	6793.5	6845.0
52.5°	21.7	32.5	75.9	67.7	67.7	113.8	1709.9	6378.9	6820.6	6709.5
55°	16.3	24.4	43.4	48.8	59.6	100.3	1661.1	6582.1	6828.7	6907.3
57.5°	10.8	19.0	29.8	37.9	51.5	86.7	1560.8	6826.0	7080.7	7121.4
60°	5.4	13.5	21.7	29.8	43.4	75.9	1419.9	7004.8	7386.9	7430.3
62.5°	2.7	8.1	16.3	24.4	35.2	59.6	1273.6	6720.3	7254.1	7330.0
65°	0.0	5.4	10.8	16.3	21.7	43.4	1035.1	6067.2	6728.4	7007.5
67.5°	0.0	0.0	5.4	10.8	13.5	32.5	780.4	5519.9	6243.4	6622.8
70°	0.0	0.0	2.7	2.7	8.1	24.4	498.6	4571.4	5574.1	5782.7
72.5°	0.0	0.0	0.0	0.0	2.7	16.3	289.9	3395.4	4368.2	4755.7
75°	0.0	0.0	0.0	0.0	0.0	13.5	146.3	2184.1	3040.4	3560.7
77.5°	0.0	0.0	0.0	0.0	0.0	10.8	78.6	1409.1	2241.0	2677.3
80°	0.0	0.0	0.0	0.0	0.0	2.7	46.1	818.4	1433.5	1737.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	19.0	401.1	856.3	1002.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	214.1	428.1	563.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	29.8	56.9
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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