

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: P675896

Luminaire Tested: **CCW-SA-2E-830-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675896
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-830-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SLL distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

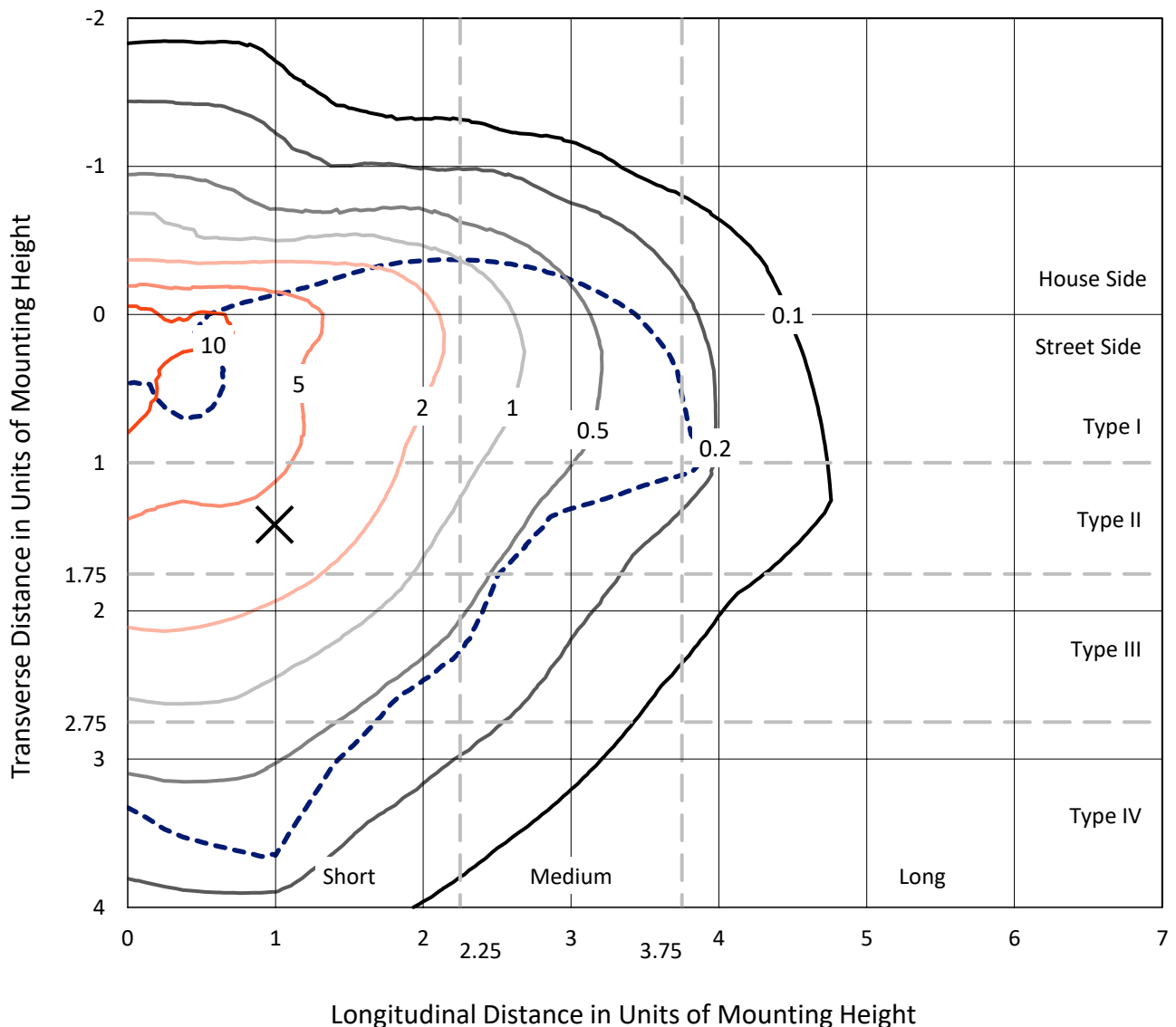
Lumens per Lamp: N/A
Luminaire Lumens: 9014.7 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

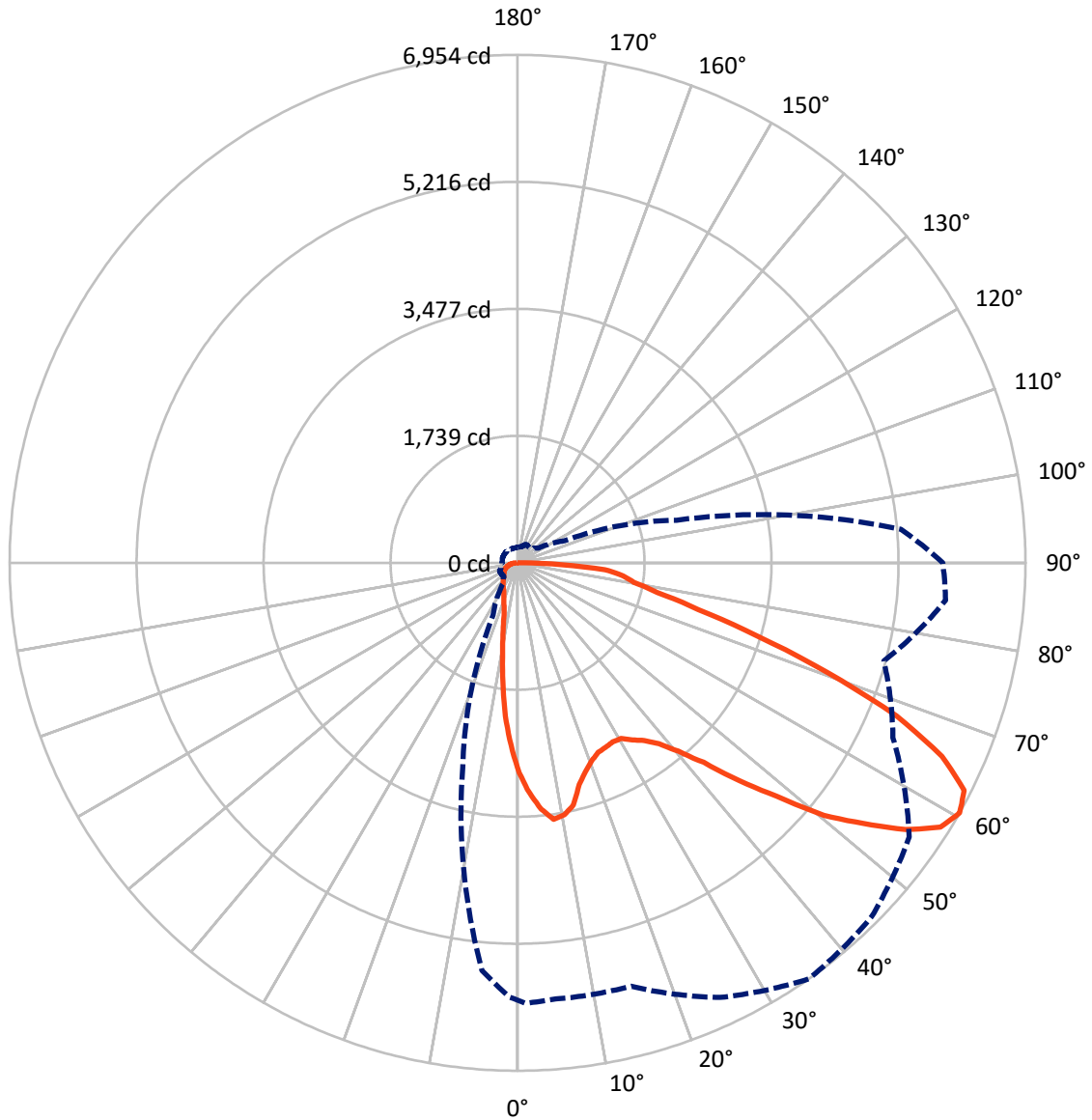
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1715.6	0.0	1715.6
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	7299.1	0.0	7299.1
	% Fixture	81.0	0.0	81.0
Total	Lumens	9014.7	0.0	9014.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	2.5
10°-20°	472.3	5.2
20°-30°	691.0	7.7
30°-40°	973.5	10.8
40°-50°	1337.9	14.8
50°-60°	1823.4	20.2
60°-70°	1995.7	22.1
70°-80°	1152.2	12.8
80°-90°	345.0	3.8
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°	9014.7	100.0
0°-180°	9014.7	100.0

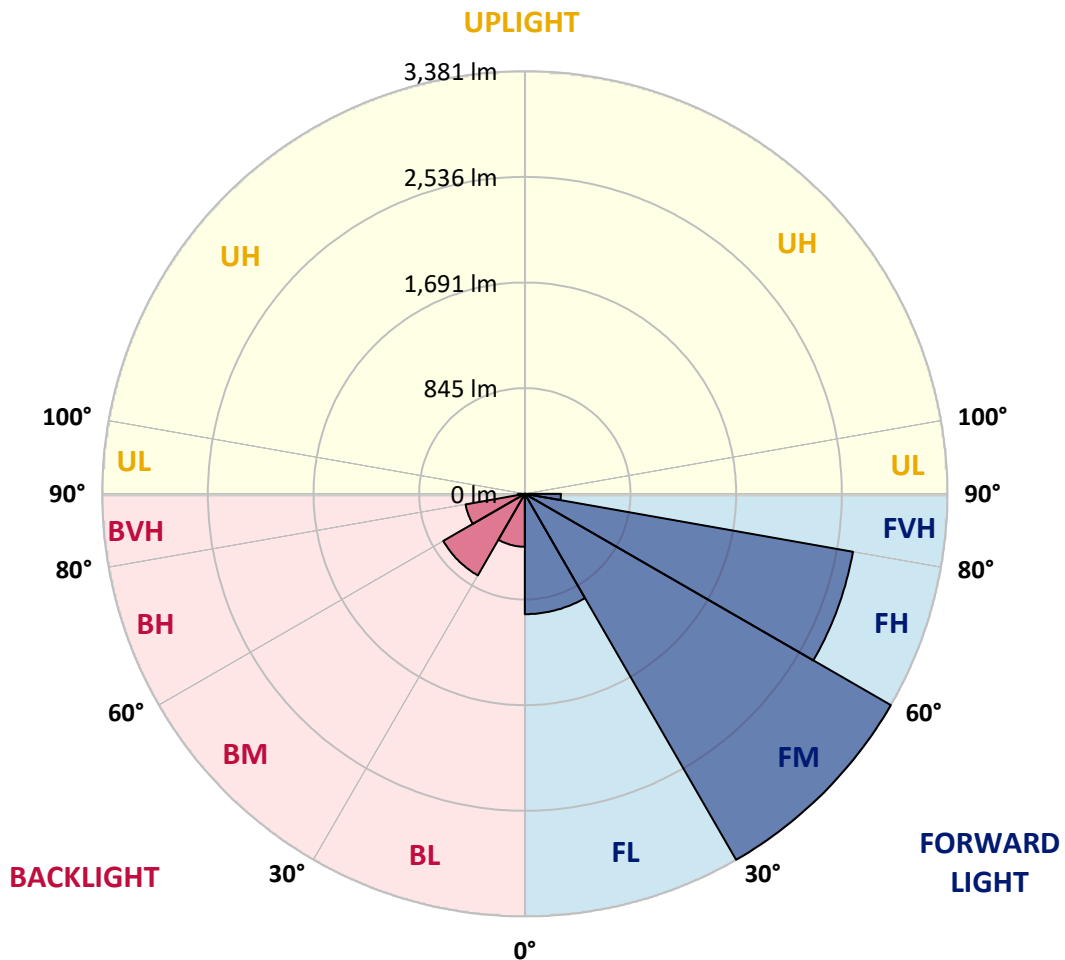


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	963.0	10.7			
FM (30°-60°)	3381.2	37.5			
FH (60°-80°)	2666.0	29.6			G2/5000
FVH (80°-90°)	288.8	3.2			G3/500
BL (0°-30°)	423.9	4.7	B1/500		
BM (30°-60°)	753.6	8.4	B1/1000		
BH (60°-80°)	481.9	5.3	B1/500		G1/500
BVH (80°-90°)	56.2	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°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2
2.5°	3083.2	3071.2	3083.2	3127.2	3139.2	3159.2	3159.2	3131.2	3079.2	3055.2	3015.2
5°	3151.2	3131.2	3231.1	3323.1	3395.1	3387.1	3319.1	3263.1	3159.2	3003.2	2855.2
7.5°	3015.2	3035.2	3107.2	3347.1	3515.1	3547.1	3439.1	3327.1	3103.2	2887.2	2687.3
10°	2759.3	2787.3	2943.2	3191.1	3455.1	3507.1	3439.1	3303.1	3035.2	2767.3	2535.3
12.5°	2635.3	2699.3	2791.3	3091.2	3279.1	3403.1	3371.1	3283.1	2983.2	2667.3	2443.3
15°	2635.3	2651.3	2787.3	3039.2	3147.2	3151.2	3163.2	3179.1	2999.2	2711.3	2411.4
17.5°	2719.3	2763.3	2879.2	3035.2	3055.2	3007.2	3007.2	3075.2	3031.2	2835.2	2527.3
20°	2923.2	2907.2	3059.2	3123.2	3015.2	2895.2	2883.2	2999.2	3067.2	2967.2	2739.3
22.5°	3127.2	3199.1	3323.1	3179.1	2979.2	2819.2	2803.3	2947.2	3175.2	3195.1	2983.2
25°	3435.1	3507.1	3571.0	3395.1	2975.2	2799.3	2811.2	2923.2	3307.1	3519.1	3391.1
27.5°	3767.0	3811.0	3903.0	3631.0	3071.2	2775.3	2787.3	2955.2	3431.1	3731.0	3711.0
30°	3954.9	4002.9	3982.9	3675.0	3135.2	2791.3	2759.3	2999.2	3363.1	3731.0	3919.0
32.5°	4138.9	4110.9	4098.9	3747.0	3215.1	2891.2	2811.2	3091.2	3403.1	3791.0	4186.9
35°	4362.8	4322.8	4290.9	3887.0	3347.1	2987.2	2951.2	3211.1	3491.1	3915.0	4402.8
37.5°	4610.8	4610.8	4454.8	3990.9	3503.1	3143.2	3103.2	3383.1	3631.0	3990.9	4698.7
40°	4902.7	4914.7	4638.8	4130.9	3679.0	3391.1	3379.1	3607.0	3767.0	4102.9	4982.7
42.5°	5118.6	5126.6	4798.7	4182.9	3883.0	3735.0	3787.0	3966.9	3923.0	4202.9	5002.7
45°	5266.6	5226.6	4910.7	4330.8	4106.9	4250.9	4266.9	4318.8	4126.9	4262.9	5082.6
47.5°	5338.6	5330.6	4958.7	4502.8	4578.8	4774.7	4866.7	4794.7	4314.8	4198.9	5082.6
50°	5410.6	5342.6	5002.7	4738.7	5038.7	5434.5	5414.6	5282.6	4574.8	4278.9	5006.7
52.5°	5458.5	5398.6	5090.6	4950.7	5478.5	5926.4	6006.4	5762.5	4878.7	4426.8	5042.7
55°	5630.5	5582.5	5354.6	5238.6	5986.4	6446.3	6458.3	6118.4	5198.6	4670.8	5278.6
57.5°	5838.4	5866.4	5718.5	5646.5	6374.3	6826.2	6782.2	6382.3	5470.5	4966.7	5550.5
60°	5986.4	6030.4	5994.4	6002.4	6566.2	6954.1	6854.2	6546.2	5670.5	5190.6	5882.4
62.5°	5906.4	5994.4	6142.4	6110.4	6574.2	6862.2	6722.2	6330.3	5694.5	5482.5	6134.4
65°	5686.5	5694.5	5982.4	6158.4	6214.3	6386.3	6202.3	5878.4	5446.5	5662.5	6098.4
67.5°	5122.6	5186.6	5446.5	5790.5	5554.5	5594.5	5578.5	5110.6	5070.6	5538.5	5822.4
70°	4522.8	4566.8	4850.7	5254.6	4690.7	4502.8	4538.8	4190.9	4354.8	5154.6	5266.6
72.5°	3739.0	3767.0	4090.9	4446.8	3763.0	3427.1	3511.1	3227.1	3459.1	4510.8	4442.8
75°	2823.2	2875.2	3127.2	3547.1	2771.3	2555.3	2639.3	2523.3	2739.3	3715.0	3447.1
77.5°	2007.5	1967.5	2279.4	2775.3	2083.4	1955.5	1963.5	1983.5	2215.4	3131.2	2475.3
80°	1367.6	1379.6	1659.6	2035.5	1635.6	1615.6	1595.6	1755.5	1859.5	2479.3	1799.5
82.5°	811.8	811.8	1119.7	1447.6	1291.7	1455.6	1363.6	1507.6	1455.6	1823.5	1179.7
85°	379.9	379.9	575.8	1043.7	999.7	1199.7	1019.7	1139.7	1075.7	1271.7	531.9
87.5°	64.0	56.0	116.0	511.9	411.9	467.9	184.0	607.8	675.8	887.8	132.0
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°	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2
2.5°	2971.2	2943.2	2887.2	2815.2	2755.3	2679.3	2655.3	2603.3	2531.3	2523.3	2491.3
5°	2799.3	2703.3	2583.3	2435.3	2335.4	2231.4	2143.4	2091.4	2031.5	2023.5	2007.5
7.5°	2611.3	2491.3	2291.4	2115.4	1943.5	1779.5	1699.5	1599.6	1531.6	1479.6	1455.6
10°	2435.3	2323.4	2075.4	1835.5	1683.5	1575.6	1479.6	1375.6	1291.7	1227.7	1203.7
12.5°	2319.4	2187.4	1919.5	1691.5	1579.6	1455.6	1347.6	1235.7	1127.7	1043.7	999.7
15°	2267.4	2143.4	1871.5	1619.6	1455.6	1283.7	1159.7	1047.7	915.8	855.8	835.8
17.5°	2391.4	2207.4	1855.5	1535.6	1303.7	1107.7	955.7	835.8	739.8	679.8	655.8
20°	2551.3	2323.4	1883.5	1435.6	1159.7	939.7	771.8	643.8	579.8	535.9	531.9
22.5°	2755.3	2495.3	1927.5	1363.6	999.7	755.8	603.8	527.9	483.9	479.9	471.9
25°	3119.2	2807.2	1999.5	1267.7	871.8	623.8	515.9	471.9	451.9	439.9	447.9
27.5°	3431.1	3011.2	2051.5	1207.7	819.8	587.8	499.9	451.9	431.9	427.9	431.9
30°	3615.0	3199.1	2035.5	1095.7	715.8	559.9	531.9	515.9	475.9	443.9	443.9
32.5°	3783.0	3319.1	2031.5	995.7	611.8	467.9	443.9	431.9	455.9	471.9	459.9
35°	4014.9	3507.1	2019.5	939.7	567.8	431.9	391.9	359.9	343.9	335.9	347.9
37.5°	4262.9	3635.0	1987.5	931.8	543.9	411.9	379.9	347.9	331.9	323.9	319.9
40°	4534.8	3771.0	1951.5	891.8	531.9	399.9	367.9	339.9	319.9	307.9	303.9
42.5°	4710.7	3879.0	1915.5	871.8	507.9	391.9	355.9	331.9	311.9	295.9	295.9
45°	4810.7	4006.9	1879.5	851.8	479.9	395.9	355.9	323.9	299.9	291.9	283.9
47.5°	4854.7	4102.9	1867.5	819.8	455.9	379.9	347.9	315.9	291.9	275.9	271.9
50°	4970.7	4306.8	1911.5	795.8	427.9	363.9	367.9	311.9	287.9	267.9	263.9
52.5°	5038.7	4470.8	2007.5	759.8	407.9	343.9	359.9	303.9	275.9	255.9	255.9
55°	5286.6	4742.7	2111.4	731.8	383.9	315.9	331.9	287.9	255.9	243.9	243.9
57.5°	5602.5	5030.7	2199.4	719.8	367.9	295.9	295.9	279.9	243.9	227.9	223.9
60°	5822.4	5266.6	2251.4	711.8	351.9	275.9	263.9	279.9	231.9	215.9	211.9
62.5°	5846.4	5130.6	2199.4	707.8	347.9	255.9	239.9	267.9	219.9	203.9	195.9
65°	5694.5	4854.7	2055.5	691.8	343.9	235.9	223.9	231.9	203.9	191.9	184.0
67.5°	5390.6	4406.8	1847.5	683.8	339.9	219.9	203.9	199.9	187.9	176.0	168.0
70°	4682.7	3823.0	1603.6	647.8	331.9	207.9	184.0	180.0	168.0	160.0	156.0
72.5°	3930.9	3127.2	1323.6	599.8	315.9	187.9	168.0	160.0	156.0	144.0	140.0
75°	3011.2	2407.4	1059.7	531.9	275.9	168.0	148.0	140.0	136.0	128.0	124.0
77.5°	2115.4	1791.5	783.8	431.9	231.9	152.0	132.0	124.0	120.0	108.0	108.0
80°	1435.6	1255.7	531.9	299.9	180.0	124.0	116.0	108.0	100.0	92.0	92.0
82.5°	891.8	879.8	383.9	195.9	132.0	100.0	92.0	92.0	80.0	72.0	72.0
85°	407.9	539.9	267.9	136.0	100.0	76.0	76.0	72.0	64.0	52.0	52.0
87.5°	128.0	180.0	140.0	60.0	56.0	44.0	44.0	40.0	40.0	32.0	32.0
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°	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2
2.5°	2523.3	2519.3	2519.3	2503.3	2543.3	2543.3	2567.3	2547.3	2559.3	2563.3	2595.3
5°	2003.5	2035.5	2059.4	2107.4	2135.4	2147.4	2147.4	2179.4	2167.4	2191.4	2239.4
7.5°	1467.6	1507.6	1579.6	1639.6	1687.5	1703.5	1699.5	1707.5	1719.5	1691.5	1699.5
10°	1187.7	1159.7	1183.7	1239.7	1283.7	1335.6	1295.7	1291.7	1303.7	1291.7	1315.6
12.5°	991.7	959.7	939.7	939.7	971.7	995.7	983.7	1003.7	1047.7	1059.7	1087.7
15°	803.8	775.8	759.8	739.8	771.8	779.8	791.8	819.8	851.8	867.8	899.8
17.5°	643.8	643.8	643.8	627.8	639.8	651.8	655.8	691.8	695.8	711.8	723.8
20°	527.9	539.9	559.9	567.8	579.8	579.8	571.8	591.8	575.8	587.8	595.8
22.5°	475.9	491.9	499.9	503.9	519.9	523.9	503.9	507.9	511.9	499.9	503.9
25°	447.9	455.9	447.9	451.9	455.9	447.9	451.9	459.9	455.9	463.9	459.9
27.5°	435.9	427.9	423.9	419.9	419.9	411.9	415.9	415.9	423.9	427.9	427.9
30°	435.9	423.9	407.9	395.9	395.9	383.9	391.9	399.9	403.9	411.9	411.9
32.5°	447.9	423.9	395.9	383.9	371.9	363.9	371.9	383.9	399.9	403.9	407.9
35°	355.9	367.9	363.9	347.9	343.9	343.9	339.9	339.9	327.9	327.9	323.9
37.5°	319.9	315.9	323.9	327.9	331.9	319.9	319.9	303.9	299.9	303.9	303.9
40°	299.9	299.9	299.9	311.9	315.9	307.9	295.9	287.9	287.9	287.9	291.9
42.5°	291.9	283.9	279.9	287.9	299.9	291.9	279.9	275.9	275.9	279.9	279.9
45°	279.9	275.9	271.9	267.9	283.9	271.9	267.9	263.9	263.9	263.9	267.9
47.5°	267.9	263.9	255.9	255.9	259.9	255.9	251.9	251.9	251.9	259.9	259.9
50°	259.9	255.9	247.9	247.9	247.9	247.9	243.9	243.9	243.9	247.9	251.9
52.5°	247.9	243.9	239.9	235.9	235.9	235.9	235.9	235.9	235.9	239.9	243.9
55°	235.9	231.9	227.9	227.9	231.9	231.9	227.9	231.9	227.9	231.9	235.9
57.5°	223.9	219.9	215.9	219.9	223.9	219.9	219.9	219.9	219.9	219.9	223.9
60°	207.9	207.9	207.9	207.9	215.9	215.9	215.9	215.9	207.9	211.9	215.9
62.5°	199.9	195.9	195.9	199.9	203.9	203.9	207.9	203.9	199.9	203.9	203.9
65°	184.0	184.0	184.0	187.9	187.9	191.9	191.9	191.9	187.9	191.9	191.9
67.5°	172.0	172.0	172.0	172.0	180.0	180.0	180.0	180.0	176.0	176.0	180.0
70°	152.0	156.0	152.0	160.0	168.0	164.0	168.0	168.0	164.0	160.0	168.0
72.5°	140.0	140.0	140.0	140.0	152.0	152.0	152.0	156.0	152.0	148.0	152.0
75°	124.0	124.0	124.0	128.0	136.0	136.0	136.0	136.0	136.0	132.0	132.0
77.5°	108.0	112.0	108.0	112.0	120.0	116.0	120.0	124.0	120.0	116.0	116.0
80°	92.0	92.0	92.0	96.0	100.0	100.0	100.0	104.0	100.0	96.0	96.0
82.5°	72.0	72.0	76.0	76.0	80.0	80.0	80.0	84.0	80.0	76.0	76.0
85°	56.0	56.0	56.0	60.0	60.0	64.0	64.0	68.0	68.0	64.0	64.0
87.5°	36.0	32.0	36.0	36.0	40.0	40.0	36.0	32.0	36.0	32.0	28.0
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°	359°	360°
0°	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2
2.5°	2627.3	2699.3	2751.3	2787.3	2839.2	2939.2	2979.2	3051.2	3071.2	3083.2
5°	2259.4	2335.4	2447.3	2527.3	2619.3	2807.2	2951.2	3059.2	3107.2	3151.2
7.5°	1771.5	1871.5	1987.5	2091.4	2243.4	2475.3	2663.3	2887.2	2971.2	3015.2
10°	1383.6	1475.6	1603.6	1731.5	1943.5	2139.4	2407.4	2611.3	2727.3	2759.3
12.5°	1167.7	1275.7	1427.6	1583.6	1715.5	1939.5	2211.4	2507.3	2615.3	2635.3
15°	991.7	1139.7	1295.7	1455.6	1607.6	1803.5	2095.4	2455.3	2615.3	2635.3
17.5°	819.8	951.7	1135.7	1307.7	1483.6	1751.5	2115.4	2499.3	2659.3	2719.3
20°	651.8	779.8	923.8	1139.7	1379.6	1663.6	2159.4	2647.3	2859.2	2923.2
22.5°	539.9	595.8	735.8	943.7	1227.7	1603.6	2203.4	2879.2	3103.2	3127.2
25°	471.9	511.9	599.8	795.8	1107.7	1563.6	2307.4	3147.2	3435.1	3435.1
27.5°	439.9	455.9	515.9	691.8	1023.7	1527.6	2411.4	3443.1	3711.0	3767.0
30°	431.9	471.9	503.9	615.8	931.8	1427.6	2507.3	3675.0	3950.9	3954.9
32.5°	423.9	415.9	439.9	535.9	819.8	1323.6	2587.3	3911.0	4126.9	4138.9
35°	331.9	347.9	387.9	471.9	735.8	1247.7	2627.3	4038.9	4350.8	4362.8
37.5°	311.9	331.9	363.9	435.9	679.8	1183.7	2639.3	4286.9	4586.8	4610.8
40°	303.9	319.9	343.9	403.9	635.8	1103.7	2663.3	4542.8	4934.7	4902.7
42.5°	287.9	307.9	331.9	387.9	599.8	1043.7	2667.3	4682.7	5118.6	5118.6
45°	283.9	295.9	323.9	387.9	559.9	991.7	2603.3	4822.7	5330.6	5266.6
47.5°	267.9	291.9	315.9	375.9	511.9	939.7	2527.3	4894.7	5358.6	5338.6
50°	263.9	287.9	327.9	355.9	483.9	915.8	2511.3	5074.6	5414.6	5410.6
52.5°	255.9	279.9	339.9	339.9	447.9	883.8	2587.3	5154.6	5426.5	5458.5
55°	243.9	279.9	315.9	311.9	415.9	843.8	2671.3	5362.6	5638.5	5630.5
57.5°	235.9	271.9	299.9	283.9	379.9	815.8	2795.3	5562.5	5894.4	5838.4
60°	223.9	271.9	267.9	263.9	351.9	791.8	2899.2	5602.5	5950.4	5986.4
62.5°	215.9	283.9	235.9	243.9	327.9	779.8	2855.2	5302.6	5874.4	5906.4
65°	207.9	243.9	215.9	223.9	319.9	755.8	2683.3	4942.7	5546.5	5686.5
67.5°	191.9	199.9	199.9	207.9	311.9	699.8	2331.4	4294.9	5046.7	5122.6
70°	176.0	180.0	180.0	191.9	303.9	635.8	1923.5	3715.0	4378.8	4522.8
72.5°	160.0	160.0	160.0	176.0	279.9	583.8	1583.6	2855.2	3639.0	3739.0
75°	140.0	140.0	140.0	156.0	251.9	531.9	1247.7	2123.4	2679.3	2823.2
77.5°	124.0	124.0	120.0	140.0	219.9	431.9	899.8	1499.6	1887.5	2007.5
80°	104.0	100.0	100.0	112.0	172.0	311.9	579.8	1059.7	1315.6	1367.6
82.5°	84.0	80.0	76.0	84.0	124.0	195.9	359.9	739.8	843.8	811.8
85°	80.0	84.0	68.0	64.0	88.0	128.0	227.9	455.9	379.9	379.9
87.5°	32.0	28.0	28.0	24.0	44.0	48.0	100.0	84.0	64.0	64.0
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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