

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: P675886

Luminaire Tested: **CCW-SA-1A-830-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675886
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-830-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SLL distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

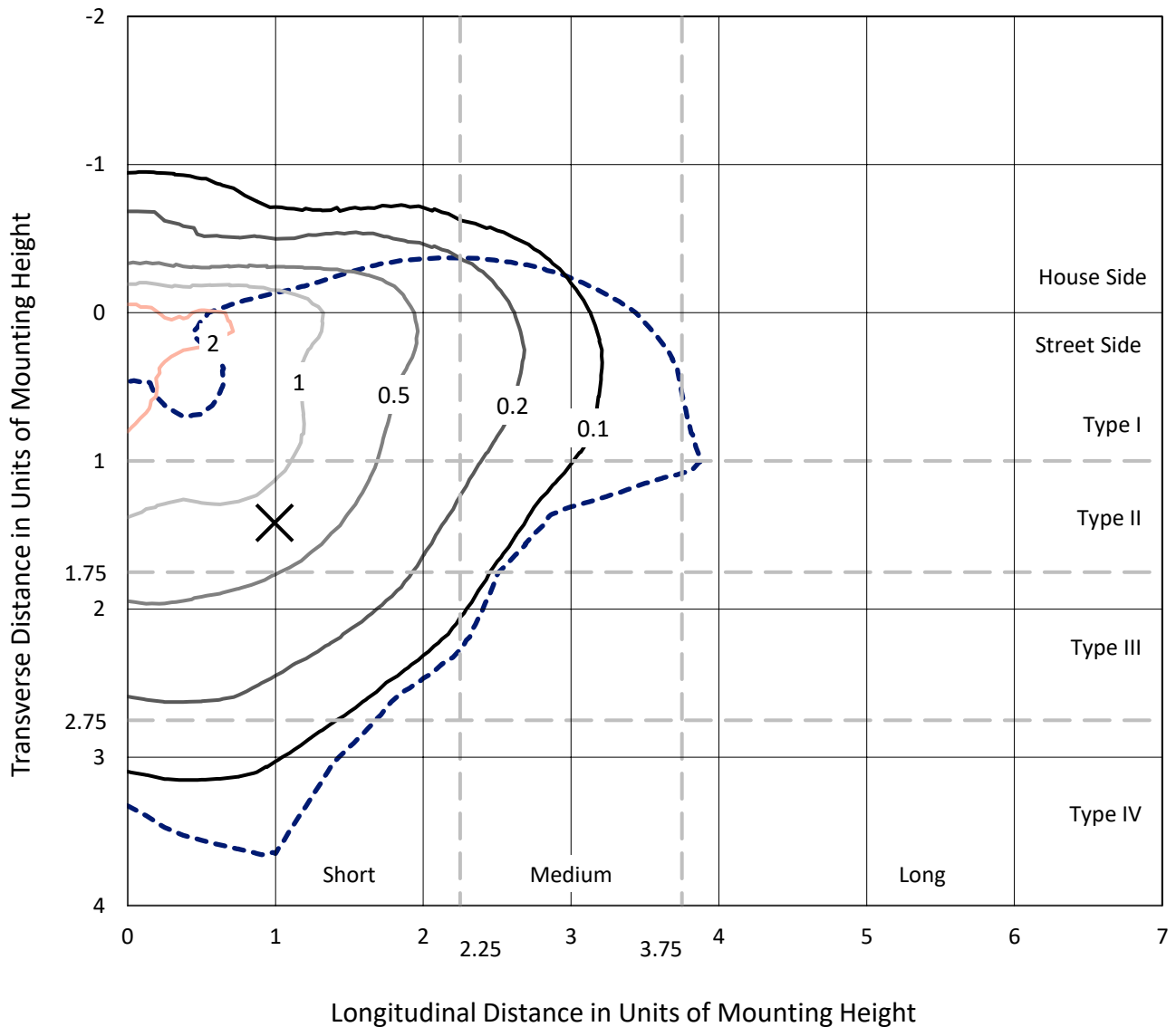
Lumens per Lamp: N/A
Luminaire Lumens: 1803.7 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
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

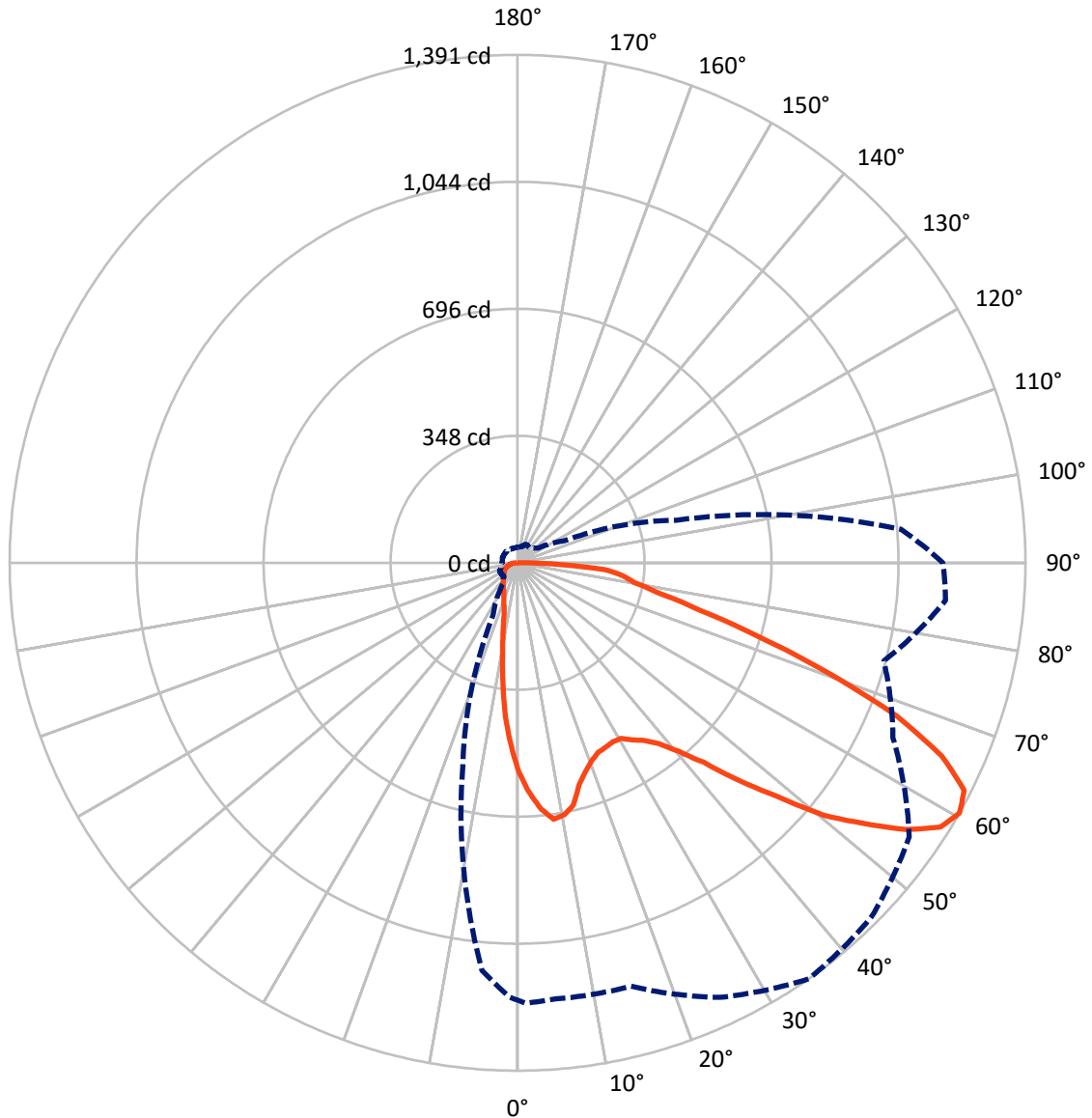
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 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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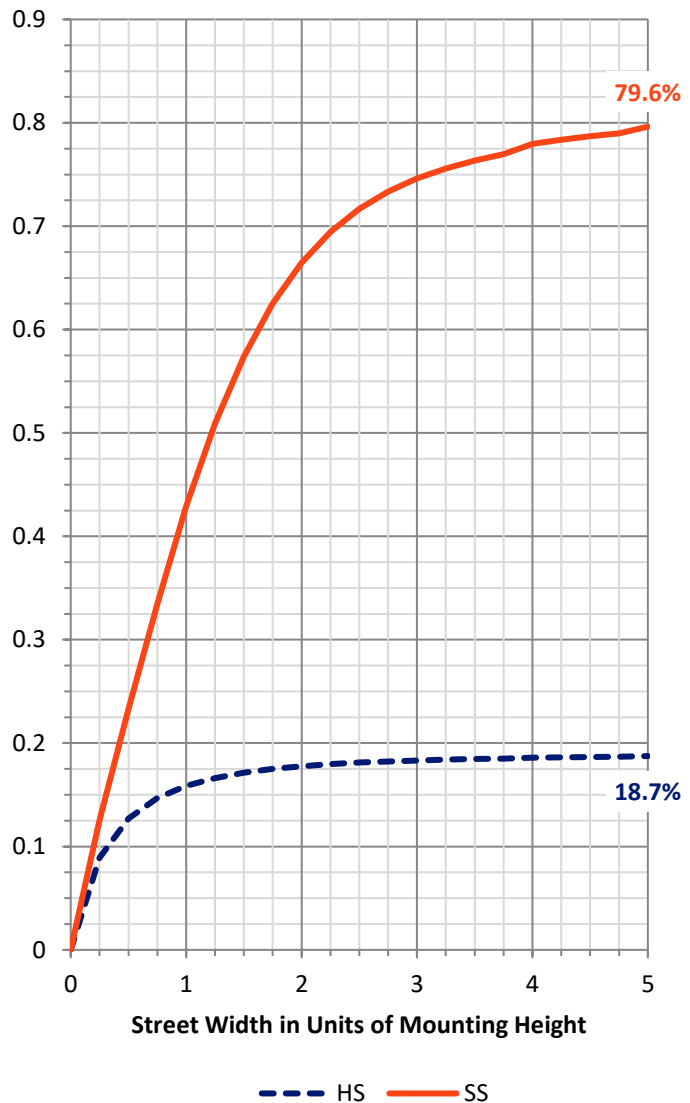
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	343.2	0.0	343.2
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1460.4	0.0	1460.4
	% Fixture	81.0	0.0	81.0
Total	Lumens	1803.7	0.0	1803.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	2.5
10°-20°	94.5	5.2
20°-30°	138.2	7.7
30°-40°	194.8	10.8
40°-50°	267.7	14.8
50°-60°	364.8	20.2
60°-70°	399.3	22.1
70°-80°	230.5	12.8
80°-90°	69.0	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°	1803.7	100.0
0°-180°	1803.7	100.0

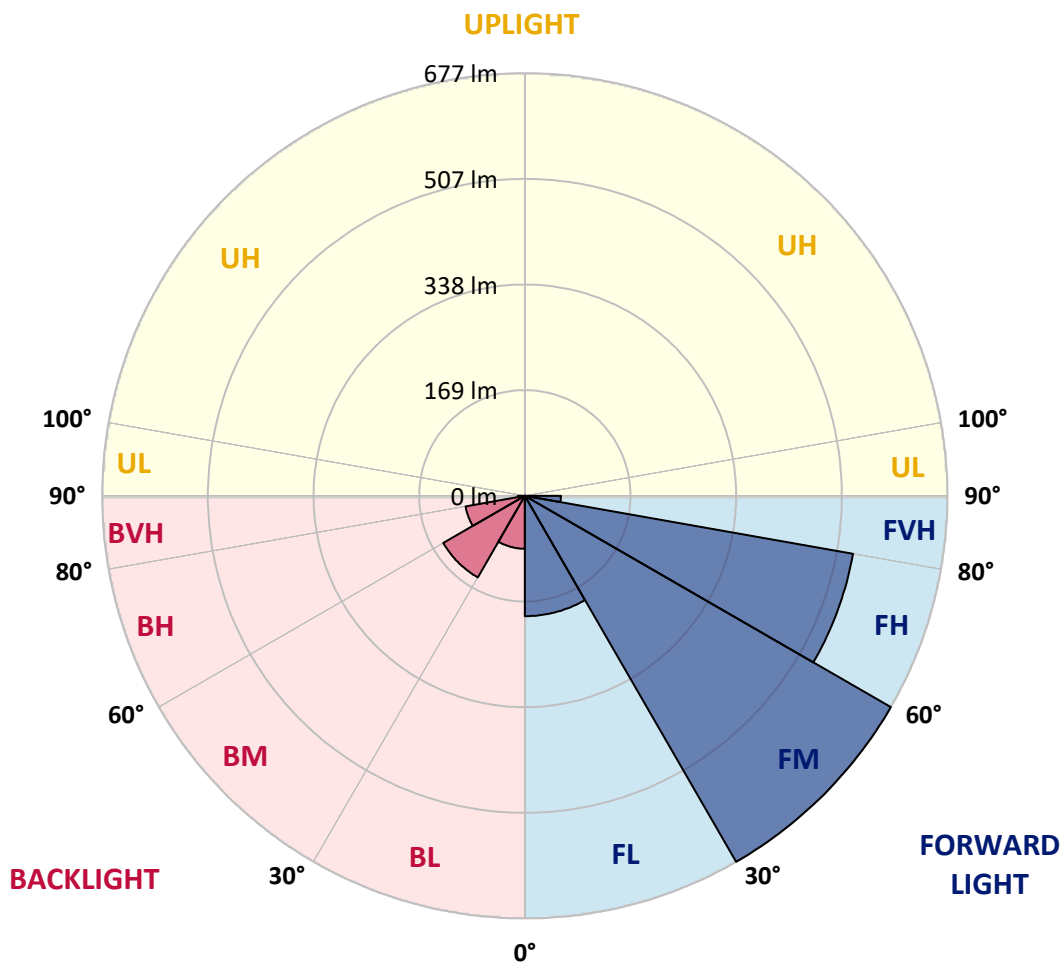


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	192.7	10.7			
FM (30°-60°)	676.5	37.5			
FH (60°-80°)	533.4	29.6			G0/660
FVH (80°-90°)	57.8	3.2			G1/100
BL (0°-30°)	84.8	4.7	B0/110		
BM (30°-60°)	150.8	8.4	B0/220		
BH (60°-80°)	96.4	5.3	B0/110		G0/110
BVH (80°-90°)	11.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1
2.5°	616.9	614.5	616.9	625.7	628.1	632.1	632.1	626.5	616.1	611.3	603.3
5°	630.5	626.5	646.5	664.9	679.3	677.7	664.1	652.9	632.1	600.9	571.3
7.5°	603.3	607.3	621.7	669.7	703.3	709.7	688.1	665.7	620.9	577.7	537.7
10°	552.1	557.7	588.9	638.5	691.3	701.7	688.1	660.9	607.3	553.7	507.3
12.5°	527.3	540.1	558.5	618.5	656.1	680.9	674.5	656.9	596.9	533.7	488.9
15°	527.3	530.5	557.7	608.1	629.7	630.5	632.9	636.1	600.1	542.5	482.5
17.5°	544.1	552.9	576.1	607.3	611.3	601.7	601.7	615.3	606.5	567.3	505.7
20°	584.9	581.7	612.1	624.9	603.3	579.3	576.9	600.1	613.7	593.7	548.1
22.5°	625.7	640.1	664.9	636.1	596.1	564.1	560.9	589.7	635.3	639.3	596.9
25°	687.3	701.7	714.5	679.3	595.3	560.1	562.5	584.9	661.7	704.1	678.5
27.5°	753.7	762.5	780.9	726.5	614.5	555.3	557.7	591.3	686.5	746.5	742.5
30°	791.3	800.9	796.9	735.3	627.3	558.5	552.1	600.1	672.9	746.5	784.1
32.5°	828.1	822.5	820.1	749.7	643.3	578.5	562.5	618.5	680.9	758.5	837.7
35°	873.0	864.9	858.5	777.7	669.7	597.7	590.5	642.5	698.5	783.3	881.0
37.5°	922.6	922.6	891.4	798.5	700.9	628.9	620.9	676.9	726.5	798.5	940.2
40°	981.0	983.4	928.2	826.5	736.1	678.5	676.1	721.7	753.7	820.9	997.0
42.5°	1024.2	1025.8	960.2	836.9	776.9	747.3	757.7	793.7	784.9	840.9	1001.0
45°	1053.8	1045.8	982.6	866.5	821.7	850.5	853.7	864.1	825.7	852.9	1017.0
47.5°	1068.2	1066.6	992.2	901.0	916.2	955.4	973.8	959.4	863.3	840.1	1017.0
50°	1082.6	1069.0	1001.0	948.2	1008.2	1087.4	1083.4	1057.0	915.4	856.1	1001.8
52.5°	1092.2	1080.2	1018.6	990.6	1096.2	1185.8	1201.8	1153.0	976.2	885.8	1009.0
55°	1126.6	1117.0	1071.4	1048.2	1197.8	1289.8	1292.2	1224.2	1040.2	934.6	1056.2
57.5°	1168.2	1173.8	1144.2	1129.8	1275.4	1365.8	1357.0	1277.0	1094.6	993.8	1110.6
60°	1197.8	1206.6	1199.4	1201.0	1313.8	1391.4	1371.4	1309.8	1134.6	1038.6	1177.0
62.5°	1181.8	1199.4	1229.0	1222.6	1315.4	1373.0	1345.0	1266.6	1139.4	1097.0	1227.4
65°	1137.8	1139.4	1197.0	1232.2	1243.4	1277.8	1241.0	1176.2	1089.8	1133.0	1220.2
67.5°	1025.0	1037.8	1089.8	1158.6	1111.4	1119.4	1116.2	1022.6	1014.6	1108.2	1165.0
70°	905.0	913.8	970.6	1051.4	938.6	901.0	908.2	838.5	871.4	1031.4	1053.8
72.5°	748.1	753.7	818.5	889.8	752.9	685.7	702.5	645.7	692.1	902.6	889.0
75°	564.9	575.3	625.7	709.7	554.5	511.3	528.1	504.9	548.1	743.3	689.7
77.5°	401.7	393.7	456.1	555.3	416.9	391.3	392.9	396.9	443.3	626.5	495.3
80°	273.6	276.0	332.1	407.3	327.3	323.3	319.3	351.3	372.1	496.1	360.1
82.5°	162.4	162.4	224.0	289.6	258.4	291.3	272.8	301.7	291.3	364.9	236.0
85°	76.0	76.0	115.2	208.8	200.0	240.0	204.0	228.0	215.2	254.4	106.4
87.5°	12.8	11.2	23.2	102.4	82.4	93.6	36.8	121.6	135.2	177.6	26.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1
2.5°	594.5	588.9	577.7	563.3	551.3	536.1	531.3	520.9	506.5	504.9	498.5
5°	560.1	540.9	516.9	487.3	467.3	446.5	428.9	418.5	406.5	404.9	401.7
7.5°	522.5	498.5	458.5	423.3	388.9	356.1	340.1	320.1	306.5	296.1	291.3
10°	487.3	464.9	415.3	367.3	336.9	315.3	296.1	275.2	258.4	245.6	240.8
12.5°	464.1	437.7	384.1	338.5	316.1	291.3	269.6	247.2	225.6	208.8	200.0
15°	453.7	428.9	374.5	324.1	291.3	256.8	232.0	209.6	183.2	171.2	167.2
17.5°	478.5	441.7	371.3	307.3	260.8	221.6	191.2	167.2	148.0	136.0	131.2
20°	510.5	464.9	376.9	287.2	232.0	188.0	154.4	128.8	116.0	107.2	106.4
22.5°	551.3	499.3	385.7	272.8	200.0	151.2	120.8	105.6	96.8	96.0	94.4
25°	624.1	561.7	400.1	253.6	174.4	124.8	103.2	94.4	90.4	88.0	89.6
27.5°	686.5	602.5	410.5	241.6	164.0	117.6	100.0	90.4	86.4	85.6	86.4
30°	723.3	640.1	407.3	219.2	143.2	112.0	106.4	103.2	95.2	88.8	88.8
32.5°	756.9	664.1	406.5	199.2	122.4	93.6	88.8	86.4	91.2	94.4	92.0
35°	803.3	701.7	404.1	188.0	113.6	86.4	78.4	72.0	68.8	67.2	69.6
37.5°	852.9	727.3	397.7	186.4	108.8	82.4	76.0	69.6	66.4	64.8	64.0
40°	907.4	754.5	390.5	178.4	106.4	80.0	73.6	68.0	64.0	61.6	60.8
42.5°	942.6	776.1	383.3	174.4	101.6	78.4	71.2	66.4	62.4	59.2	59.2
45°	962.6	801.7	376.1	170.4	96.0	79.2	71.2	64.8	60.0	58.4	56.8
47.5°	971.4	820.9	373.7	164.0	91.2	76.0	69.6	63.2	58.4	55.2	54.4
50°	994.6	861.7	382.5	159.2	85.6	72.8	73.6	62.4	57.6	53.6	52.8
52.5°	1008.2	894.6	401.7	152.0	81.6	68.8	72.0	60.8	55.2	51.2	51.2
55°	1057.8	949.0	422.5	146.4	76.8	63.2	66.4	57.6	51.2	48.8	48.8
57.5°	1121.0	1006.6	440.1	144.0	73.6	59.2	59.2	56.0	48.8	45.6	44.8
60°	1165.0	1053.8	450.5	142.4	70.4	55.2	52.8	56.0	46.4	43.2	42.4
62.5°	1169.8	1026.6	440.1	141.6	69.6	51.2	48.0	53.6	44.0	40.8	39.2
65°	1139.4	971.4	411.3	138.4	68.8	47.2	44.8	46.4	40.8	38.4	36.8
67.5°	1078.6	881.8	369.7	136.8	68.0	44.0	40.8	40.0	37.6	35.2	33.6
70°	937.0	764.9	320.9	129.6	66.4	41.6	36.8	36.0	33.6	32.0	31.2
72.5°	786.5	625.7	264.8	120.0	63.2	37.6	33.6	32.0	31.2	28.8	28.0
75°	602.5	481.7	212.0	106.4	55.2	33.6	29.6	28.0	27.2	25.6	24.8
77.5°	423.3	358.5	156.8	86.4	46.4	30.4	26.4	24.8	24.0	21.6	21.6
80°	287.2	251.2	106.4	60.0	36.0	24.8	23.2	21.6	20.0	18.4	18.4
82.5°	178.4	176.0	76.8	39.2	26.4	20.0	18.4	18.4	16.0	14.4	14.4
85°	81.6	108.0	53.6	27.2	20.0	15.2	15.2	14.4	12.8	10.4	10.4
87.5°	25.6	36.0	28.0	12.0	11.2	8.8	8.8	8.0	8.0	6.4	6.4
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°	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1
2.5°	504.9	504.1	504.1	500.9	508.9	508.9	513.7	509.7	512.1	512.9	519.3
5°	400.9	407.3	412.1	421.7	427.3	429.7	429.7	436.1	433.7	438.5	448.1
7.5°	293.7	301.7	316.1	328.1	337.7	340.9	340.1	341.7	344.1	338.5	340.1
10°	237.6	232.0	236.8	248.0	256.8	267.2	259.2	258.4	260.8	258.4	263.2
12.5°	198.4	192.0	188.0	188.0	194.4	199.2	196.8	200.8	209.6	212.0	217.6
15°	160.8	155.2	152.0	148.0	154.4	156.0	158.4	164.0	170.4	173.6	180.0
17.5°	128.8	128.8	128.8	125.6	128.0	130.4	131.2	138.4	139.2	142.4	144.8
20°	105.6	108.0	112.0	113.6	116.0	116.0	114.4	118.4	115.2	117.6	119.2
22.5°	95.2	98.4	100.0	100.8	104.0	104.8	100.8	101.6	102.4	100.0	100.8
25°	89.6	91.2	89.6	90.4	91.2	89.6	90.4	92.0	91.2	92.8	92.0
27.5°	87.2	85.6	84.8	84.0	84.0	82.4	83.2	83.2	84.8	85.6	85.6
30°	87.2	84.8	81.6	79.2	79.2	76.8	78.4	80.0	80.8	82.4	82.4
32.5°	89.6	84.8	79.2	76.8	74.4	72.8	74.4	76.8	80.0	80.8	81.6
35°	71.2	73.6	72.8	69.6	68.8	68.8	68.0	68.0	65.6	65.6	64.8
37.5°	64.0	63.2	64.8	65.6	66.4	64.0	64.0	60.8	60.0	60.8	60.8
40°	60.0	60.0	60.0	62.4	63.2	61.6	59.2	57.6	57.6	57.6	58.4
42.5°	58.4	56.8	56.0	57.6	60.0	58.4	56.0	55.2	55.2	56.0	56.0
45°	56.0	55.2	54.4	53.6	56.8	54.4	53.6	52.8	52.8	52.8	53.6
47.5°	53.6	52.8	51.2	51.2	52.0	51.2	50.4	50.4	50.4	52.0	52.0
50°	52.0	51.2	49.6	49.6	49.6	49.6	48.8	48.8	48.8	49.6	50.4
52.5°	49.6	48.8	48.0	47.2	47.2	47.2	47.2	47.2	47.2	48.0	48.8
55°	47.2	46.4	45.6	45.6	46.4	46.4	45.6	46.4	45.6	46.4	47.2
57.5°	44.8	44.0	43.2	44.0	44.8	44.0	44.0	44.0	44.0	44.0	44.8
60°	41.6	41.6	41.6	41.6	43.2	43.2	43.2	43.2	41.6	42.4	43.2
62.5°	40.0	39.2	39.2	40.0	40.8	40.8	41.6	40.8	40.0	40.8	40.8
65°	36.8	36.8	36.8	37.6	37.6	38.4	38.4	38.4	37.6	38.4	38.4
67.5°	34.4	34.4	34.4	34.4	36.0	36.0	36.0	36.0	35.2	35.2	36.0
70°	30.4	31.2	30.4	32.0	33.6	32.8	33.6	33.6	32.8	32.0	33.6
72.5°	28.0	28.0	28.0	28.0	30.4	30.4	30.4	31.2	30.4	29.6	30.4
75°	24.8	24.8	24.8	25.6	27.2	27.2	27.2	27.2	27.2	26.4	26.4
77.5°	21.6	22.4	21.6	22.4	24.0	23.2	24.0	24.8	24.0	23.2	23.2
80°	18.4	18.4	18.4	19.2	20.0	20.0	20.0	20.8	20.0	19.2	19.2
82.5°	14.4	14.4	15.2	15.2	16.0	16.0	16.0	16.8	16.0	15.2	15.2
85°	11.2	11.2	11.2	12.0	12.0	12.8	12.8	13.6	13.6	12.8	12.8
87.5°	7.2	6.4	7.2	7.2	8.0	8.0	7.2	6.4	7.2	6.4	5.6
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°	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1
2.5°	525.7	540.1	550.5	557.7	568.1	588.1	596.1	610.5	614.5	616.9
5°	452.1	467.3	489.7	505.7	524.1	561.7	590.5	612.1	621.7	630.5
7.5°	354.5	374.5	397.7	418.5	448.9	495.3	532.9	577.7	594.5	603.3
10°	276.8	295.3	320.9	346.5	388.9	428.1	481.7	522.5	545.7	552.1
12.5°	233.6	255.2	285.6	316.9	343.3	388.1	442.5	501.7	523.3	527.3
15°	198.4	228.0	259.2	291.3	321.7	360.9	419.3	491.3	523.3	527.3
17.5°	164.0	190.4	227.2	261.6	296.9	350.5	423.3	500.1	532.1	544.1
20°	130.4	156.0	184.8	228.0	276.0	332.9	432.1	529.7	572.1	584.9
22.5°	108.0	119.2	147.2	188.8	245.6	320.9	440.9	576.1	620.9	625.7
25°	94.4	102.4	120.0	159.2	221.6	312.9	461.7	629.7	687.3	687.3
27.5°	88.0	91.2	103.2	138.4	204.8	305.7	482.5	688.9	742.5	753.7
30°	86.4	94.4	100.8	123.2	186.4	285.6	501.7	735.3	790.5	791.3
32.5°	84.8	83.2	88.0	107.2	164.0	264.8	517.7	782.5	825.7	828.1
35°	66.4	69.6	77.6	94.4	147.2	249.6	525.7	808.1	870.6	873.0
37.5°	62.4	66.4	72.8	87.2	136.0	236.8	528.1	857.7	917.8	922.6
40°	60.8	64.0	68.8	80.8	127.2	220.8	532.9	909.0	987.4	981.0
42.5°	57.6	61.6	66.4	77.6	120.0	208.8	533.7	937.0	1024.2	1024.2
45°	56.8	59.2	64.8	77.6	112.0	198.4	520.9	965.0	1066.6	1053.8
47.5°	53.6	58.4	63.2	75.2	102.4	188.0	505.7	979.4	1072.2	1068.2
50°	52.8	57.6	65.6	71.2	96.8	183.2	502.5	1015.4	1083.4	1082.6
52.5°	51.2	56.0	68.0	68.0	89.6	176.8	517.7	1031.4	1085.8	1092.2
55°	48.8	56.0	63.2	62.4	83.2	168.8	534.5	1073.0	1128.2	1126.6
57.5°	47.2	54.4	60.0	56.8	76.0	163.2	559.3	1113.0	1179.4	1168.2
60°	44.8	54.4	53.6	52.8	70.4	158.4	580.1	1121.0	1190.6	1197.8
62.5°	43.2	56.8	47.2	48.8	65.6	156.0	571.3	1061.0	1175.4	1181.8
65°	41.6	48.8	43.2	44.8	64.0	151.2	536.9	989.0	1109.8	1137.8
67.5°	38.4	40.0	40.0	41.6	62.4	140.0	466.5	859.3	1009.8	1025.0
70°	35.2	36.0	36.0	38.4	60.8	127.2	384.9	743.3	876.2	905.0
72.5°	32.0	32.0	32.0	35.2	56.0	116.8	316.9	571.3	728.1	748.1
75°	28.0	28.0	28.0	31.2	50.4	106.4	249.6	424.9	536.1	564.9
77.5°	24.8	24.8	24.0	28.0	44.0	86.4	180.0	300.1	377.7	401.7
80°	20.8	20.0	20.0	22.4	34.4	62.4	116.0	212.0	263.2	273.6
82.5°	16.8	16.0	15.2	16.8	24.8	39.2	72.0	148.0	168.8	162.4
85°	16.0	16.8	13.6	12.8	17.6	25.6	45.6	91.2	76.0	76.0
87.5°	6.4	5.6	5.6	4.8	8.8	9.6	20.0	16.8	12.8	12.8
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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