

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: P675908

Luminaire Tested: **CCW-SA-1A-840-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675908
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-840-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SLL distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

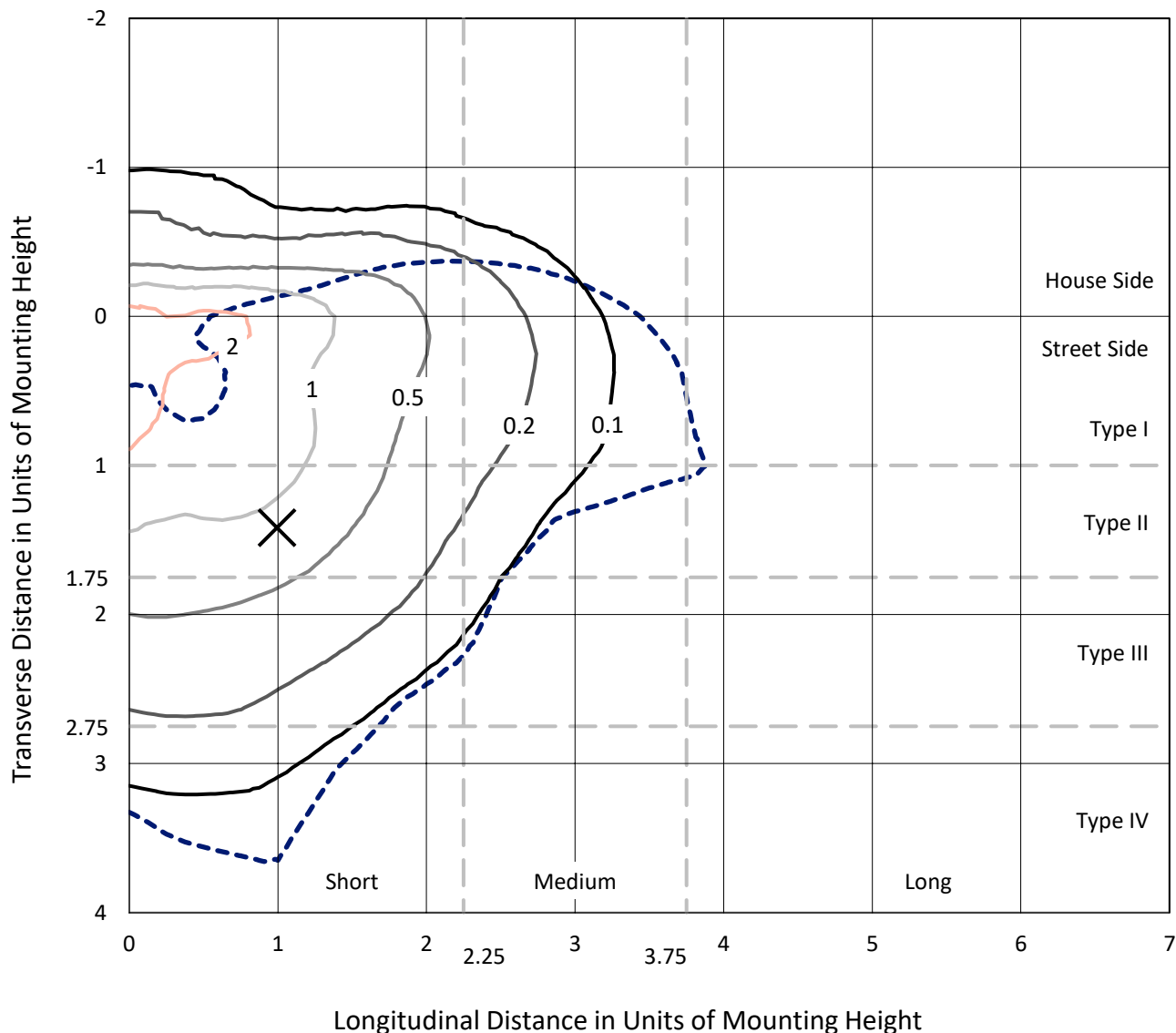
Lumens per Lamp: N/A
Luminaire Lumens: 1935.4 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

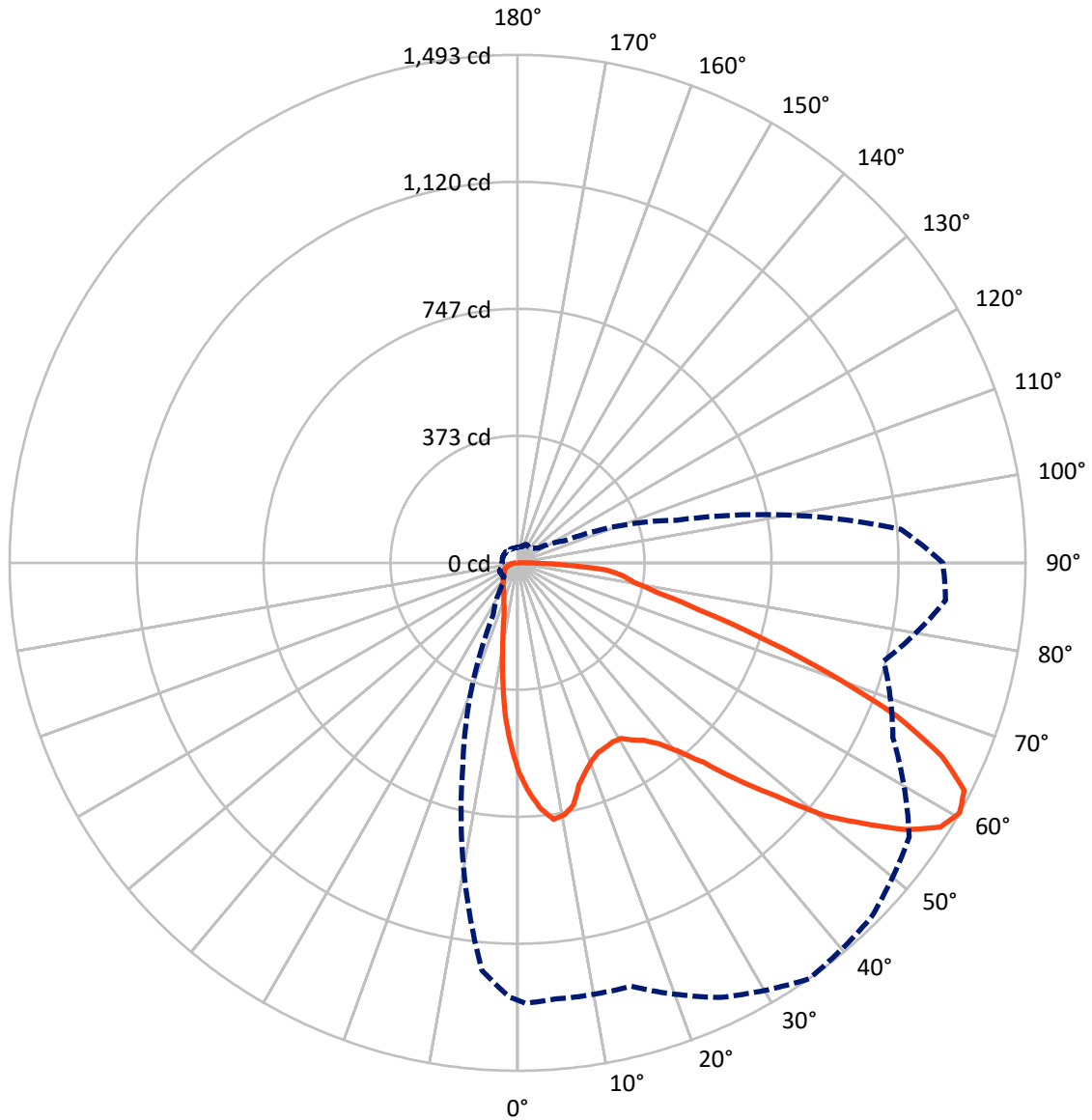
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 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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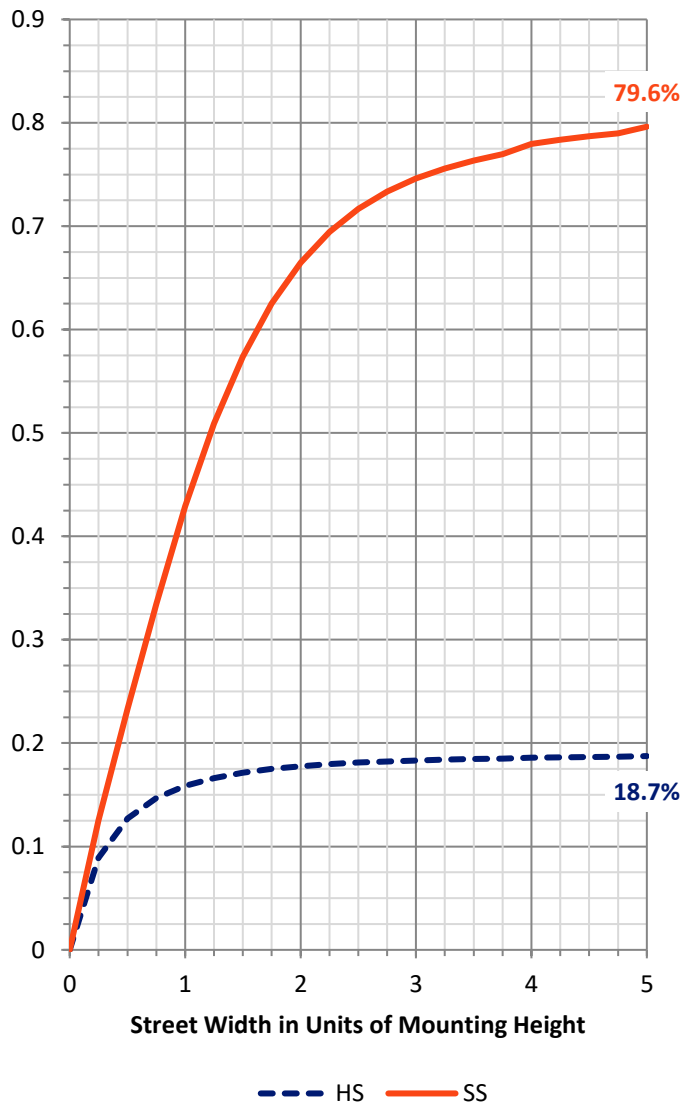
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	368.3	0.0	368.3
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1567.1	0.0	1567.1
	% Fixture	81.0	0.0	81.0
Total	Lumens	1935.4	0.0	1935.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	2.5
10°-20°	101.4	5.2
20°-30°	148.3	7.7
30°-40°	209.0	10.8
40°-50°	287.2	14.8
50°-60°	391.5	20.2
60°-70°	428.5	22.1
70°-80°	247.4	12.8
80°-90°	74.1	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°	1935.4	100.0
0°-180°	1935.4	100.0

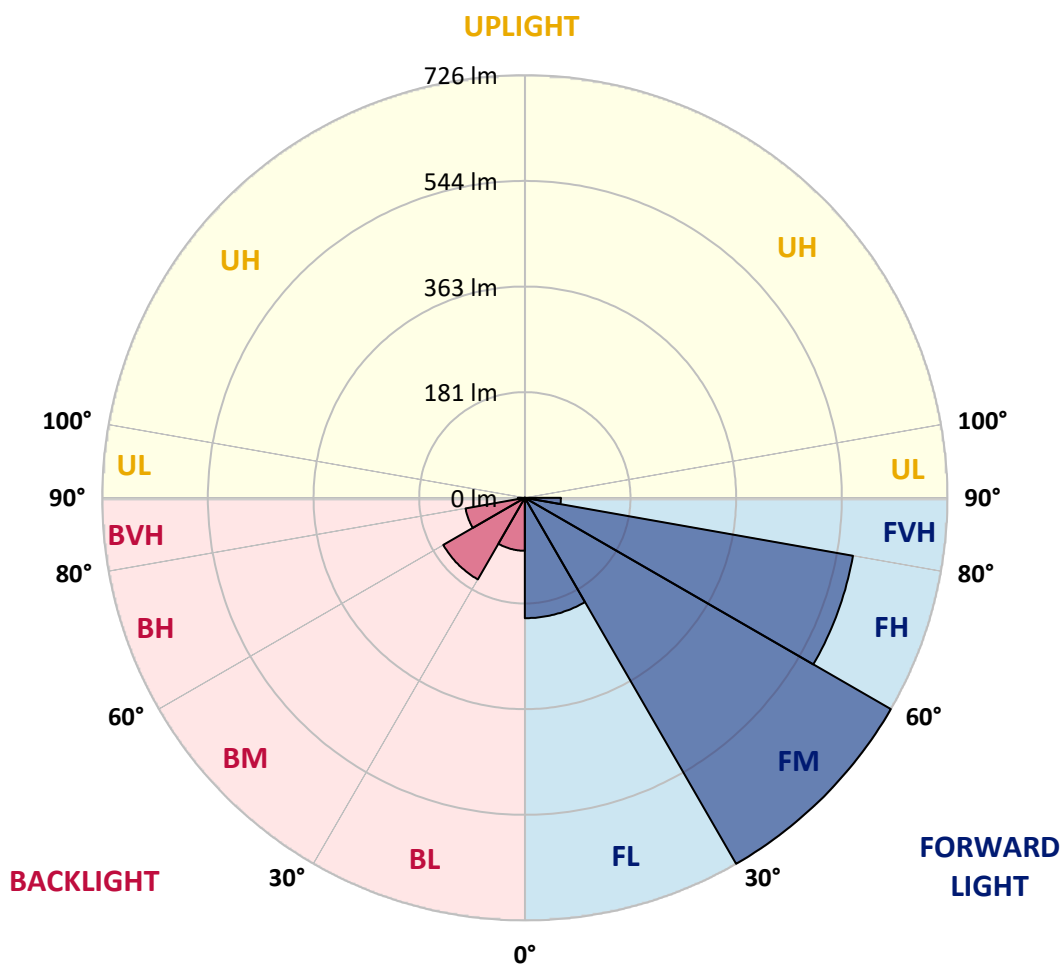


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	206.8	10.7			
FM (30°-60°)	725.9	37.5			
FH (60°-80°)	572.4	29.6			G0/660
FVH (80°-90°)	62.0	3.2			G1/100
BL (0°-30°)	91.0	4.7	B0/110		
BM (30°-60°)	161.8	8.4	B0/220		
BH (60°-80°)	103.5	5.3	B0/110		G0/110
BVH (80°-90°)	12.1	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°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	661.9	659.4	661.9	671.4	674.0	678.2	678.2	672.2	661.1	655.9	647.3
5°	676.5	672.2	693.7	713.4	728.9	727.2	712.6	700.6	678.2	644.8	613.0
7.5°	647.3	651.6	667.1	718.6	754.7	761.5	738.3	714.3	666.2	619.9	576.9
10°	592.4	598.4	631.9	685.1	741.8	752.9	738.3	709.2	651.6	594.1	544.3
12.5°	565.8	579.5	599.3	663.7	704.0	730.6	723.8	704.9	640.5	572.6	524.6
15°	565.8	569.2	598.4	652.5	675.7	676.5	679.1	682.5	643.9	582.1	517.7
17.5°	583.8	593.3	618.2	651.6	655.9	645.6	645.6	660.2	650.8	608.7	542.6
20°	627.6	624.2	656.8	670.5	647.3	621.6	619.0	643.9	658.5	637.0	588.1
22.5°	671.4	686.8	713.4	682.5	639.6	605.3	601.8	632.7	681.7	686.0	640.5
25°	737.5	752.9	766.7	728.9	638.8	601.0	603.6	627.6	710.0	755.5	728.0
27.5°	808.7	818.2	837.9	779.6	659.4	595.8	598.4	634.5	736.6	801.0	796.7
30°	849.1	859.4	855.1	789.0	673.1	599.3	592.4	643.9	722.0	801.0	841.4
32.5°	888.6	882.6	880.0	804.5	690.3	620.7	603.6	663.7	730.6	813.9	898.9
35°	936.7	928.1	921.2	834.5	718.6	641.3	633.6	689.4	749.5	840.5	945.3
37.5°	989.9	989.9	956.4	856.8	752.1	674.8	666.2	726.3	779.6	856.8	1008.8
40°	1052.6	1055.1	995.9	886.9	789.9	728.0	725.5	774.4	808.7	880.9	1069.7
42.5°	1098.9	1100.7	1030.3	898.0	833.6	801.9	813.0	851.7	842.2	902.3	1074.0
45°	1130.7	1122.1	1054.3	929.8	881.7	912.6	916.1	927.2	886.0	915.2	1091.2
47.5°	1146.2	1144.4	1064.6	966.7	983.0	1025.1	1044.8	1029.4	926.4	901.5	1091.2
50°	1161.6	1147.0	1074.0	1017.4	1081.8	1166.8	1162.5	1134.1	982.2	918.6	1074.9
52.5°	1171.9	1159.0	1092.9	1062.9	1176.2	1272.4	1289.5	1237.2	1047.4	950.4	1082.6
55°	1208.8	1198.5	1149.6	1124.7	1285.2	1384.0	1386.5	1313.6	1116.1	1002.8	1133.3
57.5°	1253.5	1259.5	1227.7	1212.3	1368.5	1465.5	1456.1	1370.2	1174.5	1066.3	1191.7
60°	1285.2	1294.7	1287.0	1288.7	1409.7	1493.0	1471.5	1405.4	1217.4	1114.4	1262.9
62.5°	1268.1	1287.0	1318.7	1311.9	1411.4	1473.3	1443.2	1359.1	1222.6	1177.1	1317.0
65°	1220.8	1222.6	1284.4	1322.2	1334.2	1371.1	1331.6	1262.1	1169.3	1215.7	1309.3
67.5°	1099.8	1113.5	1169.3	1243.2	1192.5	1201.1	1197.7	1097.2	1088.6	1189.1	1250.0
70°	971.0	980.5	1041.4	1128.1	1007.1	966.7	974.4	899.8	935.0	1106.7	1130.7
72.5°	802.7	808.7	878.3	954.7	807.9	735.8	753.8	692.8	742.6	968.4	953.8
75°	606.1	617.3	671.4	761.5	595.0	548.6	566.6	541.7	588.1	797.6	740.1
77.5°	431.0	422.4	489.4	595.8	447.3	419.8	421.5	425.8	475.6	672.2	531.4
80°	293.6	296.2	356.3	437.0	351.1	346.9	342.6	376.9	399.2	532.3	386.3
82.5°	174.3	174.3	240.4	310.8	277.3	312.5	292.8	323.7	312.5	391.5	253.3
85°	81.6	81.6	123.6	224.1	214.6	257.6	218.9	244.7	230.9	273.0	114.2
87.5°	13.7	12.0	24.9	109.9	88.4	100.4	39.5	130.5	145.1	190.6	28.3
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°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	637.9	631.9	619.9	604.4	591.5	575.2	570.1	558.9	543.5	541.7	534.9
5°	601.0	580.4	554.6	522.9	501.4	479.1	460.2	449.0	436.1	434.4	431.0
7.5°	560.6	534.9	491.9	454.2	417.3	382.1	364.9	343.4	328.8	317.7	312.5
10°	522.9	498.8	445.6	394.1	361.4	338.3	317.7	295.3	277.3	263.6	258.4
12.5°	498.0	469.6	412.1	363.2	339.1	312.5	289.3	265.3	242.1	224.1	214.6
15°	486.8	460.2	401.8	347.7	312.5	275.6	249.0	224.9	196.6	183.7	179.4
17.5°	513.4	473.9	398.4	329.7	279.9	237.8	205.2	179.4	158.8	146.0	140.8
20°	547.7	498.8	404.4	308.2	249.0	201.8	165.7	138.2	124.5	115.0	114.2
22.5°	591.5	535.7	413.8	292.8	214.6	162.3	129.6	113.3	103.9	103.0	101.3
25°	669.7	602.7	429.3	272.2	187.2	133.9	110.8	101.3	97.0	94.4	96.2
27.5°	736.6	646.5	440.4	259.3	176.0	126.2	107.3	97.0	92.7	91.9	92.7
30°	776.1	686.8	437.0	235.2	153.7	120.2	114.2	110.8	102.2	95.3	95.3
32.5°	812.2	712.6	436.1	213.8	131.4	100.4	95.3	92.7	97.9	101.3	98.7
35°	862.0	752.9	433.6	201.8	121.9	92.7	84.1	77.3	73.8	72.1	74.7
37.5°	915.2	780.4	426.7	200.0	116.8	88.4	81.6	74.7	71.3	69.5	68.7
40°	973.6	809.6	419.0	191.5	114.2	85.9	79.0	73.0	68.7	66.1	65.2
42.5°	1011.4	832.8	411.2	187.2	109.0	84.1	76.4	71.3	67.0	63.5	63.5
45°	1032.8	860.3	403.5	182.9	103.0	85.0	76.4	69.5	64.4	62.7	61.0
47.5°	1042.3	880.9	400.9	176.0	97.9	81.6	74.7	67.8	62.7	59.2	58.4
50°	1067.2	924.6	410.4	170.8	91.9	78.1	79.0	67.0	61.8	57.5	56.7
52.5°	1081.8	959.9	431.0	163.1	87.6	73.8	77.3	65.2	59.2	54.9	54.9
55°	1135.0	1018.2	453.3	157.1	82.4	67.8	71.3	61.8	54.9	52.4	52.4
57.5°	1202.8	1080.0	472.2	154.5	79.0	63.5	63.5	60.1	52.4	48.9	48.1
60°	1250.0	1130.7	483.4	152.8	75.6	59.2	56.7	60.1	49.8	46.4	45.5
62.5°	1255.2	1101.5	472.2	152.0	74.7	54.9	51.5	57.5	47.2	43.8	42.1
65°	1222.6	1042.3	441.3	148.5	73.8	50.7	48.1	49.8	43.8	41.2	39.5
67.5°	1157.3	946.1	396.6	146.8	73.0	47.2	43.8	42.9	40.4	37.8	36.1
70°	1005.4	820.8	344.3	139.1	71.3	44.6	39.5	38.6	36.1	34.3	33.5
72.5°	843.9	671.4	284.2	128.8	67.8	40.4	36.1	34.3	33.5	30.9	30.0
75°	646.5	516.8	227.5	114.2	59.2	36.1	31.8	30.0	29.2	27.5	26.6
77.5°	454.2	384.6	168.3	92.7	49.8	32.6	28.3	26.6	25.8	23.2	23.2
80°	308.2	269.6	114.2	64.4	38.6	26.6	24.9	23.2	21.5	19.7	19.7
82.5°	191.5	188.9	82.4	42.1	28.3	21.5	19.7	19.7	17.2	15.5	15.5
85°	87.6	115.9	57.5	29.2	21.5	16.3	16.3	15.5	13.7	11.2	11.2
87.5°	27.5	38.6	30.0	12.9	12.0	9.4	9.4	8.6	8.6	6.9	6.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	541.7	540.9	540.9	537.4	546.0	546.0	551.2	546.9	549.5	550.3	557.2
5°	430.1	437.0	442.1	452.5	458.5	461.0	461.0	467.9	465.3	470.5	480.8
7.5°	315.1	323.7	339.1	352.0	362.3	365.7	364.9	366.6	369.2	363.2	364.9
10°	255.0	249.0	254.1	266.1	275.6	286.8	278.2	277.3	279.9	277.3	282.5
12.5°	212.9	206.1	201.8	201.8	208.6	213.8	211.2	215.5	224.9	227.5	233.5
15°	172.6	166.6	163.1	158.8	165.7	167.4	170.0	176.0	182.9	186.3	193.2
17.5°	138.2	138.2	138.2	134.8	137.4	139.9	140.8	148.5	149.4	152.8	155.4
20°	113.3	115.9	120.2	121.9	124.5	124.5	122.8	127.1	123.6	126.2	127.9
22.5°	102.2	105.6	107.3	108.2	111.6	112.5	108.2	109.0	109.9	107.3	108.2
25°	96.2	97.9	96.2	97.0	97.9	96.2	97.0	98.7	97.9	99.6	98.7
27.5°	93.6	91.9	91.0	90.1	90.1	88.4	89.3	89.3	91.0	91.9	91.9
30°	93.6	91.0	87.6	85.0	85.0	82.4	84.1	85.9	86.7	88.4	88.4
32.5°	96.2	91.0	85.0	82.4	79.8	78.1	79.8	82.4	85.9	86.7	87.6
35°	76.4	79.0	78.1	74.7	73.8	73.8	73.0	73.0	70.4	70.4	69.5
37.5°	68.7	67.8	69.5	70.4	71.3	68.7	68.7	65.2	64.4	65.2	65.2
40°	64.4	64.4	64.4	67.0	67.8	66.1	63.5	61.8	61.8	61.8	62.7
42.5°	62.7	61.0	60.1	61.8	64.4	62.7	60.1	59.2	59.2	60.1	60.1
45°	60.1	59.2	58.4	57.5	61.0	58.4	57.5	56.7	56.7	56.7	57.5
47.5°	57.5	56.7	54.9	54.9	55.8	54.9	54.1	54.1	54.1	55.8	55.8
50°	55.8	54.9	53.2	53.2	53.2	53.2	52.4	52.4	52.4	53.2	54.1
52.5°	53.2	52.4	51.5	50.7	50.7	50.7	50.7	50.7	50.7	51.5	52.4
55°	50.7	49.8	48.9	48.9	49.8	49.8	48.9	49.8	48.9	49.8	50.7
57.5°	48.1	47.2	46.4	47.2	48.1	47.2	47.2	47.2	47.2	47.2	48.1
60°	44.6	44.6	44.6	44.6	46.4	46.4	46.4	46.4	44.6	45.5	46.4
62.5°	42.9	42.1	42.1	42.9	43.8	43.8	44.6	43.8	42.9	43.8	43.8
65°	39.5	39.5	39.5	40.4	40.4	41.2	41.2	41.2	40.4	41.2	41.2
67.5°	36.9	36.9	36.9	36.9	38.6	38.6	38.6	38.6	37.8	37.8	38.6
70°	32.6	33.5	32.6	34.3	36.1	35.2	36.1	36.1	35.2	34.3	36.1
72.5°	30.0	30.0	30.0	30.0	32.6	32.6	32.6	33.5	32.6	31.8	32.6
75°	26.6	26.6	26.6	27.5	29.2	29.2	29.2	29.2	29.2	28.3	28.3
77.5°	23.2	24.0	23.2	24.0	25.8	24.9	25.8	26.6	25.8	24.9	24.9
80°	19.7	19.7	19.7	20.6	21.5	21.5	21.5	22.3	21.5	20.6	20.6
82.5°	15.5	15.5	16.3	16.3	17.2	17.2	17.2	18.0	17.2	16.3	16.3
85°	12.0	12.0	12.0	12.9	12.9	13.7	13.7	14.6	14.6	13.7	13.7
87.5°	7.7	6.9	7.7	7.7	8.6	8.6	7.7	6.9	7.7	6.9	6.0
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°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	564.1	579.5	590.7	598.4	609.6	631.0	639.6	655.1	659.4	661.9
5°	485.1	501.4	525.4	542.6	562.3	602.7	633.6	656.8	667.1	676.5
7.5°	380.3	401.8	426.7	449.0	481.6	531.4	571.8	619.9	637.9	647.3
10°	297.1	316.8	344.3	371.7	417.3	459.3	516.8	560.6	585.5	592.4
12.5°	250.7	273.9	306.5	340.0	368.3	416.4	474.8	538.3	561.5	565.8
15°	212.9	244.7	278.2	312.5	345.1	387.2	449.9	527.1	561.5	565.8
17.5°	176.0	204.3	243.8	280.7	318.5	376.0	454.2	536.6	570.9	583.8
20°	139.9	167.4	198.3	244.7	296.2	357.2	463.6	568.4	613.9	627.6
22.5°	115.9	127.9	158.0	202.6	263.6	344.3	473.1	618.2	666.2	671.4
25°	101.3	109.9	128.8	170.8	237.8	335.7	495.4	675.7	737.5	737.5
27.5°	94.4	97.9	110.8	148.5	219.8	328.0	517.7	739.2	796.7	808.7
30°	92.7	101.3	108.2	132.2	200.0	306.5	538.3	789.0	848.2	849.1
32.5°	91.0	89.3	94.4	115.0	176.0	284.2	555.5	839.7	886.0	888.6
35°	71.3	74.7	83.3	101.3	158.0	267.9	564.1	867.1	934.1	936.7
37.5°	67.0	71.3	78.1	93.6	146.0	254.1	566.6	920.4	984.7	989.9
40°	65.2	68.7	73.8	86.7	136.5	237.0	571.8	975.3	1059.4	1052.6
42.5°	61.8	66.1	71.3	83.3	128.8	224.1	572.6	1005.4	1098.9	1098.9
45°	61.0	63.5	69.5	83.3	120.2	212.9	558.9	1035.4	1144.4	1130.7
47.5°	57.5	62.7	67.8	80.7	109.9	201.8	542.6	1050.9	1150.4	1146.2
50°	56.7	61.8	70.4	76.4	103.9	196.6	539.2	1089.5	1162.5	1161.6
52.5°	54.9	60.1	73.0	73.0	96.2	189.7	555.5	1106.7	1165.0	1171.9
55°	52.4	60.1	67.8	67.0	89.3	181.2	573.5	1151.3	1210.5	1208.8
57.5°	50.7	58.4	64.4	61.0	81.6	175.1	600.1	1194.2	1265.5	1253.5
60°	48.1	58.4	57.5	56.7	75.6	170.0	622.4	1202.8	1277.5	1285.2
62.5°	46.4	61.0	50.7	52.4	70.4	167.4	613.0	1138.4	1261.2	1268.1
65°	44.6	52.4	46.4	48.1	68.7	162.3	576.1	1061.2	1190.8	1220.8
67.5°	41.2	42.9	42.9	44.6	67.0	150.2	500.5	922.1	1083.5	1099.8
70°	37.8	38.6	38.6	41.2	65.2	136.5	413.0	797.6	940.1	971.0
72.5°	34.3	34.3	34.3	37.8	60.1	125.3	340.0	613.0	781.3	802.7
75°	30.0	30.0	30.0	33.5	54.1	114.2	267.9	455.9	575.2	606.1
77.5°	26.6	26.6	25.8	30.0	47.2	92.7	193.2	322.0	405.2	431.0
80°	22.3	21.5	21.5	24.0	36.9	67.0	124.5	227.5	282.5	293.6
82.5°	18.0	17.2	16.3	18.0	26.6	42.1	77.3	158.8	181.2	174.3
85°	17.2	18.0	14.6	13.7	18.9	27.5	48.9	97.9	81.6	81.6
87.5°	6.9	6.0	6.0	5.2	9.4	10.3	21.5	18.0	13.7	13.7
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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