

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: P675876

Luminaire Tested: **CCW-SA-1B-827-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675876
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-827-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

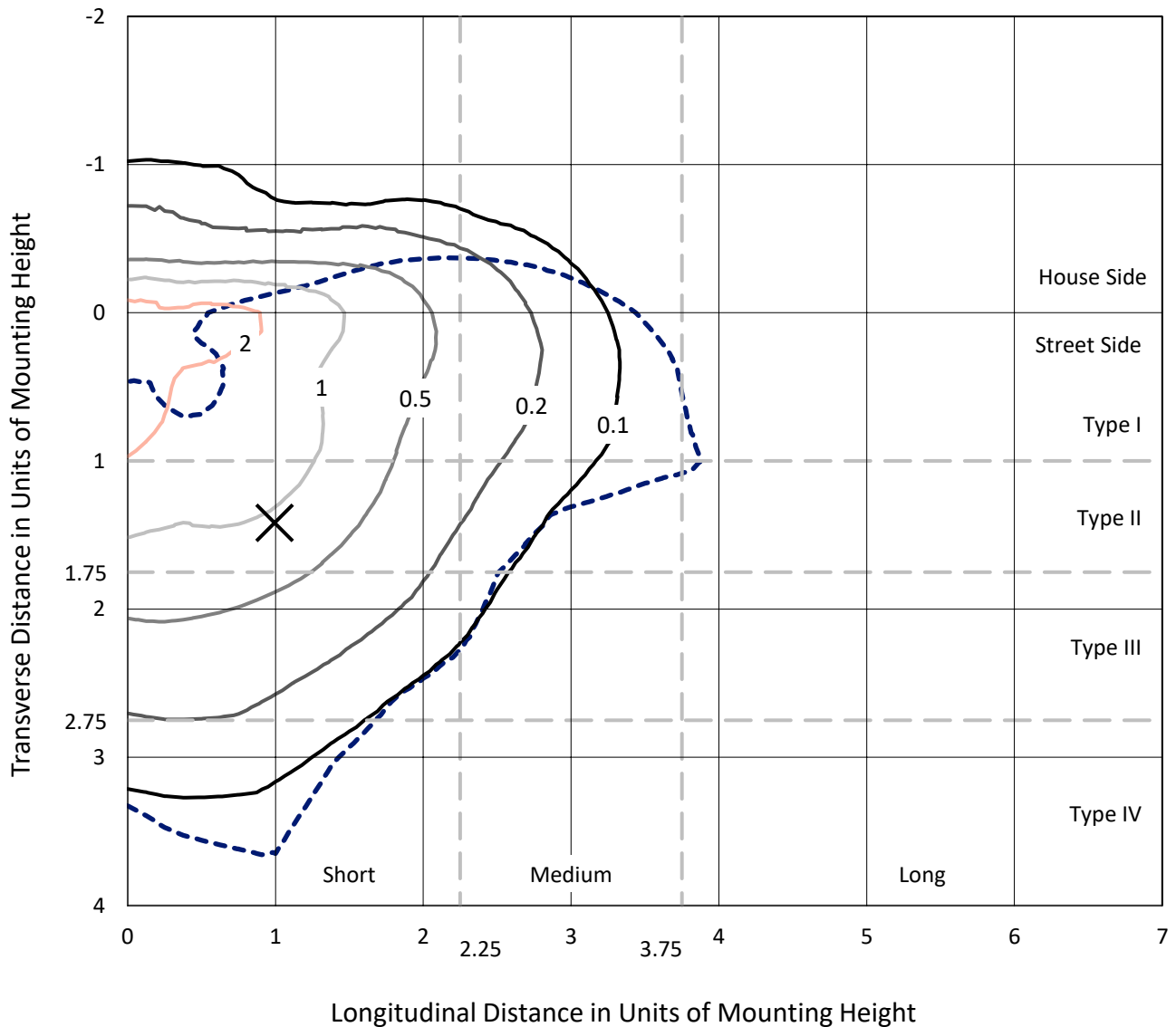
Lumens per Lamp: N/A
Luminaire Lumens: 2106.5 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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

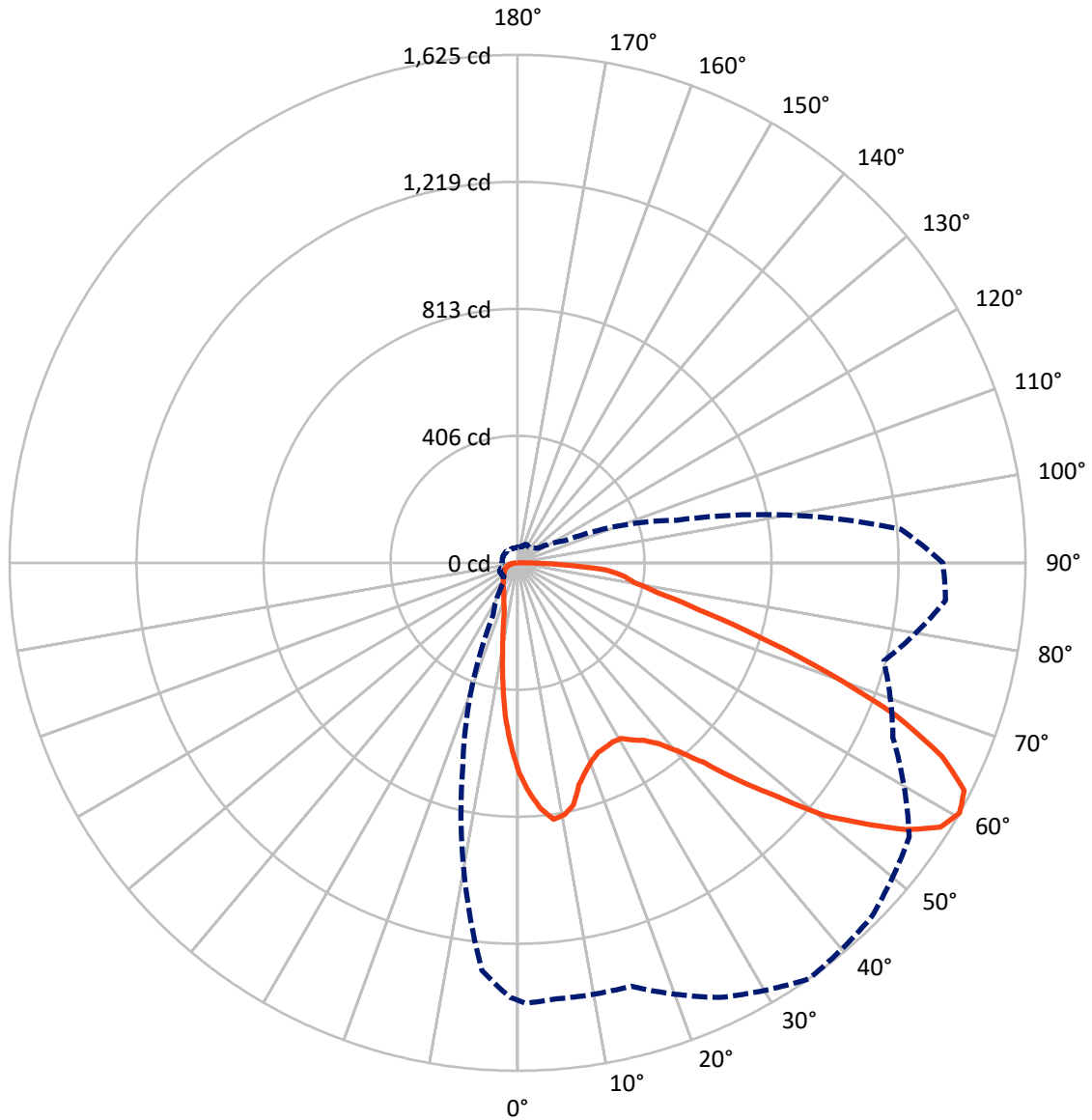
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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	400.9	0.0	400.9
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1705.6	0.0	1705.6
	% Fixture	81.0	0.0	81.0
Total	Lumens	2106.5	0.0	2106.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	2.5
10°-20°	110.4	5.2
20°-30°	161.5	7.7
30°-40°	227.5	10.8
40°-50°	312.6	14.8
50°-60°	426.1	20.2
60°-70°	466.3	22.1
70°-80°	269.2	12.8
80°-90°	80.6	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°	2106.5	100.0
0°-180°	2106.5	100.0

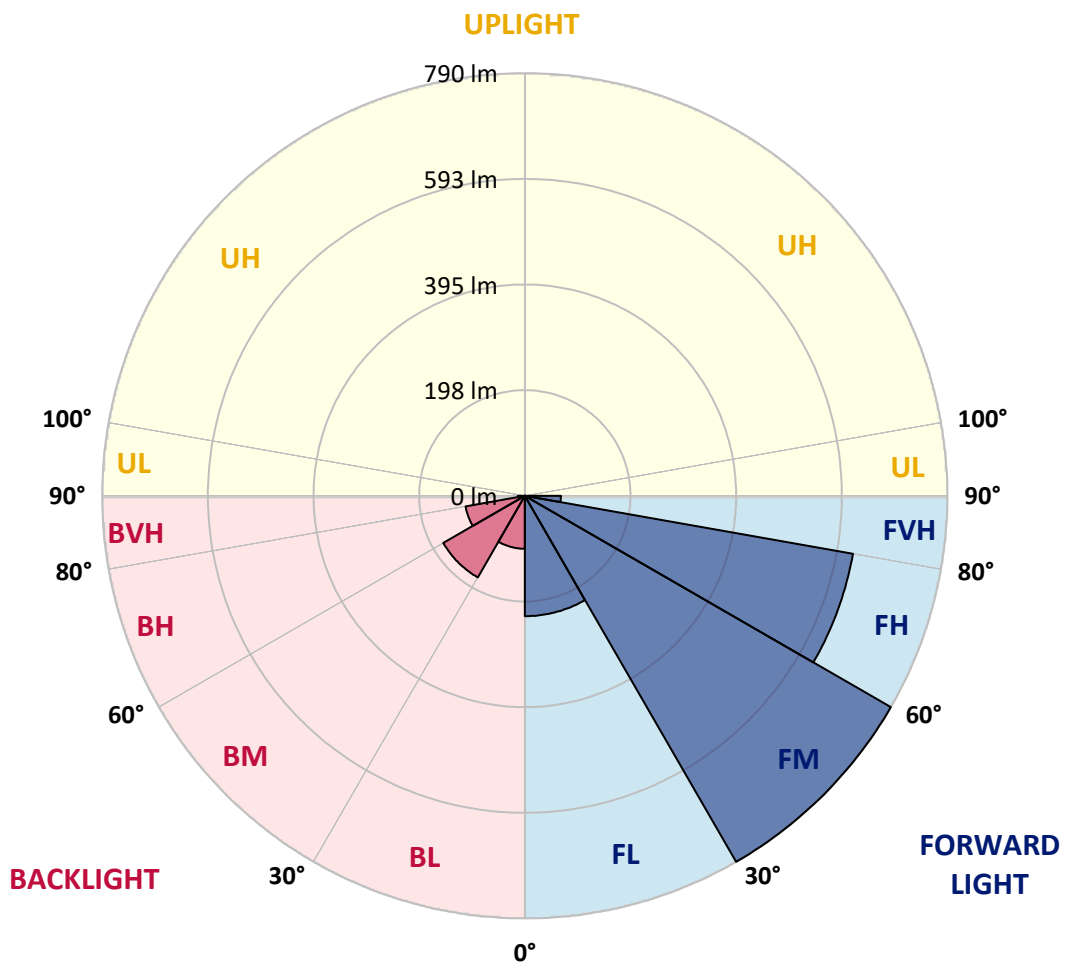


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.0	10.7			
FM (30°-60°)	790.1	37.5			
FH (60°-80°)	623.0	29.6			G0/660
FVH (80°-90°)	67.5	3.2			G1/100
BL (0°-30°)	99.0	4.7	B0/110		
BM (30°-60°)	176.1	8.4	B0/220		
BH (60°-80°)	112.6	5.3	B1/500		G1/500
BVH (80°-90°)	13.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8
2.5°	720.4	717.6	720.4	730.7	733.5	738.2	738.2	731.7	719.5	713.9	704.6
5°	736.3	731.7	755.0	776.5	793.3	791.5	775.6	762.5	738.2	701.8	667.2
7.5°	704.6	709.2	726.1	782.1	821.4	828.8	803.6	777.4	725.1	674.7	627.9
10°	644.8	651.3	687.7	745.7	807.4	819.5	803.6	771.8	709.2	646.6	592.4
12.5°	615.8	630.7	652.2	722.3	766.2	795.2	787.7	767.2	697.1	623.3	570.9
15°	615.8	619.5	651.3	710.2	735.4	736.3	739.1	742.9	700.8	633.5	563.5
17.5°	635.4	645.7	672.8	709.2	713.9	702.7	702.7	718.6	708.3	662.5	590.6
20°	683.1	679.3	714.8	729.8	704.6	676.5	673.7	700.8	716.7	693.3	640.1
22.5°	730.7	747.5	776.5	742.9	696.2	658.8	655.0	688.7	741.9	746.6	697.1
25°	802.7	819.5	834.4	793.3	695.2	654.1	656.9	683.1	772.8	822.3	792.4
27.5°	880.2	890.5	912.0	848.5	717.6	648.5	651.3	690.5	801.7	871.8	867.2
30°	924.2	935.4	930.7	858.7	732.6	652.2	644.8	700.8	785.9	871.8	915.7
32.5°	967.1	960.6	957.8	875.6	751.3	675.6	656.9	722.3	795.2	885.8	978.4
35°	1019.5	1010.1	1002.6	908.3	782.1	698.0	689.6	750.4	815.8	914.8	1028.8
37.5°	1077.4	1077.4	1041.0	932.6	818.6	734.5	725.1	790.5	848.5	932.6	1098.0
40°	1145.6	1148.4	1083.9	965.3	859.7	792.4	789.6	842.9	880.2	958.7	1164.3
42.5°	1196.1	1197.9	1121.3	977.4	907.3	872.8	884.9	927.0	916.7	982.1	1169.0
45°	1230.6	1221.3	1147.5	1012.0	959.7	993.3	997.0	1009.2	964.3	996.1	1187.7
47.5°	1247.5	1245.6	1158.7	1052.2	1069.9	1115.7	1137.2	1120.4	1008.3	981.2	1187.7
50°	1264.3	1248.4	1169.0	1107.3	1177.4	1269.9	1265.2	1234.4	1069.0	999.8	1169.9
52.5°	1275.5	1261.5	1189.5	1156.8	1280.2	1384.8	1403.5	1346.5	1140.0	1034.4	1178.3
55°	1315.7	1304.5	1251.2	1224.1	1398.8	1506.3	1509.1	1429.7	1214.8	1091.4	1233.5
57.5°	1364.3	1370.8	1336.2	1319.4	1489.5	1595.1	1584.8	1491.4	1278.3	1160.6	1297.0
60°	1398.8	1409.1	1400.7	1402.6	1534.3	1625.0	1601.6	1529.7	1325.0	1212.9	1374.6
62.5°	1380.2	1400.7	1435.3	1427.8	1536.2	1603.5	1570.8	1479.2	1330.6	1281.1	1433.4
65°	1328.8	1330.6	1397.9	1439.0	1452.1	1492.3	1449.3	1373.6	1272.7	1323.2	1425.0
67.5°	1197.0	1212.0	1272.7	1353.1	1297.9	1307.3	1303.5	1194.2	1184.9	1294.2	1360.5
70°	1056.8	1067.1	1133.5	1227.8	1096.1	1052.2	1060.6	979.3	1017.6	1204.5	1230.6
72.5°	873.7	880.2	955.9	1039.1	879.3	800.8	820.4	754.1	808.3	1054.0	1038.2
75°	659.7	671.9	730.7	828.8	647.6	597.1	616.7	589.6	640.1	868.1	805.5
77.5°	469.1	459.7	532.6	648.5	486.8	456.9	458.8	463.5	517.7	731.7	578.4
80°	319.6	322.4	387.8	475.6	382.2	377.5	372.8	410.2	434.5	579.3	420.5
82.5°	189.7	189.7	261.6	338.3	301.8	340.1	318.6	352.3	340.1	426.1	275.7
85°	88.8	88.8	134.6	243.9	233.6	280.3	238.3	266.3	251.4	297.1	124.3
87.5°	15.0	13.1	27.1	119.6	96.2	109.3	43.0	142.0	157.9	207.4	30.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8
2.5°	694.3	687.7	674.7	657.8	643.8	626.1	620.5	608.3	591.5	589.6	582.2
5°	654.1	631.7	603.6	569.1	545.7	521.4	500.9	488.7	474.7	472.8	469.1
7.5°	610.2	582.2	535.4	494.3	454.1	415.8	397.1	373.8	357.9	345.7	340.1
10°	569.1	542.9	485.0	428.9	393.4	368.2	345.7	321.4	301.8	286.9	281.3
12.5°	542.0	511.1	448.5	395.3	369.1	340.1	314.9	288.7	263.5	243.9	233.6
15°	529.8	500.9	437.3	378.4	340.1	300.0	271.0	244.8	214.0	200.0	195.3
17.5°	558.8	515.8	433.6	358.8	304.6	258.8	223.3	195.3	172.9	158.9	153.2
20°	596.2	542.9	440.1	335.5	271.0	219.6	180.3	150.4	135.5	125.2	124.3
22.5°	643.8	583.1	450.4	318.6	233.6	176.6	141.1	123.3	113.1	112.1	110.3
25°	728.9	656.0	467.2	296.2	203.7	145.8	120.5	110.3	105.6	102.8	104.7
27.5°	801.7	703.6	479.4	282.2	191.6	137.4	116.8	105.6	100.9	100.0	100.9
30°	844.7	747.5	475.6	256.0	167.3	130.8	124.3	120.5	111.2	103.7	103.7
32.5°	884.0	775.6	474.7	232.7	143.0	109.3	103.7	100.9	106.5	110.3	107.5
35°	938.2	819.5	471.9	219.6	132.7	100.9	91.6	84.1	80.4	78.5	81.3
37.5°	996.1	849.4	464.4	217.7	127.1	96.2	88.8	81.3	77.6	75.7	74.8
40°	1059.6	881.2	456.0	208.4	124.3	93.4	86.0	79.4	74.8	72.0	71.0
42.5°	1100.8	906.4	447.6	203.7	118.7	91.6	83.2	77.6	72.9	69.1	69.1
45°	1124.1	936.3	439.2	199.0	112.1	92.5	83.2	75.7	70.1	68.2	66.3
47.5°	1134.4	958.7	436.4	191.6	106.5	88.8	81.3	73.8	68.2	64.5	63.5
50°	1161.5	1006.4	446.7	186.0	100.0	85.0	86.0	72.9	67.3	62.6	61.7
52.5°	1177.4	1044.7	469.1	177.5	95.3	80.4	84.1	71.0	64.5	59.8	59.8
55°	1235.3	1108.2	493.4	171.0	89.7	73.8	77.6	67.3	59.8	57.0	57.0
57.5°	1309.1	1175.5	513.9	168.2	86.0	69.1	69.1	65.4	57.0	53.3	52.3
60°	1360.5	1230.6	526.1	166.3	82.2	64.5	61.7	65.4	54.2	50.5	49.5
62.5°	1366.1	1198.9	513.9	165.4	81.3	59.8	56.1	62.6	51.4	47.7	45.8
65°	1330.6	1134.4	480.3	161.7	80.4	55.1	52.3	54.2	47.7	44.9	43.0
67.5°	1259.6	1029.7	431.7	159.8	79.4	51.4	47.7	46.7	43.9	41.1	39.2
70°	1094.2	893.3	374.7	151.4	77.6	48.6	43.0	42.0	39.2	37.4	36.4
72.5°	918.5	730.7	309.3	140.2	73.8	43.9	39.2	37.4	36.4	33.6	32.7
75°	703.6	562.5	247.6	124.3	64.5	39.2	34.6	32.7	31.8	29.9	29.0
77.5°	494.3	418.6	183.1	100.9	54.2	35.5	30.8	29.0	28.0	25.2	25.2
80°	335.5	293.4	124.3	70.1	42.0	29.0	27.1	25.2	23.4	21.5	21.5
82.5°	208.4	205.6	89.7	45.8	30.8	23.4	21.5	21.5	18.7	16.8	16.8
85°	95.3	126.1	62.6	31.8	23.4	17.8	17.8	16.8	15.0	12.1	12.1
87.5°	29.9	42.0	32.7	14.0	13.1	10.3	10.3	9.3	9.3	7.5	7.5
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°	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8
2.5°	589.6	588.7	588.7	585.0	594.3	594.3	599.9	595.2	598.0	599.0	606.4
5°	468.2	475.6	481.2	492.4	499.0	501.8	501.8	509.3	506.5	512.1	523.3
7.5°	342.9	352.3	369.1	383.1	394.3	398.1	397.1	399.0	401.8	395.3	397.1
10°	277.5	271.0	276.6	289.7	300.0	312.1	302.8	301.8	304.6	301.8	307.4
12.5°	231.7	224.3	219.6	219.6	227.1	232.7	229.9	234.5	244.8	247.6	254.2
15°	187.8	181.3	177.5	172.9	180.3	182.2	185.0	191.6	199.0	202.8	210.2
17.5°	150.4	150.4	150.4	146.7	149.5	152.3	153.2	161.7	162.6	166.3	169.1
20°	123.3	126.1	130.8	132.7	135.5	135.5	133.6	138.3	134.6	137.4	139.2
22.5°	111.2	114.9	116.8	117.7	121.5	122.4	117.7	118.7	119.6	116.8	117.7
25°	104.7	106.5	104.7	105.6	106.5	104.7	105.6	107.5	106.5	108.4	107.5
27.5°	101.9	100.0	99.0	98.1	98.1	96.2	97.2	97.2	99.0	100.0	100.0
30°	101.9	99.0	95.3	92.5	92.5	89.7	91.6	93.4	94.4	96.2	96.2
32.5°	104.7	99.0	92.5	89.7	86.9	85.0	86.9	89.7	93.4	94.4	95.3
35°	83.2	86.0	85.0	81.3	80.4	80.4	79.4	79.4	76.6	76.6	75.7
37.5°	74.8	73.8	75.7	76.6	77.6	74.8	74.8	71.0	70.1	71.0	71.0
40°	70.1	70.1	70.1	72.9	73.8	72.0	69.1	67.3	67.3	67.3	68.2
42.5°	68.2	66.3	65.4	67.3	70.1	68.2	65.4	64.5	64.5	65.4	65.4
45°	65.4	64.5	63.5	62.6	66.3	63.5	62.6	61.7	61.7	61.7	62.6
47.5°	62.6	61.7	59.8	59.8	60.7	59.8	58.9	58.9	58.9	60.7	60.7
50°	60.7	59.8	57.9	57.9	57.9	57.9	57.0	57.0	57.0	57.9	58.9
52.5°	57.9	57.0	56.1	55.1	55.1	55.1	55.1	55.1	55.1	56.1	57.0
55°	55.1	54.2	53.3	53.3	54.2	54.2	53.3	54.2	53.3	54.2	55.1
57.5°	52.3	51.4	50.5	51.4	52.3	51.4	51.4	51.4	51.4	51.4	52.3
60°	48.6	48.6	48.6	48.6	50.5	50.5	50.5	50.5	48.6	49.5	50.5
62.5°	46.7	45.8	45.8	46.7	47.7	47.7	48.6	47.7	46.7	47.7	47.7
65°	43.0	43.0	43.0	43.9	43.9	44.9	44.9	44.9	43.9	44.9	44.9
67.5°	40.2	40.2	40.2	40.2	42.0	42.0	42.0	42.0	41.1	41.1	42.0
70°	35.5	36.4	35.5	37.4	39.2	38.3	39.2	39.2	38.3	37.4	39.2
72.5°	32.7	32.7	32.7	32.7	35.5	35.5	35.5	36.4	35.5	34.6	35.5
75°	29.0	29.0	29.0	29.9	31.8	31.8	31.8	31.8	31.8	30.8	30.8
77.5°	25.2	26.2	25.2	26.2	28.0	27.1	28.0	29.0	28.0	27.1	27.1
80°	21.5	21.5	21.5	22.4	23.4	23.4	23.4	24.3	23.4	22.4	22.4
82.5°	16.8	16.8	17.8	17.8	18.7	18.7	18.7	19.6	18.7	17.8	17.8
85°	13.1	13.1	13.1	14.0	14.0	15.0	15.0	15.9	15.9	15.0	15.0
87.5°	8.4	7.5	8.4	8.4	9.3	9.3	8.4	7.5	8.4	7.5	6.5
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°	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8
2.5°	613.9	630.7	642.9	651.3	663.4	686.8	696.2	713.0	717.6	720.4
5°	528.0	545.7	571.9	590.6	612.1	656.0	689.6	714.8	726.1	736.3
7.5°	414.0	437.3	464.4	488.7	524.2	578.4	622.3	674.7	694.3	704.6
10°	323.3	344.8	374.7	404.6	454.1	499.9	562.5	610.2	637.3	644.8
12.5°	272.9	298.1	333.6	370.0	400.9	453.2	516.7	585.9	611.1	615.8
15°	231.7	266.3	302.8	340.1	375.6	421.4	489.6	573.7	611.1	615.8
17.5°	191.6	222.4	265.4	305.6	346.7	409.3	494.3	584.0	621.4	635.4
20°	152.3	182.2	215.9	266.3	322.4	388.7	504.6	618.6	668.1	683.1
22.5°	126.1	139.2	171.9	220.5	286.9	374.7	514.9	672.8	725.1	730.7
25°	110.3	119.6	140.2	186.0	258.8	365.4	539.2	735.4	802.7	802.7
27.5°	102.8	106.5	120.5	161.7	239.2	357.0	563.5	804.5	867.2	880.2
30°	100.9	110.3	117.7	143.9	217.7	333.6	585.9	858.7	923.2	924.2
32.5°	99.0	97.2	102.8	125.2	191.6	309.3	604.6	913.9	964.3	967.1
35°	77.6	81.3	90.6	110.3	171.9	291.5	613.9	943.8	1016.7	1019.5
37.5°	72.9	77.6	85.0	101.9	158.9	276.6	616.7	1001.7	1071.8	1077.4
40°	71.0	74.8	80.4	94.4	148.6	257.9	622.3	1061.5	1153.1	1145.6
42.5°	67.3	72.0	77.6	90.6	140.2	243.9	623.3	1094.2	1196.1	1196.1
45°	66.3	69.1	75.7	90.6	130.8	231.7	608.3	1126.9	1245.6	1230.6
47.5°	62.6	68.2	73.8	87.8	119.6	219.6	590.6	1143.7	1252.1	1247.5
50°	61.7	67.3	76.6	83.2	113.1	214.0	586.8	1185.8	1265.2	1264.3
52.5°	59.8	65.4	79.4	79.4	104.7	206.5	604.6	1204.5	1268.0	1275.5
55°	57.0	65.4	73.8	72.9	97.2	197.2	624.2	1253.1	1317.6	1315.7
57.5°	55.1	63.5	70.1	66.3	88.8	190.6	653.2	1299.8	1377.4	1364.3
60°	52.3	63.5	62.6	61.7	82.2	185.0	677.5	1309.1	1390.4	1398.8
62.5°	50.5	66.3	55.1	57.0	76.6	182.2	667.2	1239.1	1372.7	1380.2
65°	48.6	57.0	50.5	52.3	74.8	176.6	627.0	1155.0	1296.1	1328.8
67.5°	44.9	46.7	46.7	48.6	72.9	163.5	544.8	1003.6	1179.3	1197.0
70°	41.1	42.0	42.0	44.9	71.0	148.6	449.5	868.1	1023.2	1056.8
72.5°	37.4	37.4	37.4	41.1	65.4	136.4	370.0	667.2	850.3	873.7
75°	32.7	32.7	32.7	36.4	58.9	124.3	291.5	496.2	626.1	659.7
77.5°	29.0	29.0	28.0	32.7	51.4	100.9	210.2	350.4	441.1	469.1
80°	24.3	23.4	23.4	26.2	40.2	72.9	135.5	247.6	307.4	319.6
82.5°	19.6	18.7	17.8	19.6	29.0	45.8	84.1	172.9	197.2	189.7
85°	18.7	19.6	15.9	15.0	20.6	29.9	53.3	106.5	88.8	88.8
87.5°	7.5	6.5	6.5	5.6	10.3	11.2	23.4	19.6	15.0	15.0
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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