

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: P675810

Luminaire Tested: **CCW-SA-1B-727-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675810
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-727-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

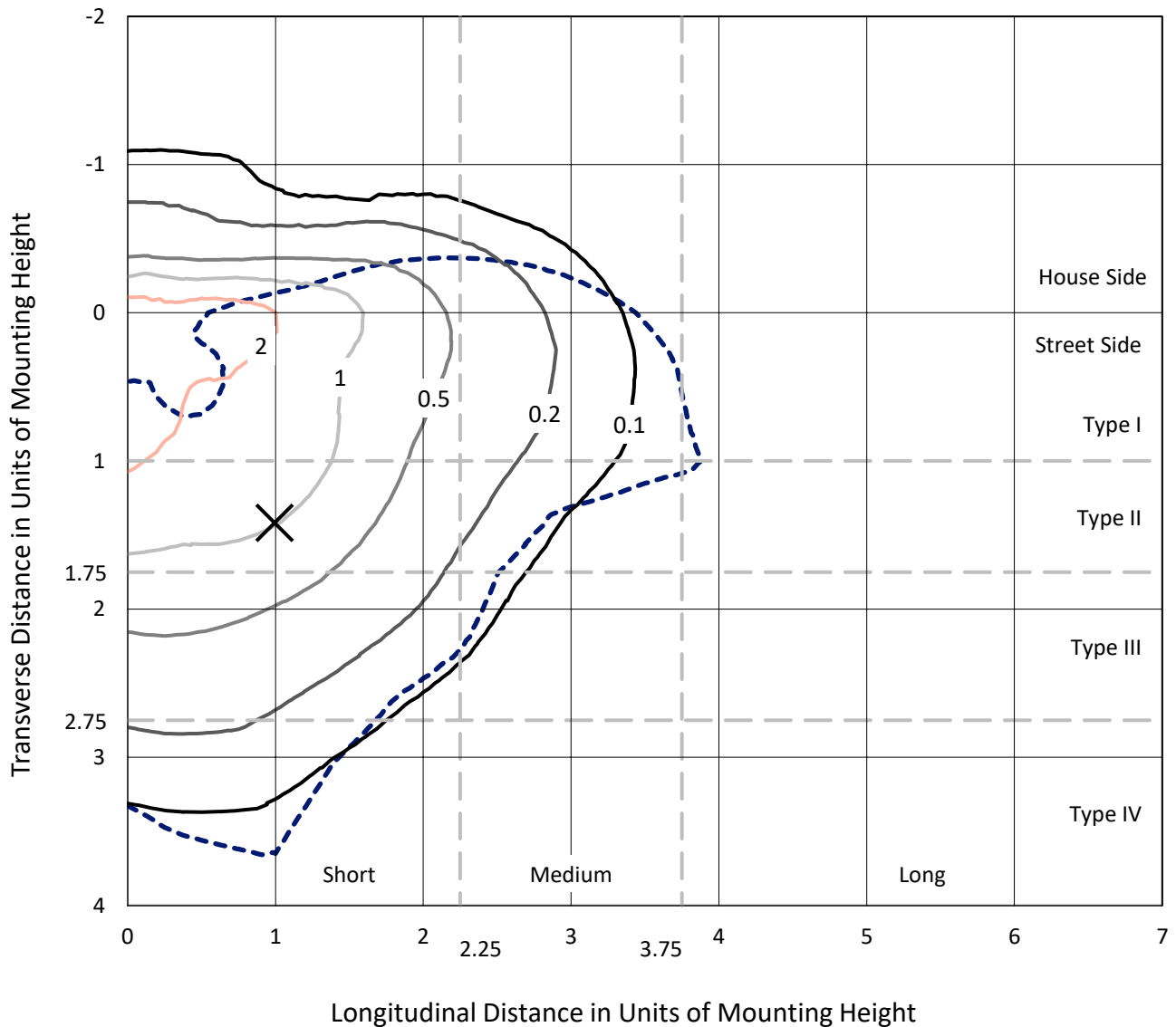
Lumens per Lamp: N/A
Luminaire Lumens: 2396.5 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

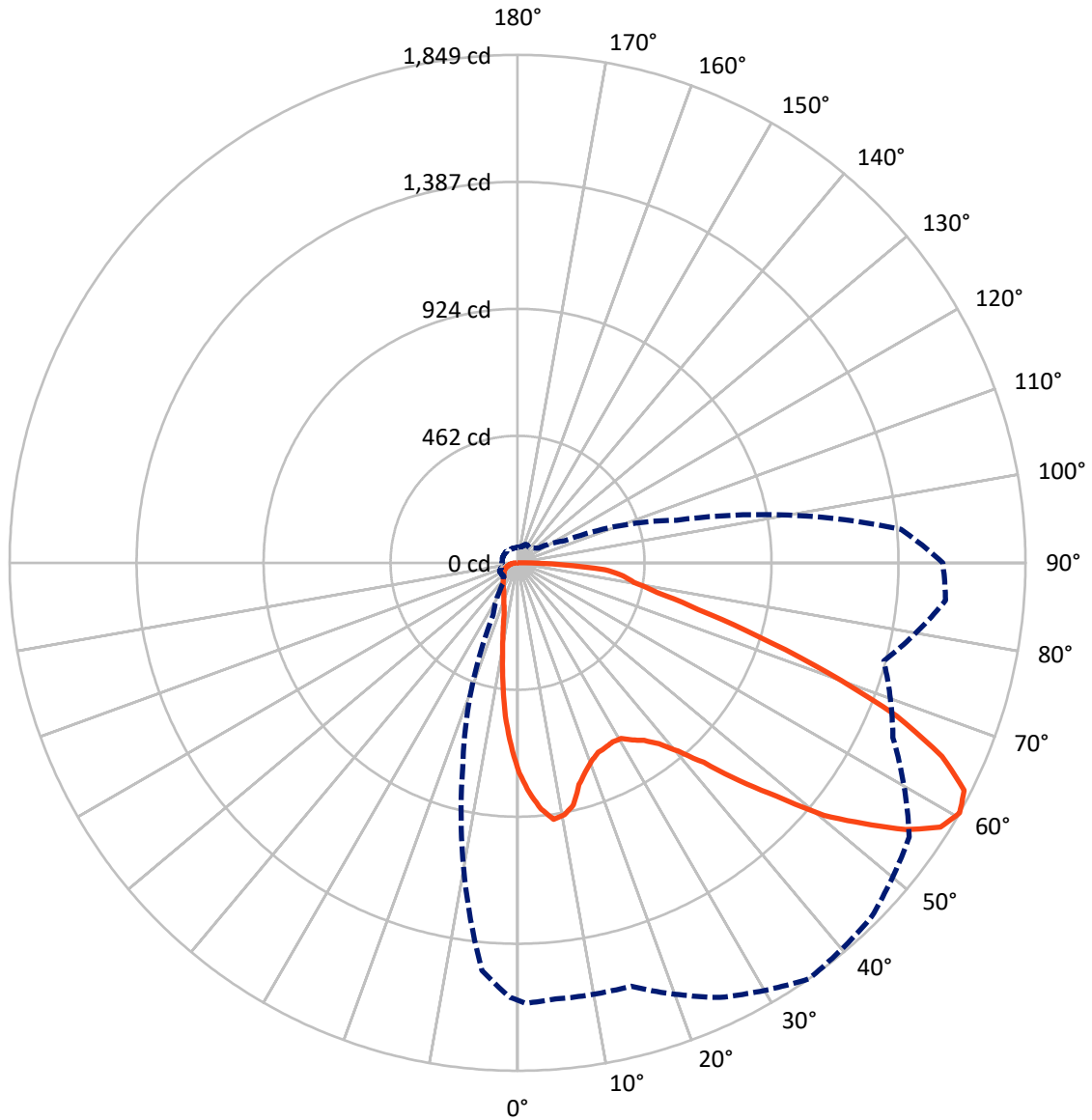
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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	456.1	0.0	456.1
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1940.4	0.0	1940.4
	% Fixture	81.0	0.0	81.0
Total	Lumens	2396.5	0.0	2396.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	2.5
10°-20°	125.5	5.2
20°-30°	183.7	7.7
30°-40°	258.8	10.8
40°-50°	355.7	14.8
50°-60°	484.7	20.2
60°-70°	530.5	22.1
70°-80°	306.3	12.8
80°-90°	91.7	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°	2396.5	100.0
0°-180°	2396.5	100.0

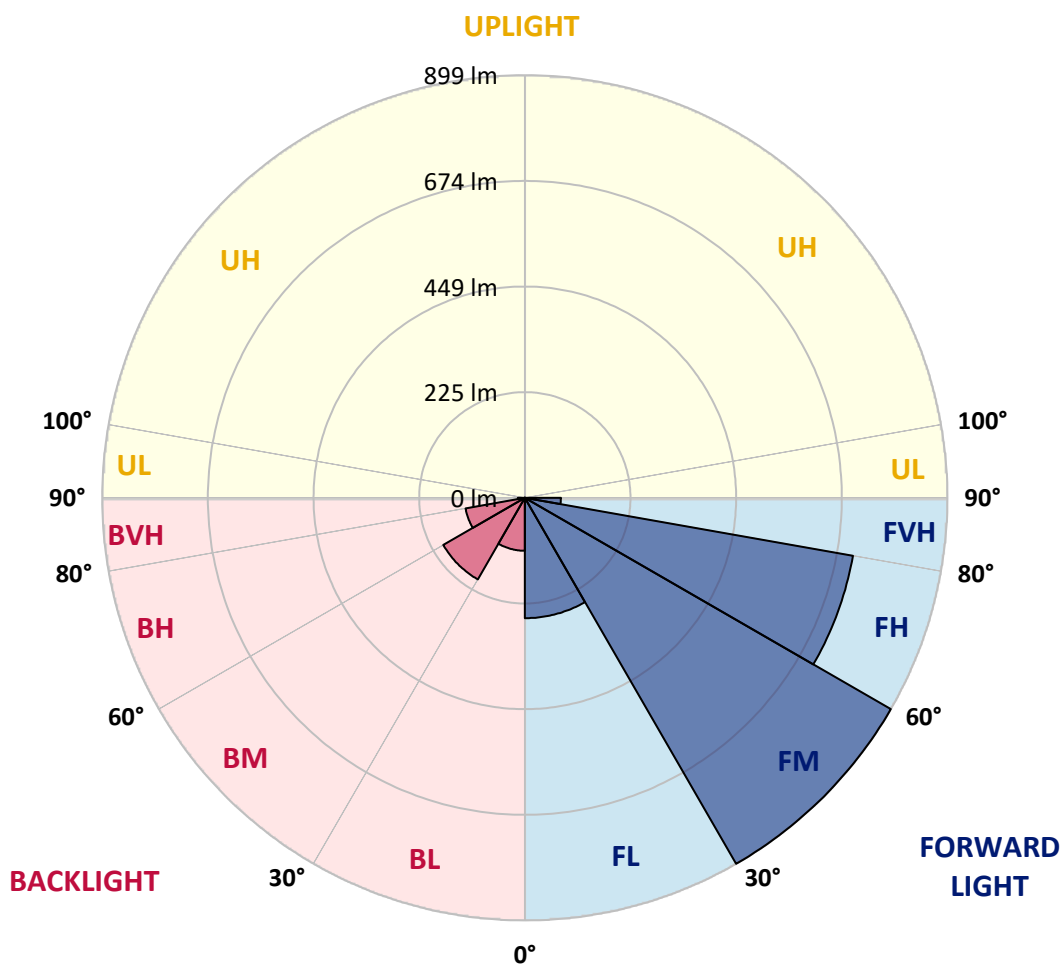


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.0	10.7			
FM (30°-60°)	898.9	37.5			
FH (60°-80°)	708.7	29.6			G1/1800
FVH (80°-90°)	76.8	3.2			G1/100
BL (0°-30°)	112.7	4.7	B1/500		
BM (30°-60°)	200.3	8.4	B0/220		
BH (60°-80°)	128.1	5.3	B1/500		G1/500
BVH (80°-90°)	14.9	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°	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4
2.5°	819.6	816.4	819.6	831.3	834.5	839.8	839.8	832.4	818.6	812.2	801.6
5°	837.7	832.4	859.0	883.4	902.6	900.4	882.4	867.5	839.8	798.4	759.0
7.5°	801.6	806.9	826.0	889.8	934.4	942.9	914.2	884.5	824.9	767.5	714.4
10°	733.5	741.0	782.4	848.3	918.5	932.3	914.2	878.1	806.9	735.6	674.0
12.5°	700.6	717.6	742.0	821.8	871.7	904.7	896.2	872.8	793.1	709.1	649.5
15°	700.6	704.8	741.0	807.9	836.6	837.7	840.9	845.1	797.3	720.8	641.0
17.5°	722.9	734.6	765.4	806.9	812.2	799.4	799.4	817.5	805.8	753.7	671.9
20°	777.1	772.9	813.3	830.3	801.6	769.7	766.5	797.3	815.4	788.8	728.2
22.5°	831.3	850.5	883.4	845.1	792.0	749.5	745.2	783.5	844.1	849.4	793.1
25°	913.2	932.3	949.3	902.6	790.9	744.2	747.3	777.1	879.2	935.5	901.5
27.5°	1001.4	1013.1	1037.6	965.3	816.4	737.8	741.0	785.6	912.1	991.8	986.5
30°	1051.4	1064.1	1058.8	977.0	833.5	742.0	733.5	797.3	894.0	991.8	1041.8
32.5°	1100.3	1092.8	1089.7	996.1	854.7	768.6	747.3	821.8	904.7	1007.8	1113.0
35°	1159.8	1149.2	1140.7	1033.3	889.8	794.1	784.5	853.6	928.1	1040.8	1170.4
37.5°	1225.7	1225.7	1184.3	1060.9	931.3	835.6	824.9	899.4	965.3	1060.9	1249.1
40°	1303.3	1306.5	1233.2	1098.2	978.0	901.5	898.3	958.9	1001.4	1090.7	1324.6
42.5°	1360.7	1362.9	1275.7	1112.0	1032.2	992.9	1006.7	1054.6	1042.9	1117.3	1329.9
45°	1400.1	1389.4	1305.5	1151.3	1091.8	1130.0	1134.3	1148.1	1097.1	1133.2	1351.2
47.5°	1419.2	1417.1	1318.2	1197.0	1217.2	1269.3	1293.8	1274.6	1147.1	1116.2	1351.2
50°	1438.3	1420.3	1329.9	1259.7	1339.5	1444.7	1439.4	1404.3	1216.2	1137.5	1331.0
52.5°	1451.1	1435.2	1353.3	1316.1	1456.4	1575.5	1596.7	1531.9	1297.0	1176.8	1340.5
55°	1496.8	1484.1	1423.5	1392.6	1591.4	1713.7	1716.9	1626.5	1382.0	1241.7	1403.3
57.5°	1552.1	1559.5	1520.2	1501.1	1694.5	1814.7	1803.0	1696.7	1454.3	1320.3	1475.5
60°	1591.4	1603.1	1593.6	1595.7	1745.6	1848.7	1822.1	1740.3	1507.4	1379.9	1563.8
62.5°	1570.2	1593.6	1632.9	1624.4	1747.7	1824.2	1787.0	1682.8	1513.8	1457.5	1630.8
65°	1511.7	1513.8	1590.4	1637.1	1652.0	1697.7	1648.8	1562.7	1447.9	1505.3	1621.2
67.5°	1361.8	1378.8	1447.9	1539.3	1476.6	1487.2	1483.0	1358.6	1348.0	1472.4	1547.8
70°	1202.3	1214.0	1289.5	1396.9	1247.0	1197.0	1206.6	1114.1	1157.7	1370.3	1400.1
72.5°	994.0	1001.4	1087.5	1182.1	1000.4	911.1	933.4	857.9	919.6	1199.1	1181.1
75°	750.5	764.4	831.3	942.9	736.7	679.3	701.6	670.8	728.2	987.6	916.4
77.5°	533.7	523.0	606.0	737.8	553.9	519.8	522.0	527.3	588.9	832.4	658.0
80°	363.6	366.8	441.2	541.1	434.8	429.5	424.2	466.7	494.3	659.1	478.4
82.5°	215.8	215.8	297.7	384.8	343.4	387.0	362.5	400.8	387.0	484.8	313.6
85°	101.0	101.0	153.1	277.5	265.8	318.9	271.1	303.0	286.0	338.1	141.4
87.5°	17.0	14.9	30.8	136.1	109.5	124.4	48.9	161.6	179.7	236.0	35.1
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°	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4
2.5°	789.9	782.4	767.5	748.4	732.5	712.3	705.9	692.1	672.9	670.8	662.3
5°	744.2	718.6	686.7	647.4	620.8	593.2	569.8	556.0	540.0	537.9	533.7
7.5°	694.2	662.3	609.1	562.4	516.7	473.1	451.8	425.2	407.2	393.3	387.0
10°	647.4	617.6	551.7	488.0	447.6	418.9	393.3	365.7	343.4	326.4	320.0
12.5°	616.6	581.5	510.3	449.7	419.9	387.0	358.3	328.5	299.8	277.5	265.8
15°	602.8	569.8	497.5	430.5	387.0	341.2	308.3	278.5	243.4	227.5	222.2
17.5°	635.7	586.8	493.3	408.2	346.6	294.5	254.1	222.2	196.7	180.7	174.3
20°	678.2	617.6	500.7	381.6	308.3	249.8	205.2	171.2	154.1	142.5	141.4
22.5°	732.5	663.4	512.4	362.5	265.8	200.9	160.5	140.3	128.6	127.6	125.4
25°	829.2	746.3	531.5	337.0	231.8	165.8	137.1	125.4	120.1	116.9	119.1
27.5°	912.1	800.5	545.4	321.0	217.9	156.3	132.9	120.1	114.8	113.7	114.8
30°	961.0	850.5	541.1	291.3	190.3	148.8	141.4	137.1	126.5	118.0	118.0
32.5°	1005.7	882.4	540.0	264.7	162.7	124.4	118.0	114.8	121.2	125.4	122.3
35°	1067.3	932.3	536.9	249.8	151.0	114.8	104.2	95.7	91.4	89.3	92.5
37.5°	1133.2	966.3	528.3	247.7	144.6	109.5	101.0	92.5	88.2	86.1	85.0
40°	1205.5	1002.5	518.8	237.1	141.4	106.3	97.8	90.4	85.0	81.9	80.8
42.5°	1252.3	1031.2	509.2	231.8	135.0	104.2	94.6	88.2	82.9	78.7	78.7
45°	1278.9	1065.2	499.6	226.4	127.6	105.2	94.6	86.1	79.7	77.6	75.5
47.5°	1290.6	1090.7	496.5	217.9	121.2	101.0	92.5	84.0	77.6	73.4	72.3
50°	1321.4	1144.9	508.2	211.6	113.7	96.7	97.8	82.9	76.5	71.2	70.2
52.5°	1339.5	1188.5	533.7	202.0	108.4	91.4	95.7	80.8	73.4	68.0	68.0
55°	1405.4	1260.8	561.3	194.5	102.1	84.0	88.2	76.5	68.0	64.8	64.8
57.5°	1489.4	1337.3	584.7	191.4	97.8	78.7	78.7	74.4	64.8	60.6	59.5
60°	1547.8	1400.1	598.5	189.2	93.6	73.4	70.2	74.4	61.7	57.4	56.3
62.5°	1554.2	1363.9	584.7	188.2	92.5	68.0	63.8	71.2	58.5	54.2	52.1
65°	1513.8	1290.6	546.4	183.9	91.4	62.7	59.5	61.7	54.2	51.0	48.9
67.5°	1433.0	1171.5	491.1	181.8	90.4	58.5	54.2	53.2	50.0	46.8	44.6
70°	1244.9	1016.3	426.3	172.2	88.2	55.3	48.9	47.8	44.6	42.5	41.5
72.5°	1045.0	831.3	351.9	159.5	84.0	50.0	44.6	42.5	41.5	38.3	37.2
75°	800.5	640.0	281.7	141.4	73.4	44.6	39.3	37.2	36.1	34.0	33.0
77.5°	562.4	476.3	208.4	114.8	61.7	40.4	35.1	33.0	31.9	28.7	28.7
80°	381.6	333.8	141.4	79.7	47.8	33.0	30.8	28.7	26.6	24.5	24.5
82.5°	237.1	233.9	102.1	52.1	35.1	26.6	24.5	24.5	21.3	19.1	19.1
85°	108.4	143.5	71.2	36.1	26.6	20.2	20.2	19.1	17.0	13.8	13.8
87.5°	34.0	47.8	37.2	15.9	14.9	11.7	11.7	10.6	10.6	8.5	8.5
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°	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4
2.5°	670.8	669.7	669.7	665.5	676.1	676.1	682.5	677.2	680.4	681.4	689.9
5°	532.6	541.1	547.5	560.2	567.7	570.9	570.9	579.4	576.2	582.6	595.3
7.5°	390.1	400.8	419.9	435.9	448.6	452.9	451.8	453.9	457.1	449.7	451.8
10°	315.7	308.3	314.7	329.6	341.2	355.1	344.4	343.4	346.6	343.4	349.8
12.5°	263.6	255.1	249.8	249.8	258.3	264.7	261.5	266.8	278.5	281.7	289.2
15°	213.7	206.2	202.0	196.7	205.2	207.3	210.5	217.9	226.4	230.7	239.2
17.5°	171.2	171.2	171.2	166.9	170.1	173.3	174.3	183.9	185.0	189.2	192.4
20°	140.3	143.5	148.8	151.0	154.1	154.1	152.0	157.3	153.1	156.3	158.4
22.5°	126.5	130.8	132.9	133.9	138.2	139.3	133.9	135.0	136.1	132.9	133.9
25°	119.1	121.2	119.1	120.1	121.2	119.1	120.1	122.3	121.2	123.3	122.3
27.5°	115.9	113.7	112.7	111.6	111.6	109.5	110.6	110.6	112.7	113.7	113.7
30°	115.9	112.7	108.4	105.2	105.2	102.1	104.2	106.3	107.4	109.5	109.5
32.5°	119.1	112.7	105.2	102.1	98.9	96.7	98.9	102.1	106.3	107.4	108.4
35°	94.6	97.8	96.7	92.5	91.4	91.4	90.4	90.4	87.2	87.2	86.1
37.5°	85.0	84.0	86.1	87.2	88.2	85.0	85.0	80.8	79.7	80.8	80.8
40°	79.7	79.7	79.7	82.9	84.0	81.9	78.7	76.5	76.5	76.5	77.6
42.5°	77.6	75.5	74.4	76.5	79.7	77.6	74.4	73.4	73.4	74.4	74.4
45°	74.4	73.4	72.3	71.2	75.5	72.3	71.2	70.2	70.2	70.2	71.2
47.5°	71.2	70.2	68.0	68.0	69.1	68.0	67.0	67.0	67.0	69.1	69.1
50°	69.1	68.0	65.9	65.9	65.9	65.9	64.8	64.8	64.8	65.9	67.0
52.5°	65.9	64.8	63.8	62.7	62.7	62.7	62.7	62.7	62.7	63.8	64.8
55°	62.7	61.7	60.6	60.6	61.7	61.7	60.6	61.7	60.6	61.7	62.7
57.5°	59.5	58.5	57.4	58.5	59.5	58.5	58.5	58.5	58.5	58.5	59.5
60°	55.3	55.3	55.3	55.3	57.4	57.4	57.4	57.4	55.3	56.3	57.4
62.5°	53.2	52.1	52.1	53.2	54.2	54.2	55.3	54.2	53.2	54.2	54.2
65°	48.9	48.9	48.9	50.0	50.0	51.0	51.0	51.0	50.0	51.0	51.0
67.5°	45.7	45.7	45.7	45.7	47.8	47.8	47.8	47.8	46.8	46.8	47.8
70°	40.4	41.5	40.4	42.5	44.6	43.6	44.6	44.6	43.6	42.5	44.6
72.5°	37.2	37.2	37.2	37.2	40.4	40.4	40.4	41.5	40.4	39.3	40.4
75°	33.0	33.0	33.0	34.0	36.1	36.1	36.1	36.1	36.1	35.1	35.1
77.5°	28.7	29.8	28.7	29.8	31.9	30.8	31.9	33.0	31.9	30.8	30.8
80°	24.5	24.5	24.5	25.5	26.6	26.6	26.6	27.6	26.6	25.5	25.5
82.5°	19.1	19.1	20.2	20.2	21.3	21.3	21.3	22.3	21.3	20.2	20.2
85°	14.9	14.9	14.9	15.9	15.9	17.0	17.0	18.1	18.1	17.0	17.0
87.5°	9.6	8.5	9.6	9.6	10.6	10.6	9.6	8.5	9.6	8.5	7.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4
2.5°	698.4	717.6	731.4	741.0	754.8	781.4	792.0	811.1	816.4	819.6
5°	600.6	620.8	650.6	671.9	696.3	746.3	784.5	813.3	826.0	837.7
7.5°	470.9	497.5	528.3	556.0	596.4	658.0	708.0	767.5	789.9	801.6
10°	367.8	392.3	426.3	460.3	516.7	568.7	640.0	694.2	725.0	733.5
12.5°	310.4	339.1	379.5	421.0	456.1	515.6	587.9	666.5	695.3	700.6
15°	263.6	303.0	344.4	387.0	427.4	479.4	557.1	652.7	695.3	700.6
17.5°	217.9	253.0	301.9	347.6	394.4	465.6	562.4	664.4	706.9	722.9
20°	173.3	207.3	245.6	303.0	366.8	442.2	574.1	703.8	760.1	777.1
22.5°	143.5	158.4	195.6	250.9	326.4	426.3	585.8	765.4	824.9	831.3
25°	125.4	136.1	159.5	211.6	294.5	415.7	613.4	836.6	913.2	913.2
27.5°	116.9	121.2	137.1	183.9	272.1	406.1	641.0	915.3	986.5	1001.4
30°	114.8	125.4	133.9	163.7	247.7	379.5	666.5	977.0	1050.3	1051.4
32.5°	112.7	110.6	116.9	142.5	217.9	351.9	687.8	1039.7	1097.1	1100.3
35°	88.2	92.5	103.1	125.4	195.6	331.7	698.4	1073.7	1156.6	1159.8
37.5°	82.9	88.2	96.7	115.9	180.7	314.7	701.6	1139.6	1219.3	1225.7
40°	80.8	85.0	91.4	107.4	169.0	293.4	708.0	1207.7	1311.8	1303.3
42.5°	76.5	81.9	88.2	103.1	159.5	277.5	709.1	1244.9	1360.7	1360.7
45°	75.5	78.7	86.1	103.1	148.8	263.6	692.1	1282.1	1417.1	1400.1
47.5°	71.2	77.6	84.0	99.9	136.1	249.8	671.9	1301.2	1424.5	1419.2
50°	70.2	76.5	87.2	94.6	128.6	243.4	667.6	1349.0	1439.4	1438.3
52.5°	68.0	74.4	90.4	90.4	119.1	234.9	687.8	1370.3	1442.6	1451.1
55°	64.8	74.4	84.0	82.9	110.6	224.3	710.1	1425.6	1498.9	1496.8
57.5°	62.7	72.3	79.7	75.5	101.0	216.9	743.1	1478.7	1567.0	1552.1
60°	59.5	72.3	71.2	70.2	93.6	210.5	770.7	1489.4	1581.9	1591.4
62.5°	57.4	75.5	62.7	64.8	87.2	207.3	759.0	1409.6	1561.7	1570.2
65°	55.3	64.8	57.4	59.5	85.0	200.9	713.3	1314.0	1474.5	1511.7
67.5°	51.0	53.2	53.2	55.3	82.9	186.0	619.8	1141.7	1341.6	1361.8
70°	46.8	47.8	47.8	51.0	80.8	169.0	511.3	987.6	1164.1	1202.3
72.5°	42.5	42.5	42.5	46.8	74.4	155.2	421.0	759.0	967.4	994.0
75°	37.2	37.2	37.2	41.5	67.0	141.4	331.7	564.5	712.3	750.5
77.5°	33.0	33.0	31.9	37.2	58.5	114.8	239.2	398.7	501.8	533.7
80°	27.6	26.6	26.6	29.8	45.7	82.9	154.1	281.7	349.8	363.6
82.5°	22.3	21.3	20.2	22.3	33.0	52.1	95.7	196.7	224.3	215.8
85°	21.3	22.3	18.1	17.0	23.4	34.0	60.6	121.2	101.0	101.0
87.5°	8.5	7.4	7.4	6.4	11.7	12.8	26.6	22.3	17.0	17.0
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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