

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: P675898

Luminaire Tested: **CCW-SA-1B-835-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675898
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-835-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

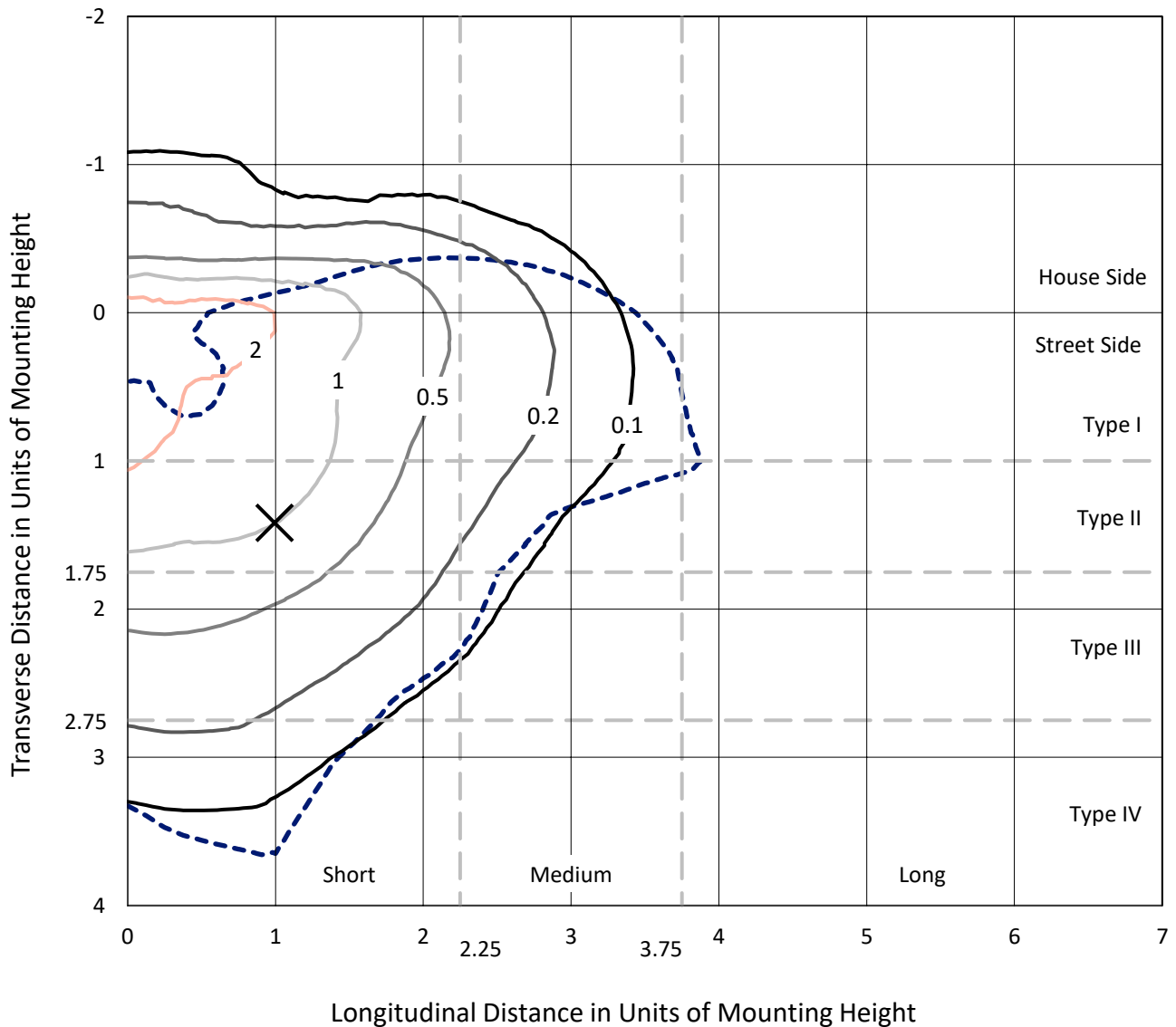
Lumens per Lamp: N/A
Luminaire Lumens: 2361.2 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
Input Voltage (V): 120
Input Current (A_{in}): 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

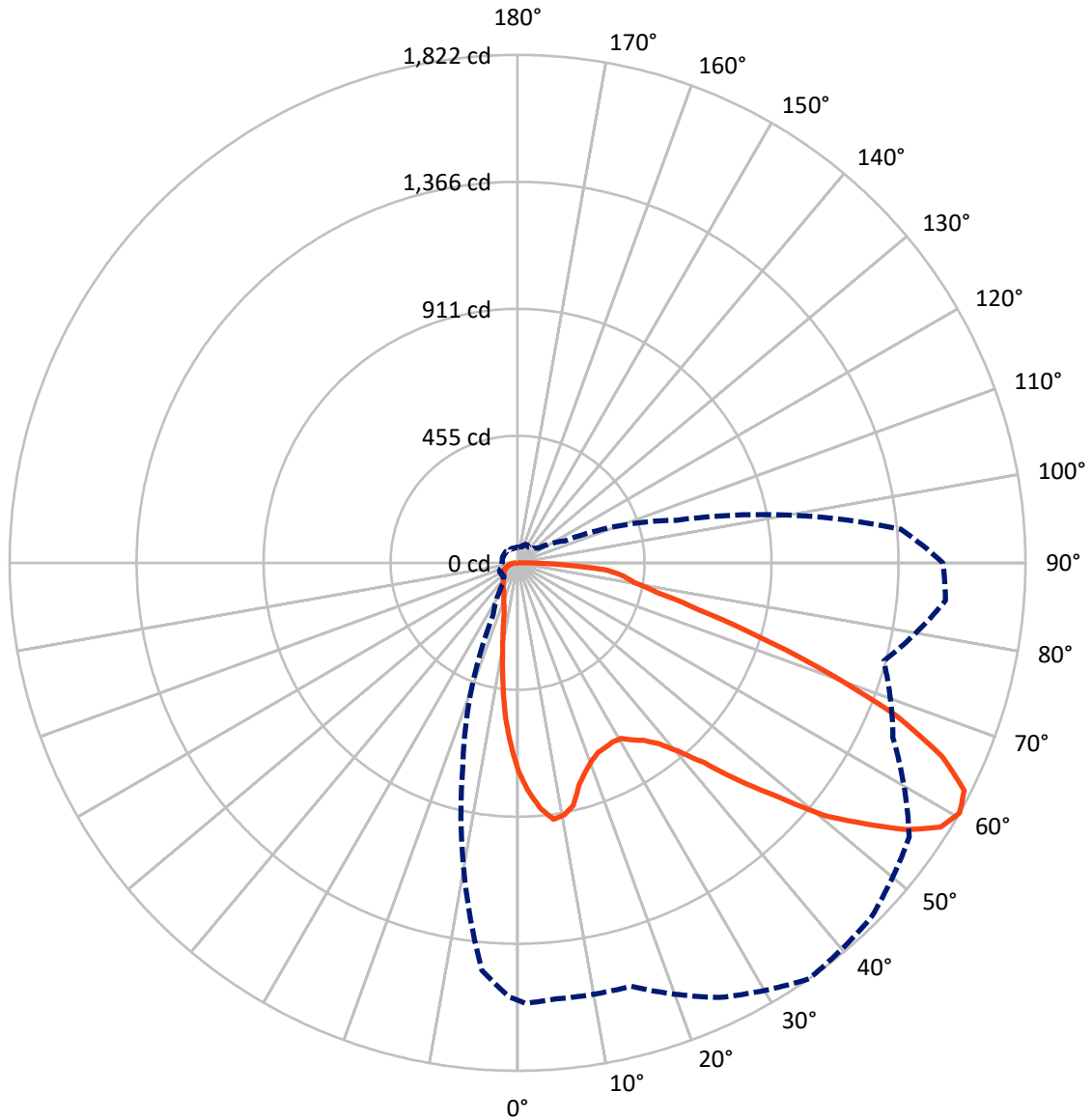
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 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	449.4	0.0	449.4
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1911.8	0.0	1911.8
	% Fixture	81.0	0.0	81.0
Total	Lumens	2361.2	0.0	2361.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	2.5
10°-20°	123.7	5.2
20°-30°	181.0	7.7
30°-40°	255.0	10.8
40°-50°	350.4	14.8
50°-60°	477.6	20.2
60°-70°	522.7	22.1
70°-80°	301.8	12.8
80°-90°	90.4	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°	2361.2	100.0
0°-180°	2361.2	100.0

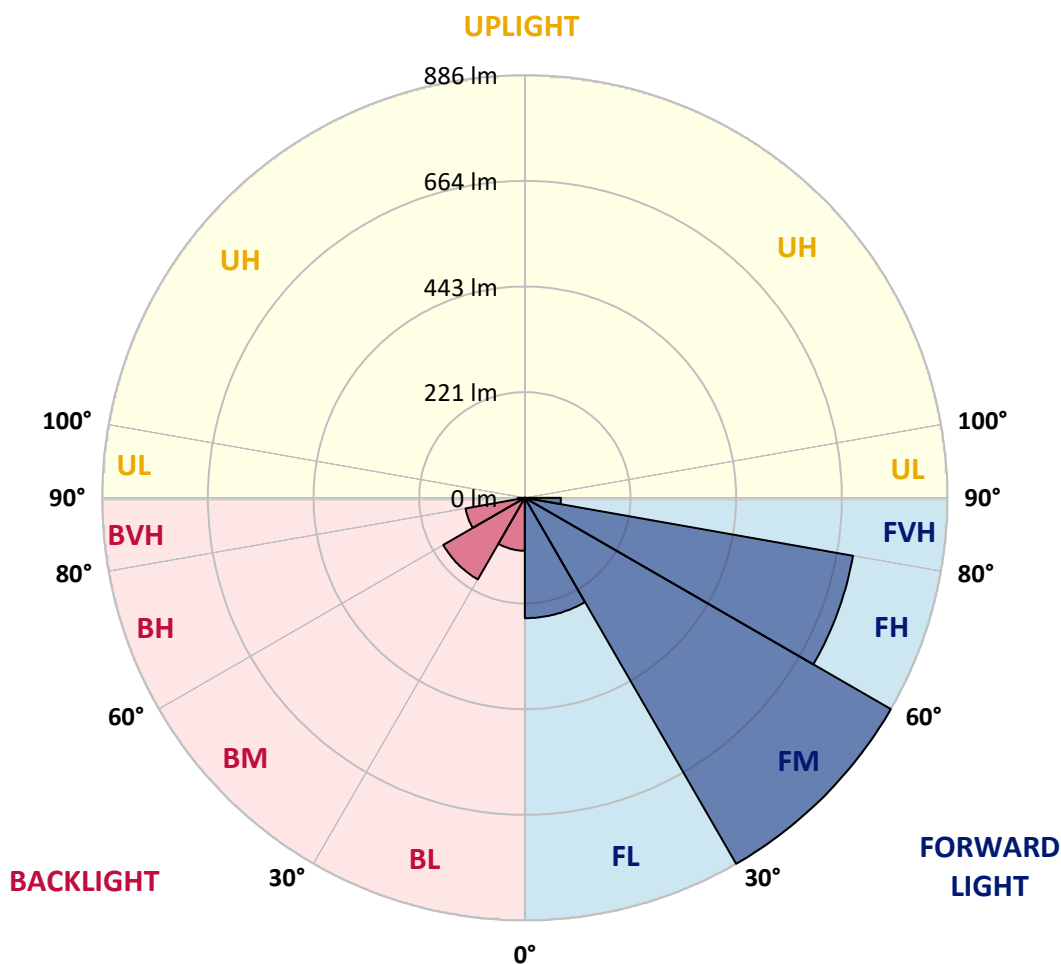


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	252.2	10.7			
FM (30°-60°)	885.6	37.5			
FH (60°-80°)	698.3	29.6			G1/1800
FVH (80°-90°)	75.6	3.2			G1/100
BL (0°-30°)	111.0	4.7	B1/500		
BM (30°-60°)	197.4	8.4	B0/220		
BH (60°-80°)	126.2	5.3	B1/500		G1/500
BVH (80°-90°)	14.7	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°	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2
2.5°	807.6	804.4	807.6	819.1	822.2	827.5	827.5	820.1	806.5	800.2	789.8
5°	825.4	820.1	846.3	870.4	889.3	887.2	869.4	854.7	827.5	786.6	747.9
7.5°	789.8	795.0	813.9	876.7	920.7	929.1	900.8	871.5	812.8	756.3	703.9
10°	722.7	730.1	770.9	835.9	905.0	918.6	900.8	865.2	795.0	724.8	664.1
12.5°	690.3	707.0	731.1	809.7	858.9	891.4	883.0	859.9	781.4	698.6	640.0
15°	690.3	694.5	730.1	796.1	824.3	825.4	828.5	832.7	785.6	710.2	631.6
17.5°	712.3	723.8	754.2	795.0	800.2	787.7	787.7	805.5	794.0	742.6	662.0
20°	765.7	761.5	801.3	818.1	789.8	758.3	755.2	785.6	803.4	777.2	717.5
22.5°	819.1	838.0	870.4	832.7	780.3	738.4	734.3	772.0	831.7	836.9	781.4
25°	899.8	918.6	935.4	889.3	779.3	733.2	736.4	765.7	866.2	921.7	888.2
27.5°	986.7	998.2	1022.3	951.1	804.4	726.9	730.1	774.1	898.7	977.3	972.0
30°	1035.9	1048.5	1043.3	962.6	821.2	731.1	722.7	785.6	880.9	977.3	1026.5
32.5°	1084.1	1076.8	1073.6	981.5	842.1	757.3	736.4	809.7	891.4	993.0	1096.7
35°	1142.8	1132.3	1123.9	1018.1	876.7	782.4	773.0	841.1	914.4	1025.4	1153.2
37.5°	1207.7	1207.7	1166.8	1045.3	917.6	823.3	812.8	886.1	951.1	1045.3	1230.7
40°	1284.2	1287.3	1215.0	1082.0	963.6	888.2	885.1	944.8	986.7	1074.7	1305.1
42.5°	1340.7	1342.8	1256.9	1095.6	1017.1	978.3	991.9	1039.1	1027.5	1100.9	1310.3
45°	1379.5	1369.0	1286.3	1134.4	1075.7	1113.4	1117.6	1131.2	1081.0	1116.6	1331.3
47.5°	1398.3	1396.2	1298.8	1179.4	1199.3	1250.6	1274.7	1255.9	1130.2	1099.8	1331.3
50°	1417.2	1399.4	1310.3	1241.2	1319.8	1423.5	1418.2	1383.7	1198.3	1120.8	1311.4
52.5°	1429.8	1414.0	1333.4	1296.7	1435.0	1552.3	1573.3	1509.4	1277.9	1159.5	1320.8
55°	1474.8	1462.2	1402.5	1372.1	1568.0	1688.5	1691.6	1602.6	1361.7	1223.4	1382.6
57.5°	1529.3	1536.6	1497.8	1479.0	1669.6	1788.0	1776.5	1671.7	1432.9	1300.9	1453.8
60°	1568.0	1579.5	1570.1	1572.2	1719.9	1821.5	1795.3	1714.7	1485.3	1359.6	1540.8
62.5°	1547.1	1570.1	1608.9	1600.5	1722.0	1797.4	1760.7	1658.1	1491.6	1436.0	1606.8
65°	1489.5	1491.6	1567.0	1613.1	1627.7	1672.8	1624.6	1539.7	1426.6	1483.2	1597.3
67.5°	1341.8	1358.5	1426.6	1516.7	1454.9	1465.4	1461.2	1338.6	1328.2	1450.7	1525.1
70°	1184.7	1196.2	1270.5	1376.3	1228.6	1179.4	1188.8	1097.7	1140.7	1350.2	1379.5
72.5°	979.4	986.7	1071.5	1164.8	985.6	897.7	919.7	845.3	906.0	1181.5	1163.7
75°	739.5	753.1	819.1	929.1	725.9	669.3	691.3	660.9	717.5	973.1	902.9
77.5°	525.8	515.3	597.0	726.9	545.7	512.2	514.3	519.5	580.3	820.1	648.4
80°	358.2	361.4	434.7	533.1	428.4	423.2	417.9	459.8	487.1	649.4	471.3
82.5°	212.6	212.6	293.3	379.2	338.3	381.3	357.2	394.9	381.3	477.6	309.0
85°	99.5	99.5	150.8	273.4	261.9	314.2	267.1	298.5	281.8	333.1	139.3
87.5°	16.8	14.7	30.4	134.1	107.9	122.6	48.2	159.2	177.0	232.5	34.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2
2.5°	778.2	770.9	756.3	737.4	721.7	701.8	695.5	681.9	663.0	660.9	652.6
5°	733.2	708.1	676.6	637.9	611.7	584.5	561.4	547.8	532.1	530.0	525.8
7.5°	684.0	652.6	600.2	554.1	509.1	466.1	445.2	419.0	401.2	387.6	381.3
10°	637.9	608.6	543.6	480.8	441.0	412.7	387.6	360.3	338.3	321.6	315.3
12.5°	607.5	572.9	502.8	443.1	413.7	381.3	353.0	323.7	295.4	273.4	261.9
15°	593.9	561.4	490.2	424.2	381.3	336.2	303.8	274.4	239.9	224.2	218.9
17.5°	626.4	578.2	486.0	402.2	341.5	290.1	250.3	218.9	193.8	178.1	171.8
20°	668.3	608.6	493.3	376.0	303.8	246.1	202.2	168.6	151.9	140.4	139.3
22.5°	721.7	653.6	504.9	357.2	261.9	198.0	158.2	138.3	126.7	125.7	123.6
25°	817.0	735.3	523.7	332.0	228.3	163.4	135.1	123.6	118.4	115.2	117.3
27.5°	898.7	788.7	537.3	316.3	214.7	154.0	130.9	118.4	113.1	112.1	113.1
30°	946.9	838.0	533.1	287.0	187.5	146.6	139.3	135.1	124.6	116.3	116.3
32.5°	990.9	869.4	532.1	260.8	160.3	122.6	116.3	113.1	119.4	123.6	120.5
35°	1051.6	918.6	529.0	246.1	148.7	113.1	102.6	94.3	90.1	88.0	91.1
37.5°	1116.6	952.1	520.6	244.1	142.5	107.9	99.5	91.1	86.9	84.8	83.8
40°	1187.8	987.7	511.2	233.6	139.3	104.7	96.4	89.0	83.8	80.7	79.6
42.5°	1233.9	1016.0	501.7	228.3	133.0	102.6	93.2	86.9	81.7	77.5	77.5
45°	1260.1	1049.5	492.3	223.1	125.7	103.7	93.2	84.8	78.6	76.5	74.4
47.5°	1271.6	1074.7	489.2	214.7	119.4	99.5	91.1	82.7	76.5	72.3	71.2
50°	1302.0	1128.1	500.7	208.4	112.1	95.3	96.4	81.7	75.4	70.2	69.1
52.5°	1319.8	1171.0	525.8	199.0	106.8	90.1	94.3	79.6	72.3	67.0	67.0
55°	1384.7	1242.3	553.0	191.7	100.6	82.7	86.9	75.4	67.0	63.9	63.9
57.5°	1467.5	1317.7	576.1	188.5	96.4	77.5	77.5	73.3	63.9	59.7	58.7
60°	1525.1	1379.5	589.7	186.4	92.2	72.3	69.1	73.3	60.8	56.6	55.5
62.5°	1531.4	1343.9	576.1	185.4	91.1	67.0	62.8	70.2	57.6	53.4	51.3
65°	1491.6	1271.6	538.4	181.2	90.1	61.8	58.7	60.8	53.4	50.3	48.2
67.5°	1411.9	1154.3	483.9	179.1	89.0	57.6	53.4	52.4	49.2	46.1	44.0
70°	1226.6	1001.4	420.0	169.7	86.9	54.5	48.2	47.1	44.0	41.9	40.9
72.5°	1029.6	819.1	346.7	157.1	82.7	49.2	44.0	41.9	40.9	37.7	36.7
75°	788.7	630.6	277.6	139.3	72.3	44.0	38.8	36.7	35.6	33.5	32.5
77.5°	554.1	469.3	205.3	113.1	60.8	39.8	34.6	32.5	31.4	28.3	28.3
80°	376.0	328.9	139.3	78.6	47.1	32.5	30.4	28.3	26.2	24.1	24.1
82.5°	233.6	230.4	100.6	51.3	34.6	26.2	24.1	24.1	20.9	18.9	18.9
85°	106.8	141.4	70.2	35.6	26.2	19.9	19.9	18.9	16.8	13.6	13.6
87.5°	33.5	47.1	36.7	15.7	14.7	11.5	11.5	10.5	10.5	8.4	8.4
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°	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2
2.5°	660.9	659.9	659.9	655.7	666.2	666.2	672.5	667.2	670.4	671.4	679.8
5°	524.8	533.1	539.4	552.0	559.3	562.5	562.5	570.9	567.7	574.0	586.6
7.5°	384.4	394.9	413.7	429.5	442.0	446.2	445.2	447.3	450.4	443.1	445.2
10°	311.1	303.8	310.0	324.7	336.2	349.8	339.4	338.3	341.5	338.3	344.6
12.5°	259.8	251.4	246.1	246.1	254.5	260.8	257.7	262.9	274.4	277.6	284.9
15°	210.5	203.2	199.0	193.8	202.2	204.3	207.4	214.7	223.1	227.3	235.7
17.5°	168.6	168.6	168.6	164.4	167.6	170.7	171.8	181.2	182.3	186.4	189.6
20°	138.3	141.4	146.6	148.7	151.9	151.9	149.8	155.0	150.8	154.0	156.1
22.5°	124.6	128.8	130.9	132.0	136.2	137.2	132.0	133.0	134.1	130.9	132.0
25°	117.3	119.4	117.3	118.4	119.4	117.3	118.4	120.5	119.4	121.5	120.5
27.5°	114.2	112.1	111.0	110.0	110.0	107.9	108.9	108.9	111.0	112.1	112.1
30°	114.2	111.0	106.8	103.7	103.7	100.6	102.6	104.7	105.8	107.9	107.9
32.5°	117.3	111.0	103.7	100.6	97.4	95.3	97.4	100.6	104.7	105.8	106.8
35°	93.2	96.4	95.3	91.1	90.1	90.1	89.0	89.0	85.9	85.9	84.8
37.5°	83.8	82.7	84.8	85.9	86.9	83.8	83.8	79.6	78.6	79.6	79.6
40°	78.6	78.6	78.6	81.7	82.7	80.7	77.5	75.4	75.4	75.4	76.5
42.5°	76.5	74.4	73.3	75.4	78.6	76.5	73.3	72.3	72.3	73.3	73.3
45°	73.3	72.3	71.2	70.2	74.4	71.2	70.2	69.1	69.1	69.1	70.2
47.5°	70.2	69.1	67.0	67.0	68.1	67.0	66.0	66.0	66.0	68.1	68.1
50°	68.1	67.0	64.9	64.9	64.9	64.9	63.9	63.9	63.9	64.9	66.0
52.5°	64.9	63.9	62.8	61.8	61.8	61.8	61.8	61.8	61.8	62.8	63.9
55°	61.8	60.8	59.7	59.7	60.8	60.8	59.7	60.8	59.7	60.8	61.8
57.5°	58.7	57.6	56.6	57.6	58.7	57.6	57.6	57.6	57.6	57.6	58.7
60°	54.5	54.5	54.5	54.5	56.6	56.6	56.6	56.6	54.5	55.5	56.6
62.5°	52.4	51.3	51.3	52.4	53.4	53.4	54.5	53.4	52.4	53.4	53.4
65°	48.2	48.2	48.2	49.2	49.2	50.3	50.3	50.3	49.2	50.3	50.3
67.5°	45.0	45.0	45.0	45.0	47.1	47.1	47.1	47.1	46.1	46.1	47.1
70°	39.8	40.9	39.8	41.9	44.0	42.9	44.0	44.0	42.9	41.9	44.0
72.5°	36.7	36.7	36.7	36.7	39.8	39.8	39.8	40.9	39.8	38.8	39.8
75°	32.5	32.5	32.5	33.5	35.6	35.6	35.6	35.6	35.6	34.6	34.6
77.5°	28.3	29.3	28.3	29.3	31.4	30.4	31.4	32.5	31.4	30.4	30.4
80°	24.1	24.1	24.1	25.1	26.2	26.2	26.2	27.2	26.2	25.1	25.1
82.5°	18.9	18.9	19.9	19.9	20.9	20.9	20.9	22.0	20.9	19.9	19.9
85°	14.7	14.7	14.7	15.7	15.7	16.8	16.8	17.8	17.8	16.8	16.8
87.5°	9.4	8.4	9.4	9.4	10.5	10.5	9.4	8.4	9.4	8.4	7.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2
2.5°	688.2	707.0	720.6	730.1	743.7	769.9	780.3	799.2	804.4	807.6
5°	591.8	611.7	641.0	662.0	686.1	735.3	773.0	801.3	813.9	825.4
7.5°	464.0	490.2	520.6	547.8	587.6	648.4	697.6	756.3	778.2	789.8
10°	362.4	386.5	420.0	453.5	509.1	560.4	630.6	684.0	714.4	722.7
12.5°	305.9	334.1	373.9	414.8	449.4	508.0	579.2	656.7	685.0	690.3
15°	259.8	298.5	339.4	381.3	421.1	472.4	548.9	643.1	685.0	690.3
17.5°	214.7	249.3	297.5	342.5	388.6	458.8	554.1	654.7	696.5	712.3
20°	170.7	204.3	242.0	298.5	361.4	435.7	565.6	693.4	748.9	765.7
22.5°	141.4	156.1	192.7	247.2	321.6	420.0	577.1	754.2	812.8	819.1
25°	123.6	134.1	157.1	208.4	290.1	409.5	604.4	824.3	899.8	899.8
27.5°	115.2	119.4	135.1	181.2	268.1	400.1	631.6	901.8	972.0	986.7
30°	113.1	123.6	132.0	161.3	244.1	373.9	656.7	962.6	1034.9	1035.9
32.5°	111.0	108.9	115.2	140.4	214.7	346.7	677.7	1024.4	1081.0	1084.1
35°	86.9	91.1	101.6	123.6	192.7	326.8	688.2	1057.9	1139.6	1142.8
37.5°	81.7	86.9	95.3	114.2	178.1	310.0	691.3	1122.9	1201.4	1207.7
40°	79.6	83.8	90.1	105.8	166.5	289.1	697.6	1189.9	1292.5	1284.2
42.5°	75.4	80.7	86.9	101.6	157.1	273.4	698.6	1226.6	1340.7	1340.7
45°	74.4	77.5	84.8	101.6	146.6	259.8	681.9	1263.2	1396.2	1379.5
47.5°	70.2	76.5	82.7	98.5	134.1	246.1	662.0	1282.1	1403.6	1398.3
50°	69.1	75.4	85.9	93.2	126.7	239.9	657.8	1329.2	1418.2	1417.2
52.5°	67.0	73.3	89.0	89.0	117.3	231.5	677.7	1350.2	1421.4	1429.8
55°	63.9	73.3	82.7	81.7	108.9	221.0	699.7	1404.6	1476.9	1474.8
57.5°	61.8	71.2	78.6	74.4	99.5	213.7	732.2	1457.0	1543.9	1529.3
60°	58.7	71.2	70.2	69.1	92.2	207.4	759.4	1467.5	1558.6	1568.0
62.5°	56.6	74.4	61.8	63.9	85.9	204.3	747.9	1388.9	1538.7	1547.1
65°	54.5	63.9	56.6	58.7	83.8	198.0	702.8	1294.6	1452.8	1489.5
67.5°	50.3	52.4	52.4	54.5	81.7	183.3	610.7	1125.0	1321.9	1341.8
70°	46.1	47.1	47.1	50.3	79.6	166.5	503.8	973.1	1146.9	1184.7
72.5°	41.9	41.9	41.9	46.1	73.3	152.9	414.8	747.9	953.2	979.4
75°	36.7	36.7	36.7	40.9	66.0	139.3	326.8	556.2	701.8	739.5
77.5°	32.5	32.5	31.4	36.7	57.6	113.1	235.7	392.8	494.4	525.8
80°	27.2	26.2	26.2	29.3	45.0	81.7	151.9	277.6	344.6	358.2
82.5°	22.0	20.9	19.9	22.0	32.5	51.3	94.3	193.8	221.0	212.6
85°	20.9	22.0	17.8	16.8	23.0	33.5	59.7	119.4	99.5	99.5
87.5°	8.4	7.3	7.3	6.3	11.5	12.6	26.2	22.0	16.8	16.8
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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