

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: P675920

Luminaire Tested: **CCW-SA-1B-850-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675920  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-850-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SLL distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

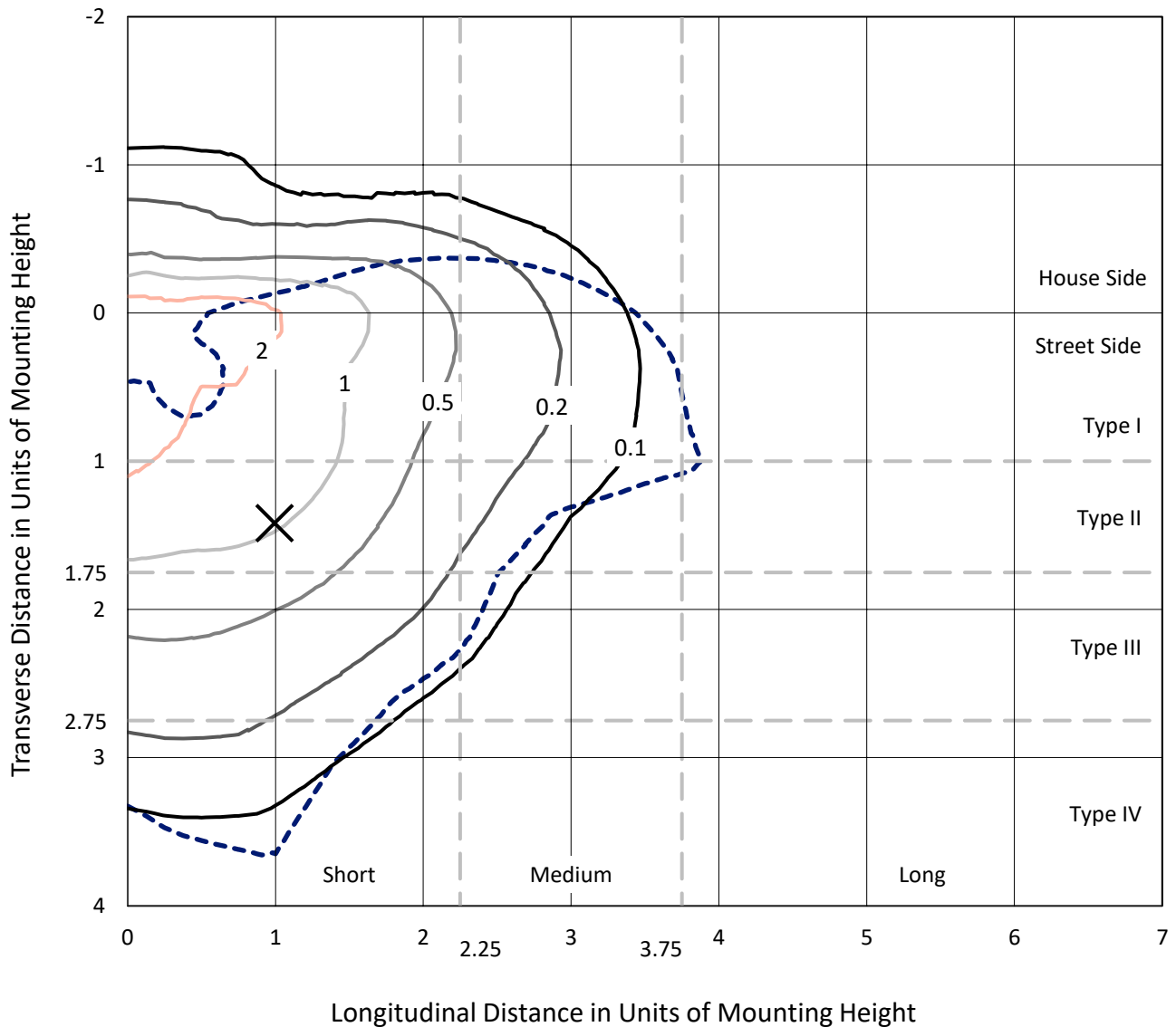
Lumens per Lamp: N/A  
Luminaire Lumens: 2500.5 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

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

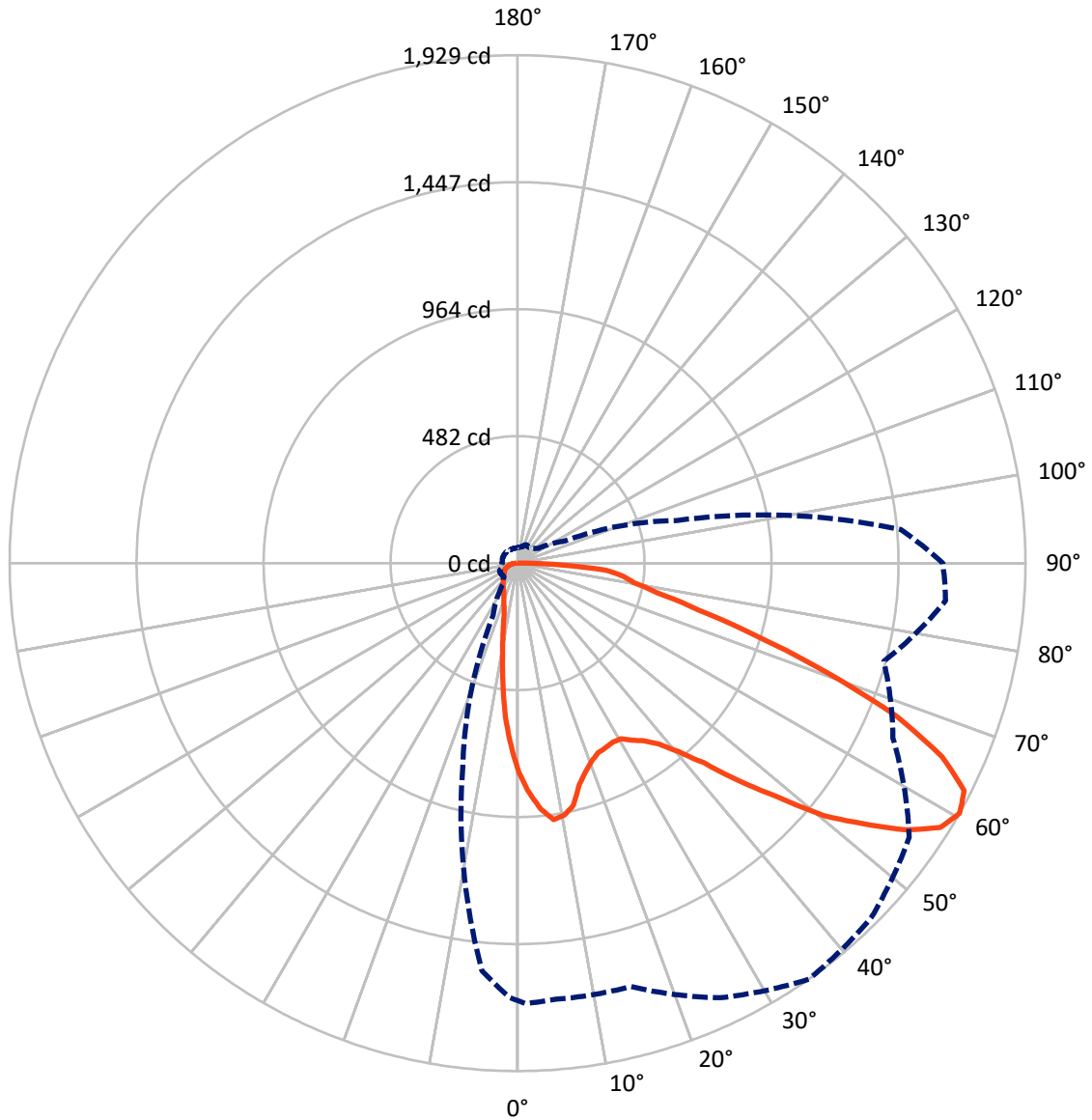
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	475.9	0.0	475.9
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	2024.6	0.0	2024.6
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	2500.5	0.0	2500.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	2.5
10°-20°	131.0	5.2
20°-30°	191.7	7.7
30°-40°	270.0	10.8
40°-50°	371.1	14.8
50°-60°	505.8	20.2
60°-70°	553.6	22.1
70°-80°	319.6	12.8
80°-90°	95.7	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°	2500.5	100.0
0°-180°	2500.5	100.0



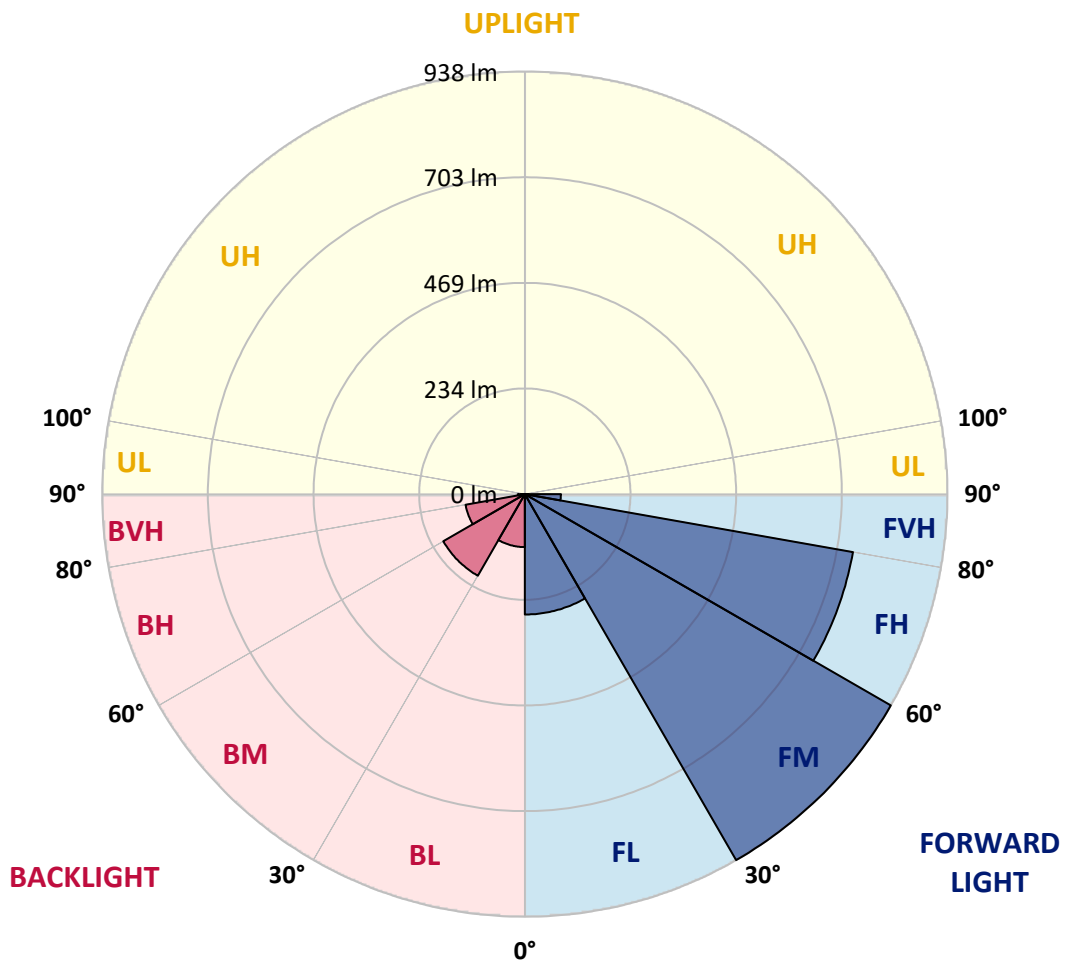
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	267.1	10.7			
FM (30°-60°)	937.9	37.5			
FH (60°-80°)	739.5	29.6			G1/1800
FVH (80°-90°)	80.1	3.2			G1/100
BL (0°-30°)	117.6	4.7	B1/500		
BM (30°-60°)	209.0	8.4	B0/220		
BH (60°-80°)	133.7	5.3	B1/500		G1/500
BVH (80°-90°)	15.6	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°	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6
2.5°	855.2	851.9	855.2	867.4	870.7	876.3	876.3	868.5	854.1	847.4	836.4
5°	874.1	868.5	896.2	921.8	941.7	939.5	920.7	905.1	876.3	833.0	792.0
7.5°	836.4	841.9	861.9	928.4	975.0	983.9	953.9	922.9	860.8	800.9	745.4
10°	765.4	773.1	816.4	885.2	958.4	972.8	953.9	916.2	841.9	767.6	703.2
12.5°	731.0	748.7	774.2	857.4	909.6	943.9	935.1	910.7	827.5	739.8	677.7
15°	731.0	735.4	773.1	843.0	873.0	874.1	877.4	881.8	831.9	752.1	668.9
17.5°	754.3	766.5	798.6	841.9	847.4	834.1	834.1	853.0	840.8	786.4	701.0
20°	810.8	806.4	848.6	866.3	836.4	803.1	799.7	831.9	850.8	823.0	759.8
22.5°	867.4	887.4	921.8	881.8	826.4	782.0	777.6	817.5	880.7	886.3	827.5
25°	952.8	972.8	990.5	941.7	825.3	776.5	779.8	810.8	917.3	976.1	940.6
27.5°	1044.9	1057.1	1082.6	1007.2	851.9	769.8	773.1	819.7	951.7	1034.9	1029.4
30°	1097.0	1110.3	1104.8	1019.4	869.6	774.2	765.4	831.9	932.9	1034.9	1087.0
32.5°	1148.0	1140.3	1136.9	1039.3	891.8	802.0	779.8	857.4	943.9	1051.5	1161.4
35°	1210.2	1199.1	1190.2	1078.2	928.4	828.6	818.6	890.7	968.3	1085.9	1221.2
37.5°	1278.9	1278.9	1235.7	1107.0	971.7	871.8	860.8	938.4	1007.2	1107.0	1303.3
40°	1359.9	1363.2	1286.7	1145.8	1020.5	940.6	937.3	1000.5	1044.9	1138.1	1382.1
42.5°	1419.8	1422.0	1331.1	1160.2	1077.1	1036.0	1050.4	1100.3	1088.1	1165.8	1387.6
45°	1460.8	1449.7	1362.1	1201.3	1139.2	1179.1	1183.5	1198.0	1144.7	1182.4	1409.8
47.5°	1480.8	1478.6	1375.4	1249.0	1270.1	1324.4	1349.9	1330.0	1196.8	1164.7	1409.8
50°	1500.8	1481.9	1387.6	1314.4	1397.6	1507.4	1501.9	1465.3	1268.9	1186.9	1388.7
52.5°	1514.1	1497.4	1412.0	1373.2	1519.6	1643.9	1666.0	1598.4	1353.2	1227.9	1398.7
55°	1561.8	1548.5	1485.2	1453.1	1660.5	1788.1	1791.4	1697.1	1442.0	1295.6	1464.2
57.5°	1619.5	1627.2	1586.2	1566.2	1768.1	1893.4	1881.2	1770.3	1517.4	1377.6	1539.6
60°	1660.5	1672.7	1662.7	1664.9	1821.3	1928.9	1901.2	1815.8	1572.9	1439.8	1631.7
62.5°	1638.3	1662.7	1703.8	1694.9	1823.6	1903.4	1864.6	1755.9	1579.5	1520.7	1701.5
65°	1577.3	1579.5	1659.4	1708.2	1723.7	1771.4	1720.4	1630.6	1510.8	1570.7	1691.6
67.5°	1420.9	1438.7	1510.8	1606.1	1540.7	1551.8	1547.4	1417.6	1406.5	1536.3	1615.0
70°	1254.5	1266.7	1345.5	1457.5	1301.1	1249.0	1259.0	1162.5	1207.9	1429.8	1460.8
72.5°	1037.1	1044.9	1134.7	1233.5	1043.8	950.6	973.9	895.1	959.5	1251.2	1232.3
75°	783.1	797.5	867.4	983.9	768.7	708.8	732.1	699.9	759.8	1030.5	956.1
77.5°	556.8	545.7	632.3	769.8	577.9	542.4	544.6	550.2	614.5	868.5	686.6
80°	379.4	382.7	460.3	564.6	453.7	448.1	442.6	486.9	515.8	687.7	499.1
82.5°	225.2	225.2	310.6	401.5	358.3	403.8	378.2	418.2	403.8	505.8	327.2
85°	105.4	105.4	159.7	289.5	277.3	332.8	282.9	316.1	298.4	352.7	147.5
87.5°	17.7	15.5	32.2	142.0	114.2	129.8	51.0	168.6	187.5	246.2	36.6
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°	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6
2.5°	824.1	816.4	800.9	780.9	764.3	743.2	736.5	722.1	702.1	699.9	691.0
5°	776.5	749.8	716.6	675.5	647.8	618.9	594.5	580.1	563.5	561.3	556.8
7.5°	724.3	691.0	635.6	586.8	539.1	493.6	471.4	443.7	424.8	410.4	403.8
10°	675.5	644.5	575.7	509.1	467.0	437.0	410.4	381.6	358.3	340.5	333.9
12.5°	643.3	606.7	532.4	469.2	438.1	403.8	373.8	342.7	312.8	289.5	277.3
15°	628.9	594.5	519.1	449.2	403.8	356.1	321.7	290.6	254.0	237.4	231.8
17.5°	663.3	612.3	514.7	425.9	361.6	307.3	265.1	231.8	205.2	188.6	181.9
20°	707.7	644.5	522.4	398.2	321.7	260.7	214.1	178.6	160.8	148.6	147.5
22.5°	764.3	692.2	534.6	378.2	277.3	209.6	167.5	146.4	134.2	133.1	130.9
25°	865.2	778.7	554.6	351.6	241.8	173.0	143.1	130.9	125.3	122.0	124.2
27.5°	951.7	835.2	569.0	335.0	227.4	163.1	138.7	125.3	119.8	118.7	119.8
30°	1002.7	887.4	564.6	303.9	198.6	155.3	147.5	143.1	132.0	123.1	123.1
32.5°	1049.3	920.7	563.5	276.2	169.7	129.8	123.1	119.8	126.5	130.9	127.6
35°	1113.7	972.8	560.2	260.7	157.5	119.8	108.7	99.8	95.4	93.2	96.5
37.5°	1182.4	1008.3	551.3	258.4	150.9	114.2	105.4	96.5	92.1	89.8	88.7
40°	1257.9	1046.0	541.3	247.4	147.5	110.9	102.0	94.3	88.7	85.4	84.3
42.5°	1306.7	1075.9	531.3	241.8	140.9	108.7	98.7	92.1	86.5	82.1	82.1
45°	1334.4	1111.4	521.3	236.3	133.1	109.8	98.7	89.8	83.2	81.0	78.8
47.5°	1346.6	1138.1	518.0	227.4	126.5	105.4	96.5	87.6	81.0	76.5	75.4
50°	1378.8	1194.6	530.2	220.7	118.7	100.9	102.0	86.5	79.9	74.3	73.2
52.5°	1397.6	1240.1	556.8	210.8	113.1	95.4	99.8	84.3	76.5	71.0	71.0
55°	1466.4	1315.5	585.7	203.0	106.5	87.6	92.1	79.9	71.0	67.7	67.7
57.5°	1554.0	1395.4	610.1	199.7	102.0	82.1	82.1	77.6	67.7	63.2	62.1
60°	1615.0	1460.8	624.5	197.4	97.6	76.5	73.2	77.6	64.3	59.9	58.8
62.5°	1621.7	1423.1	610.1	196.3	96.5	71.0	66.6	74.3	61.0	56.6	54.4
65°	1579.5	1346.6	570.1	191.9	95.4	65.4	62.1	64.3	56.6	53.2	51.0
67.5°	1495.2	1222.4	512.5	189.7	94.3	61.0	56.6	55.5	52.1	48.8	46.6
70°	1298.9	1060.4	444.8	179.7	92.1	57.7	51.0	49.9	46.6	44.4	43.3
72.5°	1090.4	867.4	367.2	166.4	87.6	52.1	46.6	44.4	43.3	39.9	38.8
75°	835.2	667.7	293.9	147.5	76.5	46.6	41.0	38.8	37.7	35.5	34.4
77.5°	586.8	496.9	217.4	119.8	64.3	42.2	36.6	34.4	33.3	29.9	29.9
80°	398.2	348.3	147.5	83.2	49.9	34.4	32.2	29.9	27.7	25.5	25.5
82.5°	247.4	244.0	106.5	54.4	36.6	27.7	25.5	25.5	22.2	20.0	20.0
85°	113.1	149.7	74.3	37.7	27.7	21.1	21.1	20.0	17.7	14.4	14.4
87.5°	35.5	49.9	38.8	16.6	15.5	12.2	12.2	11.1	11.1	8.9	8.9
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°	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6
2.5°	699.9	698.8	698.8	694.4	705.5	705.5	712.1	706.6	709.9	711.0	719.9
5°	555.7	564.6	571.2	584.6	592.3	595.7	595.7	604.5	601.2	607.9	621.2
7.5°	407.1	418.2	438.1	454.8	468.1	472.5	471.4	473.6	477.0	469.2	471.4
10°	329.4	321.7	328.3	343.9	356.1	370.5	359.4	358.3	361.6	358.3	364.9
12.5°	275.1	266.2	260.7	260.7	269.5	276.2	272.9	278.4	290.6	293.9	301.7
15°	223.0	215.2	210.8	205.2	214.1	216.3	219.6	227.4	236.3	240.7	249.6
17.5°	178.6	178.6	178.6	174.1	177.5	180.8	181.9	191.9	193.0	197.4	200.8
20°	146.4	149.7	155.3	157.5	160.8	160.8	158.6	164.2	159.7	163.1	165.3
22.5°	132.0	136.4	138.7	139.8	144.2	145.3	139.8	140.9	142.0	138.7	139.8
25°	124.2	126.5	124.2	125.3	126.5	124.2	125.3	127.6	126.5	128.7	127.6
27.5°	120.9	118.7	117.6	116.5	116.5	114.2	115.4	115.4	117.6	118.7	118.7
30°	120.9	117.6	113.1	109.8	109.8	106.5	108.7	110.9	112.0	114.2	114.2
32.5°	124.2	117.6	109.8	106.5	103.2	100.9	103.2	106.5	110.9	112.0	113.1
35°	98.7	102.0	100.9	96.5	95.4	95.4	94.3	94.3	91.0	91.0	89.8
37.5°	88.7	87.6	89.8	91.0	92.1	88.7	88.7	84.3	83.2	84.3	84.3
40°	83.2	83.2	83.2	86.5	87.6	85.4	82.1	79.9	79.9	79.9	81.0
42.5°	81.0	78.8	77.6	79.9	83.2	81.0	77.6	76.5	76.5	77.6	77.6
45°	77.6	76.5	75.4	74.3	78.8	75.4	74.3	73.2	73.2	73.2	74.3
47.5°	74.3	73.2	71.0	71.0	72.1	71.0	69.9	69.9	69.9	72.1	72.1
50°	72.1	71.0	68.8	68.8	68.8	68.8	67.7	67.7	67.7	68.8	69.9
52.5°	68.8	67.7	66.6	65.4	65.4	65.4	65.4	65.4	65.4	66.6	67.7
55°	65.4	64.3	63.2	63.2	64.3	64.3	63.2	64.3	63.2	64.3	65.4
57.5°	62.1	61.0	59.9	61.0	62.1	61.0	61.0	61.0	61.0	61.0	62.1
60°	57.7	57.7	57.7	57.7	59.9	59.9	59.9	59.9	57.7	58.8	59.9
62.5°	55.5	54.4	54.4	55.5	56.6	56.6	57.7	56.6	55.5	56.6	56.6
65°	51.0	51.0	51.0	52.1	52.1	53.2	53.2	53.2	52.1	53.2	53.2
67.5°	47.7	47.7	47.7	47.7	49.9	49.9	49.9	49.9	48.8	48.8	49.9
70°	42.2	43.3	42.2	44.4	46.6	45.5	46.6	46.6	45.5	44.4	46.6
72.5°	38.8	38.8	38.8	38.8	42.2	42.2	42.2	43.3	42.2	41.0	42.2
75°	34.4	34.4	34.4	35.5	37.7	37.7	37.7	37.7	37.7	36.6	36.6
77.5°	29.9	31.1	29.9	31.1	33.3	32.2	33.3	34.4	33.3	32.2	32.2
80°	25.5	25.5	25.5	26.6	27.7	27.7	27.7	28.8	27.7	26.6	26.6
82.5°	20.0	20.0	21.1	21.1	22.2	22.2	22.2	23.3	22.2	21.1	21.1
85°	15.5	15.5	15.5	16.6	16.6	17.7	17.7	18.9	18.9	17.7	17.7
87.5°	10.0	8.9	10.0	10.0	11.1	11.1	10.0	8.9	10.0	8.9	7.8
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6	798.6
2.5°	728.8	748.7	763.1	773.1	787.5	815.3	826.4	846.3	851.9	855.2
5°	626.7	647.8	678.8	701.0	726.5	778.7	818.6	848.6	861.9	874.1
7.5°	491.4	519.1	551.3	580.1	622.3	686.6	738.7	800.9	824.1	836.4
10°	383.8	409.3	444.8	480.3	539.1	593.4	667.7	724.3	756.5	765.4
12.5°	323.9	353.8	396.0	439.3	475.9	538.0	613.4	695.5	725.4	731.0
15°	275.1	316.1	359.4	403.8	445.9	500.3	581.2	681.1	725.4	731.0
17.5°	227.4	264.0	315.0	362.7	411.5	485.8	586.8	693.3	737.6	754.3
20°	180.8	216.3	256.2	316.1	382.7	461.4	599.0	734.3	793.1	810.8
22.5°	149.7	165.3	204.1	261.8	340.5	444.8	611.2	798.6	860.8	867.4
25°	130.9	142.0	166.4	220.7	307.3	433.7	640.0	873.0	952.8	952.8
27.5°	122.0	126.5	143.1	191.9	284.0	423.7	668.9	955.0	1029.4	1044.9
30°	119.8	130.9	139.8	170.8	258.4	396.0	695.5	1019.4	1095.9	1097.0
32.5°	117.6	115.4	122.0	148.6	227.4	367.2	717.7	1084.8	1144.7	1148.0
35°	92.1	96.5	107.6	130.9	204.1	346.1	728.8	1120.3	1206.8	1210.2
37.5°	86.5	92.1	100.9	120.9	188.6	328.3	732.1	1189.1	1272.3	1278.9
40°	84.3	88.7	95.4	112.0	176.4	306.1	738.7	1260.1	1368.8	1359.9
42.5°	79.9	85.4	92.1	107.6	166.4	289.5	739.8	1298.9	1419.8	1419.8
45°	78.8	82.1	89.8	107.6	155.3	275.1	722.1	1337.7	1478.6	1460.8
47.5°	74.3	81.0	87.6	104.3	142.0	260.7	701.0	1357.7	1486.4	1480.8
50°	73.2	79.9	91.0	98.7	134.2	254.0	696.6	1407.6	1501.9	1500.8
52.5°	71.0	77.6	94.3	94.3	124.2	245.1	717.7	1429.8	1505.2	1514.1
55°	67.7	77.6	87.6	86.5	115.4	234.0	741.0	1487.5	1564.0	1561.8
57.5°	65.4	75.4	83.2	78.8	105.4	226.3	775.3	1542.9	1635.0	1619.5
60°	62.1	75.4	74.3	73.2	97.6	219.6	804.2	1554.0	1650.5	1660.5
62.5°	59.9	78.8	65.4	67.7	91.0	216.3	792.0	1470.8	1629.4	1638.3
65°	57.7	67.7	59.9	62.1	88.7	209.6	744.3	1371.0	1538.5	1577.3
67.5°	53.2	55.5	55.5	57.7	86.5	194.1	646.7	1191.3	1399.8	1420.9
70°	48.8	49.9	49.9	53.2	84.3	176.4	533.5	1030.5	1214.6	1254.5
72.5°	44.4	44.4	44.4	48.8	77.6	161.9	439.3	792.0	1009.4	1037.1
75°	38.8	38.8	38.8	43.3	69.9	147.5	346.1	589.0	743.2	783.1
77.5°	34.4	34.4	33.3	38.8	61.0	119.8	249.6	416.0	523.6	556.8
80°	28.8	27.7	27.7	31.1	47.7	86.5	160.8	293.9	364.9	379.4
82.5°	23.3	22.2	21.1	23.3	34.4	54.4	99.8	205.2	234.0	225.2
85°	22.2	23.3	18.9	17.7	24.4	35.5	63.2	126.5	105.4	105.4
87.5°	8.9	7.8	7.8	6.7	12.2	13.3	27.7	23.3	17.7	17.7
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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