

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: P675843

Luminaire Tested: **CCW-SA-1B-740-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675843  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-740-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SLL distribution lens  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

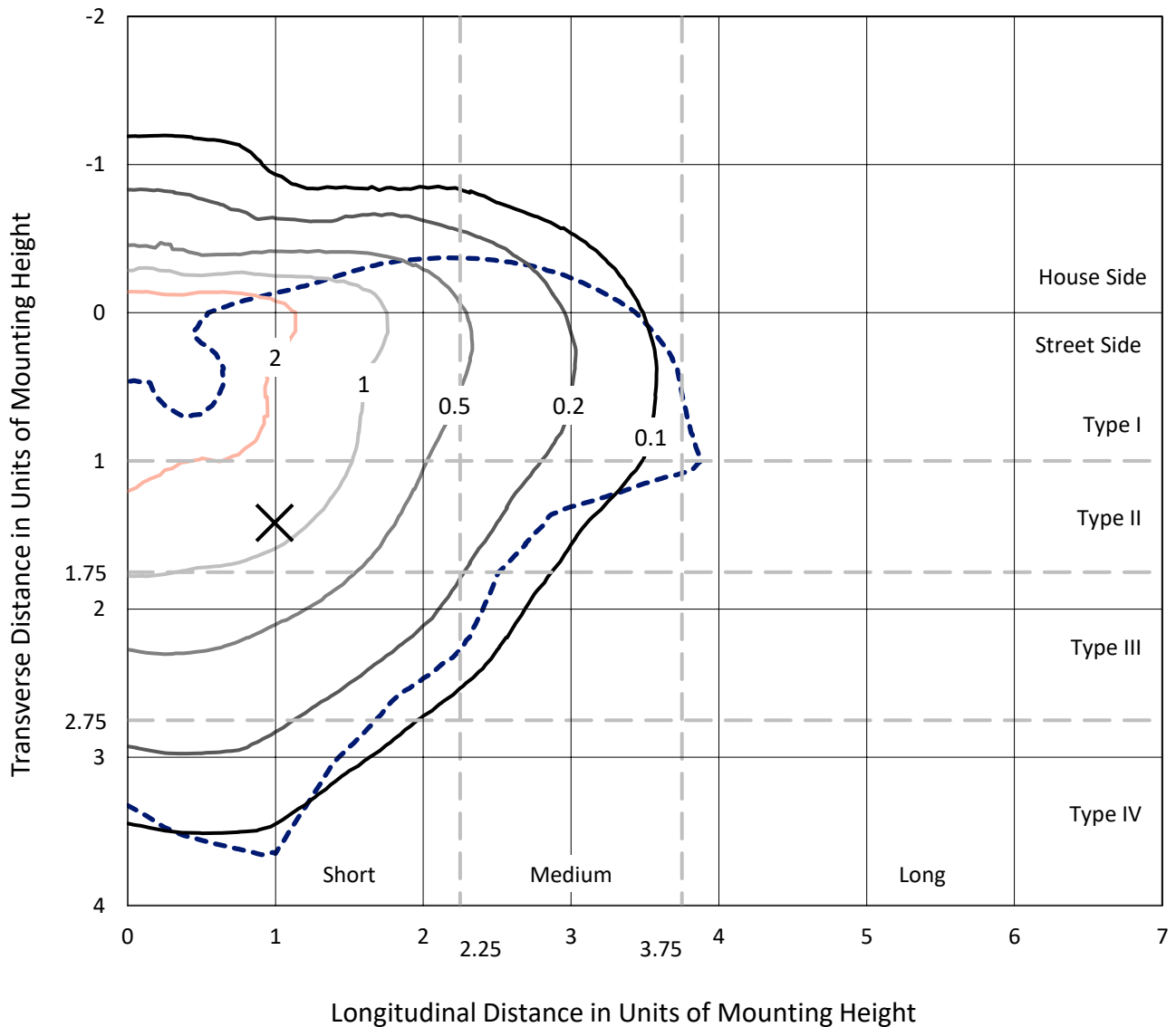
Lumens per Lamp: N/A  
Luminaire Lumens: 2865.5 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

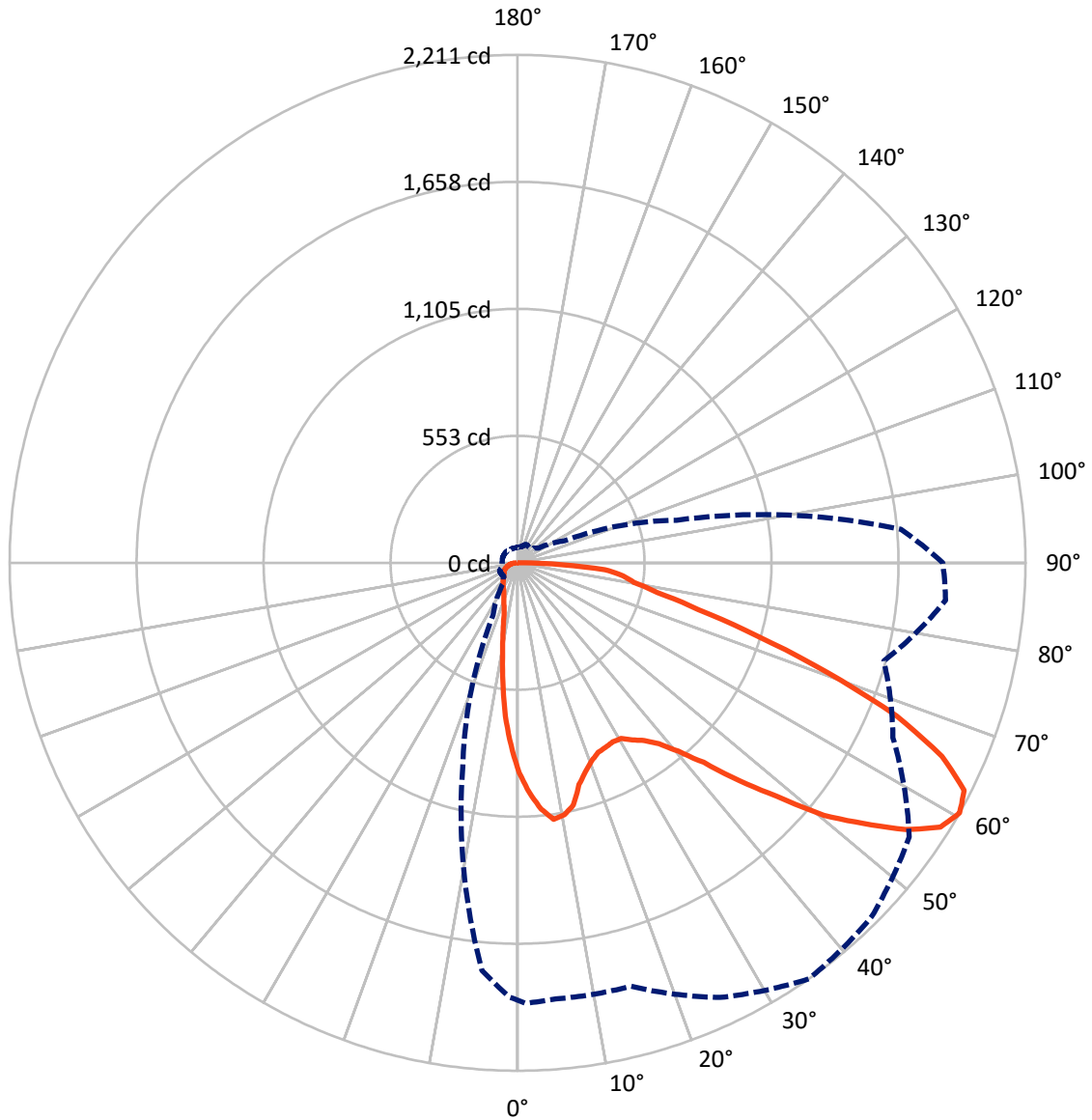
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 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	545.3	0.0	545.3
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	2320.2	0.0	2320.2
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	2865.5	0.0	2865.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.1	2.5
10°-20°	150.1	5.2
20°-30°	219.6	7.7
30°-40°	309.5	10.8
40°-50°	425.3	14.8
50°-60°	579.6	20.2
60°-70°	634.4	22.1
70°-80°	366.2	12.8
80°-90°	109.7	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°	2865.5	100.0
0°-180°	2865.5	100.0

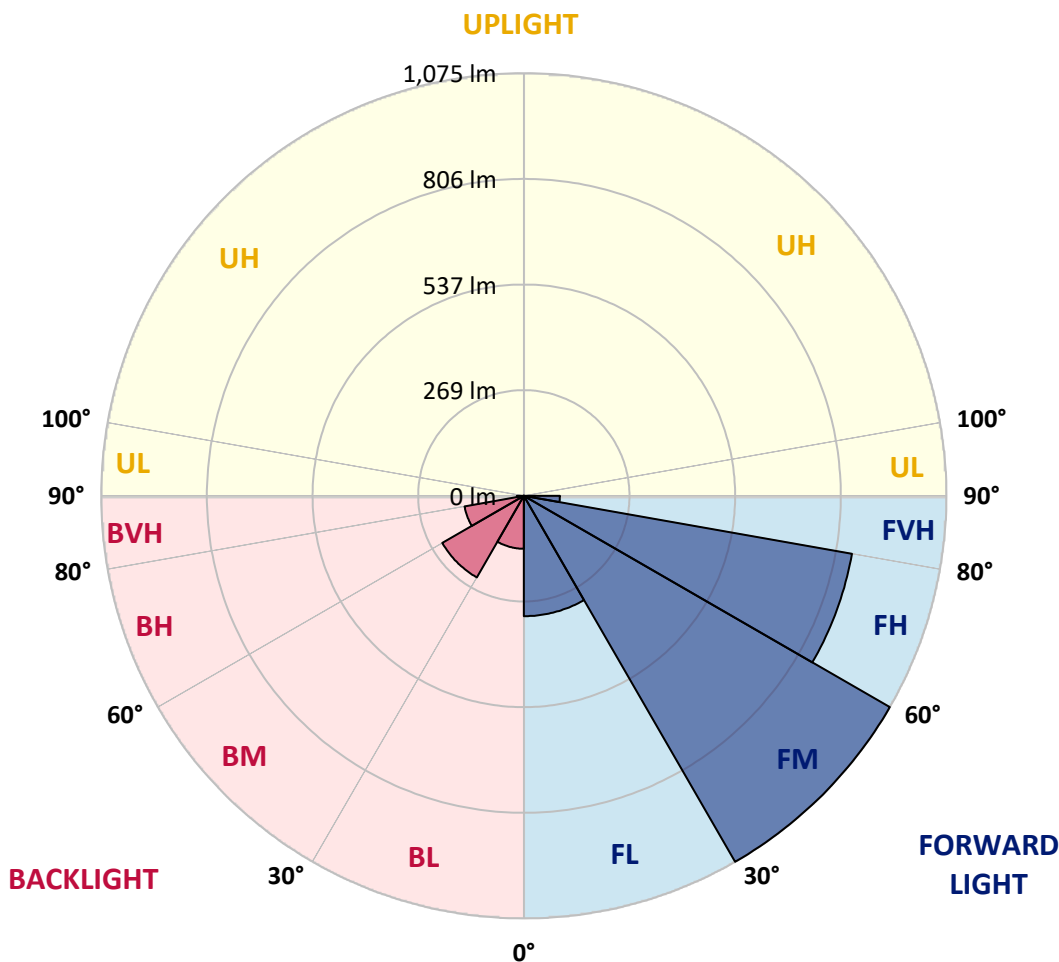


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	306.1	10.7			
FM (30°-60°)	1074.8	37.5			
FH (60°-80°)	847.4	29.6			G1/1800
FVH (80°-90°)	91.8	3.2			G1/100
BL (0°-30°)	134.7	4.7	B1/500		
BM (30°-60°)	239.6	8.4	B1/1000		
BH (60°-80°)	153.2	5.3	B1/500		G1/500
BVH (80°-90°)	17.9	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°	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2
2.5°	980.1	976.3	980.1	994.1	997.9	1004.2	1004.2	995.3	978.8	971.2	958.5
5°	1001.7	995.3	1027.1	1056.3	1079.2	1076.7	1055.1	1037.3	1004.2	954.6	907.6
7.5°	958.5	964.8	987.7	1064.0	1117.4	1127.5	1093.2	1057.6	986.4	917.8	854.2
10°	877.1	886.0	935.6	1014.4	1098.3	1114.8	1093.2	1050.0	964.8	879.6	805.9
12.5°	837.7	858.0	887.3	982.6	1042.4	1081.8	1071.6	1043.6	948.3	847.9	776.7
15°	837.7	842.8	886.0	966.1	1000.4	1001.7	1005.5	1010.6	953.4	861.9	766.5
17.5°	864.4	878.4	915.2	964.8	971.2	955.9	955.9	977.5	963.5	901.3	803.4
20°	929.2	924.1	972.4	992.8	958.5	920.3	916.5	953.4	975.0	943.2	870.7
22.5°	994.1	1016.9	1056.3	1010.6	947.0	896.2	891.1	936.8	1009.3	1015.7	948.3
25°	1091.9	1114.8	1135.2	1079.2	945.7	889.8	893.6	929.2	1051.3	1118.6	1077.9
27.5°	1197.4	1211.4	1240.7	1154.2	976.3	882.2	886.0	939.4	1090.7	1186.0	1179.6
30°	1257.2	1272.4	1266.1	1168.2	996.6	887.3	877.1	953.4	1069.0	1186.0	1245.7
32.5°	1315.7	1306.8	1302.9	1191.1	1022.0	919.1	893.6	982.6	1081.8	1205.1	1330.9
35°	1386.8	1374.1	1364.0	1235.6	1064.0	949.6	938.1	1020.7	1109.7	1244.5	1399.6
37.5°	1465.7	1465.7	1416.1	1268.6	1113.5	999.1	986.4	1075.4	1154.2	1268.6	1493.6
40°	1558.4	1562.3	1474.6	1313.1	1169.5	1077.9	1074.1	1146.6	1197.4	1304.2	1583.9
42.5°	1627.1	1629.6	1525.4	1329.6	1234.3	1187.3	1203.8	1261.0	1247.0	1336.0	1590.2
45°	1674.1	1661.4	1561.0	1376.7	1305.5	1351.2	1356.3	1372.9	1311.8	1355.1	1615.7
47.5°	1697.0	1694.5	1576.2	1431.3	1455.5	1517.8	1547.0	1524.1	1371.6	1334.7	1615.7
50°	1719.9	1698.3	1590.2	1506.3	1601.7	1727.5	1721.2	1679.2	1454.2	1360.1	1591.5
52.5°	1735.1	1716.1	1618.2	1573.7	1741.5	1883.9	1909.3	1831.7	1550.8	1407.2	1602.9
55°	1789.8	1774.5	1702.1	1665.2	1902.9	2049.1	2052.9	1944.9	1652.5	1484.7	1677.9
57.5°	1855.9	1864.8	1817.8	1794.9	2026.2	2169.9	2155.9	2028.8	1739.0	1578.8	1764.4
60°	1902.9	1916.9	1905.5	1908.0	2087.3	2210.6	2178.8	2080.9	1802.5	1650.0	1869.9
62.5°	1877.5	1905.5	1952.5	1942.3	2089.8	2181.3	2136.8	2012.3	1810.1	1742.8	1950.0
65°	1807.6	1810.1	1901.7	1957.6	1975.4	2030.1	1971.6	1868.6	1731.3	1800.0	1938.5
67.5°	1628.4	1648.7	1731.3	1840.6	1765.6	1778.4	1773.3	1624.5	1611.8	1760.6	1850.8
70°	1437.7	1451.7	1541.9	1670.3	1491.1	1431.3	1442.8	1332.2	1384.3	1638.5	1674.1
72.5°	1188.5	1197.4	1300.4	1413.5	1196.2	1089.4	1116.1	1025.8	1099.6	1433.9	1412.3
75°	897.4	914.0	994.1	1127.5	880.9	812.3	839.0	802.1	870.7	1180.9	1095.7
77.5°	638.1	625.4	724.6	882.2	662.3	621.6	624.1	630.5	704.2	995.3	786.9
80°	434.7	438.6	527.5	647.0	519.9	513.6	507.2	558.0	591.1	788.1	572.0
82.5°	258.0	258.0	355.9	460.2	410.6	462.7	433.5	479.2	462.7	579.7	375.0
85°	120.8	120.8	183.0	331.8	317.8	381.3	324.1	362.3	341.9	404.2	169.1
87.5°	20.3	17.8	36.9	162.7	130.9	148.7	58.5	193.2	214.8	282.2	41.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2
2.5°	944.5	935.6	917.8	894.9	875.8	851.7	844.1	827.5	804.6	802.1	791.9
5°	889.8	859.3	821.2	774.1	742.4	709.3	681.3	664.8	645.8	643.2	638.1
7.5°	830.1	791.9	728.4	672.4	617.8	565.7	540.2	508.5	486.9	470.3	462.7
10°	774.1	738.5	659.7	583.5	535.2	500.8	470.3	437.3	410.6	390.2	382.6
12.5°	737.3	695.3	610.2	537.7	502.1	462.7	428.4	392.8	358.5	331.8	317.8
15°	720.8	681.3	594.9	514.8	462.7	408.0	368.6	333.0	291.1	272.0	265.7
17.5°	760.2	701.7	589.8	488.1	414.4	352.1	303.8	265.7	235.2	216.1	208.5
20°	811.0	738.5	598.7	456.3	368.6	298.7	245.3	204.7	184.3	170.3	169.1
22.5°	875.8	793.2	612.7	433.5	317.8	240.3	191.9	167.8	153.8	152.5	150.0
25°	991.5	892.4	635.6	403.0	277.1	198.3	164.0	150.0	143.6	139.8	142.4
27.5°	1090.7	957.2	652.1	383.9	260.6	186.9	158.9	143.6	137.3	136.0	137.3
30°	1149.1	1016.9	647.0	348.3	227.5	178.0	169.1	164.0	151.3	141.1	141.1
32.5°	1202.5	1055.1	645.8	316.5	194.5	148.7	141.1	137.3	144.9	150.0	146.2
35°	1276.2	1114.8	641.9	298.7	180.5	137.3	124.6	114.4	109.3	106.8	110.6
37.5°	1355.1	1155.5	631.8	296.2	172.9	130.9	120.8	110.6	105.5	103.0	101.7
40°	1441.5	1198.7	620.3	283.5	169.1	127.1	116.9	108.0	101.7	97.9	96.6
42.5°	1497.4	1233.0	608.9	277.1	161.4	124.6	113.1	105.5	99.2	94.1	94.1
45°	1529.2	1273.7	597.4	270.8	152.5	125.8	113.1	103.0	95.3	92.8	90.3
47.5°	1543.2	1304.2	593.6	260.6	144.9	120.8	110.6	100.4	92.8	87.7	86.4
50°	1580.1	1369.0	607.6	253.0	136.0	115.7	116.9	99.2	91.5	85.2	83.9
52.5°	1601.7	1421.2	638.1	241.5	129.7	109.3	114.4	96.6	87.7	81.4	81.4
55°	1680.5	1507.6	671.2	232.6	122.0	100.4	105.5	91.5	81.4	77.5	77.5
57.5°	1780.9	1599.1	699.1	228.8	116.9	94.1	94.1	89.0	77.5	72.5	71.2
60°	1850.8	1674.1	715.7	226.3	111.9	87.7	83.9	89.0	73.7	68.6	67.4
62.5°	1858.4	1630.9	699.1	225.0	110.6	81.4	76.3	85.2	69.9	64.8	62.3
65°	1810.1	1543.2	653.4	219.9	109.3	75.0	71.2	73.7	64.8	61.0	58.5
67.5°	1713.5	1400.8	587.3	217.4	108.0	69.9	64.8	63.6	59.7	55.9	53.4
70°	1488.5	1215.2	509.7	205.9	105.5	66.1	58.5	57.2	53.4	50.8	49.6
72.5°	1249.6	994.1	420.8	190.7	100.4	59.7	53.4	50.8	49.6	45.8	44.5
75°	957.2	765.2	336.9	169.1	87.7	53.4	47.0	44.5	43.2	40.7	39.4
77.5°	672.4	569.5	249.1	137.3	73.7	48.3	41.9	39.4	38.1	34.3	34.3
80°	456.3	399.1	169.1	95.3	57.2	39.4	36.9	34.3	31.8	29.2	29.2
82.5°	283.5	279.7	122.0	62.3	41.9	31.8	29.2	29.2	25.4	22.9	22.9
85°	129.7	171.6	85.2	43.2	31.8	24.2	24.2	22.9	20.3	16.5	16.5
87.5°	40.7	57.2	44.5	19.1	17.8	14.0	14.0	12.7	12.7	10.2	10.2
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°	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2
2.5°	802.1	800.8	800.8	795.7	808.5	808.5	816.1	809.7	813.5	814.8	825.0
5°	636.9	647.0	654.7	669.9	678.8	682.6	682.6	692.8	689.0	696.6	711.9
7.5°	466.5	479.2	502.1	521.2	536.4	541.5	540.2	542.8	546.6	537.7	540.2
10°	377.5	368.6	376.3	394.1	408.0	424.6	411.9	410.6	414.4	410.6	418.2
12.5°	315.2	305.1	298.7	298.7	308.9	316.5	312.7	319.1	333.0	336.9	345.8
15°	255.5	246.6	241.5	235.2	245.3	247.9	251.7	260.6	270.8	275.8	286.0
17.5°	204.7	204.7	204.7	199.6	203.4	207.2	208.5	219.9	221.2	226.3	230.1
20°	167.8	171.6	178.0	180.5	184.3	184.3	181.8	188.1	183.0	186.9	189.4
22.5°	151.3	156.4	158.9	160.2	165.3	166.5	160.2	161.4	162.7	158.9	160.2
25°	142.4	144.9	142.4	143.6	144.9	142.4	143.6	146.2	144.9	147.5	146.2
27.5°	138.6	136.0	134.7	133.5	133.5	130.9	132.2	132.2	134.7	136.0	136.0
30°	138.6	134.7	129.7	125.8	125.8	122.0	124.6	127.1	128.4	130.9	130.9
32.5°	142.4	134.7	125.8	122.0	118.2	115.7	118.2	122.0	127.1	128.4	129.7
35°	113.1	116.9	115.7	110.6	109.3	109.3	108.0	108.0	104.2	104.2	103.0
37.5°	101.7	100.4	103.0	104.2	105.5	101.7	101.7	96.6	95.3	96.6	96.6
40°	95.3	95.3	95.3	99.2	100.4	97.9	94.1	91.5	91.5	91.5	92.8
42.5°	92.8	90.3	89.0	91.5	95.3	92.8	89.0	87.7	87.7	89.0	89.0
45°	89.0	87.7	86.4	85.2	90.3	86.4	85.2	83.9	83.9	83.9	85.2
47.5°	85.2	83.9	81.4	81.4	82.6	81.4	80.1	80.1	80.1	82.6	82.6
50°	82.6	81.4	78.8	78.8	78.8	78.8	77.5	77.5	77.5	78.8	80.1
52.5°	78.8	77.5	76.3	75.0	75.0	75.0	75.0	75.0	75.0	76.3	77.5
55°	75.0	73.7	72.5	72.5	73.7	73.7	72.5	73.7	72.5	73.7	75.0
57.5°	71.2	69.9	68.6	69.9	71.2	69.9	69.9	69.9	69.9	69.9	71.2
60°	66.1	66.1	66.1	66.1	68.6	68.6	68.6	68.6	66.1	67.4	68.6
62.5°	63.6	62.3	62.3	63.6	64.8	64.8	66.1	64.8	63.6	64.8	64.8
65°	58.5	58.5	58.5	59.7	59.7	61.0	61.0	61.0	59.7	61.0	61.0
67.5°	54.7	54.7	54.7	54.7	57.2	57.2	57.2	57.2	55.9	55.9	57.2
70°	48.3	49.6	48.3	50.8	53.4	52.1	53.4	53.4	52.1	50.8	53.4
72.5°	44.5	44.5	44.5	44.5	48.3	48.3	48.3	49.6	48.3	47.0	48.3
75°	39.4	39.4	39.4	40.7	43.2	43.2	43.2	43.2	43.2	41.9	41.9
77.5°	34.3	35.6	34.3	35.6	38.1	36.9	38.1	39.4	38.1	36.9	36.9
80°	29.2	29.2	29.2	30.5	31.8	31.8	31.8	33.1	31.8	30.5	30.5
82.5°	22.9	22.9	24.2	24.2	25.4	25.4	25.4	26.7	25.4	24.2	24.2
85°	17.8	17.8	17.8	19.1	19.1	20.3	20.3	21.6	21.6	20.3	20.3
87.5°	11.4	10.2	11.4	11.4	12.7	12.7	11.4	10.2	11.4	10.2	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2
2.5°	835.2	858.0	874.6	886.0	902.5	934.3	947.0	969.9	976.3	980.1
5°	718.2	742.4	778.0	803.4	832.6	892.4	938.1	972.4	987.7	1001.7
7.5°	563.1	594.9	631.8	664.8	713.1	786.9	846.6	917.8	944.5	958.5
10°	439.8	469.1	509.7	550.4	617.8	680.1	765.2	830.1	866.9	877.1
12.5°	371.2	405.5	453.8	503.4	545.3	616.5	703.0	797.0	831.3	837.7
15°	315.2	362.3	411.9	462.7	511.0	573.3	666.1	780.5	831.3	837.7
17.5°	260.6	302.5	361.0	415.7	471.6	556.8	672.4	794.5	845.3	864.4
20°	207.2	247.9	293.6	362.3	438.6	528.8	686.4	841.5	908.9	929.2
22.5°	171.6	189.4	233.9	300.0	390.2	509.7	700.4	915.2	986.4	994.1
25°	150.0	162.7	190.7	253.0	352.1	497.0	733.5	1000.4	1091.9	1091.9
27.5°	139.8	144.9	164.0	219.9	325.4	485.6	766.5	1094.5	1179.6	1197.4
30°	137.3	150.0	160.2	195.8	296.2	453.8	797.0	1168.2	1255.9	1257.2
32.5°	134.7	132.2	139.8	170.3	260.6	420.8	822.4	1243.2	1311.8	1315.7
35°	105.5	110.6	123.3	150.0	233.9	396.6	835.2	1283.9	1383.0	1386.8
37.5°	99.2	105.5	115.7	138.6	216.1	376.3	839.0	1362.7	1458.0	1465.7
40°	96.6	101.7	109.3	128.4	202.1	350.8	846.6	1444.0	1568.6	1558.4
42.5°	91.5	97.9	105.5	123.3	190.7	331.8	847.9	1488.5	1627.1	1627.1
45°	90.3	94.1	103.0	123.3	178.0	315.2	827.5	1533.0	1694.5	1674.1
47.5°	85.2	92.8	100.4	119.5	162.7	298.7	803.4	1555.9	1703.4	1697.0
50°	83.9	91.5	104.2	113.1	153.8	291.1	798.3	1613.1	1721.2	1719.9
52.5°	81.4	89.0	108.0	108.0	142.4	280.9	822.4	1638.5	1725.0	1735.1
55°	77.5	89.0	100.4	99.2	132.2	268.2	849.1	1704.6	1792.3	1789.8
57.5°	75.0	86.4	95.3	90.3	120.8	259.3	888.5	1768.2	1873.7	1855.9
60°	71.2	86.4	85.2	83.9	111.9	251.7	921.6	1780.9	1891.5	1902.9
62.5°	68.6	90.3	75.0	77.5	104.2	247.9	907.6	1685.6	1867.3	1877.5
65°	66.1	77.5	68.6	71.2	101.7	240.3	853.0	1571.2	1763.1	1807.6
67.5°	61.0	63.6	63.6	66.1	99.2	222.5	741.1	1365.2	1604.2	1628.4
70°	55.9	57.2	57.2	61.0	96.6	202.1	611.4	1180.9	1391.9	1437.7
72.5°	50.8	50.8	50.8	55.9	89.0	185.6	503.4	907.6	1156.8	1188.5
75°	44.5	44.5	44.5	49.6	80.1	169.1	396.6	675.0	851.7	897.4
77.5°	39.4	39.4	38.1	44.5	69.9	137.3	286.0	476.7	600.0	638.1
80°	33.1	31.8	31.8	35.6	54.7	99.2	184.3	336.9	418.2	434.7
82.5°	26.7	25.4	24.2	26.7	39.4	62.3	114.4	235.2	268.2	258.0
85°	25.4	26.7	21.6	20.3	28.0	40.7	72.5	144.9	120.8	120.8
87.5°	10.2	8.9	8.9	7.6	14.0	15.3	31.8	26.7	20.3	20.3
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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