

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: P677354

Luminaire Tested: **CCW-SA-2A-840-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677354  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-840-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SLL distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

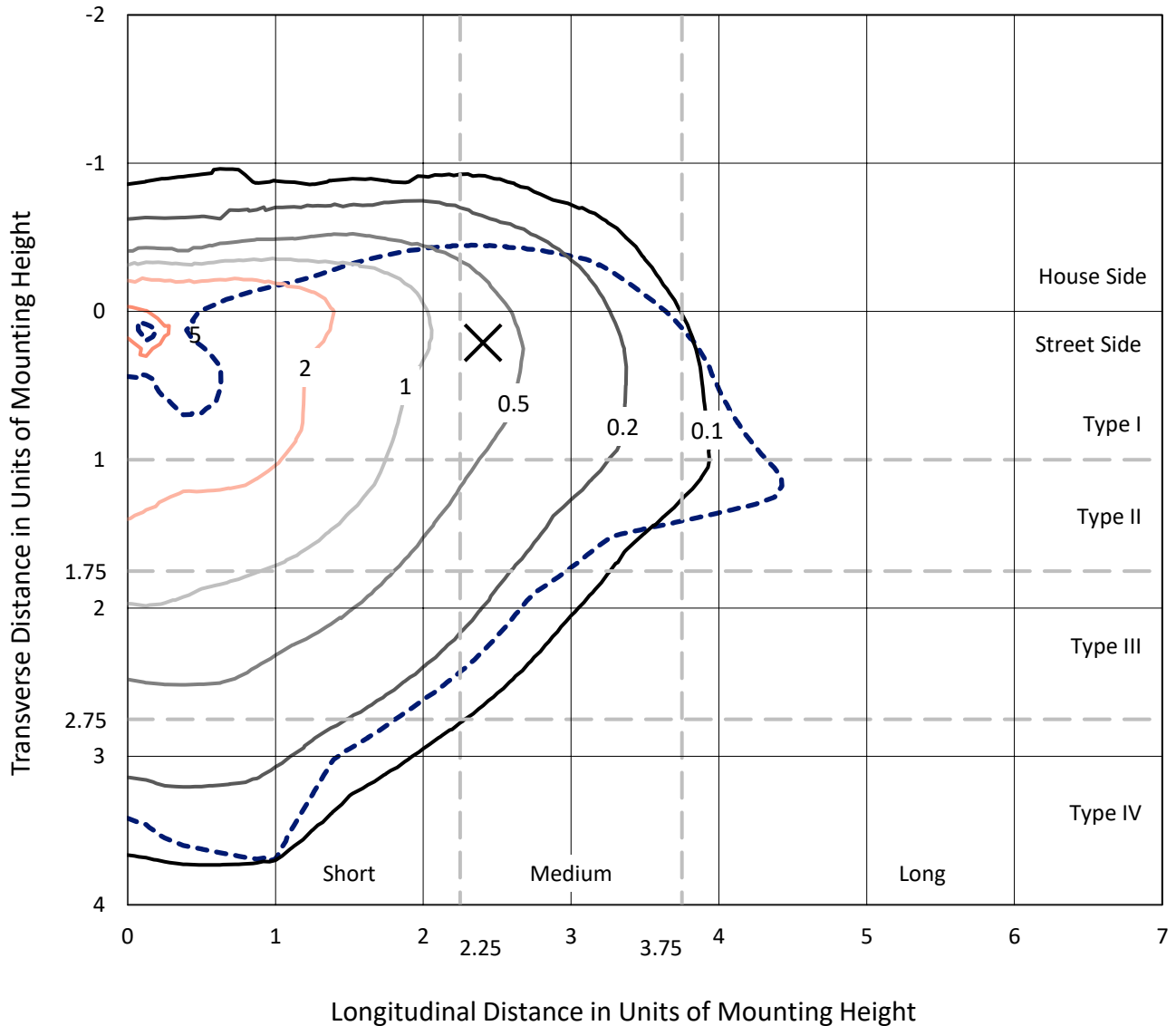
Lumens per Lamp: N/A  
Luminaire Lumens: 3384.7 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
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

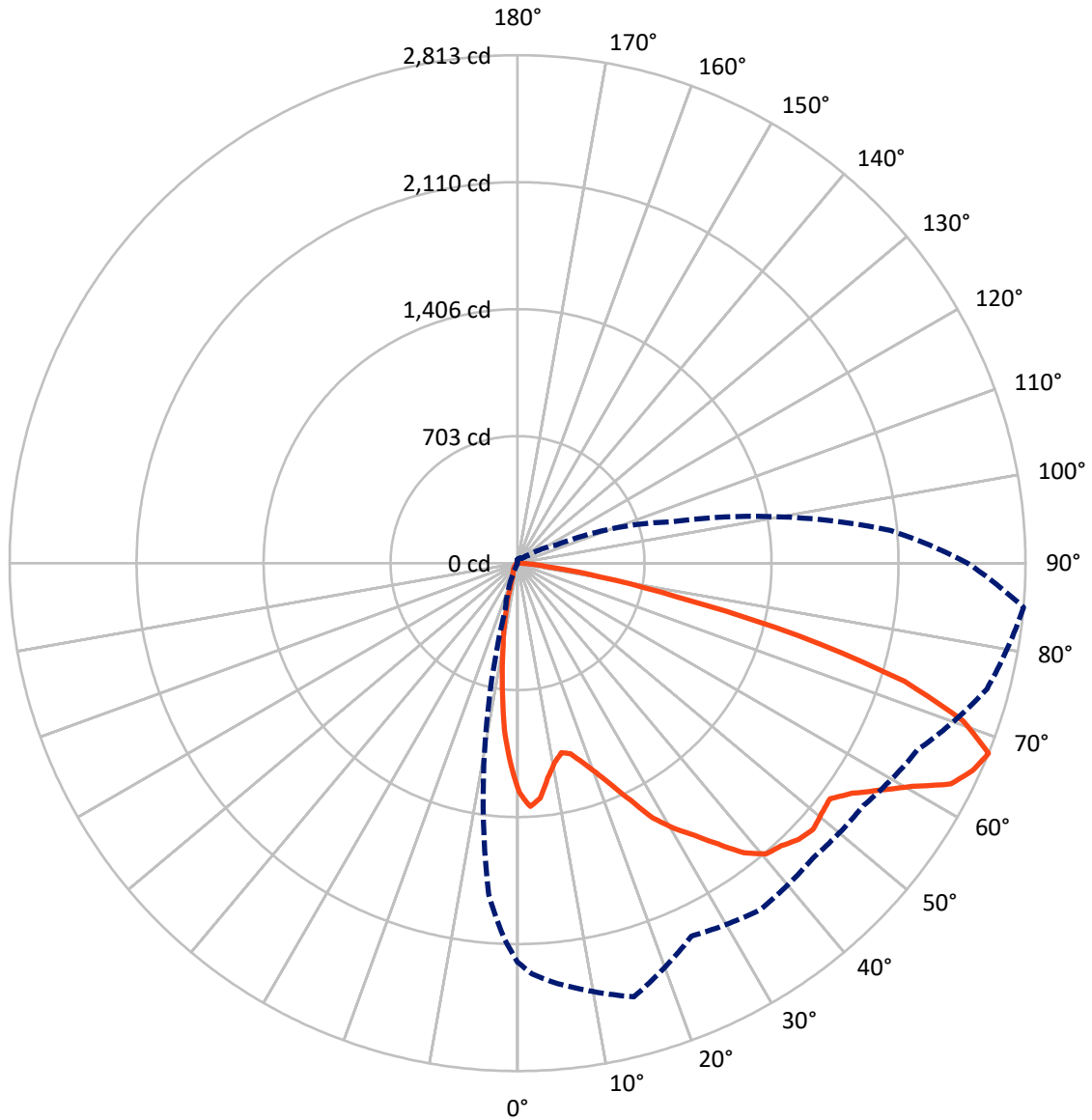
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	587.7	0.0	587.7
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	2797.0	0.0	2797.0
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	3384.7	0.0	3384.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	2.9
10°-20°	189.6	5.6
20°-30°	262.4	7.8
30°-40°	370.8	11.0
40°-50°	504.8	14.9
50°-60°	668.6	19.8
60°-70°	776.3	22.9
70°-80°	439.6	13.0
80°-90°	76.0	2.2
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°	3384.7	100.0
0°-180°	3384.7	100.0



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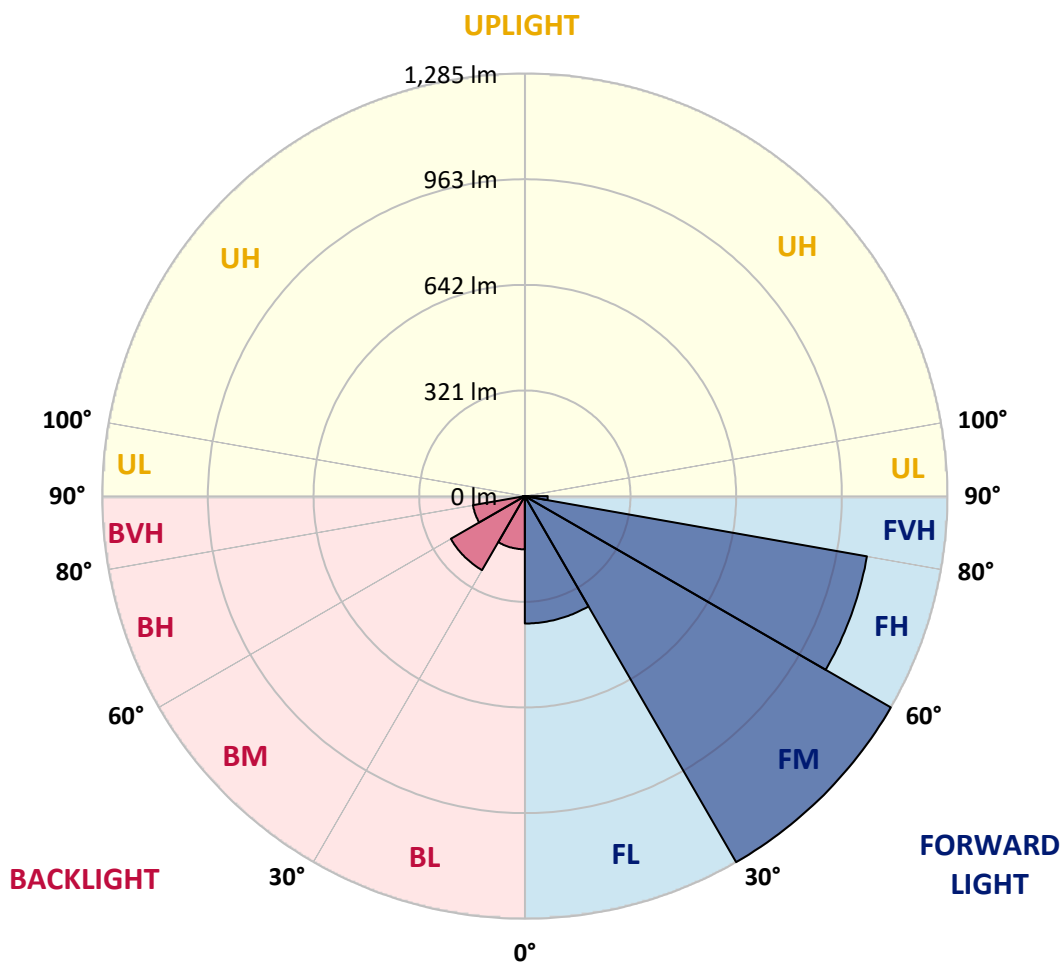
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.1	11.4			
FM (30°-60°)	1284.5	38.0			
FH (60°-80°)	1055.9	31.2			G1/1800
FVH (80°-90°)	69.6	2.1			G1/100
BL (0°-30°)	161.6	4.8	B1/500		
BM (30°-60°)	259.7	7.7	B1/1000		
BH (60°-80°)	160.1	4.7	B1/500		G1/500
BVH (80°-90°)	6.4	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6
2.5°	1322.3	1350.4	1351.3	1363.9	1376.6	1376.6	1406.4	1399.2	1373.0	1368.4	1349.5
5°	1332.3	1342.2	1349.5	1413.6	1467.9	1462.4	1478.7	1467.9	1417.2	1352.2	1307.9
7.5°	1246.4	1257.3	1286.2	1395.6	1468.8	1493.2	1523.9	1456.1	1402.8	1285.3	1200.3
10°	1132.5	1153.3	1206.7	1331.4	1421.8	1499.5	1499.5	1445.3	1342.2	1227.4	1123.5
12.5°	1069.3	1110.8	1139.8	1266.3	1383.8	1437.1	1435.3	1406.4	1339.5	1194.9	1077.4
15°	1080.1	1091.9	1153.3	1251.8	1329.6	1326.9	1359.4	1350.4	1303.4	1223.8	1094.6
17.5°	1129.8	1147.9	1201.2	1251.8	1288.9	1278.1	1277.2	1320.5	1323.2	1272.6	1158.7
20°	1211.2	1264.5	1289.8	1305.2	1260.0	1213.9	1208.5	1269.0	1316.0	1335.0	1235.6
22.5°	1341.3	1376.6	1428.1	1349.5	1232.0	1174.1	1163.3	1230.2	1325.1	1409.1	1335.0
25°	1468.8	1495.9	1545.6	1444.4	1263.6	1166.0	1147.0	1204.8	1359.4	1512.2	1455.2
27.5°	1603.4	1626.9	1632.4	1514.0	1280.8	1149.7	1127.1	1204.8	1388.3	1566.4	1598.9
30°	1685.7	1713.7	1719.1	1575.4	1308.8	1163.3	1152.4	1210.3	1408.2	1612.5	1702.0
32.5°	1777.9	1785.1	1780.6	1586.3	1339.5	1203.0	1157.8	1246.4	1430.8	1667.6	1796.0
35°	1888.2	1900.8	1854.7	1636.0	1408.2	1228.3	1212.1	1290.7	1469.7	1692.9	1909.9
37.5°	1972.2	2012.0	1908.0	1655.0	1421.8	1281.7	1284.4	1382.9	1496.8	1723.7	2035.5
40°	2130.4	2063.5	1998.4	1720.0	1473.3	1372.1	1357.6	1477.8	1588.1	1743.5	2117.7
42.5°	2217.2	2181.9	2033.7	1726.4	1552.8	1496.8	1500.4	1585.4	1636.0	1799.6	2140.3
45°	2238.9	2201.8	2081.6	1730.9	1631.5	1644.1	1706.5	1722.8	1706.5	1836.6	2182.8
47.5°	2294.0	2213.5	2076.2	1791.4	1758.9	1807.7	1887.3	1922.5	1802.3	1823.1	2202.7
50°	2283.1	2237.0	2064.4	1816.8	1914.4	2043.6	2097.0	2082.5	1908.9	1795.1	2181.0
52.5°	2238.0	2188.2	2100.6	1885.4	2059.9	2216.3	2290.4	2254.2	2003.9	1858.3	2166.5
55°	2303.9	2266.0	2147.6	1978.5	2169.3	2368.1	2420.5	2393.4	2120.5	1917.1	2248.8
57.5°	2375.3	2367.2	2275.0	2087.9	2298.5	2524.5	2524.5	2491.0	2221.7	2002.0	2370.8
60°	2478.4	2496.5	2369.0	2160.2	2342.8	2515.4	2646.5	2607.6	2323.8	2151.2	2509.1
62.5°	2444.9	2502.8	2490.1	2315.7	2393.4	2559.7	2631.1	2660.1	2450.4	2332.9	2693.5
65°	2337.4	2398.8	2489.2	2417.8	2355.5	2452.2	2488.3	2576.0	2513.6	2503.7	2769.4
67.5°	2209.0	2275.9	2332.0	2486.5	2278.6	2342.8	2311.2	2339.2	2444.9	2690.8	2812.8
70°	1928.8	1993.0	2081.6	2333.8	2075.3	2017.4	2009.3	1995.7	2160.2	2623.9	2615.8
72.5°	1586.3	1616.1	1762.5	1897.2	1535.7	1524.8	1537.5	1522.1	1712.8	2375.3	2240.7
75°	1187.7	1217.5	1300.7	1457.0	1045.8	983.4	1055.7	1127.1	1307.9	1843.9	1609.8
77.5°	893.0	931.0	983.4	1090.1	767.4	669.8	679.7	747.5	945.4	1476.9	902.1
80°	579.4	574.9	676.1	750.2	577.6	595.6	570.3	620.0	685.1	790.0	461.0
82.5°	334.4	338.9	381.4	430.2	402.2	460.1	331.7	554.1	489.0	321.8	171.7
85°	188.0	196.1	235.0	298.3	252.2	169.0	138.3	274.8	307.3	132.0	83.2
87.5°	19.0	16.3	31.6	113.0	68.7	28.0	41.6	66.0	74.1	49.7	24.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6
2.5°	1322.3	1322.3	1299.7	1261.8	1246.4	1219.3	1182.2	1194.0	1181.3	1135.2	1123.5
5°	1268.1	1224.7	1177.7	1119.9	1086.4	1017.7	996.1	957.2	963.5	924.6	926.5
7.5°	1155.1	1120.8	1041.2	965.3	899.3	839.7	755.6	724.0	693.3	677.9	696.0
10°	1089.1	1025.0	916.5	817.1	729.4	676.1	620.0	576.7	536.9	507.1	500.7
12.5°	1041.2	984.3	853.2	732.1	663.4	620.0	568.5	508.9	470.0	418.5	403.1
15°	1026.8	957.2	818.9	698.7	631.8	560.4	501.6	442.9	392.3	338.0	319.1
17.5°	1076.5	996.1	818.0	671.6	577.6	500.7	419.4	353.4	301.9	252.2	240.4
20°	1160.6	1037.6	844.2	655.3	526.0	423.0	330.8	264.8	207.0	174.4	166.3
22.5°	1256.4	1108.1	846.9	611.9	474.5	345.3	241.3	174.4	141.9	126.5	122.0
25°	1373.9	1221.1	879.5	576.7	414.0	262.1	171.7	133.8	114.8	105.8	103.9
27.5°	1470.6	1299.7	914.7	539.6	354.3	194.3	134.7	109.4	99.4	90.4	89.5
30°	1570.9	1390.1	924.6	517.0	302.8	160.0	115.7	96.7	85.9	81.3	80.4
32.5°	1658.6	1488.7	956.3	479.9	254.0	141.0	104.8	86.8	79.5	72.3	71.4
35°	1771.6	1545.6	971.6	460.1	235.9	127.4	95.8	79.5	68.7	64.2	62.4
37.5°	1892.7	1600.7	981.6	444.7	220.5	119.3	90.4	75.0	65.1	58.8	56.9
40°	2005.7	1678.5	967.1	425.7	208.8	109.4	86.8	69.6	60.6	54.2	51.5
42.5°	2092.4	1754.4	962.6	407.6	196.1	105.8	82.3	66.9	56.9	49.7	48.8
45°	2141.2	1805.9	931.0	393.2	186.2	107.6	80.4	63.3	54.2	47.9	44.3
47.5°	2129.5	1845.7	939.1	388.7	172.6	100.3	79.5	60.6	49.7	44.3	41.6
50°	2194.6	1926.1	925.6	374.2	162.7	90.4	86.8	60.6	48.8	42.5	39.8
52.5°	2205.4	1999.3	954.5	348.0	147.3	83.2	85.9	59.7	47.0	40.7	37.1
55°	2295.8	2084.3	1010.5	333.5	134.7	72.3	78.6	57.8	42.5	37.1	35.3
57.5°	2418.7	2260.5	1046.7	320.0	117.5	63.3	66.0	56.9	38.9	34.3	31.6
60°	2537.1	2331.1	1049.4	295.6	101.2	56.9	51.5	56.9	36.2	30.7	28.0
62.5°	2625.7	2331.1	1031.3	274.8	88.6	50.6	45.2	54.2	32.5	27.1	25.3
65°	2577.8	2268.7	984.3	257.6	80.4	44.3	38.9	41.6	28.9	23.5	21.7
67.5°	2491.9	2074.4	880.4	236.8	79.5	38.9	33.4	30.7	25.3	20.8	19.0
70°	2354.6	1812.2	733.0	213.3	77.7	35.3	29.8	26.2	22.6	18.1	16.3
72.5°	1897.2	1496.8	602.0	199.8	75.9	30.7	25.3	22.6	19.0	15.4	13.6
75°	1314.2	956.3	463.7	170.8	74.1	28.0	23.5	19.9	16.3	12.7	11.8
77.5°	788.2	639.0	299.2	128.3	48.8	22.6	19.9	15.4	13.6	10.8	9.9
80°	368.8	301.9	121.1	49.7	23.5	16.3	13.6	11.8	10.8	9.0	8.1
82.5°	144.6	127.4	58.8	28.9	19.0	12.7	10.8	9.9	9.0	7.2	6.3
85°	77.7	68.7	28.0	19.9	13.6	9.0	9.0	8.1	7.2	6.3	5.4
87.5°	17.2	12.7	11.8	11.8	9.9	7.2	7.2	6.3	5.4	4.5	3.6
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6
2.5°	1117.2	1130.7	1109.0	1122.6	1103.6	1118.1	1119.9	1106.3	1109.9	1128.0	1136.1
5°	951.8	942.7	922.8	916.5	917.4	905.7	910.2	916.5	926.5	931.9	948.1
7.5°	686.0	706.8	705.9	721.3	722.2	720.4	707.7	680.6	689.6	682.4	691.5
10°	490.8	499.8	517.0	526.9	545.0	535.1	506.2	495.3	489.9	489.0	498.0
12.5°	392.3	370.6	368.8	372.4	381.4	369.7	355.2	342.6	348.9	361.5	371.5
15°	303.7	285.6	262.1	258.5	260.3	254.9	239.5	223.3	227.8	240.4	247.7
17.5°	233.2	212.4	196.1	185.3	181.7	162.7	140.1	126.5	122.9	122.0	128.3
20°	157.3	153.7	150.9	137.4	137.4	110.3	91.3	81.3	81.3	83.2	84.1
22.5°	117.5	113.0	113.9	111.2	103.9	82.3	72.3	69.6	69.6	71.4	71.4
25°	102.1	95.8	94.0	93.1	85.9	70.5	63.3	60.6	60.6	62.4	62.4
27.5°	86.8	85.0	82.3	78.6	72.3	60.6	56.0	53.3	54.2	55.1	54.2
30°	79.5	75.0	71.4	71.4	64.2	54.2	50.6	48.8	47.0	48.8	49.7
32.5°	70.5	67.8	66.0	63.3	55.1	47.9	44.3	42.5	41.6	41.6	42.5
35°	60.6	60.6	58.8	55.1	47.9	43.4	38.9	37.1	36.2	37.1	37.1
37.5°	54.2	51.5	52.4	48.8	42.5	38.0	33.4	31.6	31.6	30.7	31.6
40°	50.6	46.1	43.4	41.6	38.0	32.5	28.9	27.1	26.2	26.2	26.2
42.5°	45.2	41.6	36.2	35.3	34.3	28.0	23.5	22.6	21.7	20.8	20.8
45°	42.5	37.1	32.5	28.0	28.0	23.5	19.9	18.1	17.2	16.3	17.2
47.5°	38.9	33.4	28.0	23.5	22.6	19.0	15.4	13.6	12.7	12.7	12.7
50°	37.1	29.8	24.4	19.9	17.2	15.4	11.8	9.9	9.0	9.0	9.0
52.5°	34.3	28.0	21.7	17.2	13.6	11.8	9.0	7.2	6.3	6.3	6.3
55°	30.7	25.3	19.0	14.5	11.8	9.0	6.3	4.5	3.6	3.6	3.6
57.5°	28.9	22.6	16.3	12.7	9.0	6.3	3.6	2.7	2.7	1.8	2.7
60°	26.2	19.9	13.6	9.9	7.2	4.5	2.7	0.9	0.9	0.9	0.9
62.5°	22.6	17.2	11.8	8.1	5.4	2.7	0.9	0.0	0.0	0.0	0.0
65°	19.0	13.6	9.0	6.3	3.6	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	16.3	11.8	7.2	4.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.5	9.9	5.4	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11.8	8.1	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.9	6.3	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.1	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.3	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	358°	360°
0°	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6
2.5°	1147.9	1142.5	1169.6	1213.9	1236.5	1280.8	1291.6	1319.6	1312.4	1322.3
5°	950.0	960.8	1000.6	1065.6	1089.1	1153.3	1213.9	1274.4	1313.3	1332.3
7.5°	705.0	741.2	790.0	849.6	910.2	994.2	1097.3	1167.8	1205.7	1246.4
10°	525.1	564.0	620.0	678.8	777.3	871.3	974.4	1062.0	1094.6	1132.5
12.5°	413.1	473.6	538.7	602.0	660.7	750.2	877.6	1005.1	1040.3	1069.3
15°	287.4	361.5	454.6	536.9	619.1	696.9	828.8	983.4	1031.3	1080.1
17.5°	159.1	217.8	324.5	440.2	561.3	680.6	845.1	1023.2	1095.5	1129.8
20°	92.2	115.7	191.6	329.0	489.0	645.4	853.2	1098.2	1194.0	1211.2
22.5°	75.9	84.1	108.5	206.1	400.4	622.8	894.8	1203.0	1300.7	1341.3
25°	65.1	71.4	84.1	123.8	302.8	574.9	921.0	1334.1	1424.5	1468.8
27.5°	57.8	64.2	74.1	91.3	206.1	508.9	964.4	1452.5	1542.9	1603.4
30°	50.6	56.0	66.0	77.7	142.8	434.8	1001.5	1539.3	1666.7	1685.7
32.5°	45.2	49.7	56.9	66.9	105.8	329.9	1031.3	1628.8	1736.3	1777.9
35°	38.9	44.3	48.8	56.9	80.4	248.6	1013.2	1698.3	1838.4	1888.2
37.5°	34.3	38.0	42.5	47.9	67.8	194.3	976.2	1781.5	1926.1	1972.2
40°	28.9	31.6	37.1	42.5	61.5	150.0	933.7	1881.8	2049.0	2130.4
42.5°	24.4	27.1	30.7	39.8	50.6	111.2	847.8	1959.6	2148.5	2217.2
45°	19.0	22.6	28.0	39.8	40.7	82.3	759.2	2017.4	2204.5	2238.9
47.5°	14.5	18.1	27.1	34.3	32.5	56.9	654.4	2083.4	2262.4	2294.0
50°	10.8	14.5	30.7	29.8	27.1	43.4	588.4	2129.5	2266.0	2283.1
52.5°	7.2	10.8	25.3	22.6	22.6	38.0	570.3	2127.7	2275.0	2238.0
55°	5.4	8.1	14.5	16.3	19.9	33.4	554.1	2195.5	2277.7	2303.9
57.5°	3.6	6.3	9.9	12.7	17.2	28.9	520.6	2276.8	2361.8	2375.3
60°	1.8	4.5	7.2	9.9	14.5	25.3	473.6	2336.5	2463.9	2478.4
62.5°	0.9	2.7	5.4	8.1	11.8	19.9	424.8	2241.6	2419.6	2444.9
65°	0.0	1.8	3.6	5.4	7.2	14.5	345.3	2023.7	2244.3	2337.4
67.5°	0.0	0.0	1.8	3.6	4.5	10.8	260.3	1841.2	2082.5	2209.0
70°	0.0	0.0	0.9	0.9	2.7	8.1	166.3	1524.8	1859.2	1928.8
72.5°	0.0	0.0	0.0	0.0	0.9	5.4	96.7	1132.5	1457.0	1586.3
75°	0.0	0.0	0.0	0.0	0.0	4.5	48.8	728.5	1014.1	1187.7
77.5°	0.0	0.0	0.0	0.0	0.0	3.6	26.2	470.0	747.5	893.0
80°	0.0	0.0	0.0	0.0	0.0	0.9	15.4	273.0	478.1	579.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.3	133.8	285.6	334.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	71.4	142.8	188.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	9.9	19.0
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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