

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: P675914

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675914  
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  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
SLL distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

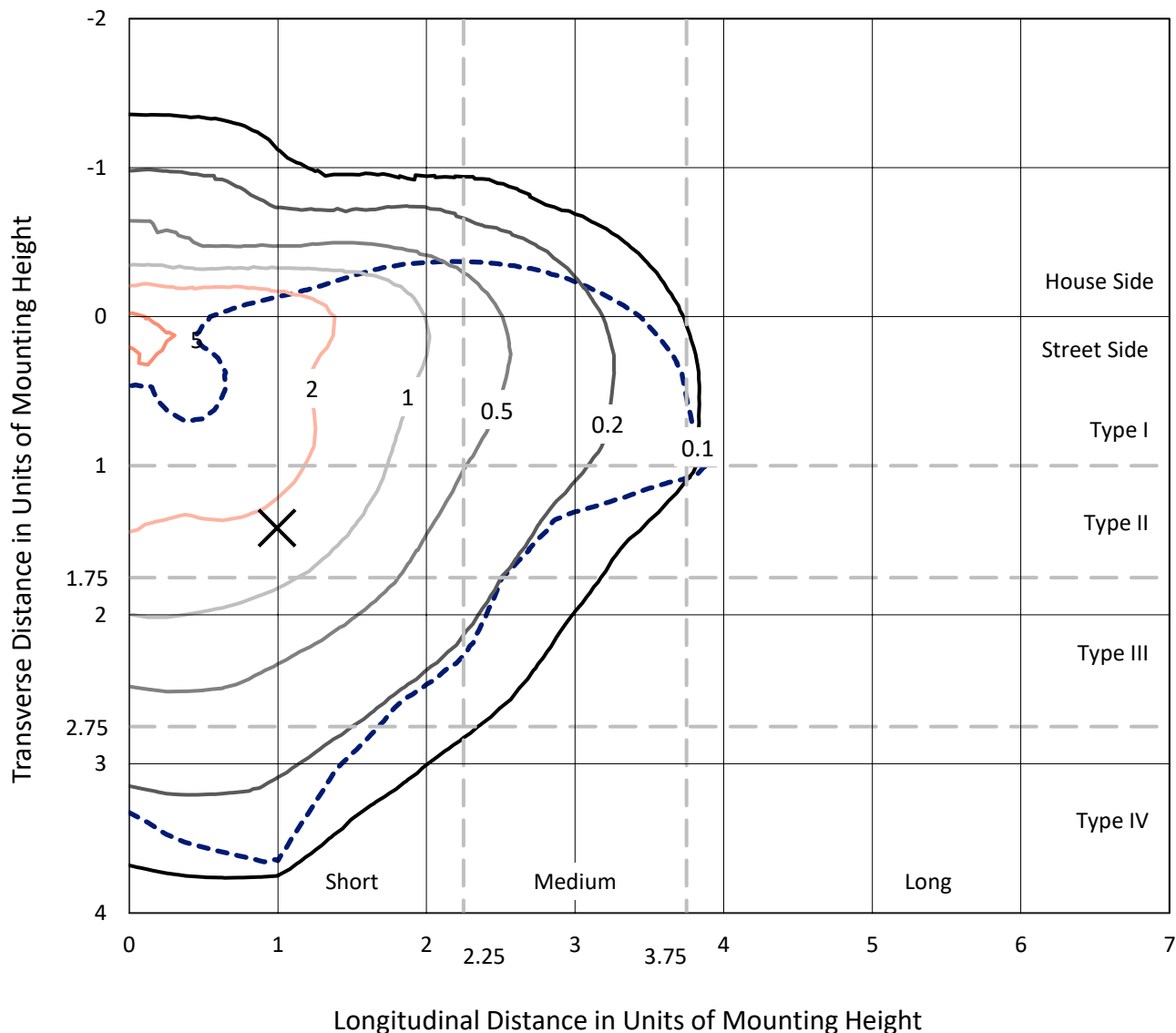
Lumens per Lamp: N/A  
Luminaire Lumens: 3870.8 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

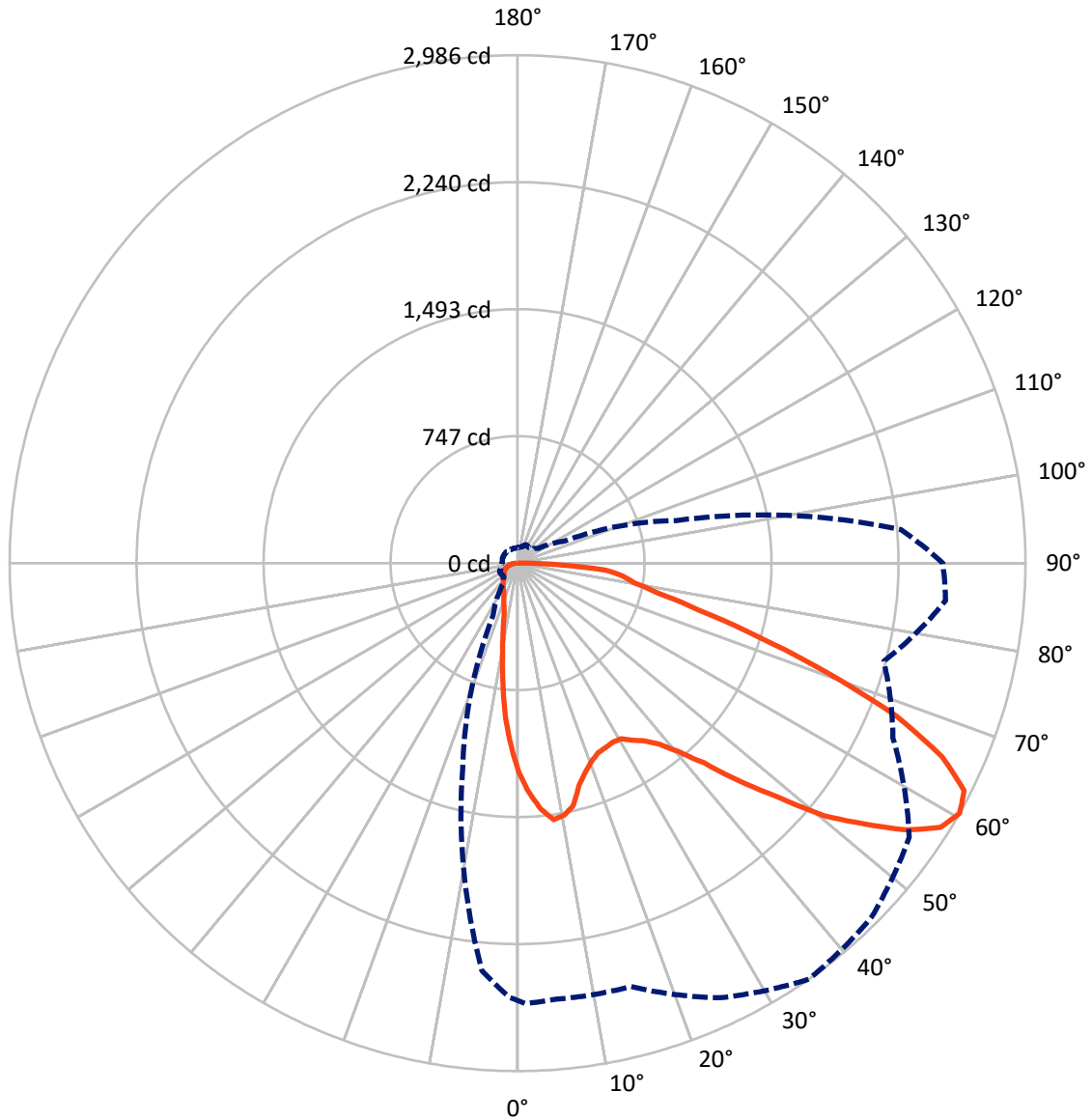
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.3 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	736.7	0.0	736.7
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	3134.1	0.0	3134.1
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	3870.8	0.0	3870.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	2.5
10°-20°	202.8	5.2
20°-30°	296.7	7.7
30°-40°	418.0	10.8
40°-50°	574.5	14.8
50°-60°	783.0	20.2
60°-70°	856.9	22.1
70°-80°	494.7	12.8
80°-90°	148.1	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°	3870.8	100.0
0°-180°	3870.8	100.0



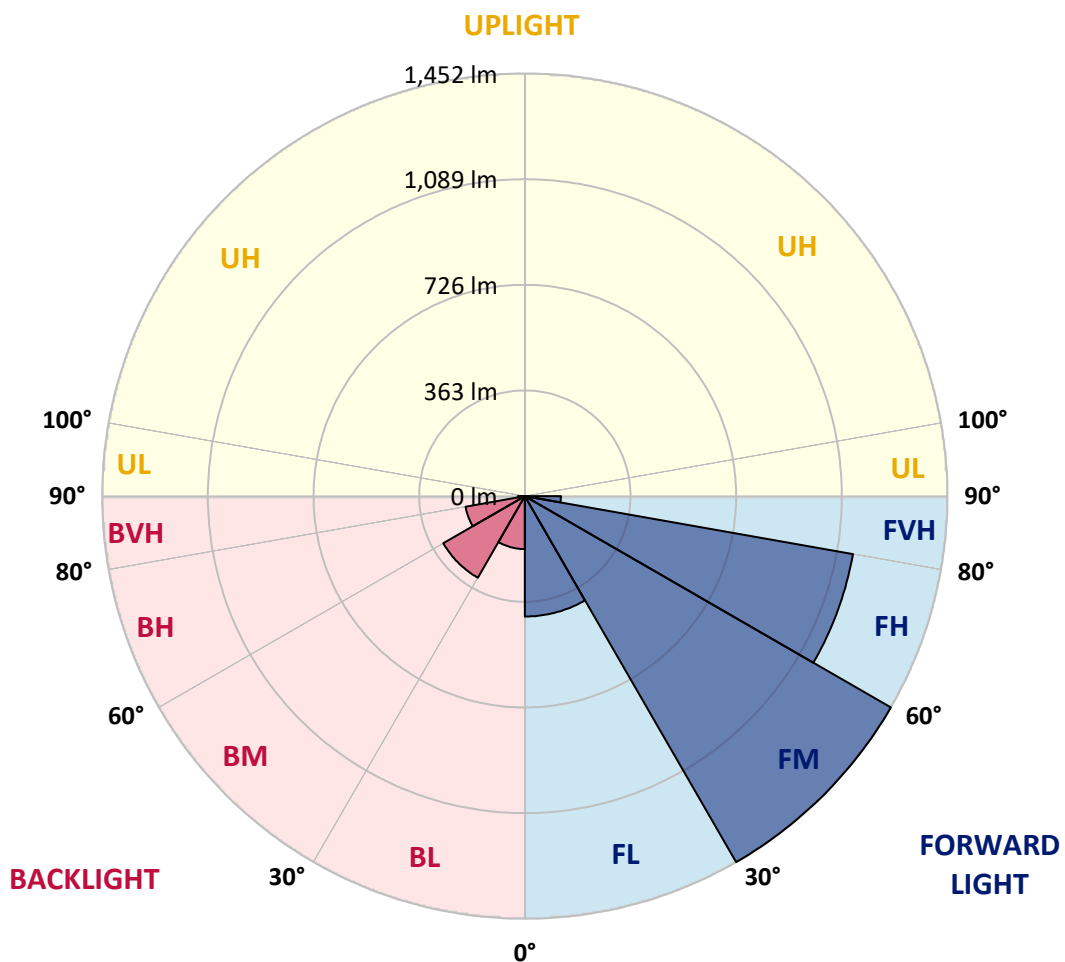
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.5	10.7			
FM (30°-60°)	1451.9	37.5			
FH (60°-80°)	1144.7	29.6			G1/1800
FVH (80°-90°)	124.0	3.2			G2/225
BL (0°-30°)	182.0	4.7	B1/500		
BM (30°-60°)	323.6	8.4	B1/1000		
BH (60°-80°)	206.9	5.3	B1/500		G1/500
BVH (80°-90°)	24.1	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3
2.5°	1323.9	1318.7	1323.9	1342.8	1347.9	1356.5	1356.5	1344.5	1322.2	1311.9	1294.7
5°	1353.1	1344.5	1387.4	1426.9	1457.8	1454.4	1425.2	1401.1	1356.5	1289.5	1226.0
7.5°	1294.7	1303.3	1334.2	1437.2	1509.3	1523.1	1476.7	1428.6	1332.5	1239.7	1153.9
10°	1184.8	1196.8	1263.8	1370.2	1483.6	1505.9	1476.7	1418.3	1303.3	1188.2	1088.6
12.5°	1131.6	1159.0	1198.5	1327.3	1408.0	1461.2	1447.5	1409.7	1280.9	1145.3	1049.1
15°	1131.6	1138.4	1196.8	1305.0	1351.3	1353.1	1358.2	1365.1	1287.8	1164.2	1035.4
17.5°	1167.6	1186.5	1236.3	1303.3	1311.9	1291.2	1291.2	1320.4	1301.5	1217.4	1085.2
20°	1255.2	1248.3	1313.6	1341.0	1294.7	1243.2	1238.0	1287.8	1317.0	1274.1	1176.2
22.5°	1342.8	1373.7	1426.9	1365.1	1279.2	1210.5	1203.7	1265.5	1363.4	1372.0	1280.9
25°	1475.0	1505.9	1533.4	1457.8	1277.5	1202.0	1207.1	1255.2	1420.0	1511.0	1456.1
27.5°	1617.5	1636.4	1675.9	1559.1	1318.7	1191.7	1196.8	1268.9	1473.3	1602.0	1593.5
30°	1698.2	1718.8	1710.2	1578.0	1346.2	1198.5	1184.8	1287.8	1444.1	1602.0	1682.7
32.5°	1777.2	1765.2	1760.0	1608.9	1380.5	1241.5	1207.1	1327.3	1461.2	1627.8	1797.8
35°	1873.3	1856.2	1842.4	1669.0	1437.2	1282.7	1267.2	1378.8	1499.0	1681.0	1890.5
37.5°	1979.8	1979.8	1912.8	1713.7	1504.2	1349.6	1332.5	1452.7	1559.1	1713.7	2017.6
40°	2105.1	2110.3	1991.8	1773.7	1579.7	1456.1	1450.9	1548.8	1617.5	1761.7	2139.5
42.5°	2197.9	2201.3	2060.5	1796.1	1667.3	1603.8	1626.1	1703.3	1684.5	1804.7	2148.1
45°	2261.4	2244.2	2108.6	1859.6	1763.4	1825.3	1832.1	1854.5	1772.0	1830.4	2182.4
47.5°	2292.3	2288.9	2129.2	1933.4	1966.1	2050.2	2089.7	2058.8	1852.7	1802.9	2182.4
50°	2323.2	2294.0	2148.1	2034.7	2163.5	2333.5	2324.9	2268.3	1964.3	1837.3	2149.8
52.5°	2343.8	2318.1	2185.8	2125.8	2352.4	2544.7	2579.1	2474.3	2094.8	1900.8	2165.2
55°	2417.7	2397.0	2299.2	2249.4	2570.5	2767.9	2773.1	2627.1	2232.2	2005.6	2266.6
57.5°	2506.9	2519.0	2455.4	2424.5	2737.0	2931.1	2912.2	2740.5	2349.0	2132.6	2383.3
60°	2570.5	2589.4	2573.9	2577.3	2819.5	2986.0	2943.1	2810.9	2434.8	2228.8	2525.8
62.5°	2536.1	2573.9	2637.4	2623.7	2822.9	2946.5	2886.4	2718.1	2445.1	2354.1	2634.0
65°	2441.7	2445.1	2568.8	2644.3	2668.3	2742.2	2663.2	2524.1	2338.7	2431.4	2618.6
67.5°	2199.6	2227.1	2338.7	2486.3	2385.0	2402.2	2395.3	2194.4	2177.3	2378.2	2500.1
70°	1942.0	1960.9	2082.8	2256.2	2014.1	1933.4	1948.9	1799.5	1869.9	2213.3	2261.4
72.5°	1605.5	1617.5	1756.6	1909.4	1615.8	1471.5	1507.6	1385.7	1485.3	1936.9	1907.7
75°	1212.3	1234.6	1342.8	1523.1	1189.9	1097.2	1133.3	1083.5	1176.2	1595.2	1480.1
77.5°	862.0	844.8	978.7	1191.7	894.6	839.7	843.1	851.7	951.3	1344.5	1062.9
80°	587.2	592.4	712.6	874.0	702.3	693.7	685.1	753.8	798.4	1064.6	772.7
82.5°	348.6	348.6	480.8	621.6	554.6	625.0	585.5	647.3	625.0	783.0	506.5
85°	163.1	163.1	247.3	448.2	429.3	515.1	437.9	489.4	461.9	546.0	228.4
87.5°	27.5	24.0	49.8	219.8	176.9	200.9	79.0	261.0	290.2	381.2	56.7
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°	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3
2.5°	1275.8	1263.8	1239.7	1208.8	1183.1	1150.4	1140.1	1117.8	1086.9	1083.5	1069.7
5°	1202.0	1160.7	1109.2	1045.7	1002.8	958.1	920.4	898.0	872.3	868.8	862.0
7.5°	1121.3	1069.7	983.9	908.3	834.5	764.1	729.8	686.8	657.6	635.3	625.0
10°	1045.7	997.6	891.2	788.1	722.9	676.5	635.3	590.7	554.6	527.1	516.8
12.5°	995.9	939.2	824.2	726.3	678.2	625.0	578.7	530.6	484.2	448.2	429.3
15°	973.6	920.4	803.6	695.4	625.0	551.2	498.0	449.9	393.2	367.5	358.9
17.5°	1026.8	947.8	796.7	659.4	559.8	475.6	410.4	358.9	317.7	291.9	281.6
20°	1095.5	997.6	808.7	616.4	498.0	403.5	331.4	276.5	249.0	230.1	228.4
22.5°	1183.1	1071.5	827.6	585.5	429.3	324.5	259.3	226.7	207.8	206.1	202.6
25°	1339.3	1205.4	858.5	544.3	374.3	267.9	221.5	202.6	194.0	188.9	192.3
27.5°	1473.3	1293.0	880.9	518.6	352.0	252.4	214.6	194.0	185.4	183.7	185.4
30°	1552.2	1373.7	874.0	470.5	307.4	240.4	228.4	221.5	204.3	190.6	190.6
32.5°	1624.4	1425.2	872.3	427.6	262.7	200.9	190.6	185.4	195.7	202.6	197.5
35°	1724.0	1505.9	867.1	403.5	243.8	185.4	168.3	154.5	147.7	144.2	149.4
37.5°	1830.4	1560.8	853.4	400.1	233.5	176.9	163.1	149.4	142.5	139.1	137.4
40°	1947.2	1619.2	837.9	382.9	228.4	171.7	158.0	146.0	137.4	132.2	130.5
42.5°	2022.7	1665.6	822.5	374.3	218.1	168.3	152.8	142.5	133.9	127.1	127.1
45°	2065.7	1720.5	807.0	365.7	206.1	170.0	152.8	139.1	128.8	125.3	121.9
47.5°	2084.5	1761.7	801.9	352.0	195.7	163.1	149.4	135.6	125.3	118.5	116.8
50°	2134.3	1849.3	820.8	341.7	183.7	156.3	158.0	133.9	123.6	115.0	113.3
52.5°	2163.5	1919.7	862.0	326.2	175.1	147.7	154.5	130.5	118.5	109.9	109.9
55°	2270.0	2036.5	906.6	314.2	164.8	135.6	142.5	123.6	109.9	104.7	104.7
57.5°	2405.6	2160.1	944.4	309.1	158.0	127.1	127.1	120.2	104.7	97.9	96.2
60°	2500.1	2261.4	966.7	305.6	151.1	118.5	113.3	120.2	99.6	92.7	91.0
62.5°	2510.4	2203.0	944.4	303.9	149.4	109.9	103.0	115.0	94.4	87.6	84.1
65°	2445.1	2084.5	882.6	297.1	147.7	101.3	96.2	99.6	87.6	82.4	79.0
67.5°	2314.6	1892.2	793.3	293.6	146.0	94.4	87.6	85.9	80.7	75.6	72.1
70°	2010.7	1641.5	688.6	278.2	142.5	89.3	79.0	77.3	72.1	68.7	67.0
72.5°	1687.9	1342.8	568.4	257.6	135.6	80.7	72.1	68.7	67.0	61.8	60.1
75°	1293.0	1033.7	455.0	228.4	118.5	72.1	63.5	60.1	58.4	54.9	53.2
77.5°	908.3	769.3	336.5	185.4	99.6	65.2	56.7	53.2	51.5	46.4	46.4
80°	616.4	539.2	228.4	128.8	77.3	53.2	49.8	46.4	42.9	39.5	39.5
82.5°	382.9	377.8	164.8	84.1	56.7	42.9	39.5	39.5	34.3	30.9	30.9
85°	175.1	231.8	115.0	58.4	42.9	32.6	32.6	30.9	27.5	22.3	22.3
87.5°	54.9	77.3	60.1	25.8	24.0	18.9	18.9	17.2	17.2	13.7	13.7
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°	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3
2.5°	1083.5	1081.8	1081.8	1074.9	1092.1	1092.1	1102.4	1093.8	1098.9	1100.7	1114.4
5°	860.3	874.0	884.3	904.9	916.9	922.1	922.1	935.8	930.7	941.0	961.6
7.5°	630.2	647.3	678.2	704.0	724.6	731.5	729.8	733.2	738.3	726.3	729.8
10°	510.0	498.0	508.3	532.3	551.2	573.5	556.3	554.6	559.8	554.6	564.9
12.5°	425.8	412.1	403.5	403.5	417.3	427.6	422.4	431.0	449.9	455.0	467.0
15°	345.1	333.1	326.2	317.7	331.4	334.8	340.0	352.0	365.7	372.6	386.3
17.5°	276.5	276.5	276.5	269.6	274.7	279.9	281.6	297.1	298.8	305.6	310.8
20°	226.7	231.8	240.4	243.8	249.0	249.0	245.5	254.1	247.3	252.4	255.8
22.5°	204.3	211.2	214.6	216.4	223.2	224.9	216.4	218.1	219.8	214.6	216.4
25°	192.3	195.7	192.3	194.0	195.7	192.3	194.0	197.5	195.7	199.2	197.5
27.5°	187.2	183.7	182.0	180.3	180.3	176.9	178.6	178.6	182.0	183.7	183.7
30°	187.2	182.0	175.1	170.0	170.0	164.8	168.3	171.7	173.4	176.9	176.9
32.5°	192.3	182.0	170.0	164.8	159.7	156.3	159.7	164.8	171.7	173.4	175.1
35°	152.8	158.0	156.3	149.4	147.7	147.7	146.0	146.0	140.8	140.8	139.1
37.5°	137.4	135.6	139.1	140.8	142.5	137.4	137.4	130.5	128.8	130.5	130.5
40°	128.8	128.8	128.8	133.9	135.6	132.2	127.1	123.6	123.6	123.6	125.3
42.5°	125.3	121.9	120.2	123.6	128.8	125.3	120.2	118.5	118.5	120.2	120.2
45°	120.2	118.5	116.8	115.0	121.9	116.8	115.0	113.3	113.3	113.3	115.0
47.5°	115.0	113.3	109.9	109.9	111.6	109.9	108.2	108.2	108.2	111.6	111.6
50°	111.6	109.9	106.5	106.5	106.5	106.5	104.7	104.7	104.7	106.5	108.2
52.5°	106.5	104.7	103.0	101.3	101.3	101.3	101.3	101.3	101.3	103.0	104.7
55°	101.3	99.6	97.9	97.9	99.6	99.6	97.9	99.6	97.9	99.6	101.3
57.5°	96.2	94.4	92.7	94.4	96.2	94.4	94.4	94.4	94.4	94.4	96.2
60°	89.3	89.3	89.3	89.3	92.7	92.7	92.7	92.7	89.3	91.0	92.7
62.5°	85.9	84.1	84.1	85.9	87.6	87.6	89.3	87.6	85.9	87.6	87.6
65°	79.0	79.0	79.0	80.7	80.7	82.4	82.4	82.4	80.7	82.4	82.4
67.5°	73.8	73.8	73.8	73.8	77.3	77.3	77.3	77.3	75.6	75.6	77.3
70°	65.2	67.0	65.2	68.7	72.1	70.4	72.1	72.1	70.4	68.7	72.1
72.5°	60.1	60.1	60.1	60.1	65.2	65.2	65.2	67.0	65.2	63.5	65.2
75°	53.2	53.2	53.2	54.9	58.4	58.4	58.4	58.4	58.4	56.7	56.7
77.5°	46.4	48.1	46.4	48.1	51.5	49.8	51.5	53.2	51.5	49.8	49.8
80°	39.5	39.5	39.5	41.2	42.9	42.9	42.9	44.6	42.9	41.2	41.2
82.5°	30.9	30.9	32.6	32.6	34.3	34.3	34.3	36.1	34.3	32.6	32.6
85°	24.0	24.0	24.0	25.8	25.8	27.5	27.5	29.2	29.2	27.5	27.5
87.5°	15.5	13.7	15.5	15.5	17.2	17.2	15.5	13.7	15.5	13.7	12.0
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°	359°	360°
0°	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3	1236.3
2.5°	1128.1	1159.0	1181.4	1196.8	1219.1	1262.1	1279.2	1310.1	1318.7	1323.9
5°	970.2	1002.8	1050.9	1085.2	1124.7	1205.4	1267.2	1313.6	1334.2	1353.1
7.5°	760.7	803.6	853.4	898.0	963.3	1062.9	1143.6	1239.7	1275.8	1294.7
10°	594.1	633.6	688.6	743.5	834.5	918.6	1033.7	1121.3	1171.1	1184.8
12.5°	501.4	547.7	613.0	680.0	736.6	832.8	949.5	1076.6	1123.0	1131.6
15°	425.8	489.4	556.3	625.0	690.3	774.4	899.8	1054.3	1123.0	1131.6
17.5°	352.0	408.7	487.7	561.5	637.0	752.1	908.3	1073.2	1141.9	1167.6
20°	279.9	334.8	396.6	489.4	592.4	714.3	927.2	1136.7	1227.7	1255.2
22.5°	231.8	255.8	315.9	405.2	527.1	688.6	946.1	1236.3	1332.5	1342.8
25°	202.6	219.8	257.6	341.7	475.6	671.4	990.8	1351.3	1475.0	1475.0
27.5°	188.9	195.7	221.5	297.1	439.6	655.9	1035.4	1478.4	1593.5	1617.5
30°	185.4	202.6	216.4	264.4	400.1	613.0	1076.6	1578.0	1696.5	1698.2
32.5°	182.0	178.6	188.9	230.1	352.0	568.4	1111.0	1679.3	1772.0	1777.2
35°	142.5	149.4	166.6	202.6	315.9	535.7	1128.1	1734.3	1868.2	1873.3
37.5°	133.9	142.5	156.3	187.2	291.9	508.3	1133.3	1840.7	1969.5	1979.8
40°	130.5	137.4	147.7	173.4	273.0	473.9	1143.6	1950.6	2118.9	2105.1
42.5°	123.6	132.2	142.5	166.6	257.6	448.2	1145.3	2010.7	2197.9	2197.9
45°	121.9	127.1	139.1	166.6	240.4	425.8	1117.8	2070.8	2288.9	2261.4
47.5°	115.0	125.3	135.6	161.4	219.8	403.5	1085.2	2101.7	2300.9	2292.3
50°	113.3	123.6	140.8	152.8	207.8	393.2	1078.3	2179.0	2324.9	2323.2
52.5°	109.9	120.2	146.0	146.0	192.3	379.5	1111.0	2213.3	2330.1	2343.8
55°	104.7	120.2	135.6	133.9	178.6	362.3	1147.0	2302.6	2421.1	2417.7
57.5°	101.3	116.8	128.8	121.9	163.1	350.3	1200.2	2388.5	2531.0	2506.9
60°	96.2	116.8	115.0	113.3	151.1	340.0	1244.9	2405.6	2555.0	2570.5
62.5°	92.7	121.9	101.3	104.7	140.8	334.8	1226.0	2276.9	2522.4	2536.1
65°	89.3	104.7	92.7	96.2	137.4	324.5	1152.2	2122.3	2381.6	2441.7
67.5°	82.4	85.9	85.9	89.3	133.9	300.5	1001.1	1844.1	2167.0	2199.6
70°	75.6	77.3	77.3	82.4	130.5	273.0	825.9	1595.2	1880.2	1942.0
72.5°	68.7	68.7	68.7	75.6	120.2	250.7	680.0	1226.0	1562.5	1605.5
75°	60.1	60.1	60.1	67.0	108.2	228.4	535.7	911.8	1150.4	1212.3
77.5°	53.2	53.2	51.5	60.1	94.4	185.4	386.3	643.9	810.5	862.0
80°	44.6	42.9	42.9	48.1	73.8	133.9	249.0	455.0	564.9	587.2
82.5°	36.1	34.3	32.6	36.1	53.2	84.1	154.5	317.7	362.3	348.6
85°	34.3	36.1	29.2	27.5	37.8	54.9	97.9	195.7	163.1	163.1
87.5°	13.7	12.0	12.0	10.3	18.9	20.6	42.9	36.1	27.5	27.5
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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