

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: P675848

Luminaire Tested: **CCW-SA-2A-740-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675848  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-740-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
SLL distribution lens  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4540 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

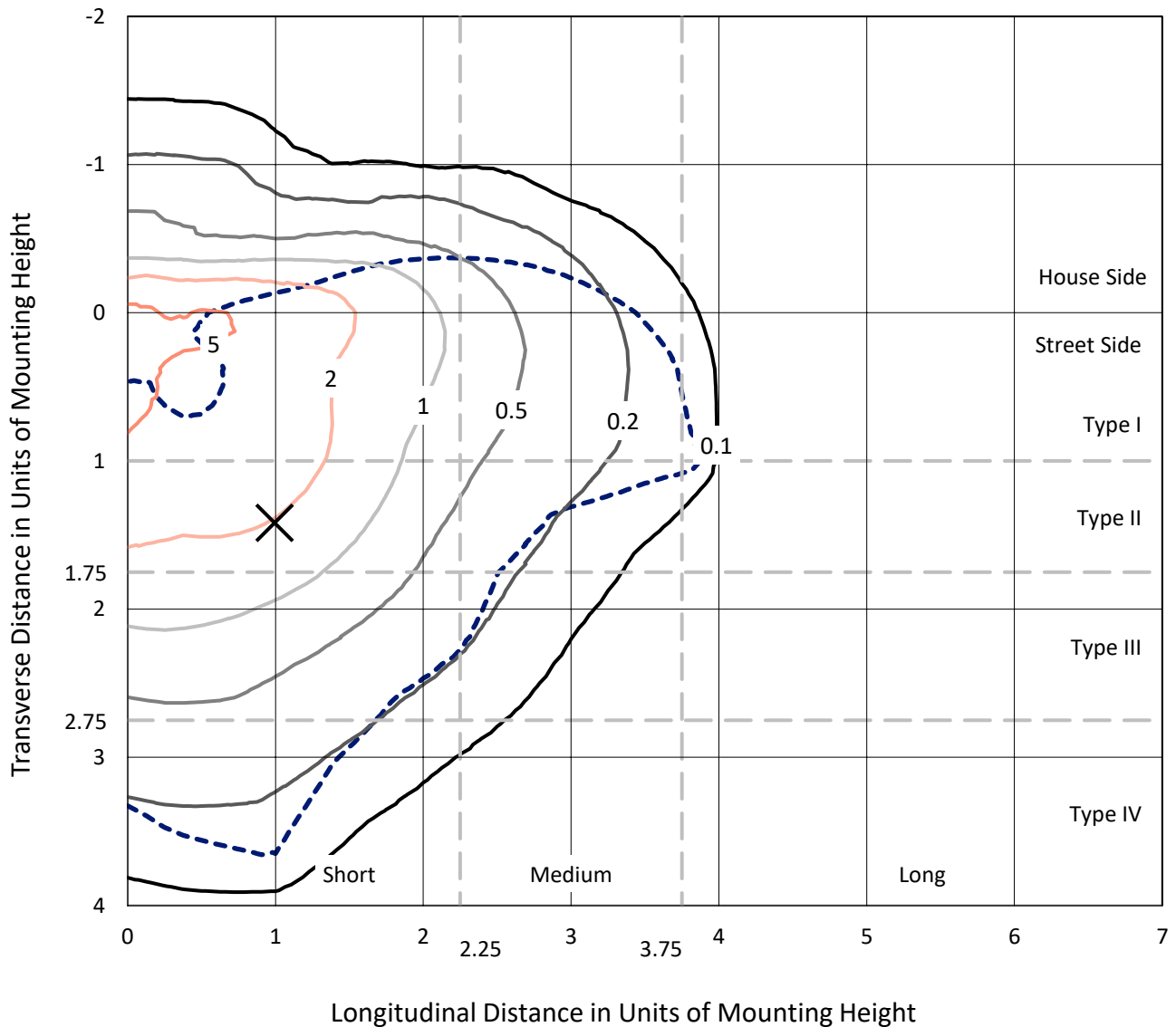
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

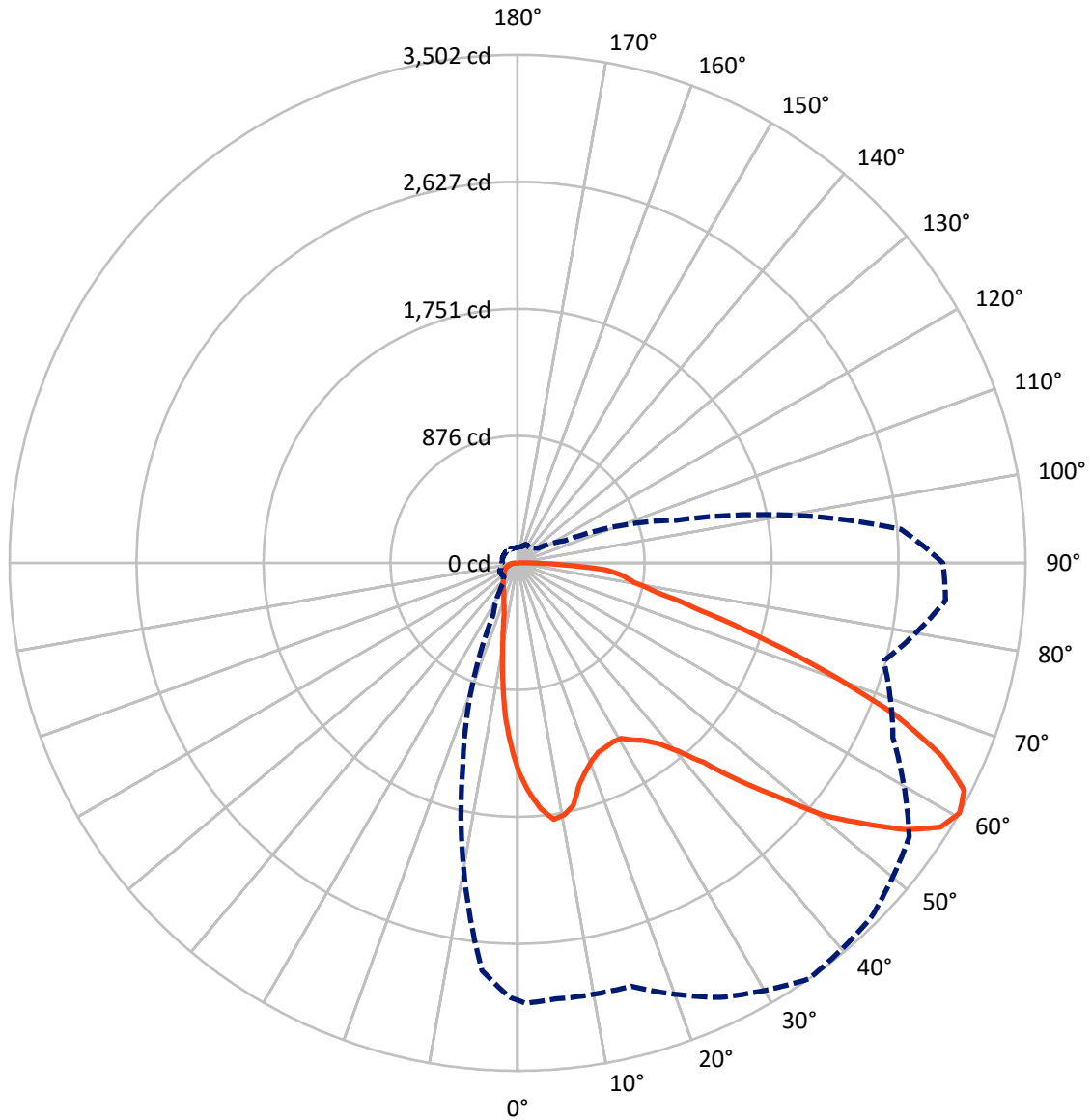
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.3 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	864.0	0.0	864.0
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	3675.9	0.0	3675.9
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	4540.0	0.0	4540.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.7	2.5
10°-20°	237.8	5.2
20°-30°	348.0	7.7
30°-40°	490.3	10.8
40°-50°	673.8	14.8
50°-60°	918.3	20.2
60°-70°	1005.1	22.1
70°-80°	580.3	12.8
80°-90°	173.8	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°	4540.0	100.0
0°-180°	4540.0	100.0

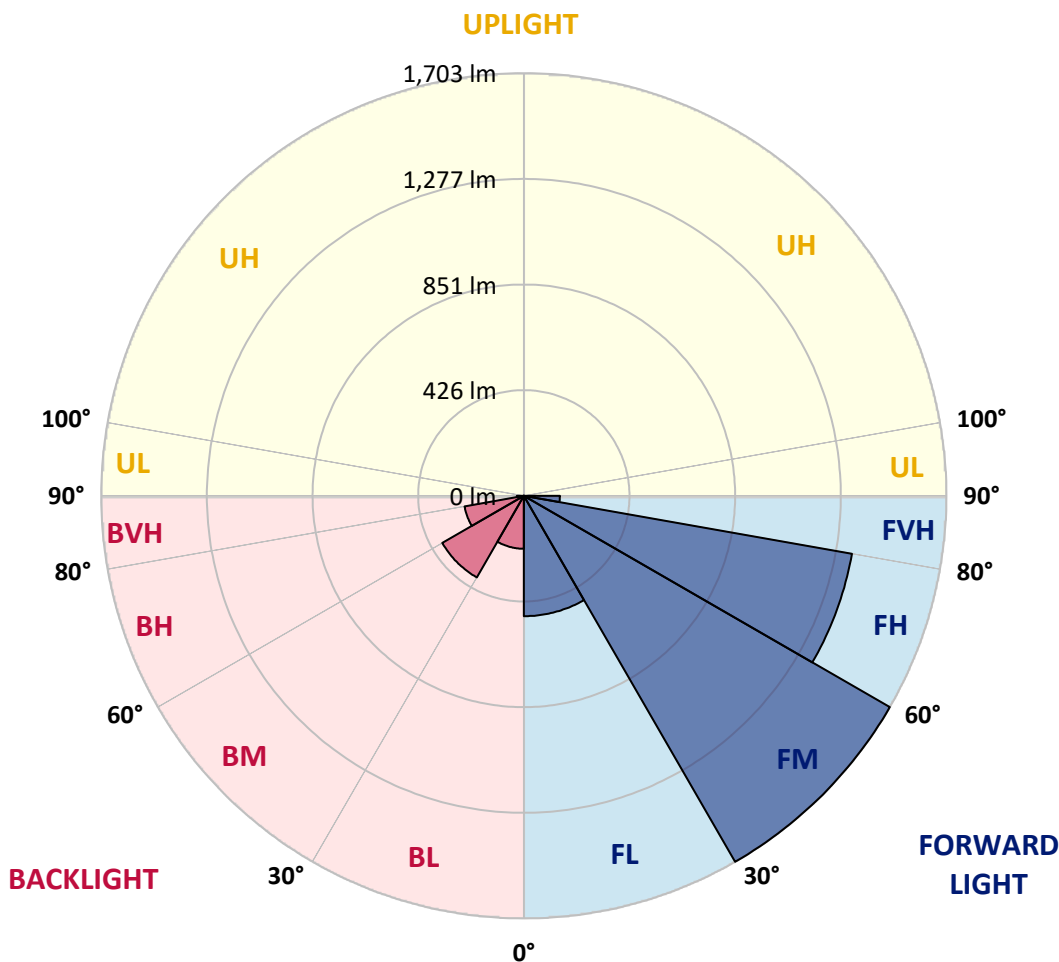


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.0	10.7			
FM (30°-60°)	1702.9	37.5			
FH (60°-80°)	1342.6	29.6			G1/1800
FVH (80°-90°)	145.4	3.2			G2/225
BL (0°-30°)	213.5	4.7	B1/500		
BM (30°-60°)	379.6	8.4	B1/1000		
BH (60°-80°)	242.7	5.3	B1/500		G1/500
BVH (80°-90°)	28.3	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°	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0
2.5°	1552.7	1546.7	1552.7	1574.9	1580.9	1591.0	1591.0	1576.9	1550.7	1538.6	1518.5
5°	1587.0	1576.9	1627.3	1673.6	1709.8	1705.8	1671.6	1643.4	1591.0	1512.5	1438.0
7.5°	1518.5	1528.6	1564.8	1685.7	1770.3	1786.4	1732.0	1675.6	1562.8	1454.1	1353.4
10°	1389.6	1403.7	1482.3	1607.1	1740.0	1766.2	1732.0	1663.5	1528.6	1393.6	1276.8
12.5°	1327.2	1359.4	1405.7	1556.8	1651.4	1713.9	1697.8	1653.4	1502.4	1343.3	1230.5
15°	1327.2	1335.2	1403.7	1530.6	1585.0	1587.0	1593.0	1601.1	1510.5	1365.5	1214.4
17.5°	1369.5	1391.6	1450.0	1528.6	1538.6	1514.5	1514.5	1548.7	1526.6	1427.9	1272.8
20°	1472.2	1464.1	1540.7	1572.9	1518.5	1458.1	1452.1	1510.5	1544.7	1494.3	1379.5
22.5°	1574.9	1611.2	1673.6	1601.1	1500.4	1419.8	1411.8	1484.3	1599.1	1609.1	1502.4
25°	1730.0	1766.2	1798.4	1709.8	1498.4	1409.8	1415.8	1472.2	1665.5	1772.3	1707.8
27.5°	1897.1	1919.3	1965.6	1828.7	1546.7	1397.7	1403.7	1488.3	1728.0	1879.0	1868.9
30°	1991.8	2016.0	2005.9	1850.8	1578.9	1405.7	1389.6	1510.5	1693.7	1879.0	1973.7
32.5°	2084.4	2070.3	2064.3	1887.1	1619.2	1456.1	1415.8	1556.8	1713.9	1909.2	2108.6
35°	2197.2	2177.1	2161.0	1957.5	1685.7	1504.4	1486.3	1617.2	1758.2	1971.6	2217.3
37.5°	2322.1	2322.1	2243.5	2009.9	1764.2	1583.0	1562.8	1703.8	1828.7	2009.9	2366.4
40°	2469.1	2475.1	2336.2	2080.4	1852.8	1707.8	1701.8	1816.6	1897.1	2066.3	2509.4
42.5°	2577.8	2581.9	2416.7	2106.6	1955.5	1881.0	1907.2	1997.8	1975.7	2116.6	2519.4
45°	2652.4	2632.2	2473.1	2181.1	2068.3	2140.8	2148.9	2175.1	2078.4	2146.9	2559.7
47.5°	2688.6	2684.6	2497.3	2267.7	2306.0	2404.6	2451.0	2414.7	2173.0	2114.6	2559.7
50°	2724.9	2690.6	2519.4	2386.5	2537.6	2736.9	2726.9	2660.4	2303.9	2154.9	2521.5
52.5°	2749.0	2718.8	2563.7	2493.3	2759.1	2984.7	3024.9	2902.1	2457.0	2229.4	2539.6
55°	2835.6	2811.5	2696.7	2638.3	3014.9	3246.5	3252.5	3081.3	2618.1	2352.3	2658.4
57.5°	2940.4	2954.4	2879.9	2843.7	3210.2	3437.8	3415.6	3214.2	2755.1	2501.3	2795.3
60°	3014.9	3037.0	3018.9	3022.9	3306.9	3502.2	3451.9	3296.8	2855.8	2614.1	2962.5
62.5°	2974.6	3018.9	3093.4	3077.3	3310.9	3455.9	3385.4	3188.1	2867.8	2761.1	3089.4
65°	2863.8	2867.8	3012.9	3101.5	3129.7	3216.3	3123.6	2960.5	2743.0	2851.7	3071.3
67.5°	2579.9	2612.1	2743.0	2916.2	2797.4	2817.5	2809.4	2573.8	2553.7	2789.3	2932.3
70°	2277.8	2299.9	2442.9	2646.3	2362.4	2267.7	2285.8	2110.6	2193.2	2596.0	2652.4
72.5°	1883.0	1897.1	2060.3	2239.5	1895.1	1725.9	1768.2	1625.2	1742.1	2271.7	2237.5
75°	1421.8	1448.0	1574.9	1786.4	1395.7	1286.9	1329.2	1270.8	1379.5	1870.9	1736.0
77.5°	1011.0	990.9	1147.9	1397.7	1049.3	984.8	988.8	998.9	1115.7	1576.9	1246.6
80°	688.8	694.8	835.8	1025.1	823.7	813.6	803.6	884.1	936.5	1248.6	906.3
82.5°	408.8	408.8	563.9	729.0	650.5	733.1	686.8	759.3	733.1	918.4	594.1
85°	191.3	191.3	290.0	525.6	503.5	604.2	513.6	574.0	541.7	640.4	267.9
87.5°	32.2	28.2	58.4	257.8	207.4	235.6	92.6	306.1	340.4	447.1	66.5
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°	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0
2.5°	1496.4	1482.3	1454.1	1417.8	1387.6	1349.3	1337.3	1311.1	1274.8	1270.8	1254.7
5°	1409.8	1361.4	1301.0	1226.5	1176.1	1123.8	1079.5	1053.3	1023.1	1019.1	1011.0
7.5°	1315.1	1254.7	1154.0	1065.4	978.8	896.2	855.9	805.6	771.3	745.2	733.1
10°	1226.5	1170.1	1045.2	924.4	847.9	793.5	745.2	692.8	650.5	618.3	606.2
12.5°	1168.1	1101.6	966.7	851.9	795.5	733.1	678.7	622.3	567.9	525.6	503.5
15°	1141.9	1079.5	942.5	815.6	733.1	646.5	584.0	527.7	461.2	431.0	420.9
17.5°	1204.3	1111.7	934.5	773.4	656.5	557.9	481.3	420.9	372.6	342.4	330.3
20°	1284.9	1170.1	948.6	723.0	584.0	473.3	388.7	324.2	292.0	269.9	267.9
22.5°	1387.6	1256.7	970.7	686.8	503.5	380.6	304.1	265.8	243.7	241.7	237.6
25°	1570.9	1413.8	1007.0	638.4	439.0	314.2	259.8	237.6	227.6	221.5	225.6
27.5°	1728.0	1516.5	1033.2	608.2	412.9	296.0	251.7	227.6	217.5	215.5	217.5
30°	1820.6	1611.2	1025.1	551.8	360.5	282.0	267.9	259.8	239.7	223.5	223.5
32.5°	1905.2	1671.6	1023.1	501.5	308.1	235.6	223.5	217.5	229.6	237.6	231.6
35°	2022.0	1766.2	1017.0	473.3	286.0	217.5	197.4	181.3	173.2	169.2	175.2
37.5°	2146.9	1830.7	1000.9	469.2	273.9	207.4	191.3	175.2	167.2	163.1	161.1
40°	2283.8	1899.1	982.8	449.1	267.9	201.4	185.3	171.2	161.1	155.1	153.1
42.5°	2372.4	1953.5	964.7	439.0	255.8	197.4	179.2	167.2	157.1	149.0	149.0
45°	2422.8	2018.0	946.6	429.0	241.7	199.4	179.2	163.1	151.0	147.0	143.0
47.5°	2444.9	2066.3	940.5	412.9	229.6	191.3	175.2	159.1	147.0	139.0	136.9
50°	2503.3	2169.0	962.7	400.8	215.5	183.3	185.3	157.1	145.0	134.9	132.9
52.5°	2537.6	2251.6	1011.0	382.6	205.4	173.2	181.3	153.1	139.0	128.9	128.9
55°	2662.4	2388.5	1063.4	368.6	193.3	159.1	167.2	145.0	128.9	122.9	122.9
57.5°	2821.5	2533.5	1107.7	362.5	185.3	149.0	149.0	141.0	122.9	114.8	112.8
60°	2932.3	2652.4	1133.8	358.5	177.2	139.0	132.9	141.0	116.8	108.8	106.7
62.5°	2944.4	2583.9	1107.7	356.5	175.2	128.9	120.8	134.9	110.8	102.7	98.7
65°	2867.8	2444.9	1035.2	348.4	173.2	118.8	112.8	116.8	102.7	96.7	92.6
67.5°	2714.8	2219.4	930.4	344.4	171.2	110.8	102.7	100.7	94.7	88.6	84.6
70°	2358.3	1925.3	807.6	326.3	167.2	104.7	92.6	90.6	84.6	80.6	78.5
72.5°	1979.7	1574.9	666.6	302.1	159.1	94.7	84.6	80.6	78.5	72.5	70.5
75°	1516.5	1212.4	533.7	267.9	139.0	84.6	74.5	70.5	68.5	64.4	62.4
77.5°	1065.4	902.2	394.7	217.5	116.8	76.5	66.5	62.4	60.4	54.4	54.4
80°	723.0	632.4	267.9	151.0	90.6	62.4	58.4	54.4	50.3	46.3	46.3
82.5°	449.1	443.1	193.3	98.7	66.5	50.3	46.3	46.3	40.3	36.3	36.3
85°	205.4	271.9	134.9	68.5	50.3	38.3	38.3	36.3	32.2	26.2	26.2
87.5°	64.4	90.6	70.5	30.2	28.2	22.2	22.2	20.1	20.1	16.1	16.1
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°	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0
2.5°	1270.8	1268.8	1268.8	1260.7	1280.9	1280.9	1292.9	1282.9	1288.9	1290.9	1307.0
5°	1009.0	1025.1	1037.2	1061.3	1075.4	1081.5	1081.5	1097.6	1091.6	1103.6	1127.8
7.5°	739.1	759.3	795.5	825.7	849.9	857.9	855.9	860.0	866.0	851.9	855.9
10°	598.1	584.0	596.1	624.3	646.5	672.7	652.5	650.5	656.5	650.5	662.6
12.5°	499.5	483.3	473.3	473.3	489.4	501.5	495.4	505.5	527.7	533.7	547.8
15°	404.8	390.7	382.6	372.6	388.7	392.7	398.8	412.9	429.0	437.0	453.1
17.5°	324.2	324.2	324.2	316.2	322.2	328.3	330.3	348.4	350.4	358.5	364.5
20°	265.8	271.9	282.0	286.0	292.0	292.0	288.0	298.1	290.0	296.0	300.1
22.5°	239.7	247.7	251.7	253.8	261.8	263.8	253.8	255.8	257.8	251.7	253.8
25°	225.6	229.6	225.6	227.6	229.6	225.6	227.6	231.6	229.6	233.6	231.6
27.5°	219.5	215.5	213.5	211.5	211.5	207.4	209.4	209.4	213.5	215.5	215.5
30°	219.5	213.5	205.4	199.4	199.4	193.3	197.4	201.4	203.4	207.4	207.4
32.5°	225.6	213.5	199.4	193.3	187.3	183.3	187.3	193.3	201.4	203.4	205.4
35°	179.2	185.3	183.3	175.2	173.2	173.2	171.2	171.2	165.1	165.1	163.1
37.5°	161.1	159.1	163.1	165.1	167.2	161.1	161.1	153.1	151.0	153.1	153.1
40°	151.0	151.0	151.0	157.1	159.1	155.1	149.0	145.0	145.0	145.0	147.0
42.5°	147.0	143.0	141.0	145.0	151.0	147.0	141.0	139.0	139.0	141.0	141.0
45°	141.0	139.0	136.9	134.9	143.0	136.9	134.9	132.9	132.9	132.9	134.9
47.5°	134.9	132.9	128.9	128.9	130.9	128.9	126.9	126.9	126.9	130.9	130.9
50°	130.9	128.9	124.9	124.9	124.9	124.9	122.9	122.9	122.9	124.9	126.9
52.5°	124.9	122.9	120.8	118.8	118.8	118.8	118.8	118.8	118.8	120.8	122.9
55°	118.8	116.8	114.8	114.8	116.8	116.8	114.8	116.8	114.8	116.8	118.8
57.5°	112.8	110.8	108.8	110.8	112.8	110.8	110.8	110.8	110.8	110.8	112.8
60°	104.7	104.7	104.7	104.7	108.8	108.8	108.8	108.8	104.7	106.7	108.8
62.5°	100.7	98.7	98.7	100.7	102.7	102.7	104.7	102.7	100.7	102.7	102.7
65°	92.6	92.6	92.6	94.7	94.7	96.7	96.7	96.7	94.7	96.7	96.7
67.5°	86.6	86.6	86.6	86.6	90.6	90.6	90.6	90.6	88.6	88.6	90.6
70°	76.5	78.5	76.5	80.6	84.6	82.6	84.6	84.6	82.6	80.6	84.6
72.5°	70.5	70.5	70.5	70.5	76.5	76.5	76.5	78.5	76.5	74.5	76.5
75°	62.4	62.4	62.4	64.4	68.5	68.5	68.5	68.5	68.5	66.5	66.5
77.5°	54.4	56.4	54.4	56.4	60.4	58.4	60.4	62.4	60.4	58.4	58.4
80°	46.3	46.3	46.3	48.3	50.3	50.3	50.3	52.4	50.3	48.3	48.3
82.5°	36.3	36.3	38.3	38.3	40.3	40.3	40.3	42.3	40.3	38.3	38.3
85°	28.2	28.2	28.2	30.2	30.2	32.2	32.2	34.2	34.2	32.2	32.2
87.5°	18.1	16.1	18.1	18.1	20.1	20.1	18.1	16.1	18.1	16.1	14.1
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°	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0
2.5°	1323.2	1359.4	1385.6	1403.7	1429.9	1480.2	1500.4	1536.6	1546.7	1552.7
5°	1137.9	1176.1	1232.5	1272.8	1319.1	1413.8	1486.3	1540.7	1564.8	1587.0
7.5°	892.2	942.5	1000.9	1053.3	1129.8	1246.6	1341.3	1454.1	1496.4	1518.5
10°	696.8	743.1	807.6	872.0	978.8	1077.5	1212.4	1315.1	1373.5	1389.6
12.5°	588.1	642.4	719.0	797.5	864.0	976.8	1113.7	1262.7	1317.1	1327.2
15°	499.5	574.0	652.5	733.1	809.6	908.3	1055.3	1236.6	1317.1	1327.2
17.5°	412.9	479.3	572.0	658.6	747.2	882.1	1065.4	1258.7	1339.3	1369.5
20°	328.3	392.7	465.2	574.0	694.8	837.8	1087.5	1333.2	1440.0	1472.2
22.5°	271.9	300.1	370.6	475.3	618.3	807.6	1109.7	1450.0	1562.8	1574.9
25°	237.6	257.8	302.1	400.8	557.9	787.5	1162.0	1585.0	1730.0	1730.0
27.5°	221.5	229.6	259.8	348.4	515.6	769.3	1214.4	1734.0	1868.9	1897.1
30°	217.5	237.6	253.8	310.1	469.2	719.0	1262.7	1850.8	1989.8	1991.8
32.5°	213.5	209.4	221.5	269.9	412.9	666.6	1303.0	1969.6	2078.4	2084.4
35°	167.2	175.2	195.4	237.6	370.6	628.3	1323.2	2034.1	2191.2	2197.2
37.5°	157.1	167.2	183.3	219.5	342.4	596.1	1329.2	2158.9	2310.0	2322.1
40°	153.1	161.1	173.2	203.4	320.2	555.8	1341.3	2287.8	2485.2	2469.1
42.5°	145.0	155.1	167.2	195.4	302.1	525.6	1343.3	2358.3	2577.8	2577.8
45°	143.0	149.0	163.1	195.4	282.0	499.5	1311.1	2428.8	2684.6	2652.4
47.5°	134.9	147.0	159.1	189.3	257.8	473.3	1272.8	2465.1	2698.7	2688.6
50°	132.9	145.0	165.1	179.2	243.7	461.2	1264.8	2555.7	2726.9	2724.9
52.5°	128.9	141.0	171.2	171.2	225.6	445.1	1303.0	2596.0	2732.9	2749.0
55°	122.9	141.0	159.1	157.1	209.4	424.9	1345.3	2700.7	2839.7	2835.6
57.5°	118.8	136.9	151.0	143.0	191.3	410.8	1407.7	2801.4	2968.5	2940.4
60°	112.8	136.9	134.9	132.9	177.2	398.8	1460.1	2821.5	2996.7	3014.9
62.5°	108.8	143.0	118.8	122.9	165.1	392.7	1438.0	2670.5	2958.5	2974.6
65°	104.7	122.9	108.8	112.8	161.1	380.6	1351.4	2489.2	2793.3	2863.8
67.5°	96.7	100.7	100.7	104.7	157.1	352.4	1174.1	2163.0	2541.6	2579.9
70°	88.6	90.6	90.6	96.7	153.1	320.2	968.7	1870.9	2205.3	2277.8
72.5°	80.6	80.6	80.6	88.6	141.0	294.0	797.5	1438.0	1832.7	1883.0
75°	70.5	70.5	70.5	78.5	126.9	267.9	628.3	1069.4	1349.3	1421.8
77.5°	62.4	62.4	60.4	70.5	110.8	217.5	453.1	755.2	950.6	1011.0
80°	52.4	50.3	50.3	56.4	86.6	157.1	292.0	533.7	662.6	688.8
82.5°	42.3	40.3	38.3	42.3	62.4	98.7	181.3	372.6	424.9	408.8
85°	40.3	42.3	34.2	32.2	44.3	64.4	114.8	229.6	191.3	191.3
87.5°	16.1	14.1	14.1	12.1	22.2	24.2	50.3	42.3	32.2	32.2
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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