

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: P676280

Luminaire Tested: **CCW-SA-2A-740-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676280  
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-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T2 distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

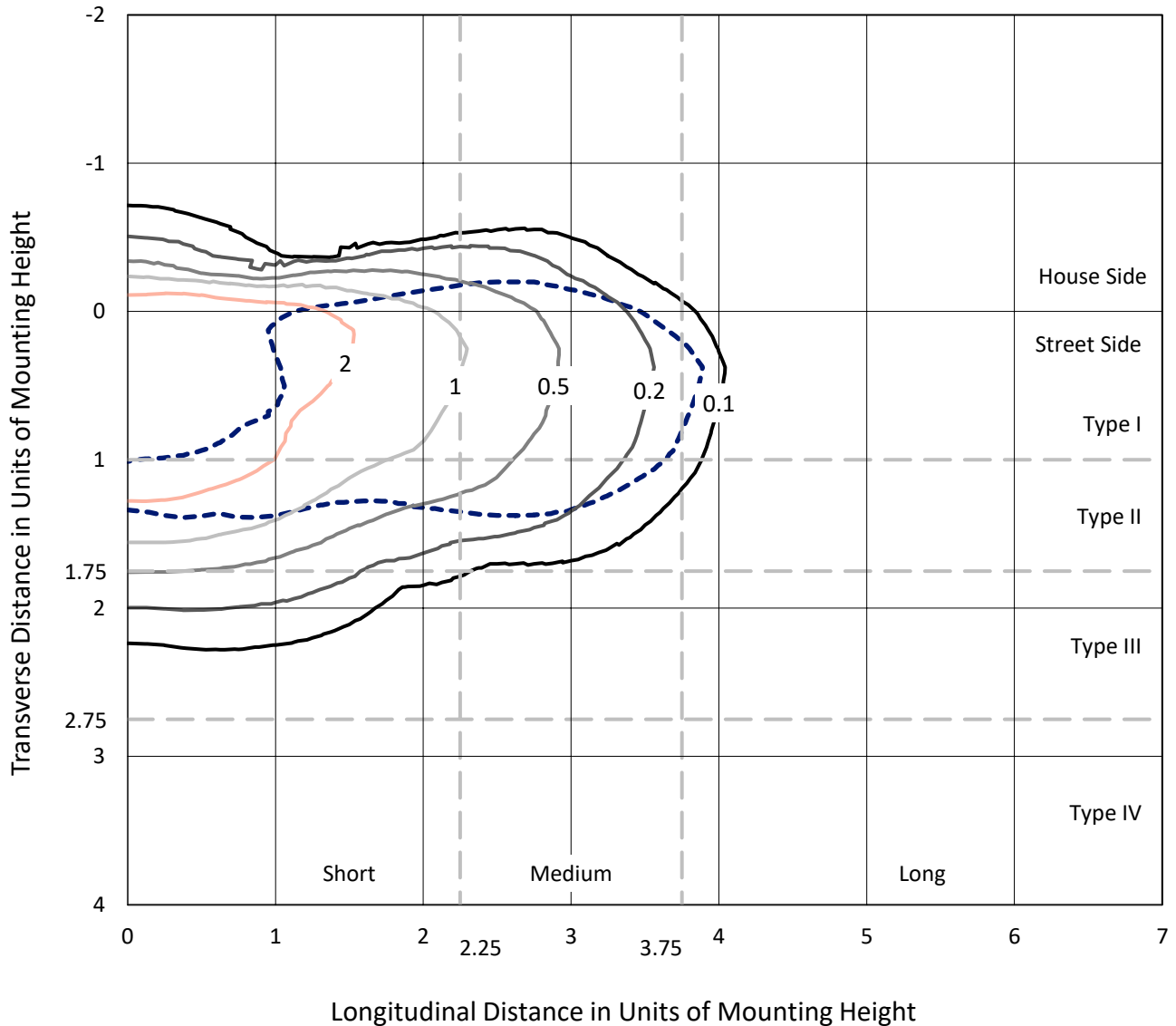
Lumens per Lamp: N/A  
Luminaire Lumens: 4224.3 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

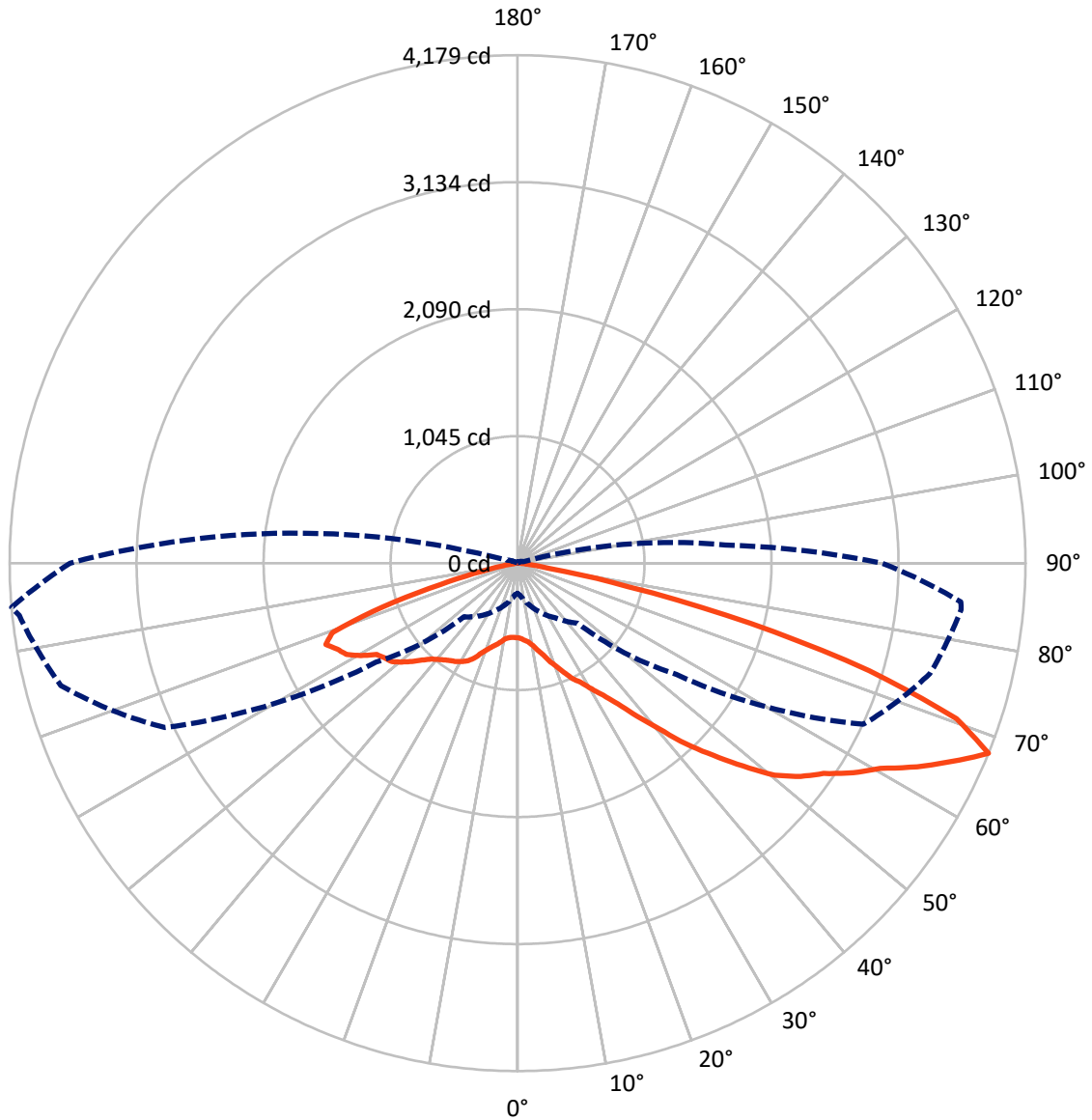
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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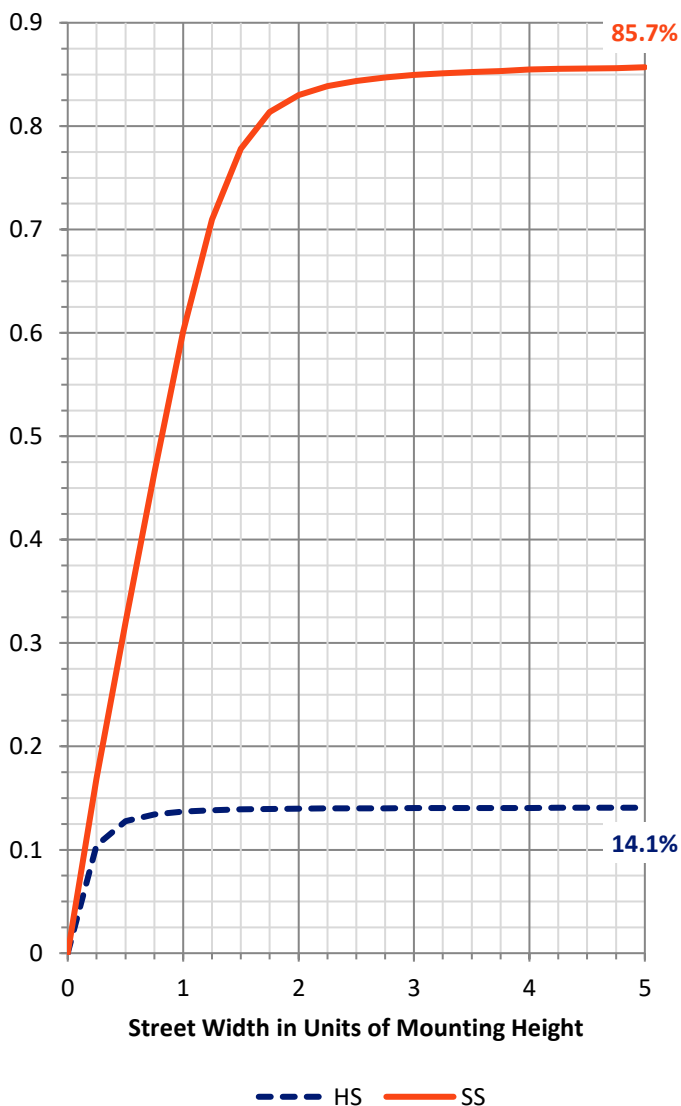
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	600.1	0.0	600.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	3624.2	0.0	3624.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	4224.3	0.0	4224.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.0	1.3
10°-20°	150.6	3.6
20°-30°	250.1	5.9
30°-40°	430.3	10.2
40°-50°	773.3	18.3
50°-60°	1100.9	26.1
60°-70°	1003.7	23.8
70°-80°	427.4	10.1
80°-90°	31.8	0.8
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°	4224.3	100.0
0°-180°	4224.3	100.0



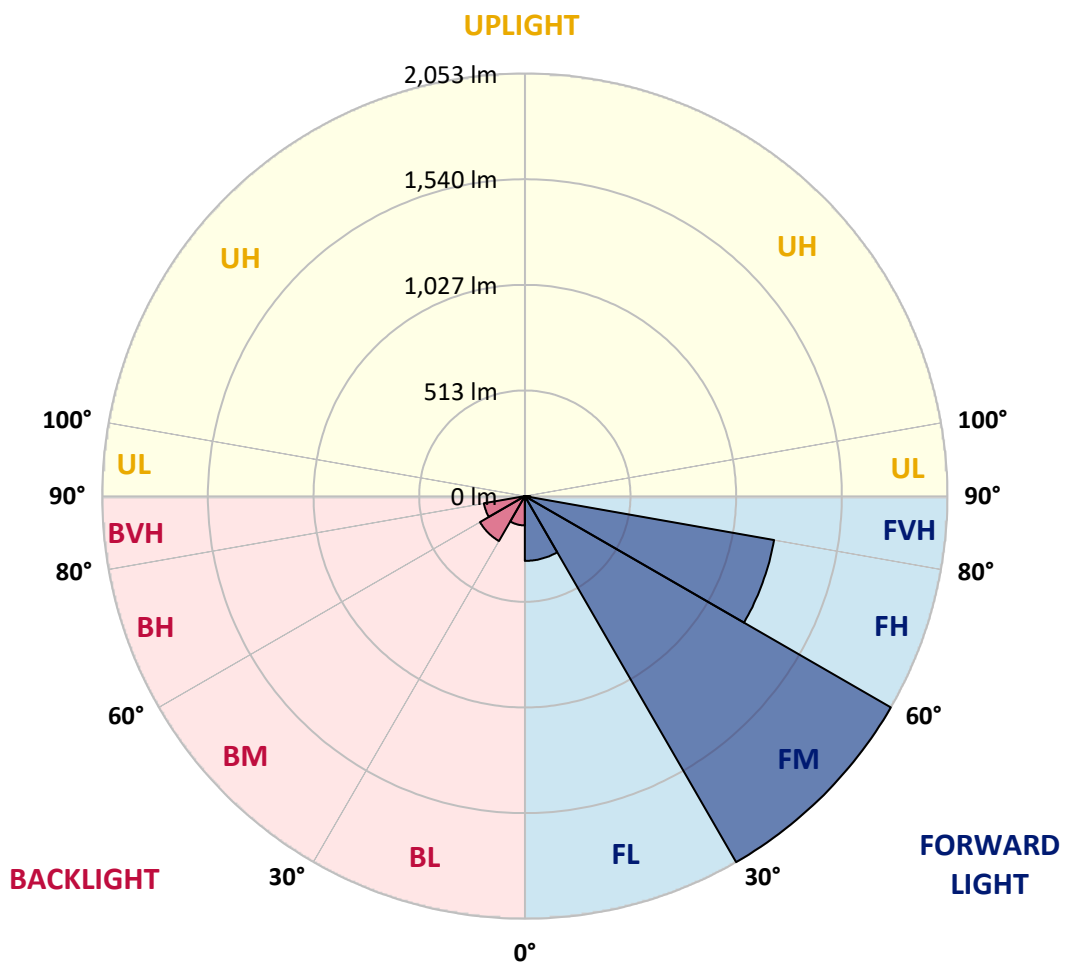
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.7	7.4			
FM (30°-60°)	2053.0	48.6			
FH (60°-80°)	1229.4	29.1			G1/1800
FVH (80°-90°)	27.0	0.6			G1/100
BL (0°-30°)	142.1	3.4	B1/500		
BM (30°-60°)	251.6	6.0	B1/1000		
BH (60°-80°)	201.7	4.8	B1/500		G1/500
BVH (80°-90°)	4.8	0.1			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3
2.5°	636.4	642.5	642.5	640.5	634.4	630.4	628.4	624.3	620.3	620.3	622.3
5°	642.5	636.4	644.5	634.4	634.4	634.4	642.5	638.4	636.4	626.4	626.4
7.5°	642.5	636.4	636.4	642.5	636.4	640.5	650.5	646.5	654.6	636.4	640.5
10°	624.3	622.3	626.4	634.4	636.4	644.5	654.6	674.7	676.7	664.6	662.6
12.5°	588.1	586.1	600.2	604.2	628.4	648.5	678.7	694.8	713.0	706.9	694.8
15°	561.9	565.9	576.0	592.1	614.3	650.5	684.8	721.0	753.2	745.2	741.2
17.5°	572.0	570.0	572.0	582.1	610.2	646.5	704.9	747.2	793.5	793.5	797.6
20°	602.2	608.2	606.2	600.2	614.3	644.5	704.9	779.4	856.0	849.9	849.9
22.5°	654.6	656.6	644.5	640.5	638.4	656.6	717.0	819.7	908.3	920.4	916.4
25°	708.9	710.9	706.9	694.8	678.7	682.8	739.1	851.9	980.8	1001.0	996.9
27.5°	799.6	797.6	787.5	773.4	749.2	731.1	773.4	876.1	1037.2	1071.5	1061.4
30°	890.2	884.2	870.1	851.9	829.8	795.5	815.7	922.4	1107.7	1139.9	1117.8
32.5°	1001.0	988.9	992.9	964.7	918.4	864.0	860.0	964.7	1164.1	1210.4	1192.3
35°	1141.9	1127.9	1107.7	1081.5	1037.2	964.7	942.6	1033.2	1258.8	1293.0	1293.0
37.5°	1327.2	1341.3	1317.2	1208.4	1160.1	1091.6	1045.3	1103.7	1341.3	1423.9	1403.8
40°	1516.6	1528.6	1484.3	1403.8	1299.0	1214.5	1186.3	1218.5	1466.2	1564.9	1526.6
42.5°	1669.6	1685.7	1669.6	1564.9	1482.3	1373.6	1323.2	1353.4	1627.3	1746.2	1695.8
45°	1830.7	1846.9	1828.7	1760.3	1679.7	1617.3	1490.4	1528.6	1796.5	1973.7	1917.3
47.5°	1951.6	1971.7	1939.5	1925.4	1861.0	1850.9	1635.4	1677.7	1973.7	2203.3	2132.8
50°	1979.8	2001.9	2030.1	2046.2	2024.1	2048.3	1830.7	1867.0	2159.0	2414.8	2346.3
52.5°	1913.3	1935.5	1997.9	2072.4	2175.1	2247.6	2028.1	2058.3	2352.4	2590.0	2553.8
55°	1718.0	1738.1	1865.0	1965.7	2211.4	2330.2	2217.4	2344.3	2491.3	2773.3	2684.7
57.5°	1389.7	1413.8	1581.0	1736.1	2090.6	2283.9	2330.2	2582.0	2720.9	2908.2	2805.5
60°	986.9	1001.0	1146.0	1419.9	1756.2	2052.3	2308.1	2759.2	2902.2	3089.5	3035.1
62.5°	568.0	580.0	731.1	988.9	1325.2	1713.9	2209.4	2926.4	3097.6	3288.9	3258.7
65°	376.6	380.6	483.4	624.3	862.0	1262.8	1959.6	3075.4	3290.9	3448.0	3413.8
67.5°	247.7	269.9	350.4	447.1	551.8	698.9	1597.1	3137.8	3512.5	3669.5	3661.5
70°	177.2	185.3	251.8	344.4	414.9	392.7	934.5	2696.8	3502.4	3730.0	3663.5
72.5°	104.7	112.8	167.2	257.8	326.3	249.7	437.0	1907.3	2902.2	2976.7	2958.6
75°	76.5	76.5	102.7	185.3	237.7	179.2	205.4	1206.4	1927.4	2092.6	2090.6
77.5°	54.4	56.4	70.5	110.8	183.3	130.9	112.8	670.7	1053.3	1152.0	1097.6
80°	32.2	34.2	48.3	66.5	132.9	94.7	74.5	306.1	404.8	408.8	388.7
82.5°	24.2	24.2	32.2	46.3	92.6	64.4	46.3	116.8	130.9	118.8	100.7
85°	14.1	12.1	24.2	34.2	54.4	36.3	32.2	54.4	60.4	44.3	40.3
87.5°	4.0	4.0	10.1	12.1	24.2	20.1	14.1	20.1	28.2	16.1	12.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3
2.5°	618.3	612.3	602.2	598.2	584.1	578.0	574.0	563.9	565.9	559.9	559.9
5°	612.3	612.3	592.1	570.0	547.8	533.7	517.6	497.5	497.5	489.4	491.4
7.5°	634.4	618.3	592.1	551.8	515.6	483.4	469.3	449.1	437.0	431.0	431.0
10°	648.5	632.4	588.1	539.8	493.4	453.2	422.9	394.7	378.6	378.6	376.6
12.5°	686.8	662.6	604.2	537.7	469.3	408.8	362.5	330.3	308.1	292.0	296.1
15°	719.0	692.8	612.3	521.6	427.0	342.4	286.0	225.6	195.4	179.2	173.2
17.5°	769.4	721.0	630.4	493.4	362.5	267.9	185.3	134.9	122.9	120.8	120.8
20°	811.7	755.3	632.4	439.1	298.1	171.2	118.8	110.8	104.7	102.7	100.7
22.5°	870.1	799.6	624.3	376.6	213.5	114.8	100.7	92.6	88.6	82.6	82.6
25°	930.5	858.0	608.2	318.2	130.9	98.7	88.6	80.6	72.5	68.5	70.5
27.5°	994.9	902.3	561.9	247.7	100.7	86.6	72.5	66.5	62.4	60.4	60.4
30°	1047.3	930.5	493.4	165.1	90.6	76.5	64.4	58.4	54.4	52.4	52.4
32.5°	1085.6	954.6	416.9	110.8	82.6	68.5	58.4	52.4	48.3	46.3	46.3
35°	1150.0	972.8	346.4	94.7	74.5	60.4	50.4	46.3	42.3	42.3	42.3
37.5°	1248.7	996.9	275.9	86.6	68.5	54.4	48.3	42.3	40.3	38.3	38.3
40°	1335.3	1027.2	197.4	78.5	62.4	50.4	42.3	38.3	36.3	34.2	34.2
42.5°	1460.2	1061.4	128.9	70.5	56.4	46.3	38.3	34.2	32.2	30.2	30.2
45°	1619.3	1117.8	100.7	62.4	50.4	42.3	36.3	32.2	28.2	28.2	26.2
47.5°	1788.4	1186.3	90.6	58.4	46.3	38.3	32.2	28.2	26.2	24.2	24.2
50°	1945.5	1252.7	84.6	54.4	42.3	36.3	30.2	26.2	22.2	20.1	20.1
52.5°	2086.5	1315.2	80.6	50.4	40.3	32.2	26.2	22.2	20.1	18.1	18.1
55°	2161.0	1343.4	78.5	48.3	36.3	30.2	24.2	20.1	18.1	16.1	16.1
57.5°	2277.9	1379.6	76.5	46.3	34.2	26.2	22.2	18.1	16.1	14.1	14.1
60°	2467.2	1498.4	74.5	44.3	32.2	26.2	20.1	16.1	12.1	10.1	10.1
62.5°	2624.3	1597.1	66.5	38.3	28.2	22.2	16.1	12.1	8.1	6.0	6.0
65°	2803.5	1643.4	58.4	34.2	24.2	18.1	12.1	8.1	6.0	2.0	2.0
67.5°	2998.9	1713.9	48.3	30.2	22.2	14.1	10.1	6.0	2.0	0.0	0.0
70°	2896.2	1625.3	40.3	26.2	20.1	12.1	8.1	4.0	0.0	0.0	0.0
72.5°	2269.8	1164.1	32.2	24.2	18.1	12.1	8.1	2.0	0.0	0.0	0.0
75°	1516.6	658.6	28.2	20.1	14.1	10.1	6.0	2.0	0.0	0.0	0.0
77.5°	823.7	296.1	24.2	18.1	12.1	8.1	6.0	2.0	0.0	0.0	0.0
80°	267.9	116.8	20.1	16.1	12.1	8.1	6.0	2.0	0.0	0.0	0.0
82.5°	72.5	36.3	20.1	16.1	12.1	8.1	6.0	2.0	0.0	0.0	0.0
85°	30.2	24.2	20.1	16.1	12.1	8.1	6.0	2.0	0.0	0.0	0.0
87.5°	12.1	8.1	8.1	10.1	8.1	6.0	4.0	2.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3
2.5°	561.9	565.9	568.0	568.0	578.0	588.1	600.2	610.2	610.2	616.3	622.3
5°	493.4	497.5	503.5	521.6	541.8	563.9	586.1	602.2	624.3	634.4	640.5
7.5°	437.0	441.1	457.2	475.3	503.5	541.8	580.0	616.3	638.4	648.5	656.6
10°	378.6	384.7	402.8	435.0	471.3	517.6	561.9	624.3	660.6	680.7	688.8
12.5°	294.0	310.2	334.3	368.6	414.9	485.4	568.0	632.4	694.8	719.0	735.1
15°	185.3	199.4	237.7	292.0	354.5	437.0	551.8	644.5	731.1	755.3	781.4
17.5°	118.8	120.8	132.9	191.3	271.9	376.6	527.7	662.6	771.4	805.6	845.9
20°	100.7	104.7	106.7	114.8	181.3	310.2	477.3	684.8	819.7	866.0	904.3
22.5°	84.6	86.6	90.6	96.7	108.8	225.6	408.8	684.8	862.0	930.5	974.8
25°	68.5	72.5	76.5	82.6	94.7	141.0	338.4	672.7	912.4	996.9	1053.3
27.5°	60.4	60.4	64.4	70.5	80.6	98.7	267.9	636.4	950.6	1037.2	1111.7
30°	52.4	54.4	56.4	62.4	72.5	86.6	185.3	578.0	990.9	1115.8	1200.4
32.5°	46.3	46.3	50.4	54.4	64.4	78.5	118.8	489.4	1043.3	1176.2	1295.0
35°	42.3	42.3	44.3	48.3	58.4	70.5	92.6	414.9	1105.7	1291.0	1421.9
37.5°	38.3	38.3	40.3	44.3	52.4	62.4	84.6	356.5	1170.1	1405.8	1597.1
40°	34.2	34.2	36.3	40.3	46.3	56.4	76.5	288.0	1250.7	1575.0	1788.4
42.5°	30.2	30.2	32.2	36.3	42.3	50.4	66.5	215.5	1357.4	1758.2	2036.2
45°	26.2	26.2	28.2	32.2	36.3	46.3	60.4	165.1	1474.3	1961.7	2253.7
47.5°	22.2	24.2	26.2	30.2	34.2	42.3	54.4	145.0	1589.1	2177.2	2495.4
50°	20.1	20.1	22.2	26.2	32.2	38.3	50.4	143.0	1705.9	2342.3	2743.1
52.5°	18.1	18.1	20.1	24.2	30.2	36.3	48.3	147.0	1802.5	2495.4	2916.3
55°	16.1	16.1	18.1	20.1	26.2	34.2	44.3	151.1	1871.0	2650.5	3055.3
57.5°	14.1	14.1	16.1	20.1	24.2	30.2	40.3	155.1	1981.8	2803.5	3256.7
60°	10.1	10.1	14.1	18.1	22.2	26.2	38.3	159.1	2159.0	3015.0	3427.9
62.5°	6.0	6.0	8.1	14.1	18.1	24.2	34.2	151.1	2324.2	3286.9	3689.7
65°	2.0	4.0	6.0	8.1	14.1	20.1	28.2	137.0	2463.1	3558.8	3931.4
67.5°	0.0	0.0	2.0	6.0	12.1	16.1	24.2	100.7	2485.3	3681.6	4179.1
70°	0.0	0.0	2.0	6.0	10.1	16.1	22.2	56.4	2116.7	3288.9	3830.7
72.5°	0.0	0.0	0.0	4.0	10.1	14.1	20.1	42.3	1560.9	2479.3	3027.1
75°	0.0	0.0	0.0	2.0	8.1	12.1	18.1	32.2	948.6	1653.5	1975.8
77.5°	0.0	0.0	0.0	2.0	6.0	12.1	18.1	28.2	334.3	787.5	928.5
80°	0.0	0.0	0.0	4.0	8.1	12.1	16.1	24.2	80.6	197.4	265.9
82.5°	0.0	0.0	0.0	2.0	6.0	10.1	14.1	20.1	32.2	58.4	92.6
85°	0.0	0.0	0.0	2.0	4.0	10.1	14.1	18.1	22.2	28.2	40.3
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	6.0	8.1	8.1	8.1	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):**

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3
2.5°	620.3	628.4	632.4	640.5	644.5	642.5	640.5	646.5	642.5	636.4
5°	642.5	642.5	648.5	650.5	650.5	644.5	648.5	646.5	642.5	642.5
7.5°	666.6	676.7	676.7	664.6	662.6	658.6	658.6	642.5	636.4	642.5
10°	690.8	698.9	700.9	686.8	668.7	660.6	650.5	630.4	620.3	624.3
12.5°	741.2	741.2	719.0	702.9	678.7	650.5	626.4	598.2	584.1	588.1
15°	777.4	785.5	755.3	719.0	676.7	624.3	598.2	576.0	568.0	561.9
17.5°	847.9	831.8	783.5	731.1	670.7	616.3	598.2	578.0	572.0	572.0
20°	908.3	900.3	827.8	733.1	668.7	632.4	620.3	610.2	608.2	602.2
22.5°	990.9	954.6	862.0	755.3	690.8	658.6	654.6	664.6	658.6	654.6
25°	1053.3	1023.1	888.2	787.5	725.0	715.0	721.0	731.1	715.0	708.9
27.5°	1137.9	1081.5	938.5	829.8	771.4	781.4	801.6	803.6	793.5	799.6
30°	1216.5	1156.0	976.8	878.1	849.9	860.0	890.2	912.4	898.3	890.2
32.5°	1329.3	1236.6	1053.3	958.7	948.6	974.8	1009.0	1023.1	1005.0	1001.0
35°	1448.1	1329.3	1131.9	1049.3	1067.4	1103.7	1133.9	1158.1	1129.9	1141.9
37.5°	1633.4	1478.3	1264.8	1192.3	1200.4	1214.5	1270.8	1337.3	1351.4	1327.2
40°	1826.7	1639.4	1387.7	1331.3	1349.4	1387.7	1454.1	1516.6	1548.8	1516.6
42.5°	2050.3	1794.5	1577.0	1510.5	1528.6	1583.0	1671.6	1722.0	1718.0	1669.6
45°	2326.2	2010.0	1754.2	1671.6	1738.1	1786.4	1875.1	1881.1	1842.8	1830.7
47.5°	2537.7	2191.3	1945.5	1893.2	1983.8	1985.8	2006.0	2008.0	1965.7	1951.6
50°	2771.3	2400.7	2159.0	2082.5	2235.6	2165.1	2110.7	2074.4	2010.0	1979.8
52.5°	3000.9	2549.7	2356.4	2277.9	2437.0	2249.7	2151.0	2040.2	1945.5	1913.3
55°	3123.7	2795.5	2644.4	2461.1	2481.3	2273.8	2026.1	1887.1	1726.0	1718.0
57.5°	3268.8	2960.6	2888.1	2586.0	2406.8	2104.7	1766.3	1583.0	1409.8	1389.7
60°	3439.9	3222.4	3145.9	2565.9	2142.9	1768.3	1399.7	1164.1	1001.0	986.9
62.5°	3631.3	3532.6	3305.0	2368.5	1701.8	1244.7	924.4	727.1	576.0	568.0
65°	3933.4	3792.4	3389.6	1993.9	1125.8	797.6	614.3	471.3	380.6	376.6
67.5°	4122.7	3891.1	3200.3	1421.9	624.3	527.7	431.0	342.4	263.8	247.7
70°	3854.8	3570.9	2531.6	813.7	362.5	400.8	332.3	229.6	181.3	177.2
72.5°	3079.4	2650.5	1703.9	382.7	225.6	314.2	241.7	155.1	108.8	104.7
75°	2100.6	1667.6	1069.4	177.2	159.1	229.6	177.2	90.6	76.5	76.5
77.5°	938.5	849.9	547.8	108.8	118.8	175.2	102.7	62.4	56.4	54.4
80°	286.0	300.1	223.6	74.5	88.6	132.9	62.4	42.3	34.2	32.2
82.5°	96.7	112.8	100.7	44.3	60.4	94.7	42.3	28.2	24.2	24.2
85°	46.3	56.4	50.4	28.2	32.2	46.3	34.2	22.2	14.1	14.1
87.5°	18.1	26.2	18.1	12.1	18.1	24.2	14.1	10.1	4.0	4.0
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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