

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: P676235

Luminaire Tested: **CCW-SA-1F-722-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676235  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-722-U-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
T2 distribution lens and House Side Shield  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4263.8 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

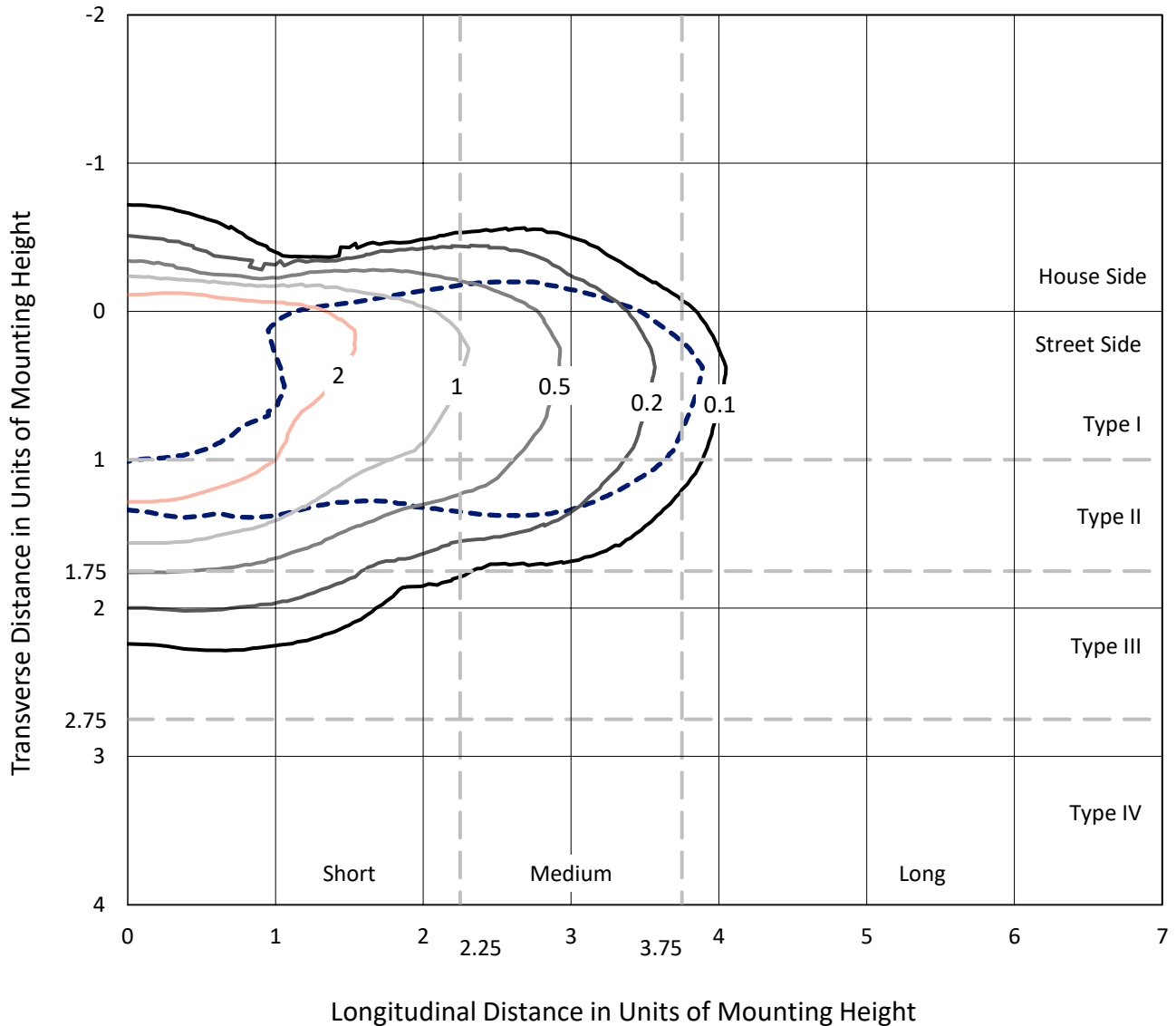
Input Watts (W): 67  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

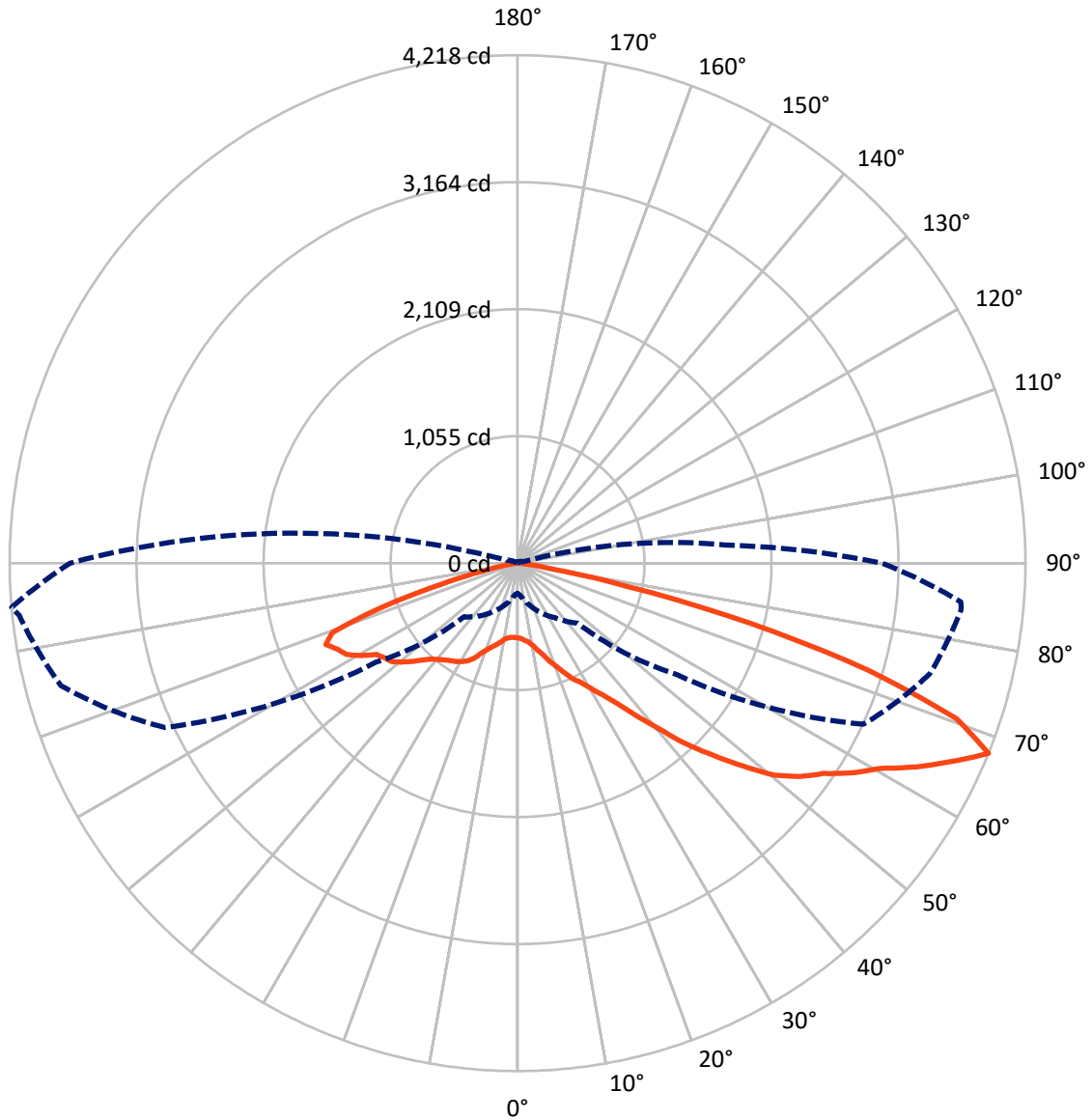
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 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	605.7	0.0	605.7
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	3658.1	0.0	3658.1
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	4263.8	0.0	4263.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.5	1.3
10°-20°	152.0	3.6
20°-30°	252.5	5.9
30°-40°	434.4	10.2
40°-50°	780.6	18.3
50°-60°	1111.2	26.1
60°-70°	1013.1	23.8
70°-80°	431.4	10.1
80°-90°	32.1	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°	4263.8	100.0
0°-180°	4263.8	100.0



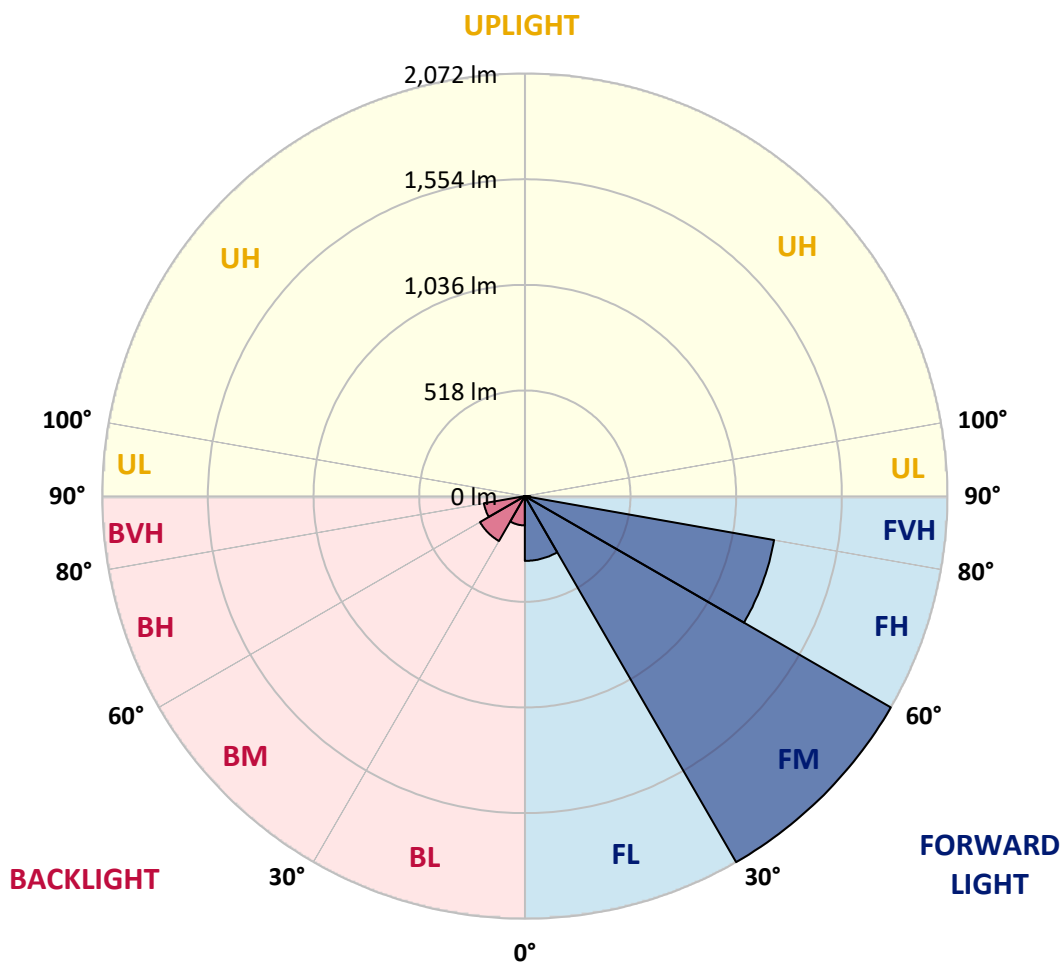
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.6	7.4			
FM (30°-60°)	2072.2	48.6			
FH (60°-80°)	1240.9	29.1			G1/1800
FVH (80°-90°)	27.3	0.6			G1/100
BL (0°-30°)	143.4	3.4	B1/500		
BM (30°-60°)	254.0	6.0	B1/1000		
BH (60°-80°)	203.5	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°	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
2.5°	642.4	648.5	648.5	646.4	640.3	636.3	634.2	630.2	626.1	626.1	628.2
5°	648.5	642.4	650.5	640.3	640.3	640.3	648.5	644.4	642.4	632.2	632.2
7.5°	648.5	642.4	642.4	648.5	642.4	646.4	656.6	652.5	660.7	642.4	646.4
10°	630.2	628.2	632.2	640.3	642.4	650.5	660.7	681.0	683.0	670.8	668.8
12.5°	593.6	591.6	605.8	609.9	634.2	654.6	685.1	701.3	719.6	713.5	701.3
15°	567.2	571.2	581.4	597.7	620.0	656.6	691.2	727.8	760.3	752.2	748.1
17.5°	577.3	575.3	577.3	587.5	616.0	652.5	711.5	754.2	800.9	800.9	805.0
20°	607.8	613.9	611.9	605.8	620.0	650.5	711.5	786.7	864.0	857.9	857.9
22.5°	660.7	662.7	650.5	646.4	644.4	662.7	723.7	827.4	916.8	929.0	924.9
25°	715.6	717.6	713.5	701.3	685.1	689.1	746.1	859.9	990.0	1010.3	1006.3
27.5°	807.0	805.0	794.8	780.6	756.2	737.9	780.6	884.3	1046.9	1081.5	1071.3
30°	898.5	892.4	878.2	859.9	837.5	803.0	823.3	931.0	1118.1	1150.6	1128.2
32.5°	1010.3	998.1	1002.2	973.7	927.0	872.1	868.0	973.7	1175.0	1221.7	1203.4
35°	1152.6	1138.4	1118.1	1091.6	1046.9	973.7	951.4	1042.9	1270.5	1305.1	1305.1
37.5°	1339.6	1353.9	1329.5	1219.7	1170.9	1101.8	1055.0	1114.0	1353.9	1437.2	1416.9
40°	1530.7	1542.9	1498.2	1416.9	1311.2	1225.8	1197.3	1229.9	1479.9	1579.5	1540.9
42.5°	1685.2	1701.5	1685.2	1579.5	1496.2	1386.4	1335.6	1366.1	1642.5	1762.5	1711.7
45°	1847.9	1864.1	1845.8	1776.7	1695.4	1632.4	1504.3	1542.9	1813.3	1992.2	1935.3
47.5°	1969.8	1990.2	1957.6	1943.4	1878.4	1868.2	1650.7	1693.4	1992.2	2223.9	2152.8
50°	1998.3	2020.7	2049.1	2065.4	2043.0	2067.4	1847.9	1884.5	2179.2	2437.4	2368.3
52.5°	1931.2	1953.6	2016.6	2091.8	2195.5	2268.7	2047.1	2077.6	2374.4	2614.2	2577.7
55°	1734.0	1754.4	1882.4	1984.1	2232.1	2352.0	2238.2	2366.2	2514.6	2799.2	2709.8
57.5°	1402.7	1427.1	1595.8	1752.3	2110.1	2305.3	2352.0	2606.1	2746.4	2935.4	2831.8
60°	996.1	1010.3	1156.7	1433.2	1772.6	2071.5	2329.6	2785.0	2929.3	3118.4	3063.5
62.5°	573.3	585.5	737.9	998.1	1337.6	1730.0	2230.0	2953.7	3126.5	3319.6	3289.2
65°	380.1	384.2	487.9	630.2	870.1	1274.6	1978.0	3104.2	3321.7	3480.2	3445.7
67.5°	250.0	272.4	353.7	451.3	557.0	705.4	1612.1	3167.2	3545.3	3703.9	3695.7
70°	178.9	187.0	254.1	347.6	418.8	396.4	943.2	2722.0	3535.1	3764.8	3697.8
72.5°	105.7	113.8	168.7	260.2	329.3	252.1	441.1	1925.1	2929.3	3004.6	2986.3
75°	77.2	77.2	103.7	187.0	239.9	180.9	207.4	1217.7	1945.4	2112.1	2110.1
77.5°	54.9	56.9	71.1	111.8	185.0	132.1	113.8	676.9	1063.2	1162.8	1107.9
80°	32.5	34.6	48.8	67.1	134.2	95.5	75.2	309.0	408.6	412.7	392.3
82.5°	24.4	24.4	32.5	46.8	93.5	65.1	46.8	117.9	132.1	119.9	101.6
85°	14.2	12.2	24.4	34.6	54.9	36.6	32.5	54.9	61.0	44.7	40.7
87.5°	4.1	4.1	10.2	12.2	24.4	20.3	14.2	20.3	28.5	16.3	12.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
2.5°	624.1	618.0	607.8	603.8	589.5	583.4	579.4	569.2	571.2	565.1	565.1
5°	618.0	618.0	597.7	575.3	552.9	538.7	522.4	502.1	502.1	494.0	496.0
7.5°	640.3	624.1	597.7	557.0	520.4	487.9	473.7	453.3	441.1	435.0	435.0
10°	654.6	638.3	593.6	544.8	498.0	457.4	426.9	398.4	382.2	382.2	380.1
12.5°	693.2	668.8	609.9	542.8	473.7	412.7	365.9	333.4	311.0	294.8	298.8
15°	725.7	699.3	618.0	526.5	431.0	345.6	288.7	227.7	197.2	180.9	174.8
17.5°	776.5	727.8	636.3	498.0	365.9	270.4	187.0	136.2	124.0	122.0	122.0
20°	819.2	762.3	638.3	443.2	300.9	172.8	119.9	111.8	105.7	103.7	101.6
22.5°	878.2	807.0	630.2	380.1	215.5	115.9	101.6	93.5	89.4	83.3	83.3
25°	939.2	866.0	613.9	321.2	132.1	99.6	89.4	81.3	73.2	69.1	71.1
27.5°	1004.2	910.7	567.2	250.0	101.6	87.4	73.2	67.1	63.0	61.0	61.0
30°	1057.1	939.2	498.0	166.7	91.5	77.2	65.1	59.0	54.9	52.9	52.9
32.5°	1095.7	963.6	420.8	111.8	83.3	69.1	59.0	52.9	48.8	46.8	46.8
35°	1160.8	981.9	349.7	95.5	75.2	61.0	50.8	46.8	42.7	42.7	42.7
37.5°	1260.4	1006.3	278.5	87.4	69.1	54.9	48.8	42.7	40.7	38.6	38.6
40°	1347.8	1036.8	199.2	79.3	63.0	50.8	42.7	38.6	36.6	34.6	34.6
42.5°	1473.8	1071.3	130.1	71.1	56.9	46.8	38.6	34.6	32.5	30.5	30.5
45°	1634.4	1128.2	101.6	63.0	50.8	42.7	36.6	32.5	28.5	28.5	26.4
47.5°	1805.2	1197.3	91.5	59.0	46.8	38.6	32.5	28.5	26.4	24.4	24.4
50°	1963.7	1264.4	85.4	54.9	42.7	36.6	30.5	26.4	22.4	20.3	20.3
52.5°	2106.0	1327.5	81.3	50.8	40.7	32.5	26.4	22.4	20.3	18.3	18.3
55°	2181.2	1355.9	79.3	48.8	36.6	30.5	24.4	20.3	18.3	16.3	16.3
57.5°	2299.2	1392.5	77.2	46.8	34.6	26.4	22.4	18.3	16.3	14.2	14.2
60°	2490.2	1512.4	75.2	44.7	32.5	26.4	20.3	16.3	12.2	10.2	10.2
62.5°	2648.8	1612.1	67.1	38.6	28.5	22.4	16.3	12.2	8.1	6.1	6.1
65°	2829.7	1658.8	59.0	34.6	24.4	18.3	12.2	8.1	6.1	2.0	2.0
67.5°	3026.9	1730.0	48.8	30.5	22.4	14.2	10.2	6.1	2.0	0.0	0.0
70°	2923.2	1640.5	40.7	26.4	20.3	12.2	8.1	4.1	0.0	0.0	0.0
72.5°	2291.0	1175.0	32.5	24.4	18.3	12.2	8.1	2.0	0.0	0.0	0.0
75°	1530.7	664.7	28.5	20.3	14.2	10.2	6.1	2.0	0.0	0.0	0.0
77.5°	831.4	298.8	24.4	18.3	12.2	8.1	6.1	2.0	0.0	0.0	0.0
80°	270.4	117.9	20.3	16.3	12.2	8.1	6.1	2.0	0.0	0.0	0.0
82.5°	73.2	36.6	20.3	16.3	12.2	8.1	6.1	2.0	0.0	0.0	0.0
85°	30.5	24.4	20.3	16.3	12.2	8.1	6.1	2.0	0.0	0.0	0.0
87.5°	12.2	8.1	8.1	10.2	8.1	6.1	4.1	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°	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
2.5°	567.2	571.2	573.3	573.3	583.4	593.6	605.8	616.0	616.0	622.1	628.2
5°	498.0	502.1	508.2	526.5	546.8	569.2	591.6	607.8	630.2	640.3	646.4
7.5°	441.1	445.2	461.5	479.8	508.2	546.8	585.5	622.1	644.4	654.6	662.7
10°	382.2	388.3	406.6	439.1	475.7	522.4	567.2	630.2	666.8	687.1	695.2
12.5°	296.8	313.1	337.5	372.0	418.8	489.9	573.3	638.3	701.3	725.7	742.0
15°	187.0	201.3	239.9	294.8	357.8	441.1	557.0	650.5	737.9	762.3	788.7
17.5°	119.9	122.0	134.2	193.1	274.4	380.1	532.6	668.8	778.6	813.1	853.8
20°	101.6	105.7	107.7	115.9	183.0	313.1	481.8	691.2	827.4	874.1	912.8
22.5°	85.4	87.4	91.5	97.6	109.8	227.7	412.7	691.2	870.1	939.2	983.9
25°	69.1	73.2	77.2	83.3	95.5	142.3	341.5	679.0	920.9	1006.3	1063.2
27.5°	61.0	61.0	65.1	71.1	81.3	99.6	270.4	642.4	959.5	1046.9	1122.1
30°	52.9	54.9	56.9	63.0	73.2	87.4	187.0	583.4	1000.2	1126.2	1211.6
32.5°	46.8	46.8	50.8	54.9	65.1	79.3	119.9	494.0	1053.0	1187.2	1307.1
35°	42.7	42.7	44.7	48.8	59.0	71.1	93.5	418.8	1116.0	1303.1	1435.2
37.5°	38.6	38.6	40.7	44.7	52.9	63.0	85.4	359.8	1181.1	1418.9	1612.1
40°	34.6	34.6	36.6	40.7	46.8	56.9	77.2	290.7	1262.4	1589.7	1805.2
42.5°	30.5	30.5	32.5	36.6	42.7	50.8	67.1	217.5	1370.1	1774.7	2055.2
45°	26.4	26.4	28.5	32.5	36.6	46.8	61.0	166.7	1488.0	1980.0	2274.8
47.5°	22.4	24.4	26.4	30.5	34.6	42.7	54.9	146.4	1603.9	2197.5	2518.7
50°	20.3	20.3	22.4	26.4	32.5	38.6	50.8	144.3	1721.8	2364.2	2768.7
52.5°	18.3	18.3	20.3	24.4	30.5	36.6	48.8	148.4	1819.4	2518.7	2943.6
55°	16.3	16.3	18.3	20.3	26.4	34.6	44.7	152.5	1888.5	2675.2	3083.8
57.5°	14.2	14.2	16.3	20.3	24.4	30.5	40.7	156.5	2000.3	2829.7	3287.1
60°	10.2	10.2	14.2	18.3	22.4	26.4	38.6	160.6	2179.2	3043.2	3459.9
62.5°	6.1	6.1	8.1	14.2	18.3	24.4	34.6	152.5	2345.9	3317.6	3724.2
65°	2.0	4.1	6.1	8.1	14.2	20.3	28.5	138.2	2486.2	3592.0	3968.1
67.5°	0.0	0.0	2.0	6.1	12.2	16.3	24.4	101.6	2508.5	3716.1	4218.2
70°	0.0	0.0	2.0	6.1	10.2	16.3	22.4	56.9	2136.5	3319.6	3866.5
72.5°	0.0	0.0	0.0	4.1	10.2	14.2	20.3	42.7	1575.5	2502.4	3055.4
75°	0.0	0.0	0.0	2.0	8.1	12.2	18.3	32.5	957.5	1669.0	1994.2
77.5°	0.0	0.0	0.0	2.0	6.1	12.2	18.3	28.5	337.5	794.8	937.1
80°	0.0	0.0	0.0	4.1	8.1	12.2	16.3	24.4	81.3	199.2	268.3
82.5°	0.0	0.0	0.0	2.0	6.1	10.2	14.2	20.3	32.5	59.0	93.5
85°	0.0	0.0	0.0	2.0	4.1	10.2	14.2	18.3	22.4	28.5	40.7
87.5°	0.0	0.0	0.0	0.0	2.0	4.1	6.1	8.1	8.1	8.1	14.2
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):**

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
2.5°	626.1	634.2	638.3	646.4	650.5	648.5	646.4	652.5	648.5	642.4
5°	648.5	648.5	654.6	656.6	656.6	650.5	654.6	652.5	648.5	648.5
7.5°	672.9	683.0	683.0	670.8	668.8	664.7	664.7	648.5	642.4	648.5
10°	697.3	705.4	707.4	693.2	674.9	666.8	656.6	636.3	626.1	630.2
12.5°	748.1	748.1	725.7	709.5	685.1	656.6	632.2	603.8	589.5	593.6
15°	784.7	792.8	762.3	725.7	683.0	630.2	603.8	581.4	573.3	567.2
17.5°	855.8	839.6	790.8	737.9	676.9	622.1	603.8	583.4	577.3	577.3
20°	916.8	908.7	835.5	740.0	674.9	638.3	626.1	616.0	613.9	607.8
22.5°	1000.2	963.6	870.1	762.3	697.3	664.7	660.7	670.8	664.7	660.7
25°	1063.2	1032.7	896.5	794.8	731.8	721.7	727.8	737.9	721.7	715.6
27.5°	1148.6	1091.6	947.3	837.5	778.6	788.7	809.1	811.1	800.9	807.0
30°	1227.8	1166.9	985.9	886.3	857.9	868.0	898.5	920.9	906.7	898.5
32.5°	1341.7	1248.2	1063.2	967.6	957.5	983.9	1018.5	1032.7	1014.4	1010.3
35°	1461.6	1341.7	1142.5	1059.1	1077.4	1114.0	1144.5	1168.9	1140.4	1152.6
37.5°	1648.6	1492.1	1276.6	1203.4	1211.6	1225.8	1282.7	1349.8	1364.0	1339.6
40°	1843.8	1654.7	1400.6	1343.7	1362.0	1400.6	1467.7	1530.7	1563.3	1530.7
42.5°	2069.4	1811.3	1591.7	1524.6	1542.9	1597.8	1687.3	1738.1	1734.0	1685.2
45°	2347.9	2028.8	1770.6	1687.3	1754.4	1803.1	1892.6	1898.7	1860.1	1847.9
47.5°	2561.4	2211.7	1963.7	1910.9	2002.4	2004.4	2024.7	2026.8	1984.1	1969.8
50°	2797.2	2423.2	2179.2	2102.0	2256.5	2185.3	2130.4	2093.8	2028.8	1998.3
52.5°	3028.9	2573.6	2378.4	2299.2	2459.7	2270.7	2171.1	2059.3	1963.7	1931.2
55°	3153.0	2821.6	2669.1	2484.1	2504.5	2295.1	2045.0	1904.8	1742.2	1734.0
57.5°	3299.3	2988.3	2915.1	2610.2	2429.3	2124.3	1782.8	1597.8	1423.0	1402.7
60°	3472.1	3252.6	3175.3	2589.9	2163.0	1784.8	1412.8	1175.0	1010.3	996.1
62.5°	3665.2	3565.6	3335.9	2390.6	1717.8	1256.3	933.1	733.9	581.4	573.3
65°	3970.2	3827.9	3421.3	2012.5	1136.4	805.0	620.0	475.7	384.2	380.1
67.5°	4161.2	3927.5	3230.2	1435.2	630.2	532.6	435.0	345.6	266.3	250.0
70°	3890.9	3604.2	2555.3	821.3	365.9	404.5	335.4	231.7	183.0	178.9
72.5°	3108.2	2675.2	1719.8	386.2	227.7	317.1	243.9	156.5	109.8	105.7
75°	2120.3	1683.2	1079.4	178.9	160.6	231.7	178.9	91.5	77.2	77.2
77.5°	947.3	857.9	552.9	109.8	119.9	176.9	103.7	63.0	56.9	54.9
80°	288.7	302.9	225.6	75.2	89.4	134.2	63.0	42.7	34.6	32.5
82.5°	97.6	113.8	101.6	44.7	61.0	95.5	42.7	28.5	24.4	24.4
85°	46.8	56.9	50.8	28.5	32.5	46.8	34.6	22.4	14.2	14.2
87.5°	18.3	26.4	18.3	12.2	18.3	24.4	14.2	10.2	4.1	4.1
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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