

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: P676313

Luminaire Tested: **CCW-SA-2A-827-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676313  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-827-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) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

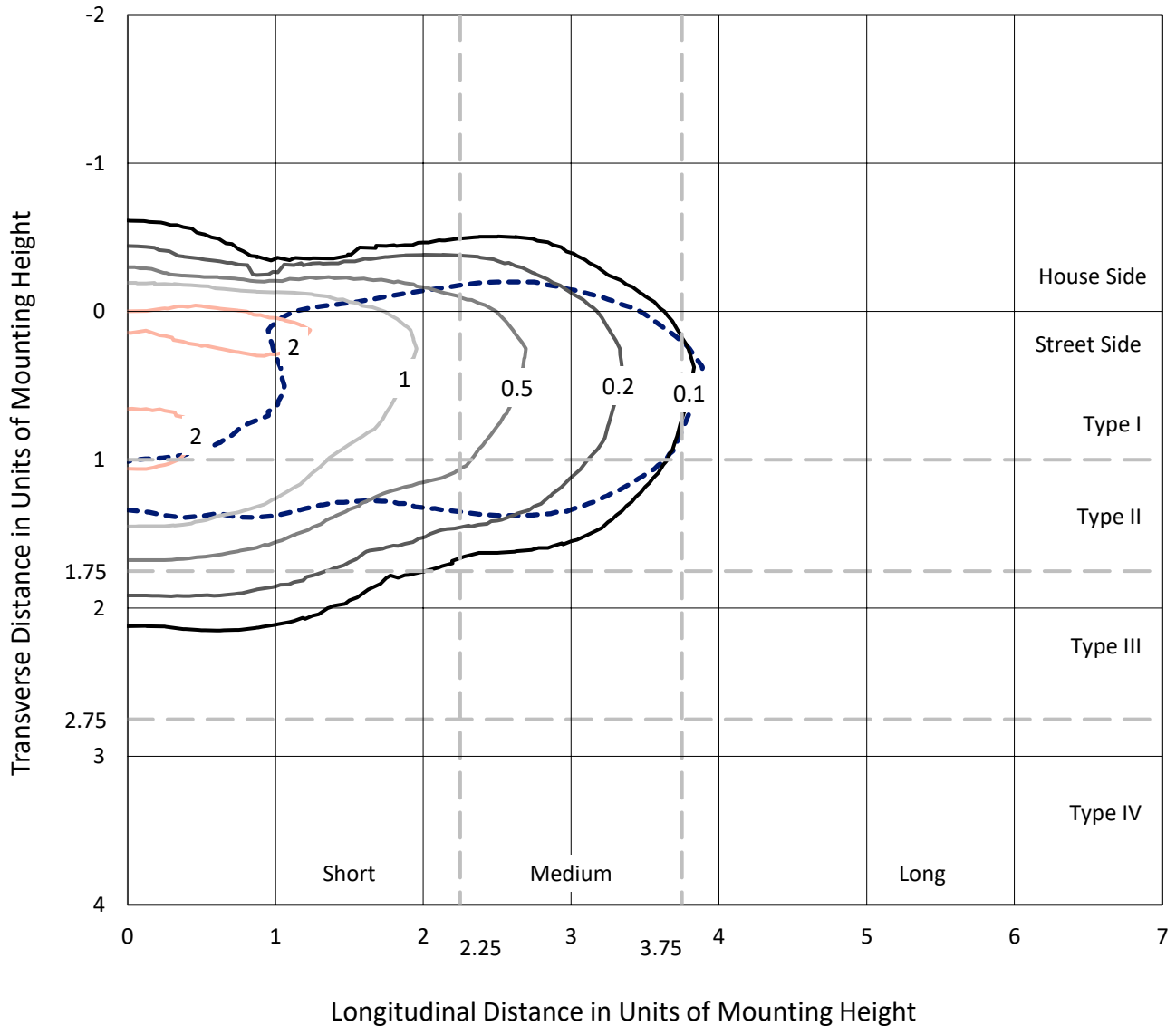
Lumens per Lamp: N/A  
Luminaire Lumens: 3105.3 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

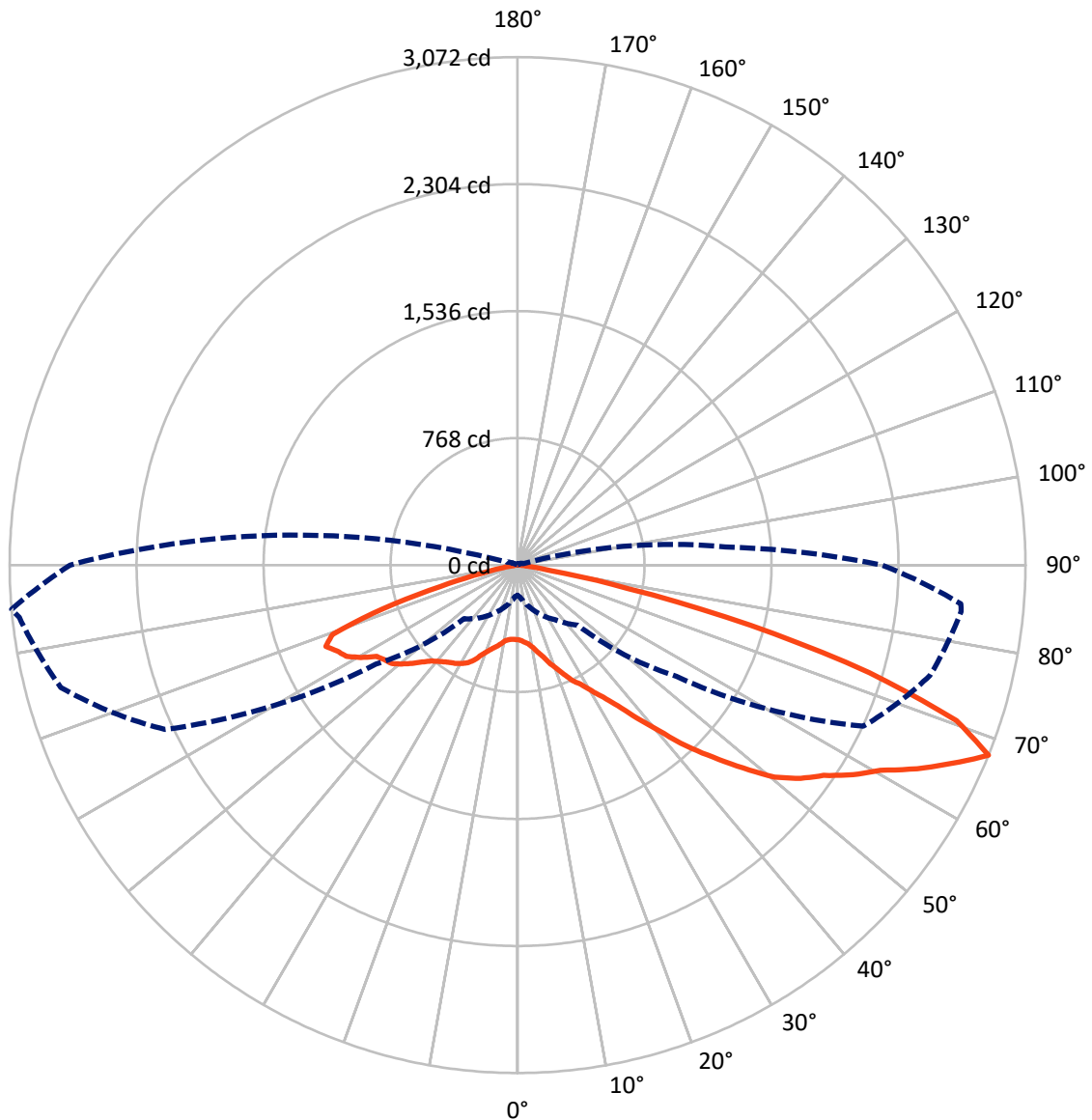
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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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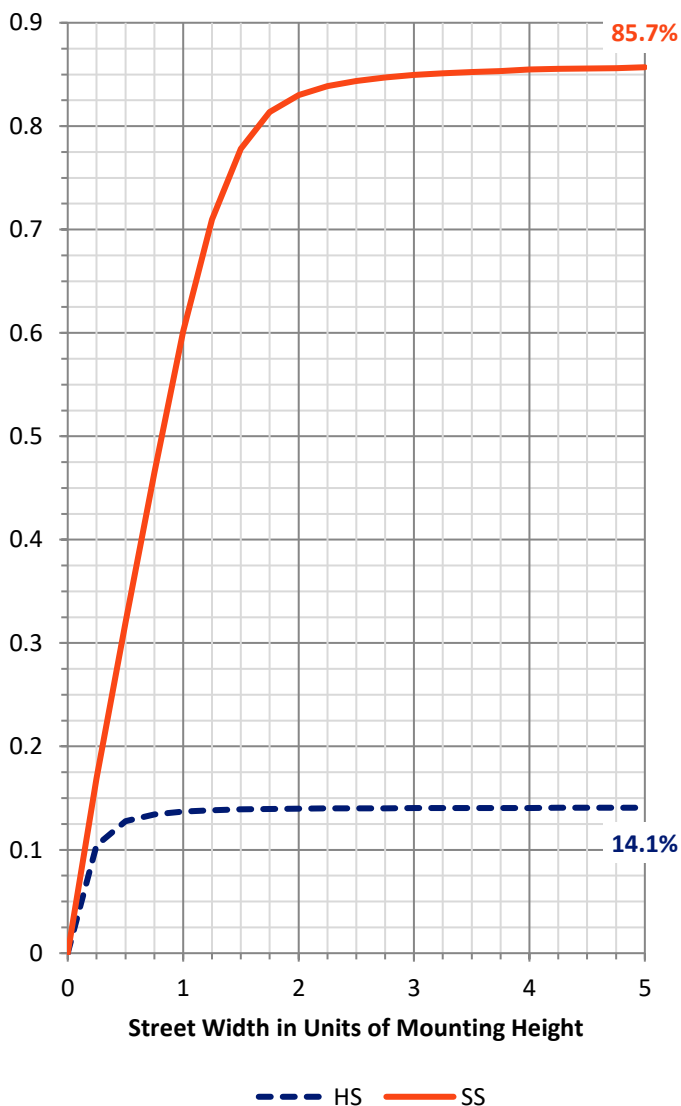
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	441.1	0.0	441.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	2664.1	0.0	2664.1
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	3105.3	0.0	3105.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.2	1.3
10°-20°	110.7	3.6
20°-30°	183.9	5.9
30°-40°	316.3	10.2
40°-50°	568.5	18.3
50°-60°	809.3	26.1
60°-70°	737.8	23.8
70°-80°	314.2	10.1
80°-90°	23.4	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°	3105.3	100.0
0°-180°	3105.3	100.0



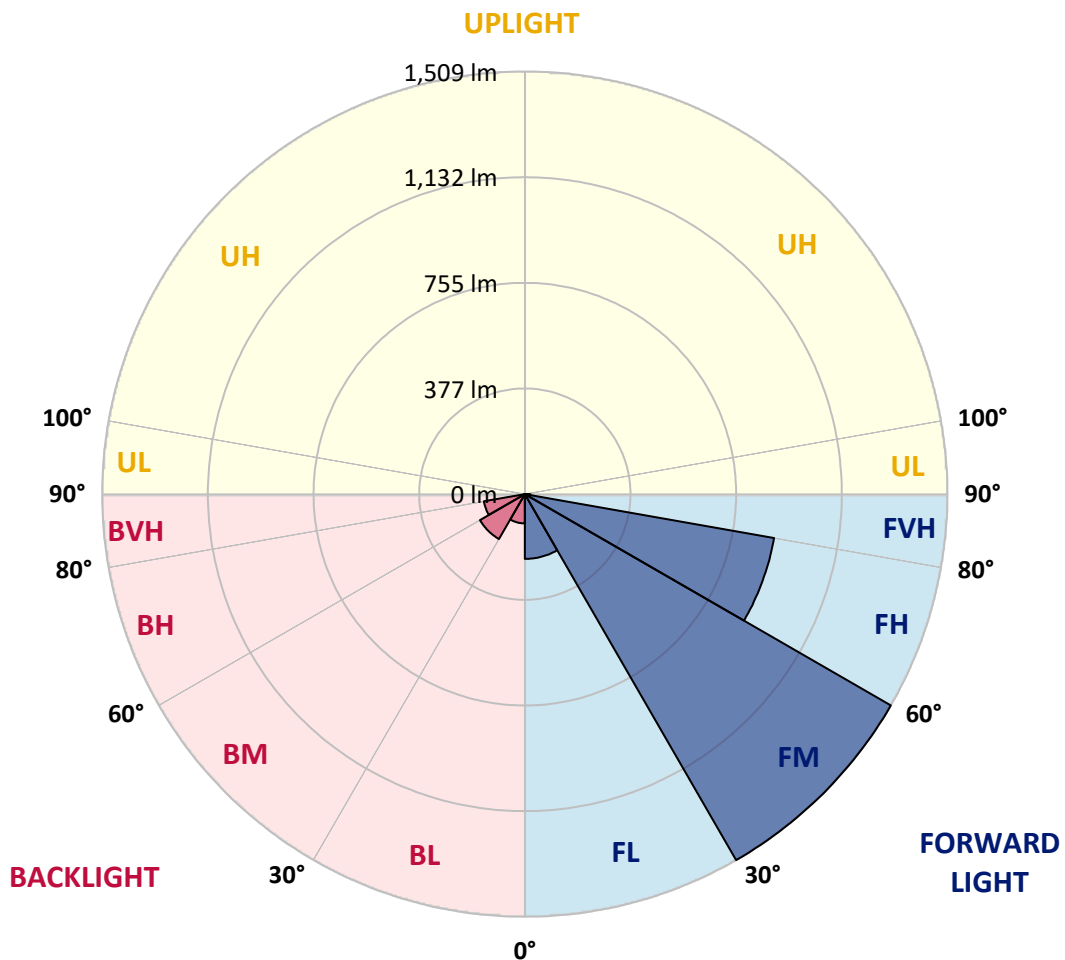
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.3	7.4			
FM (30°-60°)	1509.2	48.6			
FH (60°-80°)	903.8	29.1			G1/1800
FVH (80°-90°)	19.9	0.6			G1/100
BL (0°-30°)	104.4	3.4	B0/110		
BM (30°-60°)	185.0	6.0	B0/220		
BH (60°-80°)	148.2	4.8	B1/500		G1/500
BVH (80°-90°)	3.5	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°	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6
2.5°	467.8	472.3	472.3	470.8	466.4	463.4	461.9	459.0	456.0	456.0	457.5
5°	472.3	467.8	473.8	466.4	466.4	466.4	472.3	469.3	467.8	460.4	460.4
7.5°	472.3	467.8	467.8	472.3	467.8	470.8	478.2	475.2	481.2	467.8	470.8
10°	459.0	457.5	460.4	466.4	467.8	473.8	481.2	496.0	497.5	488.6	487.1
12.5°	432.3	430.8	441.2	444.2	461.9	476.7	498.9	510.8	524.1	519.7	510.8
15°	413.1	416.0	423.4	435.3	451.6	478.2	503.4	530.0	553.7	547.8	544.8
17.5°	420.5	419.0	420.5	427.9	448.6	475.2	518.2	549.3	583.3	583.3	586.3
20°	442.7	447.1	445.6	441.2	451.6	473.8	518.2	573.0	629.2	624.8	624.8
22.5°	481.2	482.6	473.8	470.8	469.3	482.6	527.1	602.6	667.7	676.6	673.6
25°	521.1	522.6	519.7	510.8	498.9	501.9	543.3	626.3	721.0	735.8	732.9
27.5°	587.8	586.3	578.9	568.5	550.7	537.4	568.5	644.0	762.5	787.6	780.2
30°	654.4	649.9	639.6	626.3	610.0	584.8	599.6	678.1	814.3	838.0	821.7
32.5°	735.8	726.9	729.9	709.2	675.1	635.1	632.2	709.2	855.7	889.8	876.5
35°	839.4	829.1	814.3	795.0	762.5	709.2	692.9	759.5	925.3	950.5	950.5
37.5°	975.7	986.0	968.3	888.3	852.8	802.4	768.4	811.3	986.0	1046.7	1031.9
40°	1114.8	1123.7	1091.1	1031.9	954.9	892.7	872.0	895.7	1077.8	1150.4	1122.2
42.5°	1227.3	1239.2	1227.3	1150.4	1089.7	1009.7	972.7	994.9	1196.2	1283.6	1246.6
45°	1345.8	1357.6	1344.3	1294.0	1234.7	1188.8	1095.6	1123.7	1320.6	1450.9	1409.4
47.5°	1434.6	1449.4	1425.7	1415.4	1368.0	1360.6	1202.2	1233.3	1450.9	1619.7	1567.9
50°	1455.3	1471.6	1492.4	1504.2	1487.9	1505.7	1345.8	1372.4	1587.1	1775.1	1724.8
52.5°	1406.5	1422.8	1468.7	1523.4	1598.9	1652.2	1490.9	1513.1	1729.2	1903.9	1877.3
55°	1262.9	1277.7	1370.9	1445.0	1625.6	1712.9	1630.0	1723.3	1831.4	2038.7	1973.5
57.5°	1021.5	1039.3	1162.2	1276.2	1536.8	1678.9	1712.9	1898.0	2000.2	2137.9	2062.3
60°	725.4	735.8	842.4	1043.8	1291.0	1508.6	1696.7	2028.3	2133.4	2271.1	2231.1
62.5°	417.5	426.4	537.4	726.9	974.2	1259.9	1624.1	2151.2	2277.0	2417.7	2395.5
65°	276.9	279.8	355.3	459.0	633.7	928.3	1440.5	2260.7	2419.1	2534.6	2509.5
67.5°	182.1	198.4	257.6	328.7	405.7	513.7	1174.0	2306.6	2582.0	2697.5	2691.6
70°	130.3	136.2	185.1	253.2	305.0	288.7	687.0	1982.4	2574.6	2741.9	2693.0
72.5°	77.0	82.9	122.9	189.5	239.8	183.6	321.3	1402.0	2133.4	2188.2	2174.9
75°	56.3	56.3	75.5	136.2	174.7	131.8	151.0	886.8	1416.8	1538.2	1536.8
77.5°	40.0	41.5	51.8	81.4	134.7	96.2	82.9	493.0	774.3	846.8	806.9
80°	23.7	25.2	35.5	48.9	97.7	69.6	54.8	225.0	297.6	300.5	285.7
82.5°	17.8	17.8	23.7	34.1	68.1	47.4	34.1	85.9	96.2	87.3	74.0
85°	10.4	8.9	17.8	25.2	40.0	26.6	23.7	40.0	44.4	32.6	29.6
87.5°	3.0	3.0	7.4	8.9	17.8	14.8	10.4	14.8	20.7	11.8	8.9
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°	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6
2.5°	454.5	450.1	442.7	439.7	429.3	424.9	421.9	414.5	416.0	411.6	411.6
5°	450.1	450.1	435.3	419.0	402.7	392.3	380.5	365.7	365.7	359.8	361.2
7.5°	466.4	454.5	435.3	405.7	379.0	355.3	345.0	330.2	321.3	316.8	316.8
10°	476.7	464.9	432.3	396.8	362.7	333.1	310.9	290.2	278.3	278.3	276.9
12.5°	504.9	487.1	444.2	395.3	345.0	300.5	266.5	242.8	226.5	214.7	217.6
15°	528.5	509.3	450.1	383.5	313.9	251.7	210.2	165.8	143.6	131.8	127.3
17.5°	565.6	530.0	463.4	362.7	266.5	196.9	136.2	99.2	90.3	88.8	88.8
20°	596.6	555.2	464.9	322.8	219.1	125.8	87.3	81.4	77.0	75.5	74.0
22.5°	639.6	587.8	459.0	276.9	156.9	84.4	74.0	68.1	65.1	60.7	60.7
25°	684.0	630.7	447.1	233.9	96.2	72.5	65.1	59.2	53.3	50.3	51.8
27.5°	731.4	663.3	413.1	182.1	74.0	63.7	53.3	48.9	45.9	44.4	44.4
30°	769.9	684.0	362.7	121.4	66.6	56.3	47.4	42.9	40.0	38.5	38.5
32.5°	798.0	701.8	306.5	81.4	60.7	50.3	42.9	38.5	35.5	34.1	34.1
35°	845.4	715.1	254.6	69.6	54.8	44.4	37.0	34.1	31.1	31.1	31.1
37.5°	917.9	732.9	202.8	63.7	50.3	40.0	35.5	31.1	29.6	28.1	28.1
40°	981.6	755.1	145.1	57.7	45.9	37.0	31.1	28.1	26.6	25.2	25.2
42.5°	1073.4	780.2	94.8	51.8	41.5	34.1	28.1	25.2	23.7	22.2	22.2
45°	1190.3	821.7	74.0	45.9	37.0	31.1	26.6	23.7	20.7	20.7	19.2
47.5°	1314.7	872.0	66.6	42.9	34.1	28.1	23.7	20.7	19.2	17.8	17.8
50°	1430.2	920.9	62.2	40.0	31.1	26.6	22.2	19.2	16.3	14.8	14.8
52.5°	1533.8	966.8	59.2	37.0	29.6	23.7	19.2	16.3	14.8	13.3	13.3
55°	1588.6	987.5	57.7	35.5	26.6	22.2	17.8	14.8	13.3	11.8	11.8
57.5°	1674.5	1014.1	56.3	34.1	25.2	19.2	16.3	13.3	11.8	10.4	10.4
60°	1813.6	1101.5	54.8	32.6	23.7	19.2	14.8	11.8	8.9	7.4	7.4
62.5°	1929.1	1174.0	48.9	28.1	20.7	16.3	11.8	8.9	5.9	4.4	4.4
65°	2060.9	1208.1	42.9	25.2	17.8	13.3	8.9	5.9	4.4	1.5	1.5
67.5°	2204.5	1259.9	35.5	22.2	16.3	10.4	7.4	4.4	1.5	0.0	0.0
70°	2129.0	1194.8	29.6	19.2	14.8	8.9	5.9	3.0	0.0	0.0	0.0
72.5°	1668.5	855.7	23.7	17.8	13.3	8.9	5.9	1.5	0.0	0.0	0.0
75°	1114.8	484.1	20.7	14.8	10.4	7.4	4.4	1.5	0.0	0.0	0.0
77.5°	605.5	217.6	17.8	13.3	8.9	5.9	4.4	1.5	0.0	0.0	0.0
80°	196.9	85.9	14.8	11.8	8.9	5.9	4.4	1.5	0.0	0.0	0.0
82.5°	53.3	26.6	14.8	11.8	8.9	5.9	4.4	1.5	0.0	0.0	0.0
85°	22.2	17.8	14.8	11.8	8.9	5.9	4.4	1.5	0.0	0.0	0.0
87.5°	8.9	5.9	5.9	7.4	5.9	4.4	3.0	1.5	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°	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6
2.5°	413.1	416.0	417.5	417.5	424.9	432.3	441.2	448.6	448.6	453.0	457.5
5°	362.7	365.7	370.1	383.5	398.3	414.5	430.8	442.7	459.0	466.4	470.8
7.5°	321.3	324.2	336.1	349.4	370.1	398.3	426.4	453.0	469.3	476.7	482.6
10°	278.3	282.8	296.1	319.8	346.4	380.5	413.1	459.0	485.6	500.4	506.3
12.5°	216.2	228.0	245.8	270.9	305.0	356.8	417.5	464.9	510.8	528.5	540.4
15°	136.2	146.6	174.7	214.7	260.6	321.3	405.7	473.8	537.4	555.2	574.4
17.5°	87.3	88.8	97.7	140.6	199.9	276.9	387.9	487.1	567.0	592.2	621.8
20°	74.0	77.0	78.5	84.4	133.2	228.0	350.9	503.4	602.6	636.6	664.7
22.5°	62.2	63.7	66.6	71.1	79.9	165.8	300.5	503.4	633.7	684.0	716.6
25°	50.3	53.3	56.3	60.7	69.6	103.6	248.7	494.5	670.7	732.9	774.3
27.5°	44.4	44.4	47.4	51.8	59.2	72.5	196.9	467.8	698.8	762.5	817.2
30°	38.5	40.0	41.5	45.9	53.3	63.7	136.2	424.9	728.4	820.2	882.4
32.5°	34.1	34.1	37.0	40.0	47.4	57.7	87.3	359.8	766.9	864.6	952.0
35°	31.1	31.1	32.6	35.5	42.9	51.8	68.1	305.0	812.8	949.0	1045.2
37.5°	28.1	28.1	29.6	32.6	38.5	45.9	62.2	262.0	860.2	1033.4	1174.0
40°	25.2	25.2	26.6	29.6	34.1	41.5	56.3	211.7	919.4	1157.8	1314.7
42.5°	22.2	22.2	23.7	26.6	31.1	37.0	48.9	158.4	997.9	1292.5	1496.8
45°	19.2	19.2	20.7	23.7	26.6	34.1	44.4	121.4	1083.7	1442.0	1656.7
47.5°	16.3	17.8	19.2	22.2	25.2	31.1	40.0	106.6	1168.1	1600.4	1834.3
50°	14.8	14.8	16.3	19.2	23.7	28.1	37.0	105.1	1254.0	1721.8	2016.4
52.5°	13.3	13.3	14.8	17.8	22.2	26.6	35.5	108.1	1325.1	1834.3	2143.8
55°	11.8	11.8	13.3	14.8	19.2	25.2	32.6	111.0	1375.4	1948.3	2245.9
57.5°	10.4	10.4	11.8	14.8	17.8	22.2	29.6	114.0	1456.8	2060.9	2394.0
60°	7.4	7.4	10.4	13.3	16.3	19.2	28.1	117.0	1587.1	2216.3	2519.8
62.5°	4.4	4.4	5.9	10.4	13.3	17.8	25.2	111.0	1708.5	2416.2	2712.3
65°	1.5	3.0	4.4	5.9	10.4	14.8	20.7	100.7	1810.7	2616.1	2889.9
67.5°	0.0	0.0	1.5	4.4	8.9	11.8	17.8	74.0	1826.9	2706.4	3072.1
70°	0.0	0.0	1.5	4.4	7.4	11.8	16.3	41.5	1556.0	2417.7	2815.9
72.5°	0.0	0.0	0.0	3.0	7.4	10.4	14.8	31.1	1147.4	1822.5	2225.2
75°	0.0	0.0	0.0	1.5	5.9	8.9	13.3	23.7	697.3	1215.5	1452.4
77.5°	0.0	0.0	0.0	1.5	4.4	8.9	13.3	20.7	245.8	578.9	682.5
80°	0.0	0.0	0.0	3.0	5.9	8.9	11.8	17.8	59.2	145.1	195.4
82.5°	0.0	0.0	0.0	1.5	4.4	7.4	10.4	14.8	23.7	42.9	68.1
85°	0.0	0.0	0.0	1.5	3.0	7.4	10.4	13.3	16.3	20.7	29.6
87.5°	0.0	0.0	0.0	0.0	1.5	3.0	4.4	5.9	5.9	5.9	10.4
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):**

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6
2.5°	456.0	461.9	464.9	470.8	473.8	472.3	470.8	475.2	472.3	467.8
5°	472.3	472.3	476.7	478.2	478.2	473.8	476.7	475.2	472.3	472.3
7.5°	490.0	497.5	497.5	488.6	487.1	484.1	484.1	472.3	467.8	472.3
10°	507.8	513.7	515.2	504.9	491.5	485.6	478.2	463.4	456.0	459.0
12.5°	544.8	544.8	528.5	516.7	498.9	478.2	460.4	439.7	429.3	432.3
15°	571.5	577.4	555.2	528.5	497.5	459.0	439.7	423.4	417.5	413.1
17.5°	623.3	611.4	575.9	537.4	493.0	453.0	439.7	424.9	420.5	420.5
20°	667.7	661.8	608.5	538.9	491.5	464.9	456.0	448.6	447.1	442.7
22.5°	728.4	701.8	633.7	555.2	507.8	484.1	481.2	488.6	484.1	481.2
25°	774.3	752.1	652.9	578.9	533.0	525.6	530.0	537.4	525.6	521.1
27.5°	836.5	795.0	689.9	610.0	567.0	574.4	589.2	590.7	583.3	587.8
30°	894.2	849.8	718.0	645.5	624.8	632.2	654.4	670.7	660.3	654.4
32.5°	977.1	909.0	774.3	704.7	697.3	716.6	741.7	752.1	738.8	735.8
35°	1064.5	977.1	832.0	771.3	784.7	811.3	833.5	851.3	830.6	839.4
37.5°	1200.7	1086.7	929.8	876.5	882.4	892.7	934.2	983.1	993.4	975.7
40°	1342.8	1205.1	1020.1	978.6	991.9	1020.1	1068.9	1114.8	1138.5	1114.8
42.5°	1507.2	1319.1	1159.2	1110.4	1123.7	1163.7	1228.8	1265.8	1262.9	1227.3
45°	1710.0	1477.5	1289.5	1228.8	1277.7	1313.2	1378.4	1382.8	1354.7	1345.8
47.5°	1865.4	1610.8	1430.2	1391.7	1458.3	1459.8	1474.6	1476.1	1445.0	1434.6
50°	2037.2	1764.8	1587.1	1530.8	1643.4	1591.5	1551.6	1524.9	1477.5	1455.3
52.5°	2206.0	1874.3	1732.2	1674.5	1791.4	1653.7	1581.2	1499.8	1430.2	1406.5
55°	2296.3	2054.9	1943.9	1809.2	1824.0	1671.5	1489.4	1387.2	1268.8	1262.9
57.5°	2402.9	2176.3	2123.0	1901.0	1769.2	1547.1	1298.4	1163.7	1036.4	1021.5
60°	2528.7	2368.8	2312.6	1886.2	1575.3	1299.9	1029.0	855.7	735.8	725.4
62.5°	2669.4	2596.8	2429.5	1741.1	1251.0	915.0	679.6	534.5	423.4	417.5
65°	2891.4	2787.8	2491.7	1465.7	827.6	586.3	451.6	346.4	279.8	276.9
67.5°	3030.6	2860.3	2352.5	1045.2	459.0	387.9	316.8	251.7	193.9	182.1
70°	2833.7	2624.9	1861.0	598.1	266.5	294.6	244.3	168.8	133.2	130.3
72.5°	2263.7	1948.3	1252.5	281.3	165.8	231.0	177.7	114.0	79.9	77.0
75°	1544.2	1225.9	786.1	130.3	117.0	168.8	130.3	66.6	56.3	56.3
77.5°	689.9	624.8	402.7	79.9	87.3	128.8	75.5	45.9	41.5	40.0
80°	210.2	220.6	164.3	54.8	65.1	97.7	45.9	31.1	25.2	23.7
82.5°	71.1	82.9	74.0	32.6	44.4	69.6	31.1	20.7	17.8	17.8
85°	34.1	41.5	37.0	20.7	23.7	34.1	25.2	16.3	10.4	10.4
87.5°	13.3	19.2	13.3	8.9	13.3	17.8	10.4	7.4	3.0	3.0
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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