

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: P676258

Luminaire Tested: **CCW-SA-2A-730-U-T2-HSS**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P676258  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-730-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) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

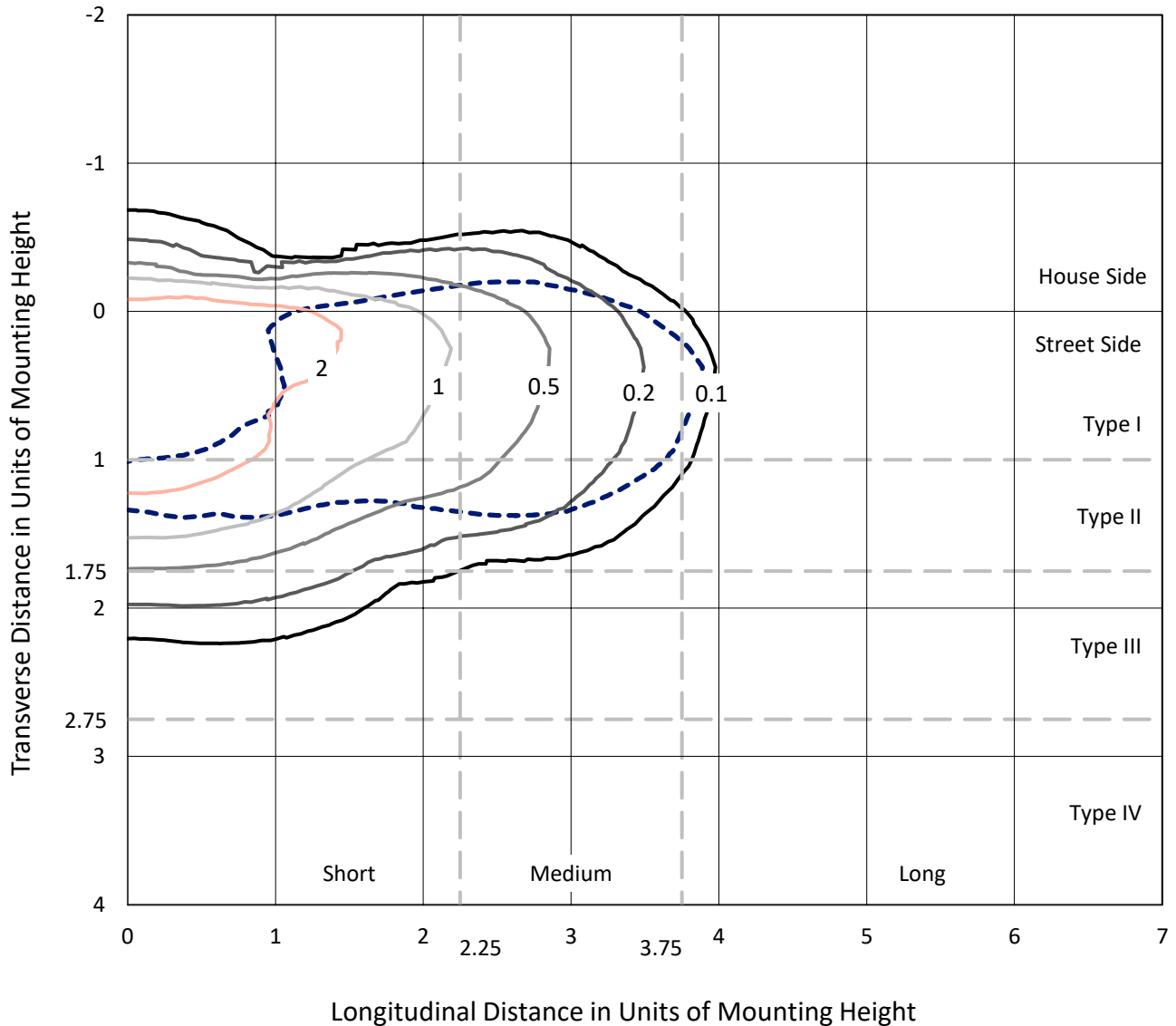
Lumens per Lamp: N/A  
Luminaire Lumens: 3846.6 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

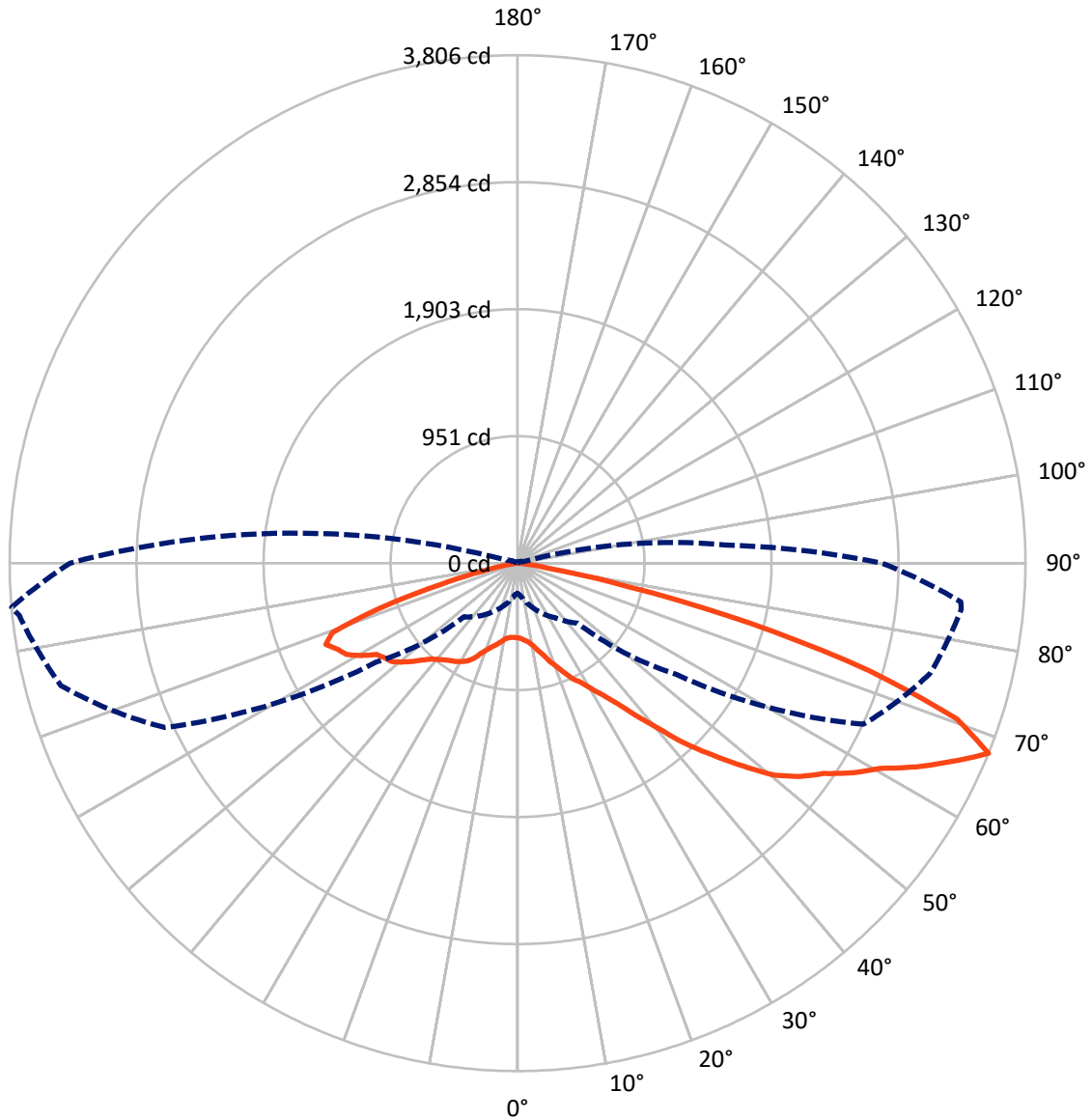
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 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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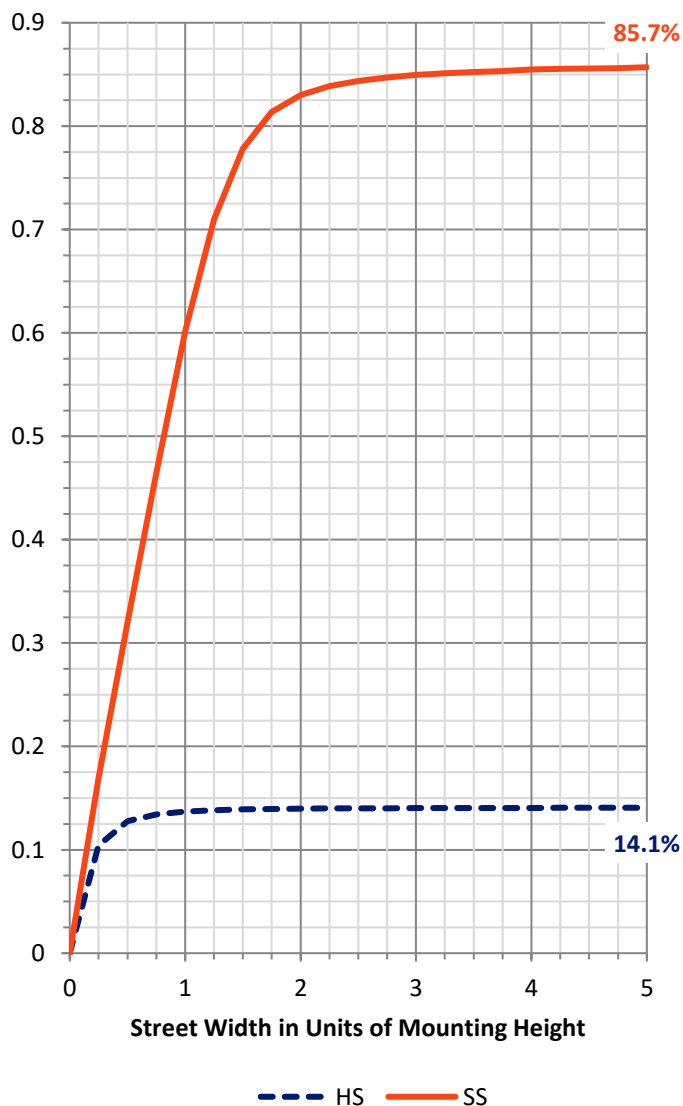
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	546.5	0.0	546.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	3300.2	0.0	3300.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	3846.6	0.0	3846.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	1.3
10°-20°	137.2	3.6
20°-30°	227.8	5.9
30°-40°	391.9	10.2
40°-50°	704.2	18.3
50°-60°	1002.5	26.1
60°-70°	914.0	23.8
70°-80°	389.2	10.1
80°-90°	29.0	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°	3846.6	100.0
0°-180°	3846.6	100.0



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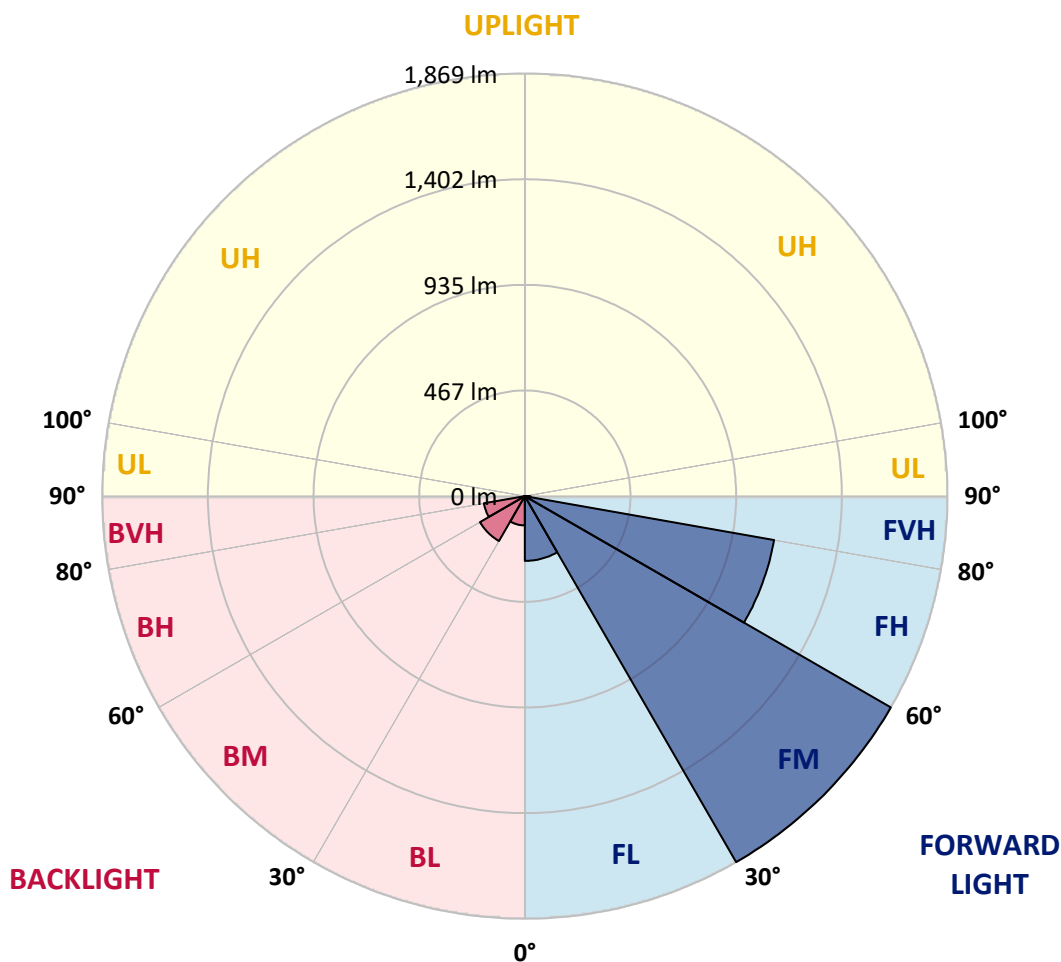
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.6	7.4			
FM (30°-60°)	1869.5	48.6			
FH (60°-80°)	1119.5	29.1			G1/1800
FVH (80°-90°)	24.6	0.6			G1/100
BL (0°-30°)	129.4	3.4	B1/500		
BM (30°-60°)	229.1	6.0	B1/1000		
BH (60°-80°)	183.6	4.8	B1/500		G1/500
BVH (80°-90°)	4.4	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°	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4
2.5°	579.5	585.0	585.0	583.2	577.7	574.0	572.2	568.5	564.9	564.9	566.7
5°	585.0	579.5	586.9	577.7	577.7	577.7	585.0	581.4	579.5	570.4	570.4
7.5°	585.0	579.5	579.5	585.0	579.5	583.2	592.4	588.7	596.0	579.5	583.2
10°	568.5	566.7	570.4	577.7	579.5	586.9	596.0	614.4	616.2	605.2	603.4
12.5°	535.5	533.7	546.5	550.2	572.2	590.5	618.0	632.7	649.2	643.7	632.7
15°	511.7	515.3	524.5	539.2	559.4	592.4	623.5	656.6	685.9	678.6	674.9
17.5°	520.8	519.0	520.8	530.0	555.7	588.7	641.9	680.4	722.6	722.6	726.3
20°	548.4	553.9	552.0	546.5	559.4	586.9	641.9	709.7	779.4	773.9	773.9
22.5°	596.0	597.9	586.9	583.2	581.4	597.9	652.9	746.4	827.1	838.1	834.5
25°	645.6	647.4	643.7	632.7	618.0	621.7	673.1	775.8	893.1	911.5	907.8
27.5°	728.1	726.3	717.1	704.2	682.2	665.7	704.2	797.8	944.5	975.7	966.5
30°	810.6	805.1	792.3	775.8	755.6	724.4	742.8	840.0	1008.7	1038.0	1017.9
32.5°	911.5	900.5	904.1	878.5	836.3	786.8	783.1	878.5	1060.0	1102.2	1085.7
35°	1039.9	1027.0	1008.7	984.8	944.5	878.5	858.3	940.8	1146.2	1177.4	1177.4
37.5°	1208.6	1221.4	1199.4	1100.4	1056.4	994.0	951.8	1005.0	1221.4	1296.6	1278.3
40°	1381.0	1392.0	1351.6	1278.3	1182.9	1105.9	1080.2	1109.5	1335.1	1425.0	1390.1
42.5°	1520.4	1535.0	1520.4	1425.0	1349.8	1250.8	1204.9	1232.4	1481.8	1590.0	1544.2
45°	1667.1	1681.7	1665.2	1602.9	1529.5	1472.7	1357.1	1392.0	1635.9	1797.3	1745.9
47.5°	1777.1	1795.5	1766.1	1753.3	1694.6	1685.4	1489.2	1527.7	1797.3	2006.4	1942.2
50°	1802.8	1823.0	1848.6	1863.3	1843.1	1865.1	1667.1	1700.1	1966.0	2198.9	2136.6
52.5°	1742.3	1762.4	1819.3	1887.2	1980.7	2046.7	1846.8	1874.3	2142.1	2358.5	2325.5
55°	1564.4	1582.7	1698.3	1790.0	2013.7	2121.9	2019.2	2134.7	2268.6	2525.4	2444.7
57.5°	1265.4	1287.4	1439.7	1580.9	1903.7	2079.7	2121.9	2351.1	2477.7	2648.2	2554.7
60°	898.6	911.5	1043.5	1292.9	1599.2	1868.8	2101.7	2512.5	2642.7	2813.3	2763.8
62.5°	517.2	528.2	665.7	900.5	1206.8	1560.7	2011.9	2664.8	2820.6	2994.9	2967.4
65°	343.0	346.6	440.2	568.5	784.9	1149.9	1784.4	2800.5	2996.7	3139.8	3108.6
67.5°	225.6	245.8	319.1	407.1	502.5	636.4	1454.3	2857.3	3198.4	3341.5	3334.2
70°	161.4	168.7	229.2	313.6	377.8	357.6	851.0	2455.7	3189.3	3396.5	3336.0
72.5°	95.4	102.7	152.2	234.7	297.1	227.4	398.0	1736.8	2642.7	2710.6	2694.1
75°	69.7	69.7	93.5	168.7	216.4	163.2	187.1	1098.5	1755.1	1905.5	1903.7
77.5°	49.5	51.4	64.2	100.9	166.9	119.2	102.7	610.7	959.2	1049.0	999.5
80°	29.3	31.2	44.0	60.5	121.0	86.2	67.9	278.8	368.6	372.3	354.0
82.5°	22.0	22.0	29.3	42.2	84.4	58.7	42.2	106.4	119.2	108.2	91.7
85°	12.8	11.0	22.0	31.2	49.5	33.0	29.3	49.5	55.0	40.3	36.7
87.5°	3.7	3.7	9.2	11.0	22.0	18.3	12.8	18.3	25.7	14.7	11.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4
2.5°	563.0	557.5	548.4	544.7	531.9	526.3	522.7	513.5	515.3	509.8	509.8
5°	557.5	557.5	539.2	519.0	498.8	486.0	471.3	453.0	453.0	445.7	447.5
7.5°	577.7	563.0	539.2	502.5	469.5	440.2	427.3	409.0	398.0	392.5	392.5
10°	590.5	575.9	535.5	491.5	449.3	412.6	385.1	359.5	344.8	344.8	343.0
12.5°	625.4	603.4	550.2	489.7	427.3	372.3	330.1	300.8	280.6	265.9	269.6
15°	654.7	630.9	557.5	475.0	388.8	311.8	260.4	205.4	177.9	163.2	157.7
17.5°	700.6	656.6	574.0	449.3	330.1	243.9	168.7	122.9	111.9	110.0	110.0
20°	739.1	687.7	575.9	399.8	271.4	155.9	108.2	100.9	95.4	93.5	91.7
22.5°	792.3	728.1	568.5	343.0	194.4	104.5	91.7	84.4	80.7	75.2	75.2
25°	847.3	781.3	553.9	289.8	119.2	89.9	80.7	73.4	66.0	62.4	64.2
27.5°	906.0	821.6	511.7	225.6	91.7	78.9	66.0	60.5	56.9	55.0	55.0
30°	953.7	847.3	449.3	150.4	82.5	69.7	58.7	53.2	49.5	47.7	47.7
32.5°	988.5	869.3	379.6	100.9	75.2	62.4	53.2	47.7	44.0	42.2	42.2
35°	1047.2	885.8	315.4	86.2	67.9	55.0	45.8	42.2	38.5	38.5	38.5
37.5°	1137.1	907.8	251.3	78.9	62.4	49.5	44.0	38.5	36.7	34.8	34.8
40°	1215.9	935.3	179.7	71.5	56.9	45.8	38.5	34.8	33.0	31.2	31.2
42.5°	1329.6	966.5	117.4	64.2	51.4	42.2	34.8	31.2	29.3	27.5	27.5
45°	1474.5	1017.9	91.7	56.9	45.8	38.5	33.0	29.3	25.7	25.7	23.8
47.5°	1628.6	1080.2	82.5	53.2	42.2	34.8	29.3	25.7	23.8	22.0	22.0
50°	1771.6	1140.7	77.0	49.5	38.5	33.0	27.5	23.8	20.2	18.3	18.3
52.5°	1900.0	1197.6	73.4	45.8	36.7	29.3	23.8	20.2	18.3	16.5	16.5
55°	1967.8	1223.3	71.5	44.0	33.0	27.5	22.0	18.3	16.5	14.7	14.7
57.5°	2074.2	1256.3	69.7	42.2	31.2	23.8	20.2	16.5	14.7	12.8	12.8
60°	2246.6	1364.5	67.9	40.3	29.3	23.8	18.3	14.7	11.0	9.2	9.2
62.5°	2389.7	1454.3	60.5	34.8	25.7	20.2	14.7	11.0	7.3	5.5	5.5
65°	2552.9	1496.5	53.2	31.2	22.0	16.5	11.0	7.3	5.5	1.8	1.8
67.5°	2730.8	1560.7	44.0	27.5	20.2	12.8	9.2	5.5	1.8	0.0	0.0
70°	2637.2	1480.0	36.7	23.8	18.3	11.0	7.3	3.7	0.0	0.0	0.0
72.5°	2066.9	1060.0	29.3	22.0	16.5	11.0	7.3	1.8	0.0	0.0	0.0
75°	1381.0	599.7	25.7	18.3	12.8	9.2	5.5	1.8	0.0	0.0	0.0
77.5°	750.1	269.6	22.0	16.5	11.0	7.3	5.5	1.8	0.0	0.0	0.0
80°	243.9	106.4	18.3	14.7	11.0	7.3	5.5	1.8	0.0	0.0	0.0
82.5°	66.0	33.0	18.3	14.7	11.0	7.3	5.5	1.8	0.0	0.0	0.0
85°	27.5	22.0	18.3	14.7	11.0	7.3	5.5	1.8	0.0	0.0	0.0
87.5°	11.0	7.3	7.3	9.2	7.3	5.5	3.7	1.8	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°	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4
2.5°	511.7	515.3	517.2	517.2	526.3	535.5	546.5	555.7	555.7	561.2	566.7
5°	449.3	453.0	458.5	475.0	493.3	513.5	533.7	548.4	568.5	577.7	583.2
7.5°	398.0	401.6	416.3	432.8	458.5	493.3	528.2	561.2	581.4	590.5	597.9
10°	344.8	350.3	366.8	396.1	429.1	471.3	511.7	568.5	601.5	619.9	627.2
12.5°	267.8	282.4	304.4	335.6	377.8	442.0	517.2	575.9	632.7	654.7	669.4
15°	168.7	181.6	216.4	265.9	322.8	398.0	502.5	586.9	665.7	687.7	711.6
17.5°	108.2	110.0	121.0	174.2	247.6	343.0	480.5	603.4	702.4	733.6	770.3
20°	91.7	95.4	97.2	104.5	165.1	282.4	434.7	623.5	746.4	788.6	823.5
22.5°	77.0	78.9	82.5	88.0	99.0	205.4	372.3	623.5	784.9	847.3	887.6
25°	62.4	66.0	69.7	75.2	86.2	128.4	308.1	612.5	830.8	907.8	959.2
27.5°	55.0	55.0	58.7	64.2	73.4	89.9	243.9	579.5	865.6	944.5	1012.3
30°	47.7	49.5	51.4	56.9	66.0	78.9	168.7	526.3	902.3	1016.0	1093.0
32.5°	42.2	42.2	45.8	49.5	58.7	71.5	108.2	445.7	950.0	1071.0	1179.2
35°	38.5	38.5	40.3	44.0	53.2	64.2	84.4	377.8	1006.8	1175.6	1294.8
37.5°	34.8	34.8	36.7	40.3	47.7	56.9	77.0	324.6	1065.5	1280.1	1454.3
40°	31.2	31.2	33.0	36.7	42.2	51.4	69.7	262.3	1138.9	1434.2	1628.6
42.5°	27.5	27.5	29.3	33.0	38.5	45.8	60.5	196.2	1236.1	1601.1	1854.1
45°	23.8	23.8	25.7	29.3	33.0	42.2	55.0	150.4	1342.5	1786.3	2052.2
47.5°	20.2	22.0	23.8	27.5	31.2	38.5	49.5	132.0	1447.0	1982.5	2272.3
50°	18.3	18.3	20.2	23.8	29.3	34.8	45.8	130.2	1553.4	2132.9	2497.9
52.5°	16.5	16.5	18.3	22.0	27.5	33.0	44.0	133.9	1641.4	2272.3	2655.6
55°	14.7	14.7	16.5	18.3	23.8	31.2	40.3	137.5	1703.8	2413.5	2782.1
57.5°	12.8	12.8	14.7	18.3	22.0	27.5	36.7	141.2	1804.6	2552.9	2965.5
60°	9.2	9.2	12.8	16.5	20.2	23.8	34.8	144.9	1966.0	2745.4	3121.4
62.5°	5.5	5.5	7.3	12.8	16.5	22.0	31.2	137.5	2116.4	2993.0	3359.8
65°	1.8	3.7	5.5	7.3	12.8	18.3	25.7	124.7	2242.9	3240.6	3579.9
67.5°	0.0	0.0	1.8	5.5	11.0	14.7	22.0	91.7	2263.1	3352.5	3805.5
70°	0.0	0.0	1.8	5.5	9.2	14.7	20.2	51.4	1927.5	2994.9	3488.2
72.5°	0.0	0.0	0.0	3.7	9.2	12.8	18.3	38.5	1421.3	2257.6	2756.5
75°	0.0	0.0	0.0	1.8	7.3	11.0	16.5	29.3	863.8	1505.7	1799.1
77.5°	0.0	0.0	0.0	1.8	5.5	11.0	16.5	25.7	304.4	717.1	845.5
80°	0.0	0.0	0.0	3.7	7.3	11.0	14.7	22.0	73.4	179.7	242.1
82.5°	0.0	0.0	0.0	1.8	5.5	9.2	12.8	18.3	29.3	53.2	84.4
85°	0.0	0.0	0.0	1.8	3.7	9.2	12.8	16.5	20.2	25.7	36.7
87.5°	0.0	0.0	0.0	0.0	1.8	3.7	5.5	7.3	7.3	7.3	12.8
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°	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4
2.5°	564.9	572.2	575.9	583.2	586.9	585.0	583.2	588.7	585.0	579.5
5°	585.0	585.0	590.5	592.4	592.4	586.9	590.5	588.7	585.0	585.0
7.5°	607.0	616.2	616.2	605.2	603.4	599.7	599.7	585.0	579.5	585.0
10°	629.1	636.4	638.2	625.4	608.9	601.5	592.4	574.0	564.9	568.5
12.5°	674.9	674.9	654.7	640.1	618.0	592.4	570.4	544.7	531.9	535.5
15°	707.9	715.2	687.7	654.7	616.2	568.5	544.7	524.5	517.2	511.7
17.5°	772.1	757.4	713.4	665.7	610.7	561.2	544.7	526.3	520.8	520.8
20°	827.1	819.8	753.8	667.6	608.9	575.9	564.9	555.7	553.9	548.4
22.5°	902.3	869.3	784.9	687.7	629.1	599.7	596.0	605.2	599.7	596.0
25°	959.2	931.7	808.8	717.1	660.2	651.1	656.6	665.7	651.1	645.6
27.5°	1036.2	984.8	854.6	755.6	702.4	711.6	729.9	731.8	722.6	728.1
30°	1107.7	1052.7	889.5	799.6	773.9	783.1	810.6	830.8	817.9	810.6
32.5°	1210.4	1126.1	959.2	873.0	863.8	887.6	918.8	931.7	915.1	911.5
35°	1318.6	1210.4	1030.7	955.5	972.0	1005.0	1032.5	1054.5	1028.9	1039.9
37.5°	1487.3	1346.1	1151.7	1085.7	1093.0	1105.9	1157.2	1217.8	1230.6	1208.6
40°	1663.4	1492.8	1263.6	1212.3	1228.8	1263.6	1324.1	1381.0	1410.3	1381.0
42.5°	1867.0	1634.1	1436.0	1375.5	1392.0	1441.5	1522.2	1568.0	1564.4	1520.4
45°	2118.2	1830.3	1597.4	1522.2	1582.7	1626.7	1707.4	1712.9	1678.1	1667.1
47.5°	2310.8	1995.4	1771.6	1723.9	1806.5	1808.3	1826.6	1828.5	1790.0	1777.1
50°	2523.5	2186.1	1966.0	1896.3	2035.7	1971.5	1922.0	1889.0	1830.3	1802.8
52.5°	2732.6	2321.8	2145.7	2074.2	2219.1	2048.5	1958.7	1857.8	1771.6	1742.3
55°	2844.5	2545.5	2408.0	2241.1	2259.4	2070.5	1845.0	1718.4	1571.7	1564.4
57.5°	2976.5	2695.9	2629.9	2354.8	2191.6	1916.5	1608.4	1441.5	1283.8	1265.4
60°	3132.4	2934.3	2864.7	2336.5	1951.3	1610.2	1274.6	1060.0	911.5	898.6
62.5°	3306.6	3216.8	3009.5	2156.7	1549.7	1133.4	841.8	662.1	524.5	517.2
65°	3581.7	3453.4	3086.6	1815.6	1025.2	726.3	559.4	429.1	346.6	343.0
67.5°	3754.1	3543.2	2914.2	1294.8	568.5	480.5	392.5	311.8	240.2	225.6
70°	3510.2	3251.6	2305.3	740.9	330.1	365.0	302.6	209.1	165.1	161.4
72.5°	2804.1	2413.5	1551.5	348.5	205.4	286.1	220.1	141.2	99.0	95.4
75°	1912.8	1518.5	973.8	161.4	144.9	209.1	161.4	82.5	69.7	69.7
77.5°	854.6	773.9	498.8	99.0	108.2	159.6	93.5	56.9	51.4	49.5
80°	260.4	273.3	203.6	67.9	80.7	121.0	56.9	38.5	31.2	29.3
82.5°	88.0	102.7	91.7	40.3	55.0	86.2	38.5	25.7	22.0	22.0
85°	42.2	51.4	45.8	25.7	29.3	42.2	31.2	20.2	12.8	12.8
87.5°	16.5	23.8	16.5	11.0	16.5	22.0	12.8	9.2	3.7	3.7
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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