

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: P676256

Luminaire Tested: **CCW-SA-1E-730-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676256  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-730-U-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
T2 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

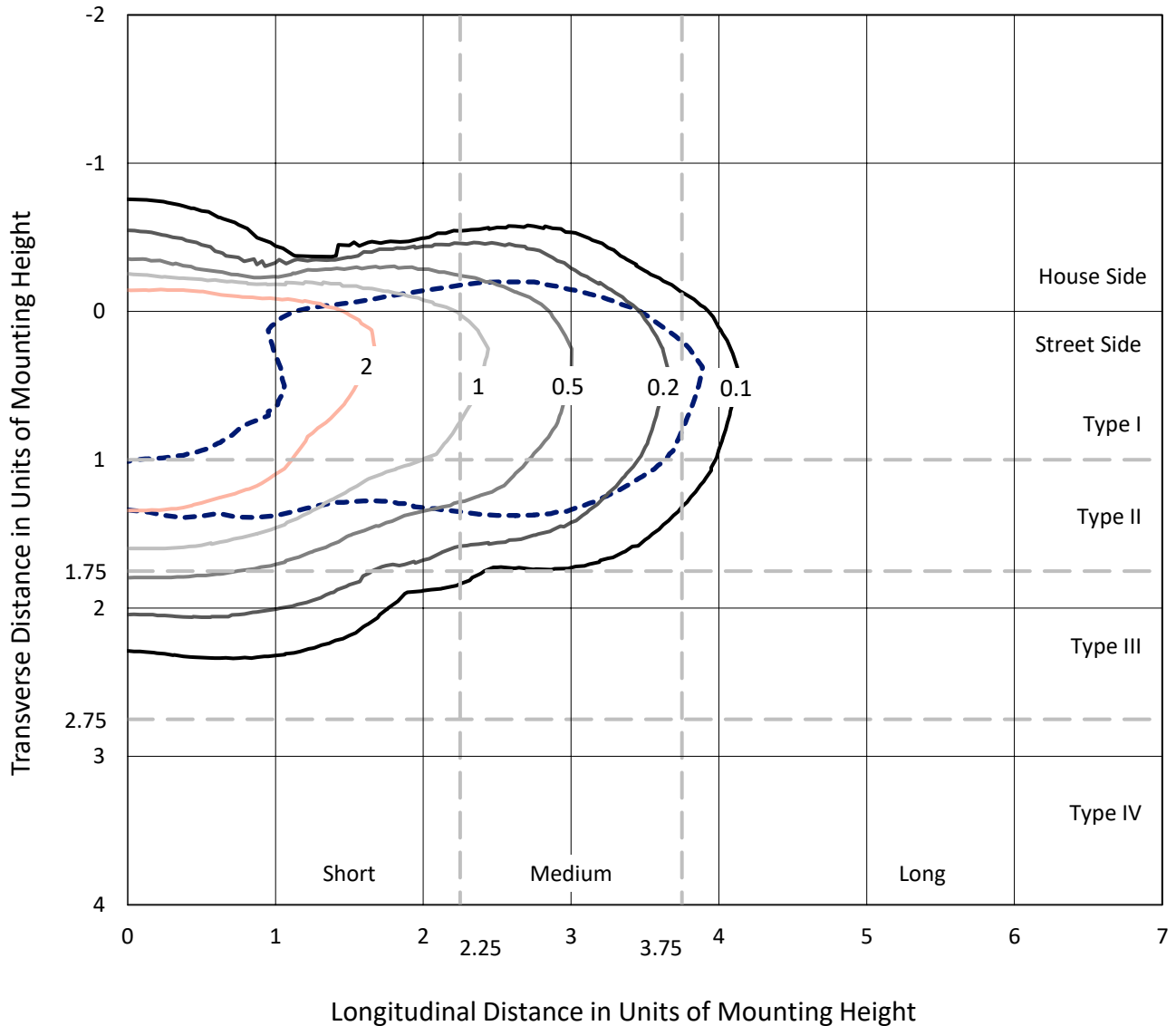
Lumens per Lamp: N/A  
Luminaire Lumens: 4806.6 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1  
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

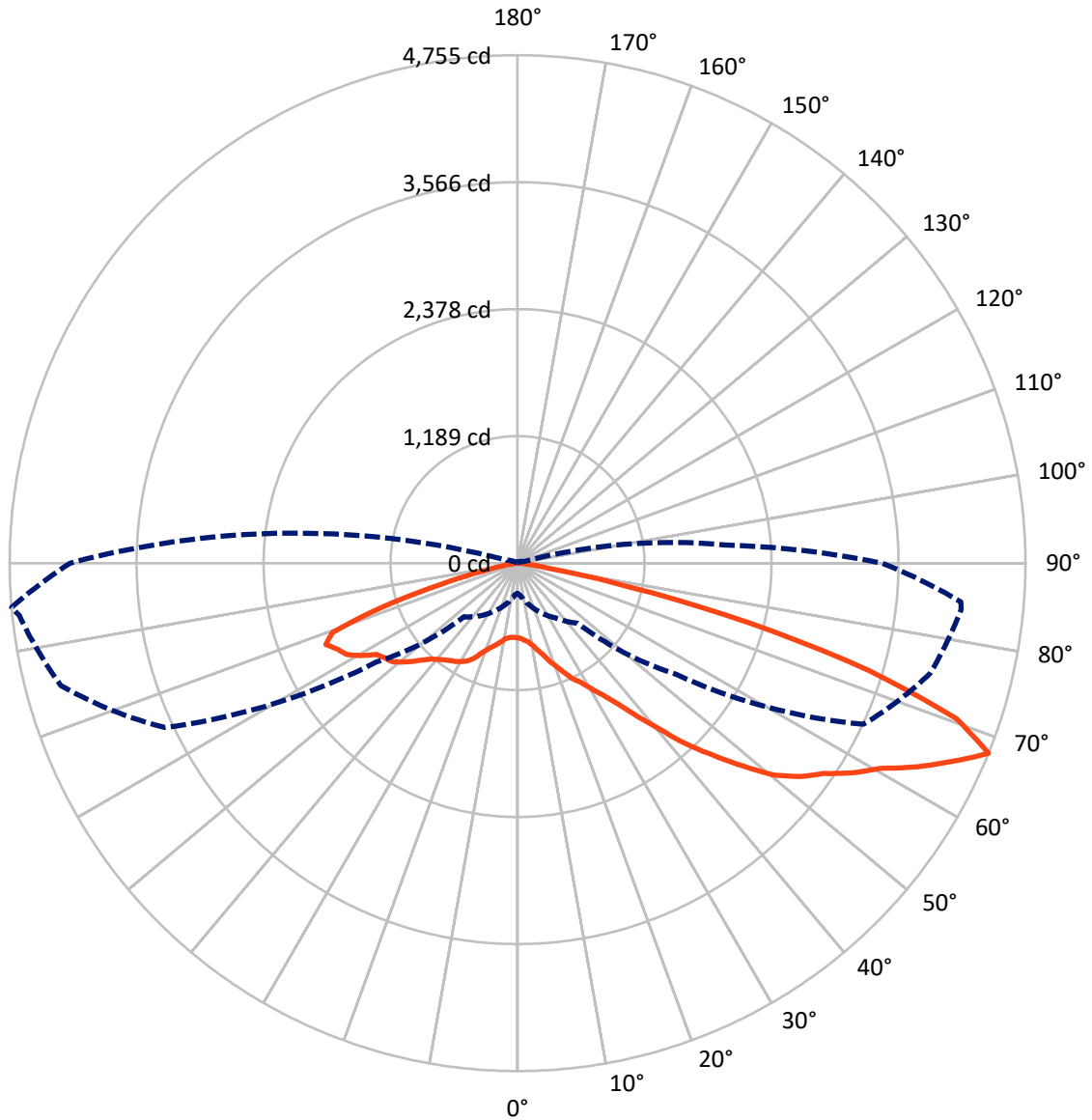
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.7 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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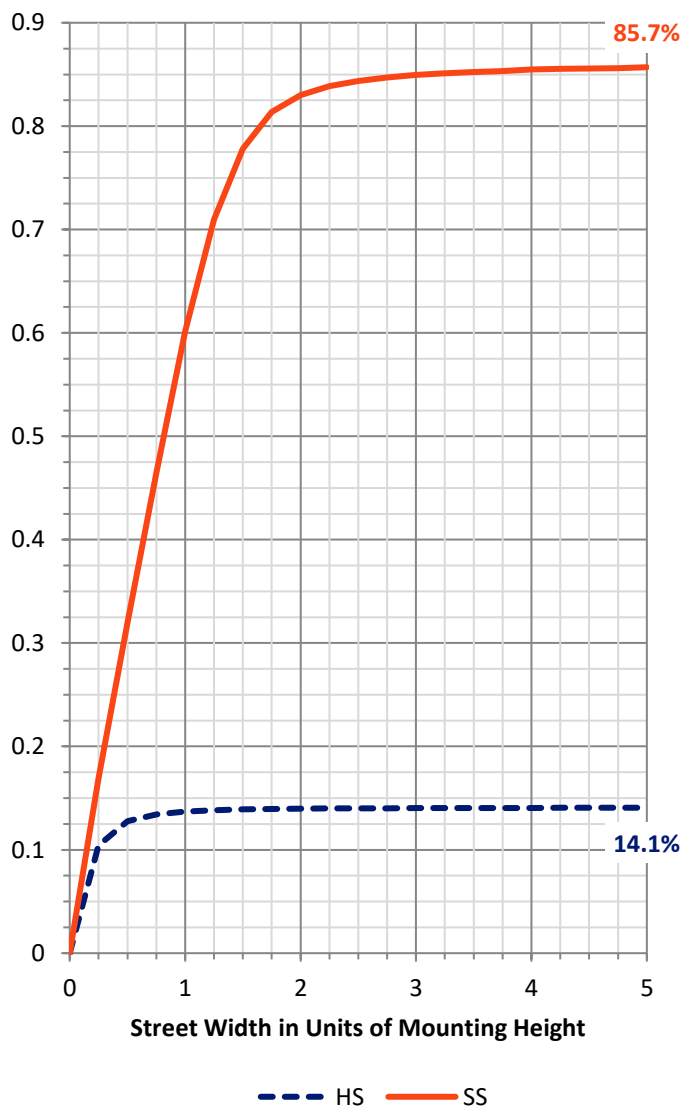
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	682.8	0.0	682.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	4123.7	0.0	4123.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	4806.6	0.0	4806.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.7	1.3
10°-20°	171.4	3.6
20°-30°	284.6	5.9
30°-40°	489.7	10.2
40°-50°	879.9	18.3
50°-60°	1252.7	26.1
60°-70°	1142.0	23.8
70°-80°	486.3	10.1
80°-90°	36.2	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°	4806.6	100.0
0°-180°	4806.6	100.0



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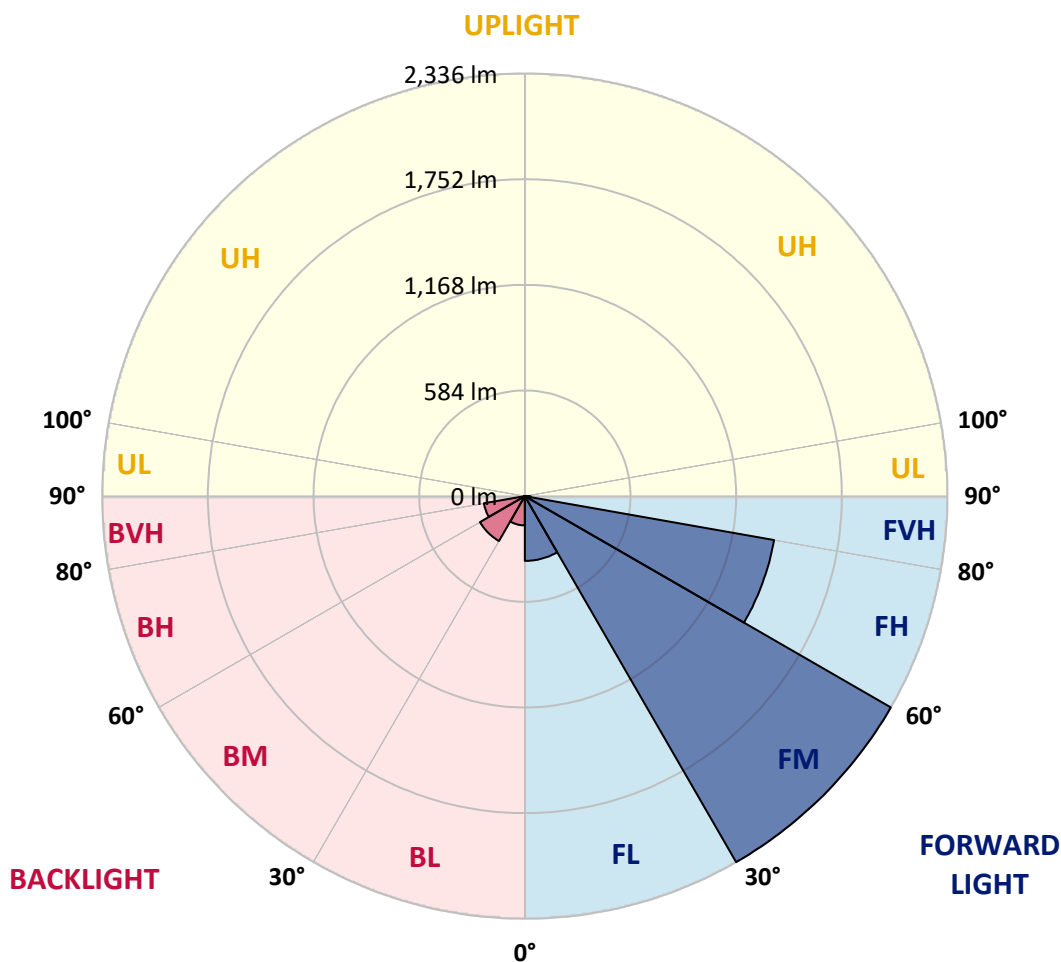
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	358.1	7.4			
FM (30°-60°)	2336.0	48.6			
FH (60°-80°)	1398.9	29.1			G1/1800
FVH (80°-90°)	30.7	0.6			G1/100
BL (0°-30°)	161.6	3.4	B1/500		
BM (30°-60°)	286.3	6.0	B1/1000		
BH (60°-80°)	229.5	4.8	B1/500		G1/500
BVH (80°-90°)	5.5	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°	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9
2.5°	724.2	731.0	731.0	728.7	721.9	717.3	715.0	710.4	705.8	705.8	708.1
5°	731.0	724.2	733.3	721.9	721.9	721.9	731.0	726.4	724.2	712.7	712.7
7.5°	731.0	724.2	724.2	731.0	724.2	728.7	740.2	735.6	744.8	724.2	728.7
10°	710.4	708.1	712.7	721.9	724.2	733.3	744.8	767.7	770.0	756.2	753.9
12.5°	669.2	666.9	682.9	687.5	715.0	737.9	772.3	790.6	811.2	804.4	790.6
15°	639.4	643.9	655.4	673.7	698.9	740.2	779.2	820.4	857.1	847.9	843.3
17.5°	650.8	648.5	650.8	662.3	694.4	735.6	802.1	850.2	902.9	902.9	907.5
20°	685.2	692.1	689.8	682.9	698.9	733.3	802.1	886.9	973.9	967.1	967.1
22.5°	744.8	747.1	733.3	728.7	726.4	747.1	815.8	932.7	1033.5	1047.3	1042.7
25°	806.6	808.9	804.4	790.6	772.3	776.9	841.0	969.4	1116.0	1138.9	1134.4
27.5°	909.8	907.5	896.0	880.0	852.5	831.9	880.0	996.9	1180.2	1219.1	1207.7
30°	1012.9	1006.0	990.0	969.4	944.1	905.2	928.1	1049.6	1260.4	1297.1	1271.8
32.5°	1138.9	1125.2	1129.8	1097.7	1045.0	983.1	978.5	1097.7	1324.6	1377.3	1356.6
35°	1299.3	1283.3	1260.4	1230.6	1180.2	1097.7	1072.5	1175.6	1432.3	1471.2	1471.2
37.5°	1510.2	1526.2	1498.7	1375.0	1320.0	1242.1	1189.3	1255.8	1526.2	1620.2	1597.3
40°	1725.6	1739.3	1688.9	1597.3	1478.1	1381.8	1349.8	1386.4	1668.3	1780.6	1737.0
42.5°	1899.8	1918.1	1899.8	1780.6	1686.6	1562.9	1505.6	1540.0	1851.6	1986.8	1929.5
45°	2083.1	2101.4	2080.8	2002.9	1911.2	1840.2	1695.8	1739.3	2044.1	2245.8	2181.6
47.5°	2220.6	2243.5	2206.8	2190.8	2117.5	2106.0	1860.8	1908.9	2245.8	2507.0	2426.8
50°	2252.7	2277.9	2310.0	2328.3	2303.1	2330.6	2083.1	2124.3	2456.6	2747.7	2669.7
52.5°	2177.0	2202.2	2273.3	2358.1	2474.9	2557.4	2307.7	2342.0	2676.6	2947.0	2905.8
55°	1954.8	1977.7	2122.0	2236.6	2516.2	2651.4	2523.1	2667.4	2834.7	3155.6	3054.7
57.5°	1581.2	1608.7	1798.9	1975.4	2378.7	2598.7	2651.4	2937.9	3096.0	3309.1	3192.2
60°	1122.9	1138.9	1303.9	1615.6	1998.3	2335.2	2626.2	3139.5	3302.2	3515.3	3453.5
62.5°	646.2	660.0	831.9	1125.2	1507.9	1950.2	2513.9	3329.7	3524.5	3742.2	3707.8
65°	428.5	433.1	550.0	710.4	980.8	1436.8	2229.7	3499.3	3744.5	3923.3	3884.3
67.5°	281.9	307.1	398.7	508.7	627.9	795.2	1817.3	3570.3	3996.6	4175.3	4166.2
70°	201.7	210.8	286.5	391.9	472.1	446.9	1063.3	3068.5	3985.1	4244.1	4168.5
72.5°	119.2	128.3	190.2	293.3	371.2	284.2	497.3	2170.2	3302.2	3387.0	3366.4
75°	87.1	87.1	116.9	210.8	270.4	204.0	233.7	1372.7	2193.1	2381.0	2378.7
77.5°	61.9	64.2	80.2	126.0	208.5	149.0	128.3	763.1	1198.5	1310.8	1248.9
80°	36.7	39.0	55.0	75.6	151.2	107.7	84.8	348.3	460.6	465.2	442.3
82.5°	27.5	27.5	36.7	52.7	105.4	73.3	52.7	132.9	149.0	135.2	114.6
85°	16.0	13.7	27.5	39.0	61.9	41.2	36.7	61.9	68.7	50.4	45.8
87.5°	4.6	4.6	11.5	13.7	27.5	22.9	16.0	22.9	32.1	18.3	13.7
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°	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9
2.5°	703.5	696.7	685.2	680.6	664.6	657.7	653.1	641.7	643.9	637.1	637.1
5°	696.7	696.7	673.7	648.5	623.3	607.3	588.9	566.0	566.0	556.9	559.2
7.5°	721.9	703.5	673.7	627.9	586.7	550.0	533.9	511.0	497.3	490.4	490.4
10°	737.9	719.6	669.2	614.2	561.4	515.6	481.2	449.2	430.8	430.8	428.5
12.5°	781.4	753.9	687.5	611.9	533.9	465.2	412.5	375.8	350.6	332.3	336.9
15°	818.1	788.3	696.7	593.5	485.8	389.6	325.4	256.7	222.3	204.0	197.1
17.5°	875.4	820.4	717.3	561.4	412.5	304.8	210.8	153.5	139.8	137.5	137.5
20°	923.5	859.4	719.6	499.6	339.2	194.8	135.2	126.0	119.2	116.9	114.6
22.5°	990.0	909.8	710.4	428.5	242.9	130.6	114.6	105.4	100.8	94.0	94.0
25°	1058.7	976.2	692.1	362.1	149.0	112.3	100.8	91.7	82.5	77.9	80.2
27.5°	1132.1	1026.6	639.4	281.9	114.6	98.5	82.5	75.6	71.0	68.7	68.7
30°	1191.6	1058.7	561.4	187.9	103.1	87.1	73.3	66.5	61.9	59.6	59.6
32.5°	1235.2	1086.2	474.4	126.0	94.0	77.9	66.5	59.6	55.0	52.7	52.7
35°	1308.5	1106.9	394.2	107.7	84.8	68.7	57.3	52.7	48.1	48.1	48.1
37.5°	1420.8	1134.4	314.0	98.5	77.9	61.9	55.0	48.1	45.8	43.5	43.5
40°	1519.3	1168.7	224.6	89.4	71.0	57.3	48.1	43.5	41.2	39.0	39.0
42.5°	1661.4	1207.7	146.7	80.2	64.2	52.7	43.5	39.0	36.7	34.4	34.4
45°	1842.5	1271.8	114.6	71.0	57.3	48.1	41.2	36.7	32.1	32.1	29.8
47.5°	2035.0	1349.8	103.1	66.5	52.7	43.5	36.7	32.1	29.8	27.5	27.5
50°	2213.7	1425.4	96.2	61.9	48.1	41.2	34.4	29.8	25.2	22.9	22.9
52.5°	2374.1	1496.4	91.7	57.3	45.8	36.7	29.8	25.2	22.9	20.6	20.6
55°	2458.9	1528.5	89.4	55.0	41.2	34.4	27.5	22.9	20.6	18.3	18.3
57.5°	2591.8	1569.8	87.1	52.7	39.0	29.8	25.2	20.6	18.3	16.0	16.0
60°	2807.2	1705.0	84.8	50.4	36.7	29.8	22.9	18.3	13.7	11.5	11.5
62.5°	2986.0	1817.3	75.6	43.5	32.1	25.2	18.3	13.7	9.2	6.9	6.9
65°	3189.9	1870.0	66.5	39.0	27.5	20.6	13.7	9.2	6.9	2.3	2.3
67.5°	3412.2	1950.2	55.0	34.4	25.2	16.0	11.5	6.9	2.3	0.0	0.0
70°	3295.3	1849.3	45.8	29.8	22.9	13.7	9.2	4.6	0.0	0.0	0.0
72.5°	2582.7	1324.6	36.7	27.5	20.6	13.7	9.2	2.3	0.0	0.0	0.0
75°	1725.6	749.4	32.1	22.9	16.0	11.5	6.9	2.3	0.0	0.0	0.0
77.5°	937.3	336.9	27.5	20.6	13.7	9.2	6.9	2.3	0.0	0.0	0.0
80°	304.8	132.9	22.9	18.3	13.7	9.2	6.9	2.3	0.0	0.0	0.0
82.5°	82.5	41.2	22.9	18.3	13.7	9.2	6.9	2.3	0.0	0.0	0.0
85°	34.4	27.5	22.9	18.3	13.7	9.2	6.9	2.3	0.0	0.0	0.0
87.5°	13.7	9.2	9.2	11.5	9.2	6.9	4.6	2.3	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°	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9
2.5°	639.4	643.9	646.2	646.2	657.7	669.2	682.9	694.4	694.4	701.2	708.1
5°	561.4	566.0	572.9	593.5	616.4	641.7	666.9	685.2	710.4	721.9	728.7
7.5°	497.3	501.9	520.2	540.8	572.9	616.4	660.0	701.2	726.4	737.9	747.1
10°	430.8	437.7	458.3	495.0	536.2	588.9	639.4	710.4	751.7	774.6	783.7
12.5°	334.6	352.9	380.4	419.4	472.1	552.3	646.2	719.6	790.6	818.1	836.4
15°	210.8	226.9	270.4	332.3	403.3	497.3	627.9	733.3	831.9	859.4	889.1
17.5°	135.2	137.5	151.2	217.7	309.4	428.5	600.4	753.9	877.7	916.6	962.5
20°	114.6	119.2	121.5	130.6	206.2	352.9	543.1	779.2	932.7	985.4	1028.9
22.5°	96.2	98.5	103.1	110.0	123.7	256.7	465.2	779.2	980.8	1058.7	1109.1
25°	77.9	82.5	87.1	94.0	107.7	160.4	385.0	765.4	1038.1	1134.4	1198.5
27.5°	68.7	68.7	73.3	80.2	91.7	112.3	304.8	724.2	1081.6	1180.2	1265.0
30°	59.6	61.9	64.2	71.0	82.5	98.5	210.8	657.7	1127.5	1269.6	1365.8
32.5°	52.7	52.7	57.3	61.9	73.3	89.4	135.2	556.9	1187.1	1338.3	1473.5
35°	48.1	48.1	50.4	55.0	66.5	80.2	105.4	472.1	1258.1	1468.9	1617.9
37.5°	43.5	43.5	45.8	50.4	59.6	71.0	96.2	405.6	1331.4	1599.5	1817.3
40°	39.0	39.0	41.2	45.8	52.7	64.2	87.1	327.7	1423.1	1792.0	2035.0
42.5°	34.4	34.4	36.7	41.2	48.1	57.3	75.6	245.2	1544.6	2000.6	2316.8
45°	29.8	29.8	32.1	36.7	41.2	52.7	68.7	187.9	1677.5	2232.0	2564.3
47.5°	25.2	27.5	29.8	34.4	39.0	48.1	61.9	165.0	1808.1	2477.2	2839.3
50°	22.9	22.9	25.2	29.8	36.7	43.5	57.3	162.7	1941.0	2665.2	3121.2
52.5°	20.6	20.6	22.9	27.5	34.4	41.2	55.0	167.3	2051.0	2839.3	3318.3
55°	18.3	18.3	20.6	22.9	29.8	39.0	50.4	171.9	2128.9	3015.8	3476.4
57.5°	16.0	16.0	18.3	22.9	27.5	34.4	45.8	176.5	2255.0	3189.9	3705.5
60°	11.5	11.5	16.0	20.6	25.2	29.8	43.5	181.0	2456.6	3430.6	3900.3
62.5°	6.9	6.9	9.2	16.0	20.6	27.5	39.0	171.9	2644.5	3739.9	4198.2
65°	2.3	4.6	6.9	9.2	16.0	22.9	32.1	155.8	2802.6	4049.3	4473.2
67.5°	0.0	0.0	2.3	6.9	13.7	18.3	27.5	114.6	2827.9	4189.1	4755.1
70°	0.0	0.0	2.3	6.9	11.5	18.3	25.2	64.2	2408.5	3742.2	4358.7
72.5°	0.0	0.0	0.0	4.6	11.5	16.0	22.9	48.1	1776.0	2821.0	3444.3
75°	0.0	0.0	0.0	2.3	9.2	13.7	20.6	36.7	1079.4	1881.4	2248.1
77.5°	0.0	0.0	0.0	2.3	6.9	13.7	20.6	32.1	380.4	896.0	1056.4
80°	0.0	0.0	0.0	4.6	9.2	13.7	18.3	27.5	91.7	224.6	302.5
82.5°	0.0	0.0	0.0	2.3	6.9	11.5	16.0	22.9	36.7	66.5	105.4
85°	0.0	0.0	0.0	2.3	4.6	11.5	16.0	20.6	25.2	32.1	45.8
87.5°	0.0	0.0	0.0	0.0	2.3	4.6	6.9	9.2	9.2	9.2	16.0
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):**

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9
2.5°	705.8	715.0	719.6	728.7	733.3	731.0	728.7	735.6	731.0	724.2
5°	731.0	731.0	737.9	740.2	740.2	733.3	737.9	735.6	731.0	731.0
7.5°	758.5	770.0	770.0	756.2	753.9	749.4	749.4	731.0	724.2	731.0
10°	786.0	795.2	797.5	781.4	760.8	751.7	740.2	717.3	705.8	710.4
12.5°	843.3	843.3	818.1	799.8	772.3	740.2	712.7	680.6	664.6	669.2
15°	884.6	893.7	859.4	818.1	770.0	710.4	680.6	655.4	646.2	639.4
17.5°	964.8	946.4	891.4	831.9	763.1	701.2	680.6	657.7	650.8	650.8
20°	1033.5	1024.4	941.9	834.1	760.8	719.6	705.8	694.4	692.1	685.2
22.5°	1127.5	1086.2	980.8	859.4	786.0	749.4	744.8	756.2	749.4	744.8
25°	1198.5	1164.1	1010.6	896.0	825.0	813.5	820.4	831.9	813.5	806.6
27.5°	1294.8	1230.6	1067.9	944.1	877.7	889.1	912.1	914.4	902.9	909.8
30°	1384.1	1315.4	1111.4	999.1	967.1	978.5	1012.9	1038.1	1022.1	1012.9
32.5°	1512.5	1407.1	1198.5	1090.8	1079.4	1109.1	1148.1	1164.1	1143.5	1138.9
35°	1647.7	1512.5	1287.9	1193.9	1214.6	1255.8	1290.2	1317.7	1285.6	1299.3
37.5°	1858.5	1682.0	1439.1	1356.6	1365.8	1381.8	1446.0	1521.6	1537.7	1510.2
40°	2078.5	1865.4	1578.9	1514.8	1535.4	1578.9	1654.5	1725.6	1762.3	1725.6
42.5°	2332.9	2041.8	1794.3	1718.7	1739.3	1801.2	1902.0	1959.3	1954.8	1899.8
45°	2646.8	2287.0	1996.0	1902.0	1977.7	2032.7	2133.5	2140.4	2096.8	2083.1
47.5°	2887.4	2493.3	2213.7	2154.1	2257.2	2259.5	2282.5	2284.7	2236.6	2220.6
50°	3153.3	2731.6	2456.6	2369.5	2543.7	2463.5	2401.6	2360.4	2287.0	2252.7
52.5°	3414.5	2901.2	2681.2	2591.8	2772.9	2559.7	2447.4	2321.4	2213.7	2177.0
55°	3554.3	3180.8	3008.9	2800.4	2823.3	2587.2	2305.4	2147.2	1963.9	1954.8
57.5°	3719.3	3368.7	3286.2	2942.4	2738.5	2394.7	2009.7	1801.2	1604.1	1581.2
60°	3914.1	3666.6	3579.5	2919.5	2438.3	2012.0	1592.7	1324.6	1138.9	1122.9
62.5°	4131.8	4019.5	3760.5	2694.9	1936.4	1416.2	1051.9	827.3	655.4	646.2
65°	4475.5	4315.1	3856.8	2268.7	1281.0	907.5	698.9	536.2	433.1	428.5
67.5°	4690.9	4427.4	3641.4	1617.9	710.4	600.4	490.4	389.6	300.2	281.9
70°	4386.2	4063.0	2880.6	925.8	412.5	456.0	378.1	261.2	206.2	201.7
72.5°	3503.9	3015.8	1938.7	435.4	256.7	357.5	275.0	176.5	123.7	119.2
75°	2390.2	1897.5	1216.8	201.7	181.0	261.2	201.7	103.1	87.1	87.1
77.5°	1067.9	967.1	623.3	123.7	135.2	199.4	116.9	71.0	64.2	61.9
80°	325.4	341.5	254.4	84.8	100.8	151.2	71.0	48.1	39.0	36.7
82.5°	110.0	128.3	114.6	50.4	68.7	107.7	48.1	32.1	27.5	27.5
85°	52.7	64.2	57.3	32.1	36.7	52.7	39.0	25.2	16.0	16.0
87.5°	20.6	29.8	20.6	13.7	20.6	27.5	16.0	11.5	4.6	4.6
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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