

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: P676314

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676314  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-827-U-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T2 distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

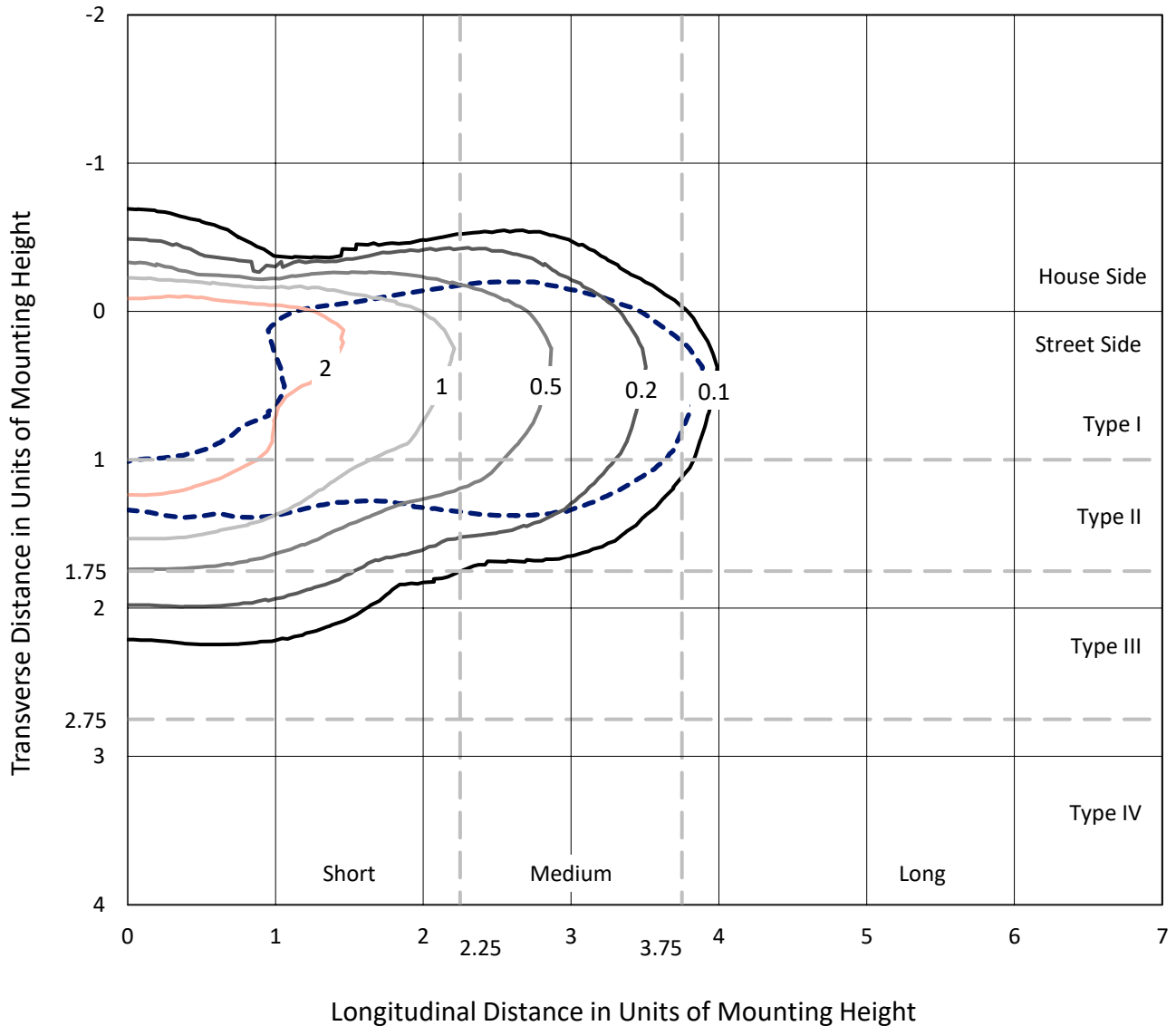
Lumens per Lamp: N/A  
Luminaire Lumens: 3919.4 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 46  
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

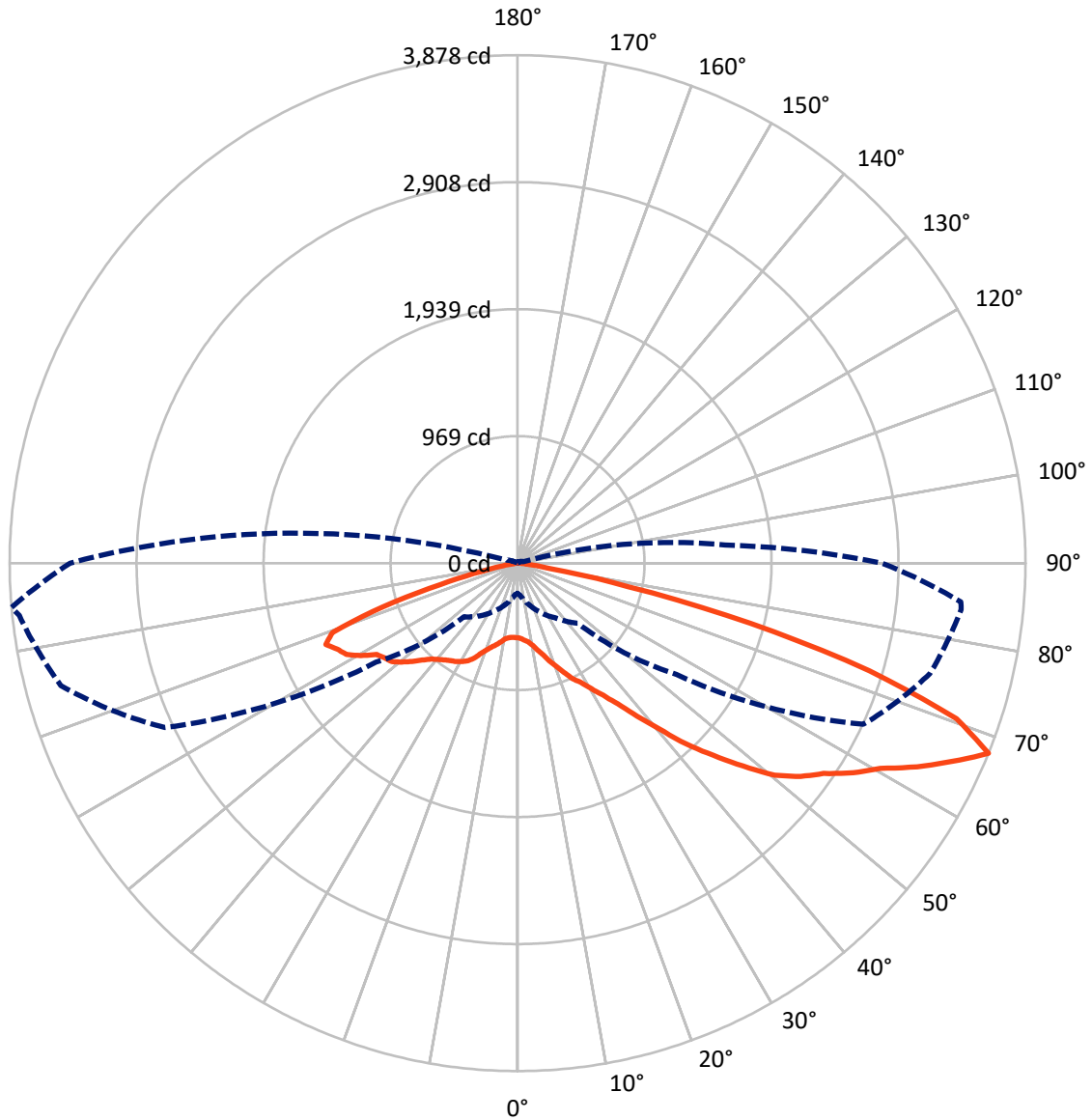
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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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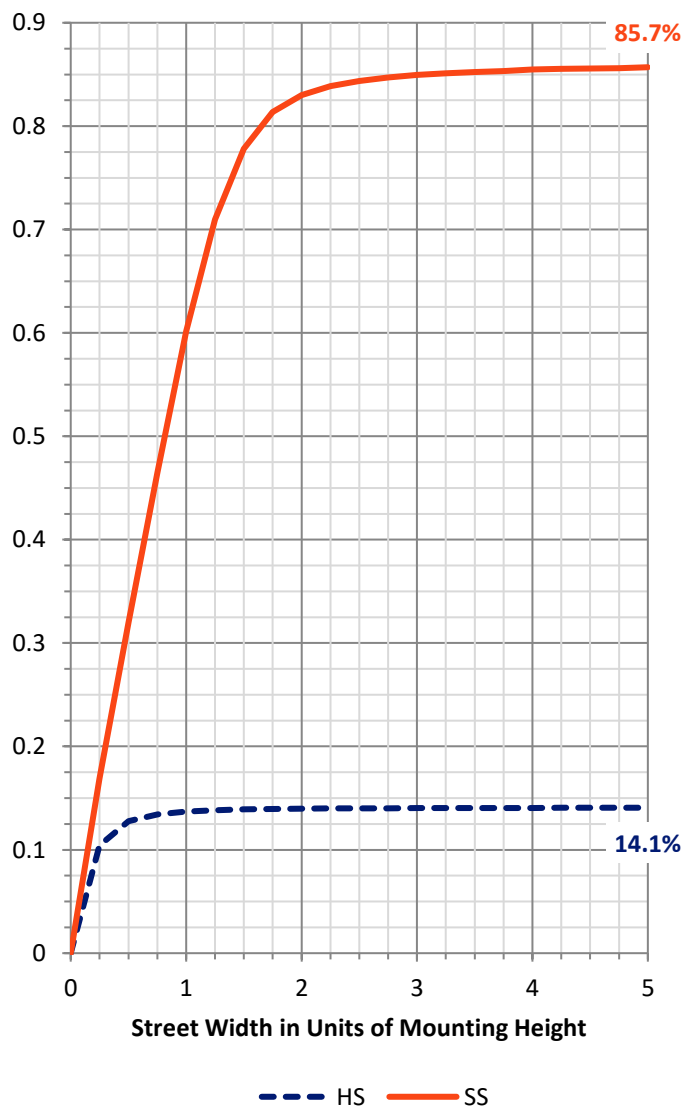
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	556.8	0.0	556.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	3362.6	0.0	3362.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	3919.4	0.0	3919.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.0	1.3
10°-20°	139.8	3.6
20°-30°	232.1	5.9
30°-40°	399.3	10.2
40°-50°	717.5	18.3
50°-60°	1021.5	26.1
60°-70°	931.3	23.8
70°-80°	396.5	10.1
80°-90°	29.5	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°	3919.4	100.0
0°-180°	3919.4	100.0



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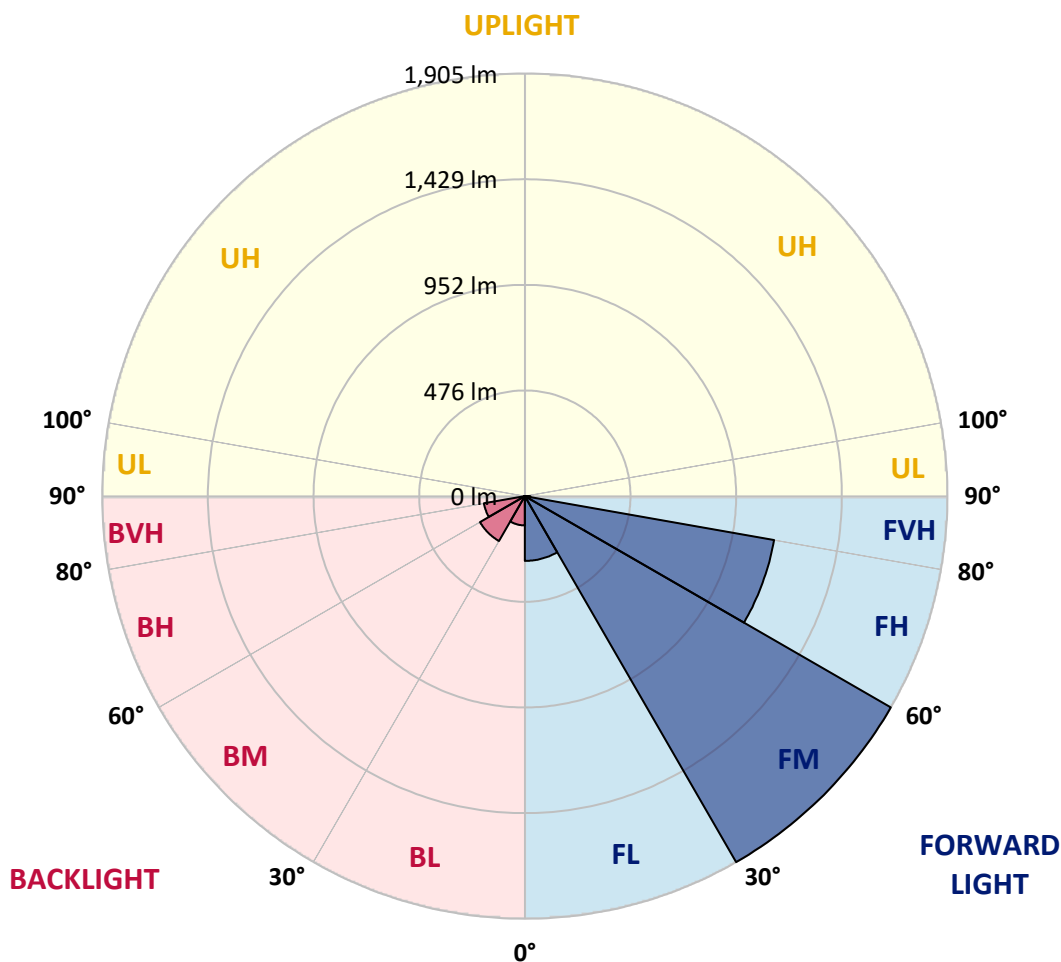
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.0	7.4			
FM (30°-60°)	1904.9	48.6			
FH (60°-80°)	1140.7	29.1			G1/1800
FVH (80°-90°)	25.1	0.6			G1/100
BL (0°-30°)	131.8	3.4	B1/500		
BM (30°-60°)	233.4	6.0	B1/1000		
BH (60°-80°)	187.1	4.8	B1/500		G1/500
BVH (80°-90°)	4.5	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°	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9
2.5°	590.5	596.1	596.1	594.2	588.6	584.9	583.0	579.3	575.6	575.6	577.4
5°	596.1	590.5	598.0	588.6	588.6	588.6	596.1	592.4	590.5	581.2	581.2
7.5°	596.1	590.5	590.5	596.1	590.5	594.2	603.6	599.8	607.3	590.5	594.2
10°	579.3	577.4	581.2	588.6	590.5	598.0	607.3	626.0	627.9	616.7	614.8
12.5°	545.7	543.8	556.9	560.6	583.0	601.7	629.7	644.7	661.5	655.9	644.7
15°	521.4	525.1	534.4	549.4	569.9	603.6	635.3	669.0	698.9	691.4	687.7
17.5°	530.7	528.8	530.7	540.0	566.2	599.8	654.0	693.3	736.3	736.3	740.0
20°	558.7	564.3	562.5	556.9	569.9	598.0	654.0	723.2	794.2	788.6	788.6
22.5°	607.3	609.2	598.0	594.2	592.4	609.2	665.2	760.5	842.8	854.0	850.2
25°	657.8	659.6	655.9	644.7	629.7	633.5	685.8	790.4	910.0	928.7	925.0
27.5°	741.9	740.0	730.7	717.6	695.1	678.3	717.6	812.9	962.4	994.1	984.8
30°	826.0	820.3	807.3	790.4	769.9	738.1	756.8	855.9	1027.8	1057.7	1037.1
32.5°	928.7	917.5	921.3	895.1	852.1	801.7	797.9	895.1	1080.1	1123.1	1106.3
35°	1059.5	1046.5	1027.8	1003.5	962.4	895.1	874.5	958.6	1167.9	1199.7	1199.7
37.5°	1231.5	1244.5	1222.1	1121.2	1076.4	1012.8	969.8	1024.0	1244.5	1321.2	1302.5
40°	1407.1	1418.3	1377.2	1302.5	1205.3	1126.8	1100.6	1130.5	1360.4	1452.0	1416.5
42.5°	1549.1	1564.1	1549.1	1452.0	1375.3	1274.4	1227.7	1255.7	1509.9	1620.1	1573.4
45°	1698.6	1713.6	1696.8	1633.2	1558.5	1500.5	1382.8	1418.3	1666.9	1831.3	1779.0
47.5°	1810.7	1829.4	1799.5	1786.4	1726.7	1717.3	1517.4	1556.6	1831.3	2044.3	1978.9
50°	1836.9	1857.5	1883.6	1898.6	1878.0	1900.4	1698.6	1732.3	2003.2	2240.5	2177.0
52.5°	1775.2	1795.8	1853.7	1922.9	2018.2	2085.4	1881.8	1909.8	2182.6	2403.1	2369.5
55°	1594.0	1612.7	1730.4	1823.8	2051.8	2162.1	2057.4	2175.1	2311.5	2573.2	2490.9
57.5°	1289.4	1311.8	1466.9	1610.8	1939.7	2119.1	2162.1	2395.6	2524.6	2698.4	2603.1
60°	915.6	928.7	1063.3	1317.4	1629.5	1904.2	2141.5	2560.1	2692.8	2866.5	2816.1
62.5°	527.0	538.2	678.3	917.5	1229.6	1590.2	2049.9	2715.2	2874.0	3051.5	3023.5
65°	349.4	353.2	448.5	579.3	799.8	1171.7	1818.2	2853.5	3053.4	3199.2	3167.4
67.5°	229.8	250.4	325.1	414.8	512.0	648.4	1481.9	2911.4	3259.0	3404.7	3397.2
70°	164.4	171.9	233.6	319.5	384.9	364.4	867.1	2502.2	3249.6	3460.8	3399.1
72.5°	97.2	104.6	155.1	239.2	302.7	231.7	405.5	1769.6	2692.8	2761.9	2745.1
75°	71.0	71.0	95.3	171.9	220.5	166.3	190.6	1119.3	1788.3	1941.5	1939.7
77.5°	50.5	52.3	65.4	102.8	170.0	121.5	104.6	622.3	977.3	1068.9	1018.4
80°	29.9	31.8	44.8	61.7	123.3	87.8	69.1	284.0	375.6	379.3	360.7
82.5°	22.4	22.4	29.9	43.0	86.0	59.8	43.0	108.4	121.5	110.3	93.4
85°	13.1	11.2	22.4	31.8	50.5	33.6	29.9	50.5	56.1	41.1	37.4
87.5°	3.7	3.7	9.3	11.2	22.4	18.7	13.1	18.7	26.2	14.9	11.2
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°	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9
2.5°	573.7	568.1	558.7	555.0	541.9	536.3	532.6	523.2	525.1	519.5	519.5
5°	568.1	568.1	549.4	528.8	508.3	495.2	480.2	461.6	461.6	454.1	456.0
7.5°	588.6	573.7	549.4	512.0	478.4	448.5	435.4	416.7	405.5	399.9	399.9
10°	601.7	586.8	545.7	500.8	457.8	420.5	392.4	366.3	351.3	351.3	349.4
12.5°	637.2	614.8	560.6	498.9	435.4	379.3	336.4	306.5	285.9	271.0	274.7
15°	667.1	642.8	568.1	484.0	396.2	317.7	265.4	209.3	181.3	166.3	160.7
17.5°	713.8	669.0	584.9	457.8	336.4	248.5	171.9	125.2	114.0	112.1	112.1
20°	753.1	700.8	586.8	407.4	276.6	158.8	110.3	102.8	97.2	95.3	93.4
22.5°	807.3	741.9	579.3	349.4	198.1	106.5	93.4	86.0	82.2	76.6	76.6
25°	863.3	796.1	564.3	295.3	121.5	91.6	82.2	74.7	67.3	63.5	65.4
27.5°	923.1	837.2	521.4	229.8	93.4	80.4	67.3	61.7	57.9	56.1	56.1
30°	971.7	863.3	457.8	153.2	84.1	71.0	59.8	54.2	50.5	48.6	48.6
32.5°	1007.2	885.8	386.8	102.8	76.6	63.5	54.2	48.6	44.8	43.0	43.0
35°	1067.0	902.6	321.4	87.8	69.1	56.1	46.7	43.0	39.2	39.2	39.2
37.5°	1158.6	925.0	256.0	80.4	63.5	50.5	44.8	39.2	37.4	35.5	35.5
40°	1238.9	953.0	183.1	72.9	57.9	46.7	39.2	35.5	33.6	31.8	31.8
42.5°	1354.8	984.8	119.6	65.4	52.3	43.0	35.5	31.8	29.9	28.0	28.0
45°	1502.4	1037.1	93.4	57.9	46.7	39.2	33.6	29.9	26.2	26.2	24.3
47.5°	1659.4	1100.6	84.1	54.2	43.0	35.5	29.9	26.2	24.3	22.4	22.4
50°	1805.1	1162.3	78.5	50.5	39.2	33.6	28.0	24.3	20.6	18.7	18.7
52.5°	1935.9	1220.2	74.7	46.7	37.4	29.9	24.3	20.6	18.7	16.8	16.8
55°	2005.1	1246.4	72.9	44.8	33.6	28.0	22.4	18.7	16.8	14.9	14.9
57.5°	2113.5	1280.0	71.0	43.0	31.8	24.3	20.6	16.8	14.9	13.1	13.1
60°	2289.1	1390.3	69.1	41.1	29.9	24.3	18.7	14.9	11.2	9.3	9.3
62.5°	2434.9	1481.9	61.7	35.5	26.2	20.6	14.9	11.2	7.5	5.6	5.6
65°	2601.2	1524.8	54.2	31.8	22.4	16.8	11.2	7.5	5.6	1.9	1.9
67.5°	2782.5	1590.2	44.8	28.0	20.6	13.1	9.3	5.6	1.9	0.0	0.0
70°	2687.1	1508.0	37.4	24.3	18.7	11.2	7.5	3.7	0.0	0.0	0.0
72.5°	2106.0	1080.1	29.9	22.4	16.8	11.2	7.5	1.9	0.0	0.0	0.0
75°	1407.1	611.1	26.2	18.7	13.1	9.3	5.6	1.9	0.0	0.0	0.0
77.5°	764.3	274.7	22.4	16.8	11.2	7.5	5.6	1.9	0.0	0.0	0.0
80°	248.5	108.4	18.7	14.9	11.2	7.5	5.6	1.9	0.0	0.0	0.0
82.5°	67.3	33.6	18.7	14.9	11.2	7.5	5.6	1.9	0.0	0.0	0.0
85°	28.0	22.4	18.7	14.9	11.2	7.5	5.6	1.9	0.0	0.0	0.0
87.5°	11.2	7.5	7.5	9.3	7.5	5.6	3.7	1.9	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°	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9
2.5°	521.4	525.1	527.0	527.0	536.3	545.7	556.9	566.2	566.2	571.8	577.4
5°	457.8	461.6	467.2	484.0	502.7	523.2	543.8	558.7	579.3	588.6	594.2
7.5°	405.5	409.2	424.2	441.0	467.2	502.7	538.2	571.8	592.4	601.7	609.2
10°	351.3	356.9	373.7	403.6	437.3	480.2	521.4	579.3	612.9	631.6	639.1
12.5°	272.8	287.8	310.2	342.0	384.9	450.3	527.0	586.8	644.7	667.1	682.1
15°	171.9	185.0	220.5	271.0	328.9	405.5	512.0	598.0	678.3	700.8	725.0
17.5°	110.3	112.1	123.3	177.5	252.3	349.4	489.6	614.8	715.7	747.5	784.8
20°	93.4	97.2	99.0	106.5	168.2	287.8	442.9	635.3	760.5	803.5	839.0
22.5°	78.5	80.4	84.1	89.7	100.9	209.3	379.3	635.3	799.8	863.3	904.4
25°	63.5	67.3	71.0	76.6	87.8	130.8	313.9	624.1	846.5	925.0	977.3
27.5°	56.1	56.1	59.8	65.4	74.7	91.6	248.5	590.5	882.0	962.4	1031.5
30°	48.6	50.5	52.3	57.9	67.3	80.4	171.9	536.3	919.4	1035.2	1113.7
32.5°	43.0	43.0	46.7	50.5	59.8	72.9	110.3	454.1	968.0	1091.3	1201.6
35°	39.2	39.2	41.1	44.8	54.2	65.4	86.0	384.9	1025.9	1197.8	1319.3
37.5°	35.5	35.5	37.4	41.1	48.6	57.9	78.5	330.8	1085.7	1304.3	1481.9
40°	31.8	31.8	33.6	37.4	43.0	52.3	71.0	267.2	1160.4	1461.3	1659.4
42.5°	28.0	28.0	29.9	33.6	39.2	46.7	61.7	199.9	1259.5	1631.3	1889.2
45°	24.3	24.3	26.2	29.9	33.6	43.0	56.1	153.2	1367.9	1820.1	2091.0
47.5°	20.6	22.4	24.3	28.0	31.8	39.2	50.5	134.5	1474.4	2020.0	2315.3
50°	18.7	18.7	20.6	24.3	29.9	35.5	46.7	132.7	1582.8	2173.3	2545.1
52.5°	16.8	16.8	18.7	22.4	28.0	33.6	44.8	136.4	1672.5	2315.3	2705.8
55°	14.9	14.9	16.8	18.7	24.3	31.8	41.1	140.2	1736.0	2459.2	2834.8
57.5°	13.1	13.1	14.9	18.7	22.4	28.0	37.4	143.9	1838.8	2601.2	3021.6
60°	9.3	9.3	13.1	16.8	20.6	24.3	35.5	147.6	2003.2	2797.4	3180.5
62.5°	5.6	5.6	7.5	13.1	16.8	22.4	31.8	140.2	2156.4	3049.7	3423.4
65°	1.9	3.7	5.6	7.5	13.1	18.7	26.2	127.1	2285.4	3301.9	3647.6
67.5°	0.0	0.0	1.9	5.6	11.2	14.9	22.4	93.4	2305.9	3415.9	3877.5
70°	0.0	0.0	1.9	5.6	9.3	14.9	20.6	52.3	1964.0	3051.5	3554.2
72.5°	0.0	0.0	0.0	3.7	9.3	13.1	18.7	39.2	1448.2	2300.3	2808.6
75°	0.0	0.0	0.0	1.9	7.5	11.2	16.8	29.9	880.1	1534.2	1833.2
77.5°	0.0	0.0	0.0	1.9	5.6	11.2	16.8	26.2	310.2	730.7	861.5
80°	0.0	0.0	0.0	3.7	7.5	11.2	14.9	22.4	74.7	183.1	246.7
82.5°	0.0	0.0	0.0	1.9	5.6	9.3	13.1	18.7	29.9	54.2	86.0
85°	0.0	0.0	0.0	1.9	3.7	9.3	13.1	16.8	20.6	26.2	37.4
87.5°	0.0	0.0	0.0	0.0	1.9	3.7	5.6	7.5	7.5	7.5	13.1
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°	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9
2.5°	575.6	583.0	586.8	594.2	598.0	596.1	594.2	599.8	596.1	590.5
5°	596.1	596.1	601.7	603.6	603.6	598.0	601.7	599.8	596.1	596.1
7.5°	618.5	627.9	627.9	616.7	614.8	611.1	611.1	596.1	590.5	596.1
10°	641.0	648.4	650.3	637.2	620.4	612.9	603.6	584.9	575.6	579.3
12.5°	687.7	687.7	667.1	652.2	629.7	603.6	581.2	555.0	541.9	545.7
15°	721.3	728.8	700.8	667.1	627.9	579.3	555.0	534.4	527.0	521.4
17.5°	786.7	771.8	726.9	678.3	622.3	571.8	555.0	536.3	530.7	530.7
20°	842.8	835.3	768.0	680.2	620.4	586.8	575.6	566.2	564.3	558.7
22.5°	919.4	885.8	799.8	700.8	641.0	611.1	607.3	616.7	611.1	607.3
25°	977.3	949.3	824.1	730.7	672.7	663.4	669.0	678.3	663.4	657.8
27.5°	1055.8	1003.5	870.8	769.9	715.7	725.0	743.7	745.6	736.3	741.9
30°	1128.7	1072.6	906.3	814.7	788.6	797.9	826.0	846.5	833.4	826.0
32.5°	1233.3	1147.4	977.3	889.5	880.1	904.4	936.2	949.3	932.5	928.7
35°	1343.6	1233.3	1050.2	973.6	990.4	1024.0	1052.1	1074.5	1048.3	1059.5
37.5°	1515.5	1371.6	1173.5	1106.3	1113.7	1126.8	1179.1	1240.8	1253.9	1231.5
40°	1694.9	1521.1	1287.5	1235.2	1252.0	1287.5	1349.2	1407.1	1437.0	1407.1
42.5°	1902.3	1665.0	1463.2	1401.5	1418.3	1468.8	1551.0	1597.7	1594.0	1549.1
45°	2158.3	1864.9	1627.6	1551.0	1612.7	1657.5	1739.7	1745.3	1709.8	1698.6
47.5°	2354.5	2033.1	1805.1	1756.6	1840.6	1842.5	1861.2	1863.1	1823.8	1810.7
50°	2571.3	2227.5	2003.2	1932.2	2074.2	2008.8	1958.4	1924.7	1864.9	1836.9
52.5°	2784.3	2365.7	2186.3	2113.5	2261.1	2087.3	1995.7	1893.0	1805.1	1775.2
55°	2898.3	2593.7	2453.6	2283.5	2302.2	2109.7	1879.9	1750.9	1601.5	1594.0
57.5°	3032.9	2746.9	2679.7	2399.4	2233.1	1952.8	1638.8	1468.8	1308.1	1289.4
60°	3191.7	2989.9	2918.9	2380.7	1988.3	1640.7	1298.7	1080.1	928.7	915.6
62.5°	3369.2	3277.6	3066.5	2197.6	1579.0	1154.8	857.7	674.6	534.4	527.0
65°	3649.5	3518.7	3145.0	1850.0	1044.6	740.0	569.9	437.3	353.2	349.4
67.5°	3825.2	3610.3	2969.3	1319.3	579.3	489.6	399.9	317.7	244.8	229.8
70°	3576.6	3313.2	2348.9	754.9	336.4	371.9	308.3	213.0	168.2	164.4
72.5°	2857.2	2459.2	1580.9	355.0	209.3	291.5	224.2	143.9	100.9	97.2
75°	1949.0	1547.3	992.3	164.4	147.6	213.0	164.4	84.1	71.0	71.0
77.5°	870.8	788.6	508.3	100.9	110.3	162.6	95.3	57.9	52.3	50.5
80°	265.4	278.4	207.4	69.1	82.2	123.3	57.9	39.2	31.8	29.9
82.5°	89.7	104.6	93.4	41.1	56.1	87.8	39.2	26.2	22.4	22.4
85°	43.0	52.3	46.7	26.2	29.9	43.0	31.8	20.6	13.1	13.1
87.5°	16.8	24.3	16.8	11.2	16.8	22.4	13.1	9.3	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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