

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: P676255

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676255  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-730-U-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T2 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

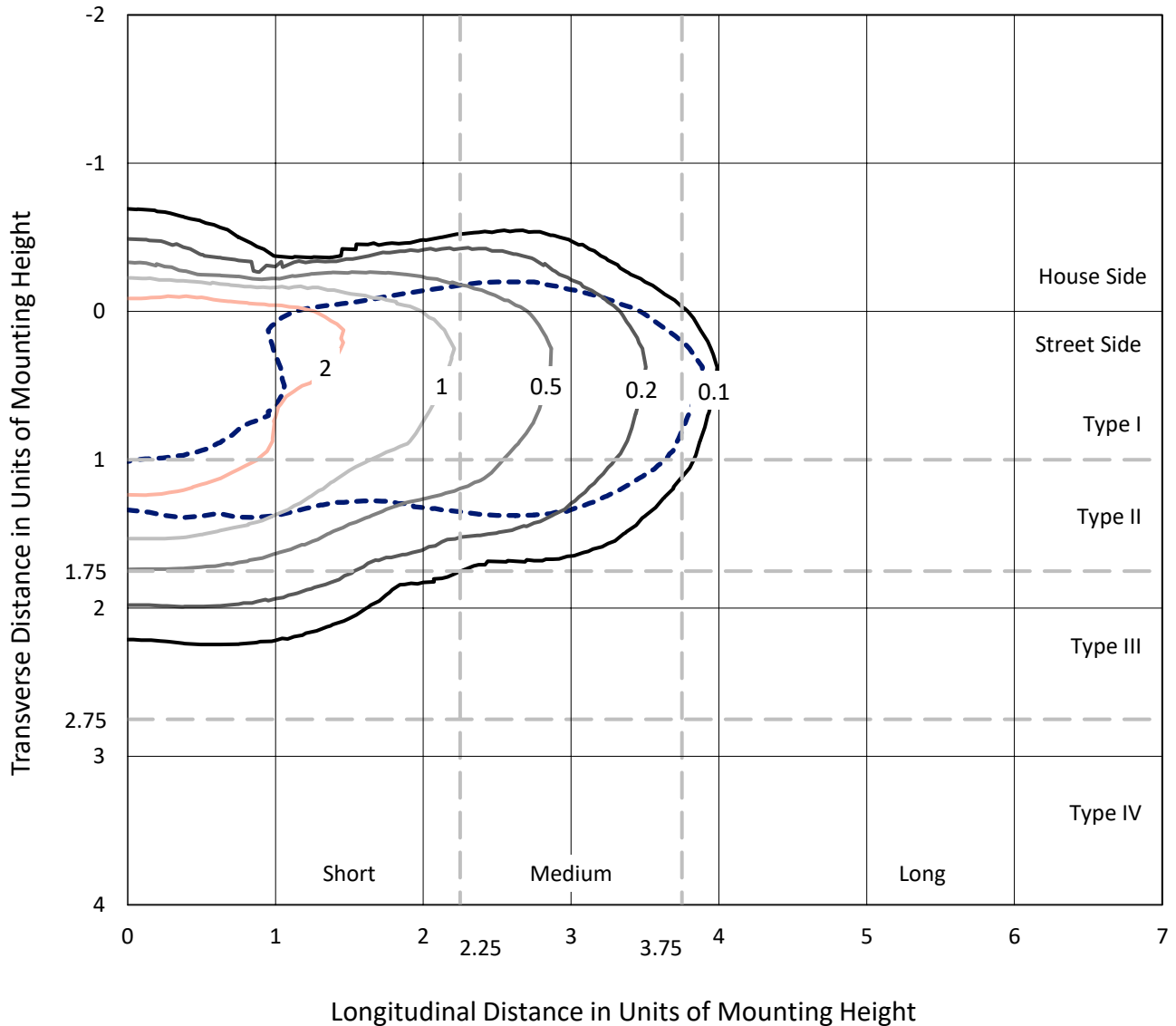
Lumens per Lamp: N/A  
Luminaire Lumens: 3920.7 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

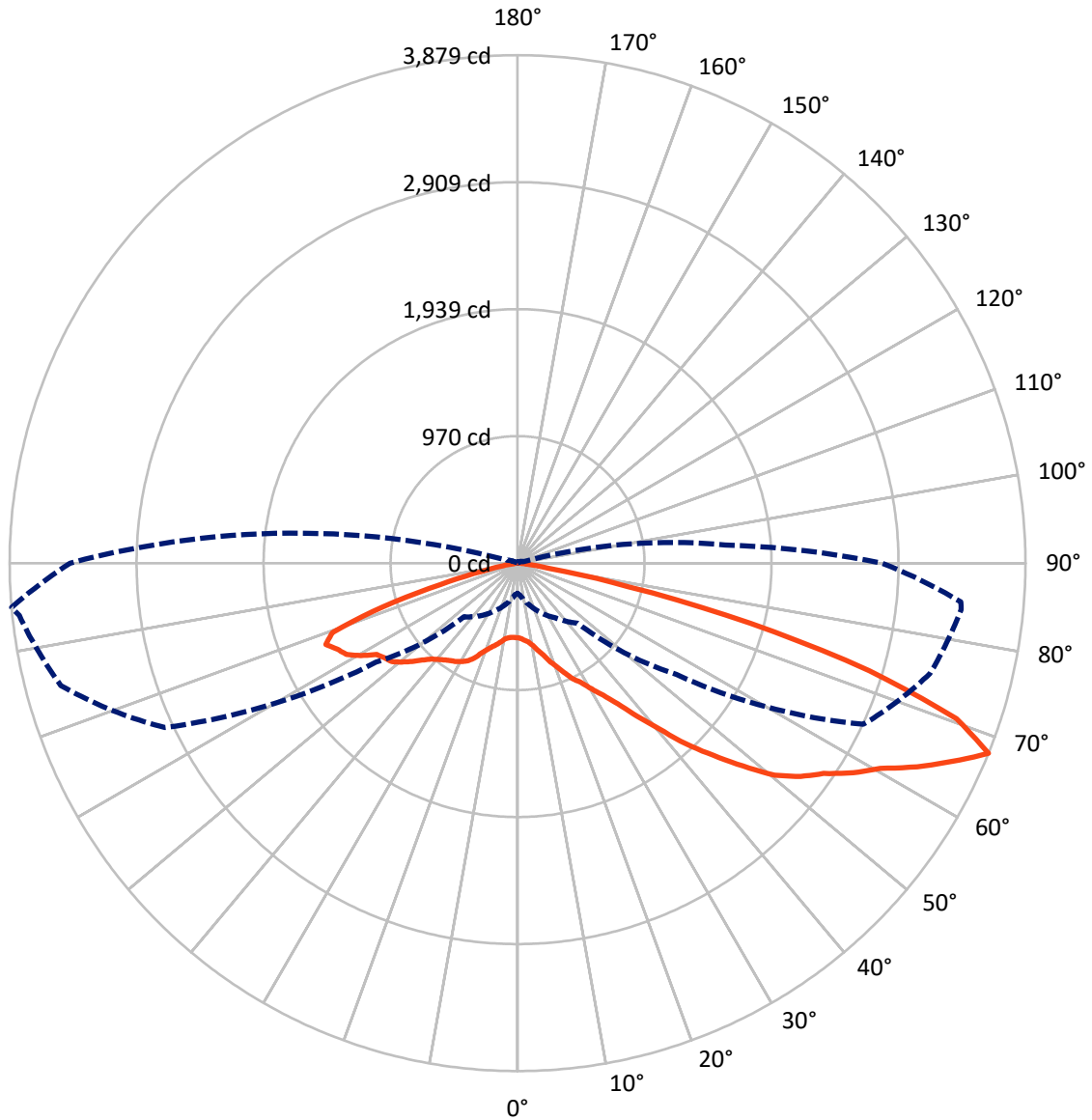
× Max cd  
 - - - 1/2 Max cd



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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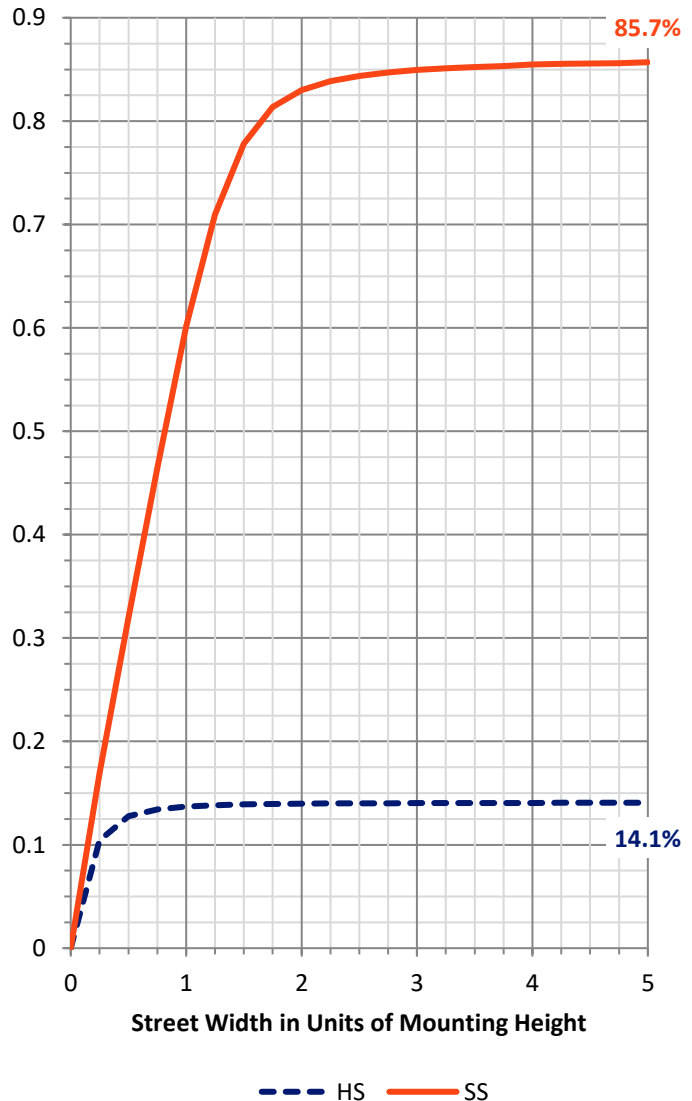
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	557.0	0.0	557.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	3363.7	0.0	3363.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	3920.7	0.0	3920.7
	% 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°	232.2	5.9
30°-40°	399.4	10.2
40°-50°	717.8	18.3
50°-60°	1021.8	26.1
60°-70°	931.6	23.8
70°-80°	396.7	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°	3920.7	100.0
0°-180°	3920.7	100.0



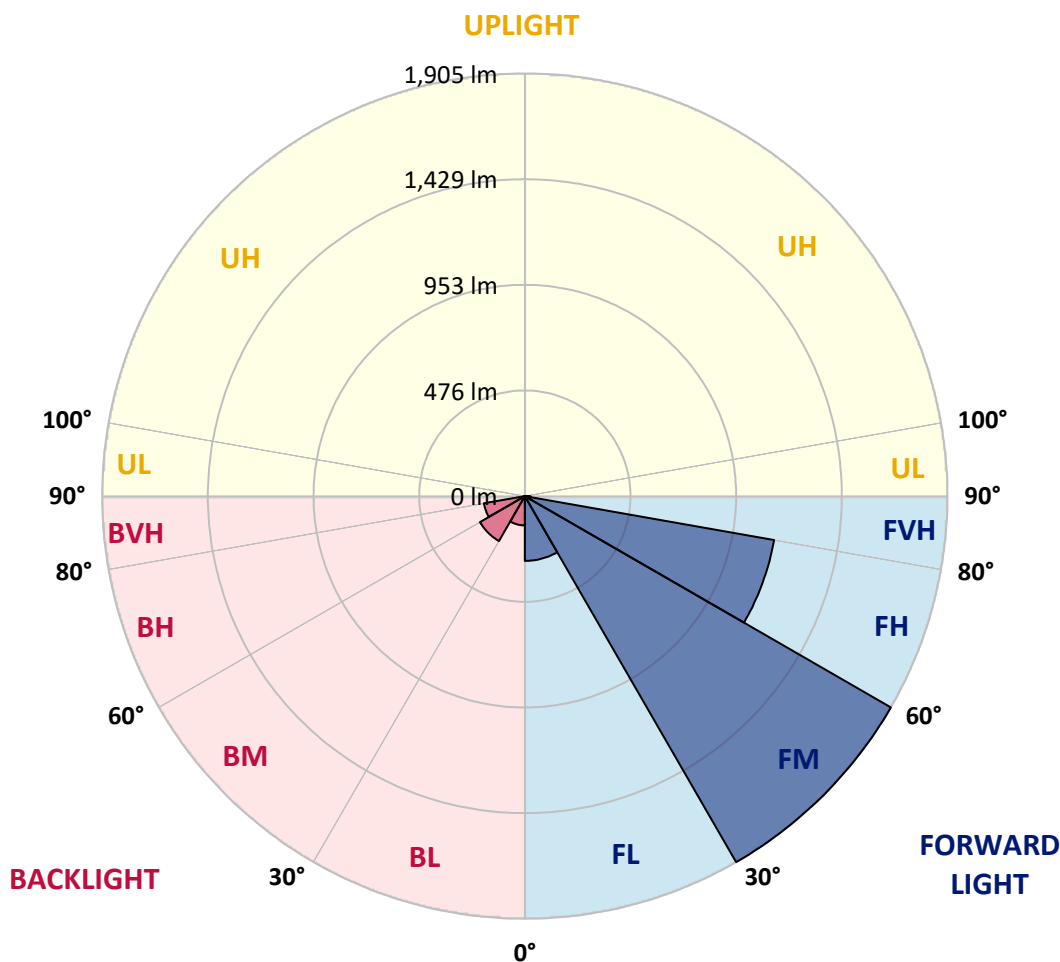
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.1	7.4			
FM (30°-60°)	1905.4	48.6			
FH (60°-80°)	1141.1	29.1			G1/1800
FVH (80°-90°)	25.1	0.6			G1/100
BL (0°-30°)	131.9	3.4	B1/500		
BM (30°-60°)	233.5	6.0	B1/1000		
BH (60°-80°)	187.2	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°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	590.7	596.3	596.3	594.4	588.8	585.1	583.2	579.5	575.7	575.7	577.6
5°	596.3	590.7	598.2	588.8	588.8	588.8	596.3	592.6	590.7	581.3	581.3
7.5°	596.3	590.7	590.7	596.3	590.7	594.4	603.8	600.0	607.5	590.7	594.4
10°	579.5	577.6	581.3	588.8	590.7	598.2	607.5	626.2	628.1	616.9	615.0
12.5°	545.8	544.0	557.0	560.8	583.2	601.9	629.9	644.9	661.7	656.1	644.9
15°	521.5	525.3	534.6	549.6	570.1	603.8	635.5	669.2	699.1	691.6	687.9
17.5°	530.9	529.0	530.9	540.2	566.4	600.0	654.2	693.5	736.5	736.5	740.2
20°	558.9	564.5	562.6	557.0	570.1	598.2	654.2	723.4	794.4	788.8	788.8
22.5°	607.5	609.4	598.2	594.4	592.6	609.4	665.5	760.8	843.0	854.2	850.5
25°	658.0	659.8	656.1	644.9	629.9	633.7	686.0	790.7	910.3	929.0	925.3
27.5°	742.1	740.2	730.9	717.8	695.4	678.5	717.8	813.1	962.7	994.4	985.1
30°	826.2	820.6	807.5	790.7	770.1	738.4	757.0	856.1	1028.1	1058.0	1037.4
32.5°	929.0	917.8	921.5	895.4	852.4	801.9	798.2	895.4	1080.4	1123.4	1106.6
35°	1059.9	1046.8	1028.1	1003.8	962.7	895.4	874.8	958.9	1168.3	1200.1	1200.1
37.5°	1231.8	1244.9	1222.5	1121.5	1076.7	1013.1	970.1	1024.3	1244.9	1321.6	1302.9
40°	1407.5	1418.8	1377.6	1302.9	1205.7	1127.2	1101.0	1130.9	1360.8	1452.4	1416.9
42.5°	1549.6	1564.6	1549.6	1452.4	1375.8	1274.8	1228.1	1256.1	1510.4	1620.6	1573.9
45°	1699.1	1714.1	1697.3	1633.7	1559.0	1501.0	1383.2	1418.8	1667.4	1831.9	1779.5
47.5°	1811.3	1830.0	1800.1	1787.0	1727.2	1717.8	1517.8	1557.1	1831.9	2045.0	1979.5
50°	1837.5	1858.0	1884.2	1899.2	1878.6	1901.0	1699.1	1732.8	2003.8	2241.2	2177.7
52.5°	1775.8	1796.3	1854.3	1923.5	2018.8	2086.1	1882.3	1910.4	2183.3	2403.9	2370.2
55°	1594.5	1613.2	1730.9	1824.4	2052.4	2162.7	2058.0	2175.8	2312.3	2574.0	2491.7
57.5°	1289.8	1312.2	1467.4	1611.3	1940.3	2119.7	2162.7	2396.4	2525.4	2699.2	2603.9
60°	915.9	929.0	1063.6	1317.8	1630.0	1904.8	2142.2	2560.9	2693.6	2867.4	2817.0
62.5°	527.1	538.3	678.5	917.8	1230.0	1590.7	2050.6	2716.0	2874.9	3052.5	3024.4
65°	349.5	353.3	448.6	579.5	800.0	1172.0	1818.8	2854.3	3054.4	3200.2	3168.4
67.5°	229.9	250.5	325.2	415.0	512.2	648.6	1482.3	2912.3	3260.0	3405.8	3398.3
70°	164.5	172.0	233.7	319.6	385.1	364.5	867.3	2502.9	3250.6	3461.8	3400.2
72.5°	97.2	104.7	155.1	239.3	302.8	231.8	405.6	1770.2	2693.6	2762.7	2745.9
75°	71.0	71.0	95.3	172.0	220.6	166.4	190.7	1119.7	1788.9	1942.1	1940.3
77.5°	50.5	52.3	65.4	102.8	170.1	121.5	104.7	622.5	977.6	1069.2	1018.7
80°	29.9	31.8	44.9	61.7	123.4	87.9	69.2	284.1	375.7	379.5	360.8
82.5°	22.4	22.4	29.9	43.0	86.0	59.8	43.0	108.4	121.5	110.3	93.5
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	15.0	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°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	573.9	568.3	558.9	555.2	542.1	536.5	532.7	523.4	525.3	519.7	519.7
5°	568.3	568.3	549.6	529.0	508.4	495.4	480.4	461.7	461.7	454.2	456.1
7.5°	588.8	573.9	549.6	512.2	478.5	448.6	435.5	416.8	405.6	400.0	400.0
10°	601.9	586.9	545.8	501.0	458.0	420.6	392.5	366.4	351.4	351.4	349.5
12.5°	637.4	615.0	560.8	499.1	435.5	379.5	336.5	306.6	286.0	271.0	274.8
15°	667.3	643.0	568.3	484.1	396.3	317.8	265.4	209.4	181.3	166.4	160.8
17.5°	714.1	669.2	585.1	458.0	336.5	248.6	172.0	125.2	114.0	112.2	112.2
20°	753.3	701.0	586.9	407.5	276.6	158.9	110.3	102.8	97.2	95.3	93.5
22.5°	807.5	742.1	579.5	349.5	198.1	106.5	93.5	86.0	82.2	76.6	76.6
25°	863.6	796.3	564.5	295.3	121.5	91.6	82.2	74.8	67.3	63.6	65.4
27.5°	923.4	837.4	521.5	229.9	93.5	80.4	67.3	61.7	57.9	56.1	56.1
30°	972.0	863.6	458.0	153.3	84.1	71.0	59.8	54.2	50.5	48.6	48.6
32.5°	1007.5	886.0	386.9	102.8	76.6	63.6	54.2	48.6	44.9	43.0	43.0
35°	1067.3	902.8	321.5	87.9	69.2	56.1	46.7	43.0	39.3	39.3	39.3
37.5°	1158.9	925.3	256.1	80.4	63.6	50.5	44.9	39.3	37.4	35.5	35.5
40°	1239.3	953.3	183.2	72.9	57.9	46.7	39.3	35.5	33.6	31.8	31.8
42.5°	1355.2	985.1	119.6	65.4	52.3	43.0	35.5	31.8	29.9	28.0	28.0
45°	1502.9	1037.4	93.5	57.9	46.7	39.3	33.6	29.9	26.2	26.2	24.3
47.5°	1659.9	1101.0	84.1	54.2	43.0	35.5	29.9	26.2	24.3	22.4	22.4
50°	1805.7	1162.7	78.5	50.5	39.3	33.6	28.0	24.3	20.6	18.7	18.7
52.5°	1936.5	1220.6	74.8	46.7	37.4	29.9	24.3	20.6	18.7	16.8	16.8
55°	2005.7	1246.8	72.9	44.9	33.6	28.0	22.4	18.7	16.8	15.0	15.0
57.5°	2114.1	1280.4	71.0	43.0	31.8	24.3	20.6	16.8	15.0	13.1	13.1
60°	2289.8	1390.7	69.2	41.1	29.9	24.3	18.7	15.0	11.2	9.3	9.3
62.5°	2435.6	1482.3	61.7	35.5	26.2	20.6	15.0	11.2	7.5	5.6	5.6
65°	2602.0	1525.3	54.2	31.8	22.4	16.8	11.2	7.5	5.6	1.9	1.9
67.5°	2783.3	1590.7	44.9	28.0	20.6	13.1	9.3	5.6	1.9	0.0	0.0
70°	2688.0	1508.5	37.4	24.3	18.7	11.2	7.5	3.7	0.0	0.0	0.0
72.5°	2106.6	1080.4	29.9	22.4	16.8	11.2	7.5	1.9	0.0	0.0	0.0
75°	1407.5	611.2	26.2	18.7	13.1	9.3	5.6	1.9	0.0	0.0	0.0
77.5°	764.5	274.8	22.4	16.8	11.2	7.5	5.6	1.9	0.0	0.0	0.0
80°	248.6	108.4	18.7	15.0	11.2	7.5	5.6	1.9	0.0	0.0	0.0
82.5°	67.3	33.6	18.7	15.0	11.2	7.5	5.6	1.9	0.0	0.0	0.0
85°	28.0	22.4	18.7	15.0	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°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	521.5	525.3	527.1	527.1	536.5	545.8	557.0	566.4	566.4	572.0	577.6
5°	458.0	461.7	467.3	484.1	502.8	523.4	544.0	558.9	579.5	588.8	594.4
7.5°	405.6	409.4	424.3	441.1	467.3	502.8	538.3	572.0	592.6	601.9	609.4
10°	351.4	357.0	373.8	403.8	437.4	480.4	521.5	579.5	613.1	631.8	639.3
12.5°	272.9	287.9	310.3	342.1	385.1	450.5	527.1	586.9	644.9	667.3	682.3
15°	172.0	185.1	220.6	271.0	329.0	405.6	512.2	598.2	678.5	701.0	725.3
17.5°	110.3	112.2	123.4	177.6	252.3	349.5	489.7	615.0	715.9	747.7	785.1
20°	93.5	97.2	99.1	106.5	168.2	287.9	443.0	635.5	760.8	803.8	839.3
22.5°	78.5	80.4	84.1	89.7	100.9	209.4	379.5	635.5	800.0	863.6	904.7
25°	63.6	67.3	71.0	76.6	87.9	130.8	314.0	624.3	846.8	925.3	977.6
27.5°	56.1	56.1	59.8	65.4	74.8	91.6	248.6	590.7	882.3	962.7	1031.8
30°	48.6	50.5	52.3	57.9	67.3	80.4	172.0	536.5	919.7	1035.6	1114.1
32.5°	43.0	43.0	46.7	50.5	59.8	72.9	110.3	454.2	968.3	1091.6	1201.9
35°	39.3	39.3	41.1	44.9	54.2	65.4	86.0	385.1	1026.2	1198.2	1319.7
37.5°	35.5	35.5	37.4	41.1	48.6	57.9	78.5	330.9	1086.0	1304.7	1482.3
40°	31.8	31.8	33.6	37.4	43.0	52.3	71.0	267.3	1160.8	1461.8	1659.9
42.5°	28.0	28.0	29.9	33.6	39.3	46.7	61.7	200.0	1259.9	1631.9	1889.8
45°	24.3	24.3	26.2	29.9	33.6	43.0	56.1	153.3	1368.3	1820.6	2091.7
47.5°	20.6	22.4	24.3	28.0	31.8	39.3	50.5	134.6	1474.8	2020.7	2316.0
50°	18.7	18.7	20.6	24.3	29.9	35.5	46.7	132.7	1583.3	2173.9	2545.9
52.5°	16.8	16.8	18.7	22.4	28.0	33.6	44.9	136.5	1673.0	2316.0	2706.7
55°	15.0	15.0	16.8	18.7	24.3	31.8	41.1	140.2	1736.5	2459.9	2835.6
57.5°	13.1	13.1	15.0	18.7	22.4	28.0	37.4	143.9	1839.3	2602.0	3022.6
60°	9.3	9.3	13.1	16.8	20.6	24.3	35.5	147.7	2003.8	2798.3	3181.5
62.5°	5.6	5.6	7.5	13.1	16.8	22.4	31.8	140.2	2157.1	3050.6	3424.5
65°	1.9	3.7	5.6	7.5	13.1	18.7	26.2	127.1	2286.1	3303.0	3648.8
67.5°	0.0	0.0	1.9	5.6	11.2	15.0	22.4	93.5	2306.7	3417.0	3878.7
70°	0.0	0.0	1.9	5.6	9.3	15.0	20.6	52.3	1964.6	3052.5	3555.3
72.5°	0.0	0.0	0.0	3.7	9.3	13.1	18.7	39.3	1448.7	2301.0	2809.5
75°	0.0	0.0	0.0	1.9	7.5	11.2	16.8	29.9	880.4	1534.7	1833.7
77.5°	0.0	0.0	0.0	1.9	5.6	11.2	16.8	26.2	310.3	730.9	861.7
80°	0.0	0.0	0.0	3.7	7.5	11.2	15.0	22.4	74.8	183.2	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°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	575.7	583.2	586.9	594.4	598.2	596.3	594.4	600.0	596.3	590.7
5°	596.3	596.3	601.9	603.8	603.8	598.2	601.9	600.0	596.3	596.3
7.5°	618.7	628.1	628.1	616.9	615.0	611.2	611.2	596.3	590.7	596.3
10°	641.2	648.6	650.5	637.4	620.6	613.1	603.8	585.1	575.7	579.5
12.5°	687.9	687.9	667.3	652.4	629.9	603.8	581.3	555.2	542.1	545.8
15°	721.5	729.0	701.0	667.3	628.1	579.5	555.2	534.6	527.1	521.5
17.5°	787.0	772.0	727.1	678.5	622.5	572.0	555.2	536.5	530.9	530.9
20°	843.0	835.6	768.3	680.4	620.6	586.9	575.7	566.4	564.5	558.9
22.5°	919.7	886.0	800.0	701.0	641.2	611.2	607.5	616.9	611.2	607.5
25°	977.6	949.6	824.3	730.9	672.9	663.6	669.2	678.5	663.6	658.0
27.5°	1056.1	1003.8	871.1	770.1	715.9	725.3	744.0	745.8	736.5	742.1
30°	1129.0	1072.9	906.6	815.0	788.8	798.2	826.2	846.8	833.7	826.2
32.5°	1233.7	1147.7	977.6	889.8	880.4	904.7	936.5	949.6	932.8	929.0
35°	1344.0	1233.7	1050.5	973.9	990.7	1024.3	1052.4	1074.8	1048.6	1059.9
37.5°	1516.0	1372.0	1173.9	1106.6	1114.1	1127.2	1179.5	1241.2	1254.3	1231.8
40°	1695.4	1521.6	1287.9	1235.6	1252.4	1287.9	1349.6	1407.5	1437.5	1407.5
42.5°	1902.9	1665.5	1463.6	1401.9	1418.8	1469.2	1551.5	1598.2	1594.5	1549.6
45°	2159.0	1865.5	1628.1	1551.5	1613.2	1658.0	1740.3	1745.9	1710.4	1699.1
47.5°	2355.3	2033.7	1805.7	1757.1	1841.2	1843.1	1861.8	1863.6	1824.4	1811.3
50°	2572.1	2228.1	2003.8	1932.8	2074.9	2009.4	1959.0	1925.3	1865.5	1837.5
52.5°	2785.2	2366.5	2187.0	2114.1	2261.8	2088.0	1996.4	1893.5	1805.7	1775.8
55°	2899.2	2594.5	2454.3	2284.2	2302.9	2110.4	1880.5	1751.5	1601.9	1594.5
57.5°	3033.8	2747.8	2680.5	2400.1	2233.8	1953.4	1639.3	1469.2	1308.5	1289.8
60°	3192.7	2990.8	2919.8	2381.4	1988.9	1641.2	1299.1	1080.4	929.0	915.9
62.5°	3370.3	3278.7	3067.4	2198.2	1579.5	1155.2	858.0	674.8	534.6	527.1
65°	3650.6	3519.8	3145.9	1850.6	1044.9	740.2	570.1	437.4	353.3	349.5
67.5°	3826.4	3611.4	2970.2	1319.7	579.5	489.7	400.0	317.8	244.9	229.9
70°	3577.7	3314.2	2349.6	755.2	336.5	372.0	308.4	213.1	168.2	164.5
72.5°	2858.1	2459.9	1581.4	355.2	209.4	291.6	224.3	143.9	100.9	97.2
75°	1949.6	1547.7	992.6	164.5	147.7	213.1	164.5	84.1	71.0	71.0
77.5°	871.1	788.8	508.4	100.9	110.3	162.6	95.3	57.9	52.3	50.5
80°	265.4	278.5	207.5	69.2	82.2	123.4	57.9	39.3	31.8	29.9
82.5°	89.7	104.7	93.5	41.1	56.1	87.9	39.3	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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