

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: P676246

Luminaire Tested: **CCW-SA-1F-727-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676246  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-727-U-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
T2 distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

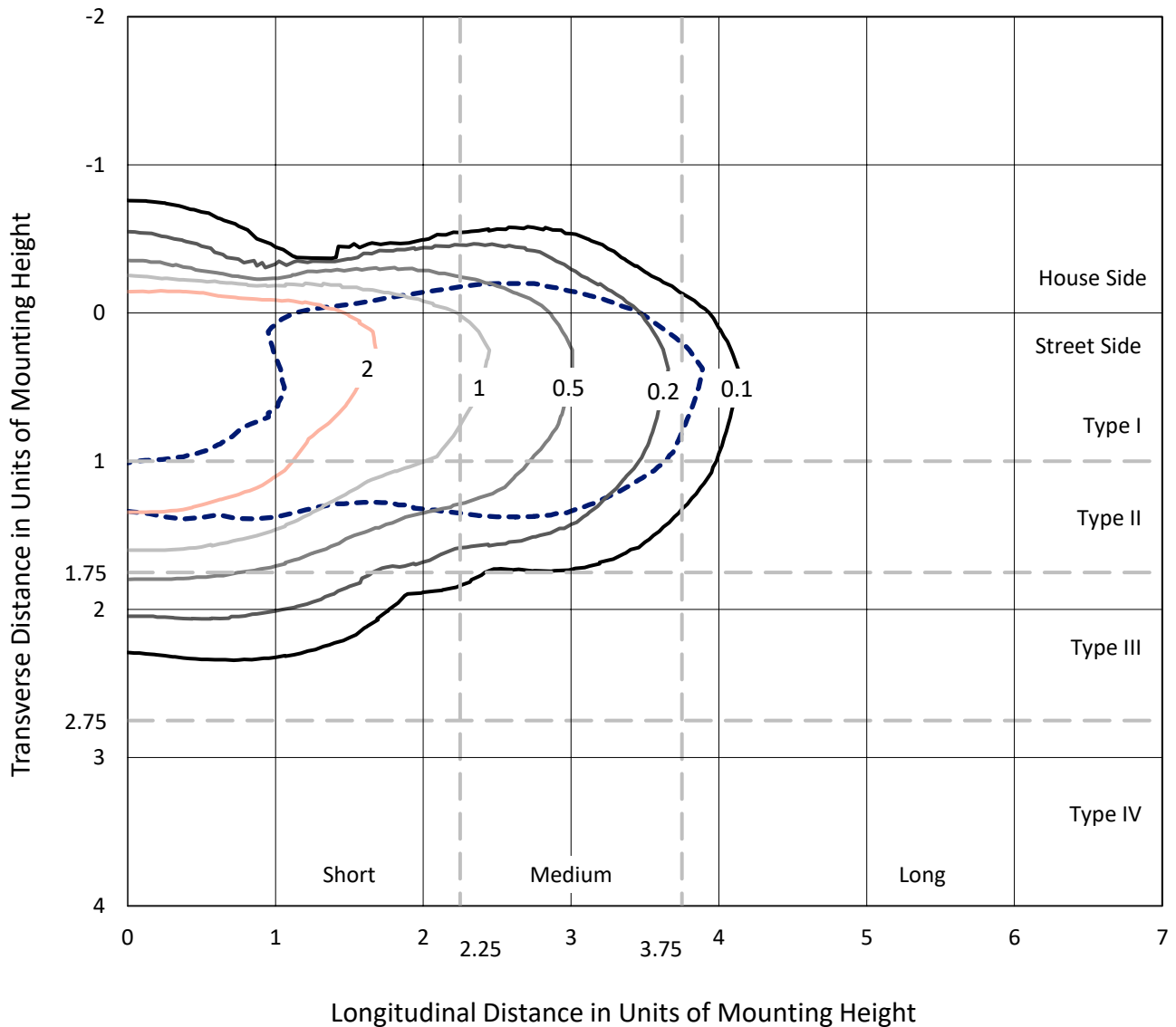
Lumens per Lamp: N/A  
Luminaire Lumens: 4840.9 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 67  
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

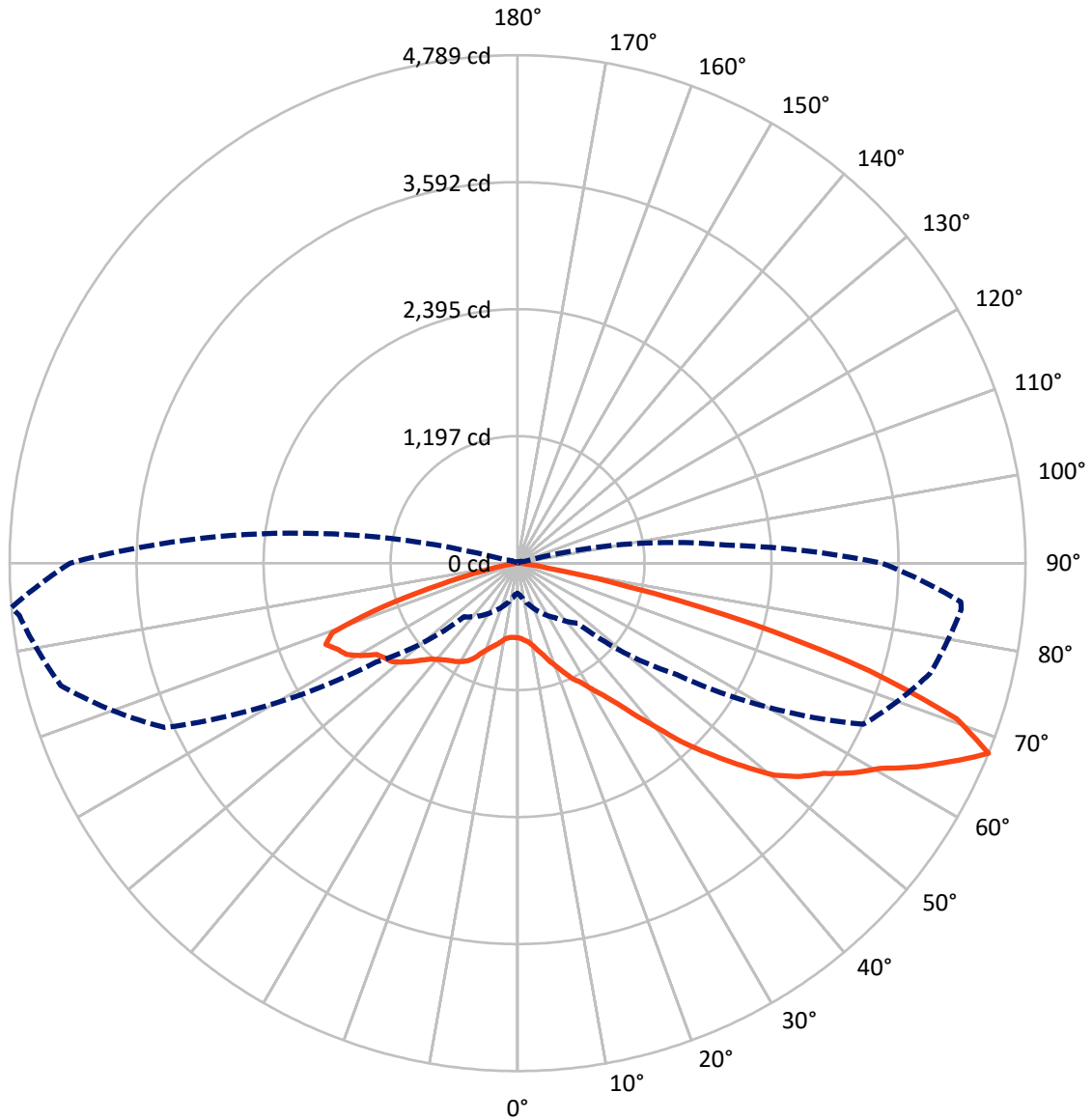
× Max cd  
 - - - 1/2 Max cd



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	687.7	0.0	687.7
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	4153.2	0.0	4153.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	4840.9	0.0	4840.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.2	1.3
10°-20°	172.6	3.6
20°-30°	286.6	5.9
30°-40°	493.2	10.2
40°-50°	886.2	18.3
50°-60°	1261.6	26.1
60°-70°	1150.2	23.8
70°-80°	489.8	10.1
80°-90°	36.5	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°	4840.9	100.0
0°-180°	4840.9	100.0



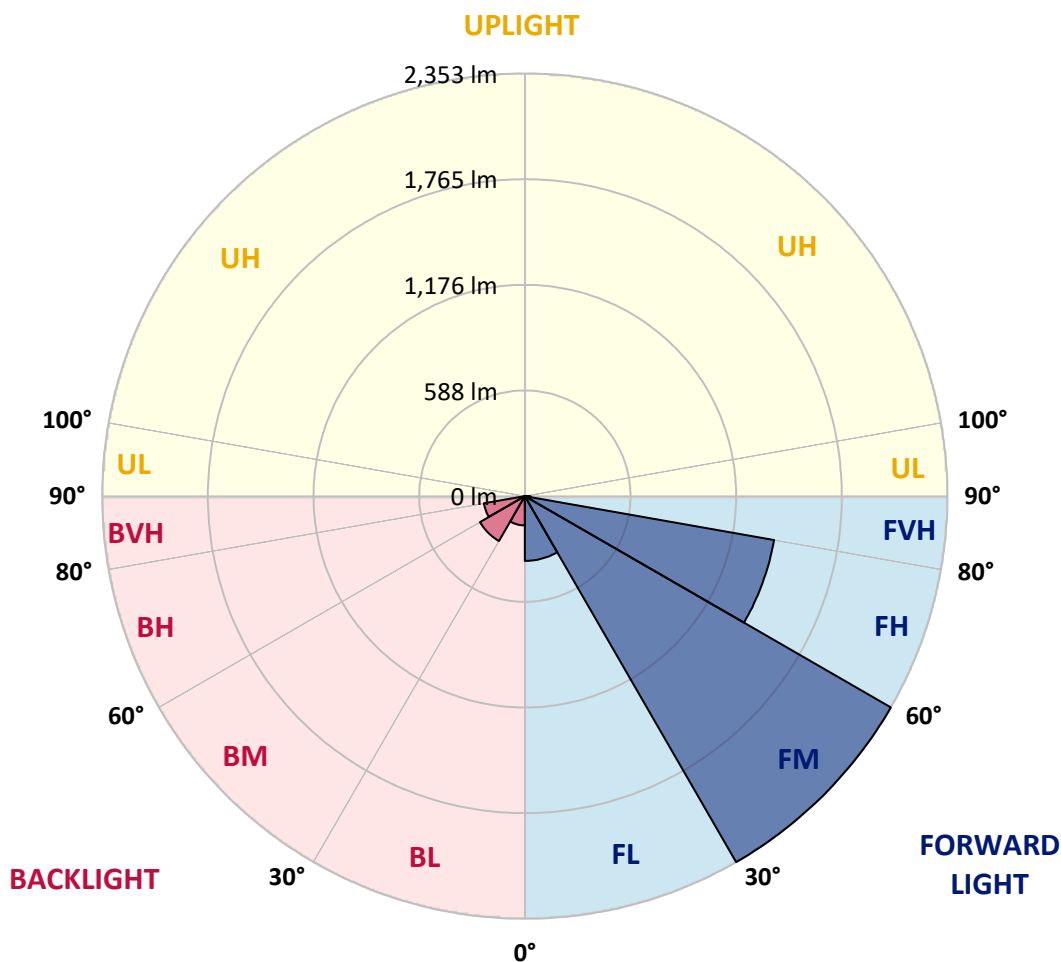
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.6	7.4			
FM (30°-60°)	2352.7	48.6			
FH (60°-80°)	1408.9	29.1			G1/1800
FVH (80°-90°)	31.0	0.6			G1/100
BL (0°-30°)	162.8	3.4	B1/500		
BM (30°-60°)	288.3	6.0	B1/1000		
BH (60°-80°)	231.1	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°	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9
2.5°	729.3	736.3	736.3	733.9	727.0	722.4	720.1	715.5	710.9	710.9	713.2
5°	736.3	729.3	738.6	727.0	727.0	727.0	736.3	731.6	729.3	717.8	717.8
7.5°	736.3	729.3	729.3	736.3	729.3	733.9	745.5	740.9	750.1	729.3	733.9
10°	715.5	713.2	717.8	727.0	729.3	738.6	750.1	773.2	775.5	761.6	759.3
12.5°	673.9	671.6	687.8	692.4	720.1	743.2	777.8	796.3	817.0	810.1	796.3
15°	643.9	648.5	660.1	678.6	703.9	745.5	784.7	826.3	863.2	854.0	849.3
17.5°	655.5	653.2	655.5	667.0	699.3	740.9	807.8	856.3	909.4	909.4	914.0
20°	690.1	697.0	694.7	687.8	703.9	738.6	807.8	893.2	980.9	974.0	974.0
22.5°	750.1	752.4	738.6	733.9	731.6	752.4	821.6	939.4	1040.9	1054.8	1050.1
25°	812.4	814.7	810.1	796.3	777.8	782.4	847.0	976.3	1124.0	1147.1	1142.5
27.5°	916.3	914.0	902.4	886.3	858.6	837.8	886.3	1004.0	1188.6	1227.9	1216.3
30°	1020.1	1013.2	997.1	976.3	950.9	911.7	934.7	1057.1	1269.4	1306.3	1280.9
32.5°	1147.1	1133.2	1137.8	1105.5	1052.4	990.1	985.5	1105.5	1334.0	1387.1	1366.3
35°	1308.6	1292.5	1269.4	1239.4	1188.6	1105.5	1080.1	1184.0	1442.5	1481.7	1481.7
37.5°	1521.0	1537.1	1509.4	1384.8	1329.4	1250.9	1197.9	1264.8	1537.1	1631.8	1608.7
40°	1737.9	1751.8	1701.0	1608.7	1488.7	1391.7	1359.4	1396.3	1680.2	1793.3	1749.5
42.5°	1913.3	1931.8	1913.3	1793.3	1698.7	1574.1	1516.4	1551.0	1864.9	2001.0	1943.3
45°	2098.0	2116.4	2095.7	2017.2	1924.9	1853.3	1707.9	1751.8	2058.7	2261.8	2197.2
47.5°	2236.5	2259.5	2222.6	2206.4	2132.6	2121.1	1874.1	1922.6	2261.8	2525.0	2444.2
50°	2268.8	2294.2	2326.5	2344.9	2319.5	2347.2	2098.0	2139.5	2474.2	2767.3	2688.8
52.5°	2192.6	2218.0	2289.5	2374.9	2492.6	2575.7	2324.2	2358.8	2695.7	2968.1	2926.5
55°	1968.7	1991.8	2137.2	2252.6	2534.2	2670.4	2541.1	2686.5	2855.0	3178.1	3076.6
57.5°	1592.5	1620.2	1811.8	1989.5	2395.7	2617.3	2670.4	2958.9	3118.1	3332.8	3215.0
60°	1130.9	1147.1	1313.3	1627.1	2012.6	2351.9	2645.0	3162.0	3325.8	3540.5	3478.2
62.5°	650.9	664.7	837.8	1133.2	1518.7	1964.1	2531.9	3353.5	3549.7	3769.0	3734.3
65°	431.6	436.2	553.9	715.5	987.8	1447.1	2245.7	3524.3	3771.3	3951.3	3912.1
67.5°	283.9	309.3	401.6	512.4	632.4	800.9	1830.2	3595.9	4025.2	4205.2	4195.9
70°	203.1	212.3	288.5	394.7	475.4	450.1	1070.9	3090.4	4013.6	4274.4	4198.3
72.5°	120.0	129.2	191.6	295.4	373.9	286.2	500.8	2185.7	3325.8	3411.2	3390.5
75°	87.7	87.7	117.7	212.3	272.3	205.4	235.4	1382.5	2208.8	2398.0	2395.7
77.5°	62.3	64.6	80.8	126.9	210.0	150.0	129.2	768.6	1207.1	1320.2	1257.9
80°	36.9	39.2	55.4	76.2	152.3	108.5	85.4	350.8	463.9	468.5	445.4
82.5°	27.7	27.7	36.9	53.1	106.2	73.9	53.1	133.9	150.0	136.2	115.4
85°	16.2	13.8	27.7	39.2	62.3	41.5	36.9	62.3	69.2	50.8	46.2
87.5°	4.6	4.6	11.5	13.8	27.7	23.1	16.2	23.1	32.3	18.5	13.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9
2.5°	708.6	701.6	690.1	685.5	669.3	662.4	657.8	646.2	648.5	641.6	641.6
5°	701.6	701.6	678.6	653.2	627.8	611.6	593.2	570.1	570.1	560.8	563.2
7.5°	727.0	708.6	678.6	632.4	590.8	553.9	537.8	514.7	500.8	493.9	493.9
10°	743.2	724.7	673.9	618.5	565.5	519.3	484.7	452.4	433.9	433.9	431.6
12.5°	787.0	759.3	692.4	616.2	537.8	468.5	415.4	378.5	353.1	334.7	339.3
15°	824.0	794.0	701.6	597.8	489.3	392.4	327.7	258.5	223.9	205.4	198.5
17.5°	881.7	826.3	722.4	565.5	415.4	307.0	212.3	154.6	140.8	138.5	138.5
20°	930.1	865.5	724.7	503.1	341.6	196.2	136.2	126.9	120.0	117.7	115.4
22.5°	997.1	916.3	715.5	431.6	244.6	131.6	115.4	106.2	101.6	94.6	94.6
25°	1066.3	983.2	697.0	364.7	150.0	113.1	101.6	92.3	83.1	78.5	80.8
27.5°	1140.2	1034.0	643.9	283.9	115.4	99.2	83.1	76.2	71.5	69.2	69.2
30°	1200.2	1066.3	565.5	189.3	103.9	87.7	73.9	66.9	62.3	60.0	60.0
32.5°	1244.0	1094.0	477.8	126.9	94.6	78.5	66.9	60.0	55.4	53.1	53.1
35°	1317.9	1114.8	397.0	108.5	85.4	69.2	57.7	53.1	48.5	48.5	48.5
37.5°	1431.0	1142.5	316.2	99.2	78.5	62.3	55.4	48.5	46.2	43.9	43.9
40°	1530.2	1177.1	226.2	90.0	71.5	57.7	48.5	43.9	41.5	39.2	39.2
42.5°	1673.3	1216.3	147.7	80.8	64.6	53.1	43.9	39.2	36.9	34.6	34.6
45°	1855.6	1280.9	115.4	71.5	57.7	48.5	41.5	36.9	32.3	32.3	30.0
47.5°	2049.5	1359.4	103.9	66.9	53.1	43.9	36.9	32.3	30.0	27.7	27.7
50°	2229.5	1435.6	96.9	62.3	48.5	41.5	34.6	30.0	25.4	23.1	23.1
52.5°	2391.1	1507.1	92.3	57.7	46.2	36.9	30.0	25.4	23.1	20.8	20.8
55°	2476.5	1539.4	90.0	55.4	41.5	34.6	27.7	23.1	20.8	18.5	18.5
57.5°	2610.3	1581.0	87.7	53.1	39.2	30.0	25.4	20.8	18.5	16.2	16.2
60°	2827.3	1717.2	85.4	50.8	36.9	30.0	23.1	18.5	13.8	11.5	11.5
62.5°	3007.3	1830.2	76.2	43.9	32.3	25.4	18.5	13.8	9.2	6.9	6.9
65°	3212.7	1883.3	66.9	39.2	27.7	20.8	13.8	9.2	6.9	2.3	2.3
67.5°	3436.6	1964.1	55.4	34.6	25.4	16.2	11.5	6.9	2.3	0.0	0.0
70°	3318.9	1862.6	46.2	30.0	23.1	13.8	9.2	4.6	0.0	0.0	0.0
72.5°	2601.1	1334.0	36.9	27.7	20.8	13.8	9.2	2.3	0.0	0.0	0.0
75°	1737.9	754.7	32.3	23.1	16.2	11.5	6.9	2.3	0.0	0.0	0.0
77.5°	944.0	339.3	27.7	20.8	13.8	9.2	6.9	2.3	0.0	0.0	0.0
80°	307.0	133.9	23.1	18.5	13.8	9.2	6.9	2.3	0.0	0.0	0.0
82.5°	83.1	41.5	23.1	18.5	13.8	9.2	6.9	2.3	0.0	0.0	0.0
85°	34.6	27.7	23.1	18.5	13.8	9.2	6.9	2.3	0.0	0.0	0.0
87.5°	13.8	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°	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9
2.5°	643.9	648.5	650.9	650.9	662.4	673.9	687.8	699.3	699.3	706.2	713.2
5°	565.5	570.1	577.0	597.8	620.9	646.2	671.6	690.1	715.5	727.0	733.9
7.5°	500.8	505.5	523.9	544.7	577.0	620.9	664.7	706.2	731.6	743.2	752.4
10°	433.9	440.8	461.6	498.5	540.1	593.2	643.9	715.5	757.0	780.1	789.3
12.5°	337.0	355.4	383.1	422.4	475.4	556.2	650.9	724.7	796.3	824.0	842.4
15°	212.3	228.5	272.3	334.7	406.2	500.8	632.4	738.6	837.8	865.5	895.5
17.5°	136.2	138.5	152.3	219.3	311.6	431.6	604.7	759.3	884.0	923.2	969.4
20°	115.4	120.0	122.3	131.6	207.7	355.4	547.0	784.7	939.4	992.4	1036.3
22.5°	96.9	99.2	103.9	110.8	124.6	258.5	468.5	784.7	987.8	1066.3	1117.1
25°	78.5	83.1	87.7	94.6	108.5	161.6	387.7	770.9	1045.5	1142.5	1207.1
27.5°	69.2	69.2	73.9	80.8	92.3	113.1	307.0	729.3	1089.4	1188.6	1274.0
30°	60.0	62.3	64.6	71.5	83.1	99.2	212.3	662.4	1135.5	1278.6	1375.6
32.5°	53.1	53.1	57.7	62.3	73.9	90.0	136.2	560.8	1195.5	1347.9	1484.0
35°	48.5	48.5	50.8	55.4	66.9	80.8	106.2	475.4	1267.1	1479.4	1629.4
37.5°	43.9	43.9	46.2	50.8	60.0	71.5	96.9	408.5	1340.9	1611.0	1830.2
40°	39.2	39.2	41.5	46.2	53.1	64.6	87.7	330.0	1433.3	1804.9	2049.5
42.5°	34.6	34.6	36.9	41.5	48.5	57.7	76.2	247.0	1555.6	2014.9	2333.4
45°	30.0	30.0	32.3	36.9	41.5	53.1	69.2	189.3	1689.5	2248.0	2582.7
47.5°	25.4	27.7	30.0	34.6	39.2	48.5	62.3	166.2	1821.0	2494.9	2859.6
50°	23.1	23.1	25.4	30.0	36.9	43.9	57.7	163.9	1954.9	2684.2	3143.5
52.5°	20.8	20.8	23.1	27.7	34.6	41.5	55.4	168.5	2065.7	2859.6	3342.0
55°	18.5	18.5	20.8	23.1	30.0	39.2	50.8	173.1	2144.1	3037.3	3501.2
57.5°	16.2	16.2	18.5	23.1	27.7	34.6	46.2	177.7	2271.1	3212.7	3732.0
60°	11.5	11.5	16.2	20.8	25.4	30.0	43.9	182.3	2474.2	3455.1	3928.2
62.5°	6.9	6.9	9.2	16.2	20.8	27.7	39.2	173.1	2663.4	3766.7	4228.3
65°	2.3	4.6	6.9	9.2	16.2	23.1	32.3	156.9	2822.7	4078.2	4505.2
67.5°	0.0	0.0	2.3	6.9	13.8	18.5	27.7	115.4	2848.1	4219.0	4789.1
70°	0.0	0.0	2.3	6.9	11.5	18.5	25.4	64.6	2425.7	3769.0	4389.8
72.5°	0.0	0.0	0.0	4.6	11.5	16.2	23.1	48.5	1788.7	2841.1	3468.9
75°	0.0	0.0	0.0	2.3	9.2	13.8	20.8	36.9	1087.1	1894.9	2264.1
77.5°	0.0	0.0	0.0	2.3	6.9	13.8	20.8	32.3	383.1	902.4	1064.0
80°	0.0	0.0	0.0	4.6	9.2	13.8	18.5	27.7	92.3	226.2	304.7
82.5°	0.0	0.0	0.0	2.3	6.9	11.5	16.2	23.1	36.9	66.9	106.2
85°	0.0	0.0	0.0	2.3	4.6	11.5	16.2	20.8	25.4	32.3	46.2
87.5°	0.0	0.0	0.0	0.0	2.3	4.6	6.9	9.2	9.2	9.2	16.2
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):**

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9
2.5°	710.9	720.1	724.7	733.9	738.6	736.3	733.9	740.9	736.3	729.3
5°	736.3	736.3	743.2	745.5	745.5	738.6	743.2	740.9	736.3	736.3
7.5°	763.9	775.5	775.5	761.6	759.3	754.7	754.7	736.3	729.3	736.3
10°	791.6	800.9	803.2	787.0	766.3	757.0	745.5	722.4	710.9	715.5
12.5°	849.3	849.3	824.0	805.5	777.8	745.5	717.8	685.5	669.3	673.9
15°	890.9	900.1	865.5	824.0	775.5	715.5	685.5	660.1	650.9	643.9
17.5°	971.7	953.2	897.8	837.8	768.6	706.2	685.5	662.4	655.5	655.5
20°	1040.9	1031.7	948.6	840.1	766.3	724.7	710.9	699.3	697.0	690.1
22.5°	1135.5	1094.0	987.8	865.5	791.6	754.7	750.1	761.6	754.7	750.1
25°	1207.1	1172.5	1017.8	902.4	830.9	819.3	826.3	837.8	819.3	812.4
27.5°	1304.0	1239.4	1075.5	950.9	884.0	895.5	918.6	920.9	909.4	916.3
30°	1394.0	1324.8	1119.4	1006.3	974.0	985.5	1020.1	1045.5	1029.4	1020.1
32.5°	1523.3	1417.1	1207.1	1098.6	1087.1	1117.1	1156.3	1172.5	1151.7	1147.1
35°	1659.5	1523.3	1297.1	1202.5	1223.2	1264.8	1299.4	1327.1	1294.8	1308.6
37.5°	1871.8	1694.1	1449.4	1366.3	1375.6	1391.7	1456.3	1532.5	1548.7	1521.0
40°	2093.4	1878.7	1590.2	1525.6	1546.4	1590.2	1666.4	1737.9	1774.9	1737.9
42.5°	2349.5	2056.4	1807.2	1731.0	1751.8	1814.1	1915.6	1973.3	1968.7	1913.3
45°	2665.7	2303.4	2010.3	1915.6	1991.8	2047.2	2148.7	2155.7	2111.8	2098.0
47.5°	2908.1	2511.1	2229.5	2169.5	2273.4	2275.7	2298.8	2301.1	2252.6	2236.5
50°	3175.8	2751.1	2474.2	2386.5	2561.9	2481.1	2418.8	2377.2	2303.4	2268.8
52.5°	3438.9	2921.9	2700.4	2610.3	2792.7	2578.0	2464.9	2338.0	2229.5	2192.6
55°	3579.7	3203.5	3030.4	2820.4	2843.5	2605.7	2321.8	2162.6	1978.0	1968.7
57.5°	3745.9	3392.8	3309.7	2963.5	2758.1	2411.9	2024.1	1814.1	1615.6	1592.5
60°	3942.1	3692.8	3605.1	2940.4	2455.7	2026.4	1604.1	1334.0	1147.1	1130.9
62.5°	4161.3	4048.2	3787.4	2714.2	1950.3	1426.3	1059.4	833.2	660.1	650.9
65°	4507.5	4346.0	3884.4	2284.9	1290.2	914.0	703.9	540.1	436.2	431.6
67.5°	4724.5	4459.1	3667.4	1629.4	715.5	604.7	493.9	392.4	302.3	283.9
70°	4417.5	4092.1	2901.2	932.4	415.4	459.3	380.8	263.1	207.7	203.1
72.5°	3528.9	3037.3	1952.6	438.5	258.5	360.0	277.0	177.7	124.6	120.0
75°	2407.2	1911.0	1225.5	203.1	182.3	263.1	203.1	103.9	87.7	87.7
77.5°	1075.5	974.0	627.8	124.6	136.2	200.8	117.7	71.5	64.6	62.3
80°	327.7	343.9	256.2	85.4	101.6	152.3	71.5	48.5	39.2	36.9
82.5°	110.8	129.2	115.4	50.8	69.2	108.5	48.5	32.3	27.7	27.7
85°	53.1	64.6	57.7	32.3	36.9	53.1	39.2	25.4	16.2	16.2
87.5°	20.8	30.0	20.8	13.8	20.8	27.7	16.2	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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