

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: P676244

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676244  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-727-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) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

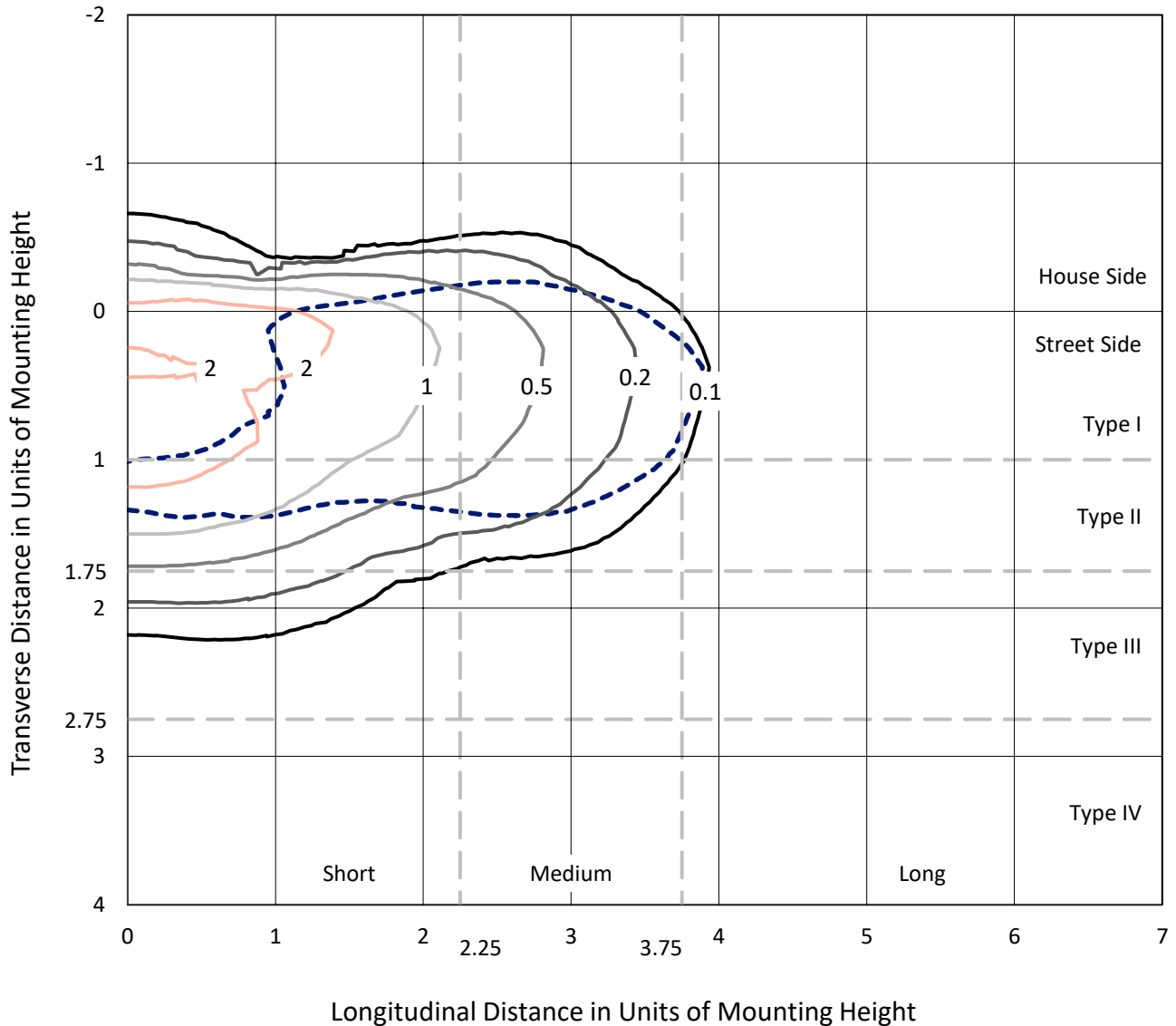
Lumens per Lamp: N/A  
Luminaire Lumens: 3600.8 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
Input Voltage (V): 120  
Input Current (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

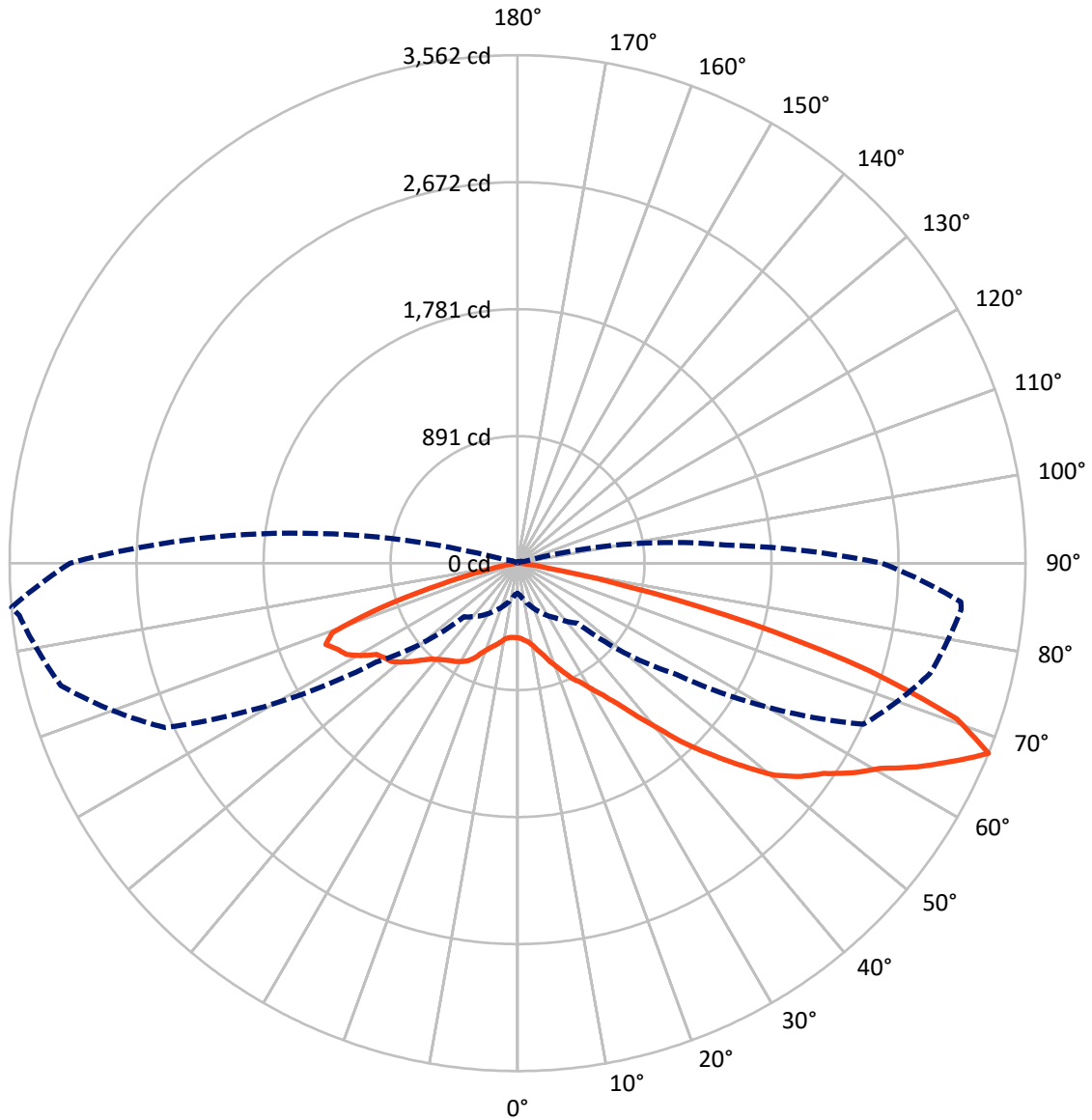
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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	511.6	0.0	511.6
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	3089.2	0.0	3089.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	3600.8	0.0	3600.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.7	1.3
10°-20°	128.4	3.6
20°-30°	213.2	5.9
30°-40°	366.8	10.2
40°-50°	659.2	18.3
50°-60°	938.4	26.1
60°-70°	855.5	23.8
70°-80°	364.3	10.1
80°-90°	27.1	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°	3600.8	100.0
0°-180°	3600.8	100.0



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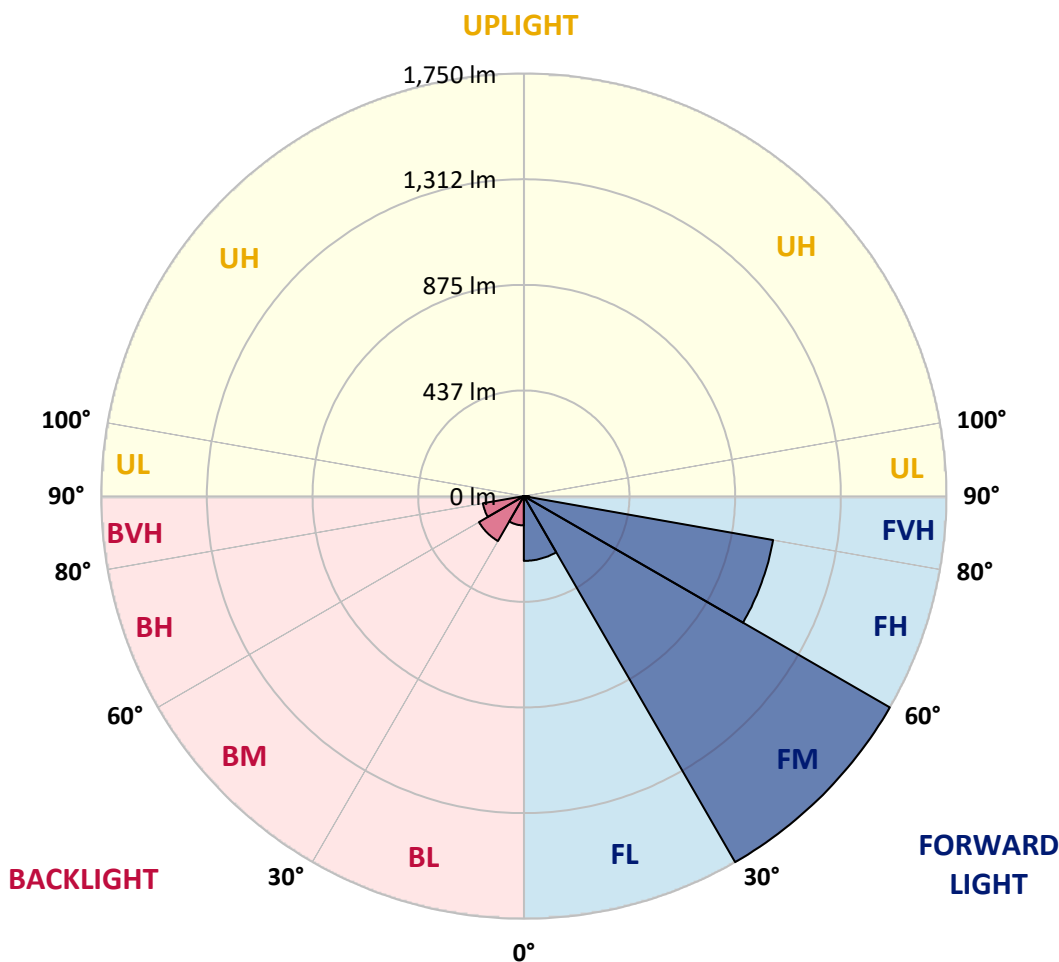
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.2	7.4			
FM (30°-60°)	1750.0	48.6			
FH (60°-80°)	1048.0	29.1			G1/1800
FVH (80°-90°)	23.0	0.6			G1/100
BL (0°-30°)	121.1	3.4	B1/500		
BM (30°-60°)	214.5	6.0	B0/220		
BH (60°-80°)	171.9	4.8	B1/500		G1/500
BVH (80°-90°)	4.1	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°	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6
2.5°	542.5	547.6	547.6	545.9	540.8	537.3	535.6	532.2	528.8	528.8	530.5
5°	547.6	542.5	549.4	540.8	540.8	540.8	547.6	544.2	542.5	533.9	533.9
7.5°	547.6	542.5	542.5	547.6	542.5	545.9	554.5	551.1	557.9	542.5	545.9
10°	532.2	530.5	533.9	540.8	542.5	549.4	557.9	575.1	576.8	566.5	564.8
12.5°	501.3	499.6	511.6	515.0	535.6	552.8	578.5	592.3	607.7	602.6	592.3
15°	479.0	482.4	491.0	504.7	523.6	554.5	583.7	614.6	642.1	635.2	631.8
17.5°	487.6	485.8	487.6	496.1	520.2	551.1	600.9	636.9	676.4	676.4	679.8
20°	513.3	518.5	516.7	511.6	523.6	549.4	600.9	664.4	729.6	724.5	724.5
22.5°	557.9	559.7	549.4	545.9	544.2	559.7	611.2	698.7	774.2	784.5	781.1
25°	604.3	606.0	602.6	592.3	578.5	582.0	630.0	726.2	836.0	853.2	849.8
27.5°	681.5	679.8	671.2	659.2	638.6	623.2	659.2	746.8	884.1	913.3	904.7
30°	758.8	753.6	741.6	726.2	707.3	678.1	695.3	786.3	944.2	971.7	952.8
32.5°	853.2	842.9	846.3	822.3	782.8	736.5	733.0	822.3	992.3	1031.8	1016.3
35°	973.4	961.4	944.2	921.9	884.1	822.3	803.4	880.7	1073.0	1102.1	1102.1
37.5°	1131.3	1143.3	1122.7	1030.0	988.8	930.5	891.0	940.8	1143.3	1213.7	1196.6
40°	1292.7	1303.0	1265.2	1196.6	1107.3	1035.2	1011.2	1038.6	1249.8	1333.9	1301.3
42.5°	1423.2	1436.9	1423.2	1333.9	1263.5	1170.8	1127.9	1153.6	1387.1	1488.4	1445.5
45°	1560.5	1574.2	1558.8	1500.4	1431.8	1378.5	1270.4	1303.0	1531.3	1682.4	1634.3
47.5°	1663.5	1680.7	1653.2	1641.2	1586.3	1577.7	1394.0	1430.0	1682.4	1878.1	1818.0
50°	1687.5	1706.4	1730.5	1744.2	1725.3	1745.9	1560.5	1591.4	1840.3	2058.4	2000.0
52.5°	1630.9	1649.8	1703.0	1766.5	1854.1	1915.9	1728.7	1754.5	2005.1	2207.7	2176.8
55°	1464.4	1481.5	1589.7	1675.5	1885.0	1986.3	1890.1	1998.3	2123.6	2363.9	2288.4
57.5°	1184.5	1205.1	1347.6	1479.8	1782.0	1946.8	1986.3	2200.8	2319.3	2479.0	2391.4
60°	841.2	853.2	976.8	1210.3	1497.0	1749.3	1967.4	2351.9	2473.8	2633.5	2587.1
62.5°	484.1	494.4	623.2	842.9	1129.6	1460.9	1883.3	2494.4	2640.3	2803.4	2777.7
65°	321.0	324.5	412.0	532.2	734.8	1076.4	1670.4	2621.4	2805.1	2939.0	2909.9
67.5°	211.2	230.0	298.7	381.1	470.4	595.7	1361.4	2674.7	2994.0	3127.9	3121.0
70°	151.1	157.9	214.6	293.6	353.6	334.8	796.6	2298.7	2985.4	3179.4	3122.7
72.5°	89.3	96.1	142.5	219.7	278.1	212.9	372.5	1625.7	2473.8	2537.3	2521.9
75°	65.2	65.2	87.6	157.9	202.6	152.8	175.1	1028.3	1642.9	1783.7	1782.0
77.5°	46.4	48.1	60.1	94.4	156.2	111.6	96.1	571.7	897.8	982.0	935.6
80°	27.5	29.2	41.2	56.7	113.3	80.7	63.5	260.9	345.1	348.5	331.3
82.5°	20.6	20.6	27.5	39.5	79.0	54.9	39.5	99.6	111.6	101.3	85.8
85°	12.0	10.3	20.6	29.2	46.4	30.9	27.5	46.4	51.5	37.8	34.3
87.5°	3.4	3.4	8.6	10.3	20.6	17.2	12.0	17.2	24.0	13.7	10.3
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°	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6
2.5°	527.0	521.9	513.3	509.9	497.9	492.7	489.3	480.7	482.4	477.3	477.3
5°	521.9	521.9	504.7	485.8	466.9	454.9	441.2	424.0	424.0	417.2	418.9
7.5°	540.8	527.0	504.7	470.4	439.5	412.0	400.0	382.8	372.5	367.4	367.4
10°	552.8	539.1	501.3	460.1	420.6	386.3	360.5	336.5	322.7	322.7	321.0
12.5°	585.4	564.8	515.0	458.4	400.0	348.5	309.0	281.5	262.7	248.9	252.4
15°	612.9	590.6	521.9	444.6	363.9	291.8	243.8	192.3	166.5	152.8	147.6
17.5°	655.8	614.6	537.3	420.6	309.0	228.3	157.9	115.0	104.7	103.0	103.0
20°	691.8	643.8	539.1	374.2	254.1	145.9	101.3	94.4	89.3	87.6	85.8
22.5°	741.6	681.5	532.2	321.0	182.0	97.9	85.8	79.0	75.5	70.4	70.4
25°	793.1	731.3	518.5	271.2	111.6	84.1	75.5	68.7	61.8	58.4	60.1
27.5°	848.1	769.1	479.0	211.2	85.8	73.8	61.8	56.7	53.2	51.5	51.5
30°	892.7	793.1	420.6	140.8	77.3	65.2	54.9	49.8	46.4	44.6	44.6
32.5°	925.3	813.7	355.4	94.4	70.4	58.4	49.8	44.6	41.2	39.5	39.5
35°	980.3	829.2	295.3	80.7	63.5	51.5	42.9	39.5	36.1	36.1	36.1
37.5°	1064.4	849.8	235.2	73.8	58.4	46.4	41.2	36.1	34.3	32.6	32.6
40°	1138.2	875.5	168.2	67.0	53.2	42.9	36.1	32.6	30.9	29.2	29.2
42.5°	1244.6	904.7	109.9	60.1	48.1	39.5	32.6	29.2	27.5	25.8	25.8
45°	1380.2	952.8	85.8	53.2	42.9	36.1	30.9	27.5	24.0	24.0	22.3
47.5°	1524.5	1011.2	77.3	49.8	39.5	32.6	27.5	24.0	22.3	20.6	20.6
50°	1658.4	1067.8	72.1	46.4	36.1	30.9	25.8	22.3	18.9	17.2	17.2
52.5°	1778.5	1121.0	68.7	42.9	34.3	27.5	22.3	18.9	17.2	15.5	15.5
55°	1842.0	1145.1	67.0	41.2	30.9	25.8	20.6	17.2	15.5	13.7	13.7
57.5°	1941.6	1176.0	65.2	39.5	29.2	22.3	18.9	15.5	13.7	12.0	12.0
60°	2103.0	1277.2	63.5	37.8	27.5	22.3	17.2	13.7	10.3	8.6	8.6
62.5°	2236.9	1361.4	56.7	32.6	24.0	18.9	13.7	10.3	6.9	5.2	5.2
65°	2389.7	1400.8	49.8	29.2	20.6	15.5	10.3	6.9	5.2	1.7	1.7
67.5°	2556.2	1460.9	41.2	25.8	18.9	12.0	8.6	5.2	1.7	0.0	0.0
70°	2468.7	1385.4	34.3	22.3	17.2	10.3	6.9	3.4	0.0	0.0	0.0
72.5°	1934.8	992.3	27.5	20.6	15.5	10.3	6.9	1.7	0.0	0.0	0.0
75°	1292.7	561.4	24.0	17.2	12.0	8.6	5.2	1.7	0.0	0.0	0.0
77.5°	702.1	252.4	20.6	15.5	10.3	6.9	5.2	1.7	0.0	0.0	0.0
80°	228.3	99.6	17.2	13.7	10.3	6.9	5.2	1.7	0.0	0.0	0.0
82.5°	61.8	30.9	17.2	13.7	10.3	6.9	5.2	1.7	0.0	0.0	0.0
85°	25.8	20.6	17.2	13.7	10.3	6.9	5.2	1.7	0.0	0.0	0.0
87.5°	10.3	6.9	6.9	8.6	6.9	5.2	3.4	1.7	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°	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6
2.5°	479.0	482.4	484.1	484.1	492.7	501.3	511.6	520.2	520.2	525.3	530.5
5°	420.6	424.0	429.2	444.6	461.8	480.7	499.6	513.3	532.2	540.8	545.9
7.5°	372.5	376.0	389.7	405.1	429.2	461.8	494.4	525.3	544.2	552.8	559.7
10°	322.7	327.9	343.3	370.8	401.7	441.2	479.0	532.2	563.1	580.3	587.1
12.5°	250.6	264.4	285.0	314.2	353.6	413.7	484.1	539.1	592.3	612.9	626.6
15°	157.9	170.0	202.6	248.9	302.1	372.5	470.4	549.4	623.2	643.8	666.1
17.5°	101.3	103.0	113.3	163.1	231.8	321.0	449.8	564.8	657.5	686.7	721.0
20°	85.8	89.3	91.0	97.9	154.5	264.4	406.9	583.7	698.7	738.2	770.8
22.5°	72.1	73.8	77.3	82.4	92.7	192.3	348.5	583.7	734.8	793.1	830.9
25°	58.4	61.8	65.2	70.4	80.7	120.2	288.4	573.4	777.7	849.8	897.8
27.5°	51.5	51.5	54.9	60.1	68.7	84.1	228.3	542.5	810.3	884.1	947.6
30°	44.6	46.4	48.1	53.2	61.8	73.8	157.9	492.7	844.6	951.1	1023.2
32.5°	39.5	39.5	42.9	46.4	54.9	67.0	101.3	417.2	889.3	1002.6	1103.9
35°	36.1	36.1	37.8	41.2	49.8	60.1	79.0	353.6	942.5	1100.4	1212.0
37.5°	32.6	32.6	34.3	37.8	44.6	53.2	72.1	303.9	997.4	1198.3	1361.4
40°	29.2	29.2	30.9	34.3	39.5	48.1	65.2	245.5	1066.1	1342.5	1524.5
42.5°	25.8	25.8	27.5	30.9	36.1	42.9	56.7	183.7	1157.1	1498.7	1735.6
45°	22.3	22.3	24.0	27.5	30.9	39.5	51.5	140.8	1256.6	1672.1	1921.0
47.5°	18.9	20.6	22.3	25.8	29.2	36.1	46.4	123.6	1354.5	1855.8	2127.0
50°	17.2	17.2	18.9	22.3	27.5	32.6	42.9	121.9	1454.1	1996.6	2338.2
52.5°	15.5	15.5	17.2	20.6	25.8	30.9	41.2	125.3	1536.5	2127.0	2485.8
55°	13.7	13.7	15.5	17.2	22.3	29.2	37.8	128.8	1594.8	2259.2	2604.3
57.5°	12.0	12.0	13.7	17.2	20.6	25.8	34.3	132.2	1689.3	2389.7	2775.9
60°	8.6	8.6	12.0	15.5	18.9	22.3	32.6	135.6	1840.3	2569.9	2921.9
62.5°	5.2	5.2	6.9	12.0	15.5	20.6	29.2	128.8	1981.1	2801.7	3145.0
65°	1.7	3.4	5.2	6.9	12.0	17.2	24.0	116.7	2099.6	3033.5	3351.1
67.5°	0.0	0.0	1.7	5.2	10.3	13.7	20.6	85.8	2118.4	3138.2	3562.2
70°	0.0	0.0	1.7	5.2	8.6	13.7	18.9	48.1	1804.3	2803.4	3265.2
72.5°	0.0	0.0	0.0	3.4	8.6	12.0	17.2	36.1	1330.5	2113.3	2580.2
75°	0.0	0.0	0.0	1.7	6.9	10.3	15.5	27.5	808.6	1409.4	1684.1
77.5°	0.0	0.0	0.0	1.7	5.2	10.3	15.5	24.0	285.0	671.2	791.4
80°	0.0	0.0	0.0	3.4	6.9	10.3	13.7	20.6	68.7	168.2	226.6
82.5°	0.0	0.0	0.0	1.7	5.2	8.6	12.0	17.2	27.5	49.8	79.0
85°	0.0	0.0	0.0	1.7	3.4	8.6	12.0	15.5	18.9	24.0	34.3
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	5.2	6.9	6.9	6.9	12.0
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°	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6
2.5°	528.8	535.6	539.1	545.9	549.4	547.6	545.9	551.1	547.6	542.5
5°	547.6	547.6	552.8	554.5	554.5	549.4	552.8	551.1	547.6	547.6
7.5°	568.2	576.8	576.8	566.5	564.8	561.4	561.4	547.6	542.5	547.6
10°	588.8	595.7	597.4	585.4	570.0	563.1	554.5	537.3	528.8	532.2
12.5°	631.8	631.8	612.9	599.1	578.5	554.5	533.9	509.9	497.9	501.3
15°	662.7	669.5	643.8	612.9	576.8	532.2	509.9	491.0	484.1	479.0
17.5°	722.7	709.0	667.8	623.2	571.7	525.3	509.9	492.7	487.6	487.6
20°	774.2	767.4	705.6	624.9	570.0	539.1	528.8	520.2	518.5	513.3
22.5°	844.6	813.7	734.8	643.8	588.8	561.4	557.9	566.5	561.4	557.9
25°	897.8	872.1	757.1	671.2	618.0	609.4	614.6	623.2	609.4	604.3
27.5°	970.0	921.9	800.0	707.3	657.5	666.1	683.3	685.0	676.4	681.5
30°	1036.9	985.4	832.6	748.5	724.5	733.0	758.8	777.7	765.7	758.8
32.5°	1133.0	1054.1	897.8	817.2	808.6	830.9	860.1	872.1	856.6	853.2
35°	1234.3	1133.0	964.8	894.4	909.9	940.8	966.5	987.1	963.1	973.4
37.5°	1392.3	1260.1	1078.1	1016.3	1023.2	1035.2	1083.3	1139.9	1151.9	1131.3
40°	1557.1	1397.4	1182.8	1134.8	1150.2	1182.8	1239.5	1292.7	1320.2	1292.7
42.5°	1747.6	1529.6	1344.2	1287.5	1303.0	1349.3	1424.9	1467.8	1464.4	1423.2
45°	1982.8	1713.3	1495.3	1424.9	1481.5	1522.7	1598.3	1603.4	1570.8	1560.5
47.5°	2163.1	1867.8	1658.4	1613.7	1691.0	1692.7	1709.9	1711.6	1675.5	1663.5
50°	2362.2	2046.3	1840.3	1775.1	1905.6	1845.5	1799.1	1768.2	1713.3	1687.5
52.5°	2557.9	2173.4	2008.6	1941.6	2077.2	1917.6	1833.5	1739.0	1658.4	1630.9
55°	2662.6	2382.8	2254.1	2097.8	2115.0	1938.2	1727.0	1608.6	1471.2	1464.4
57.5°	2786.2	2523.6	2461.8	2204.3	2051.5	1794.0	1505.6	1349.3	1201.7	1184.5
60°	2932.2	2746.8	2681.5	2187.1	1826.6	1507.3	1193.1	992.3	853.2	841.2
62.5°	3095.3	3011.1	2817.2	2018.9	1450.6	1060.9	788.0	619.7	491.0	484.1
65°	3352.8	3232.6	2889.3	1699.6	959.7	679.8	523.6	401.7	324.5	321.0
67.5°	3514.1	3316.7	2727.9	1212.0	532.2	449.8	367.4	291.8	224.9	211.2
70°	3285.8	3043.8	2157.9	693.6	309.0	341.6	283.3	195.7	154.5	151.1
72.5°	2624.9	2259.2	1452.4	326.2	192.3	267.8	206.0	132.2	92.7	89.3
75°	1790.5	1421.5	911.6	151.1	135.6	195.7	151.1	77.3	65.2	65.2
77.5°	800.0	724.5	466.9	92.7	101.3	149.4	87.6	53.2	48.1	46.4
80°	243.8	255.8	190.6	63.5	75.5	113.3	53.2	36.1	29.2	27.5
82.5°	82.4	96.1	85.8	37.8	51.5	80.7	36.1	24.0	20.6	20.6
85°	39.5	48.1	42.9	24.0	27.5	39.5	29.2	18.9	12.0	12.0
87.5°	15.5	22.3	15.5	10.3	15.5	20.6	12.0	8.6	3.4	3.4
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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