

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: P676338

Luminaire Tested: **CCW-SA-2D-835-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676338  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-835-U-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T2 distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

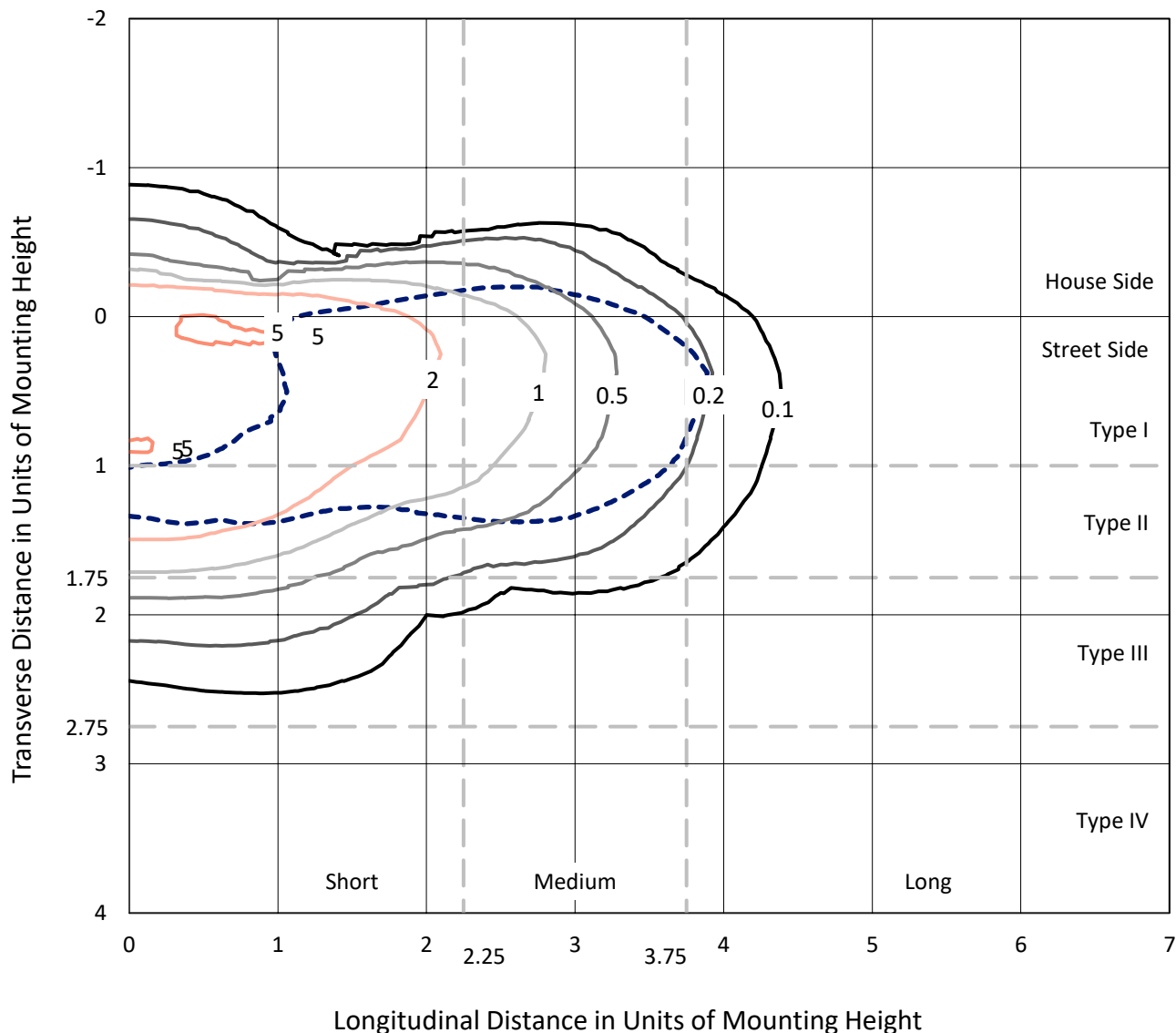
Lumens per Lamp: N/A  
Luminaire Lumens: 7094.9 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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

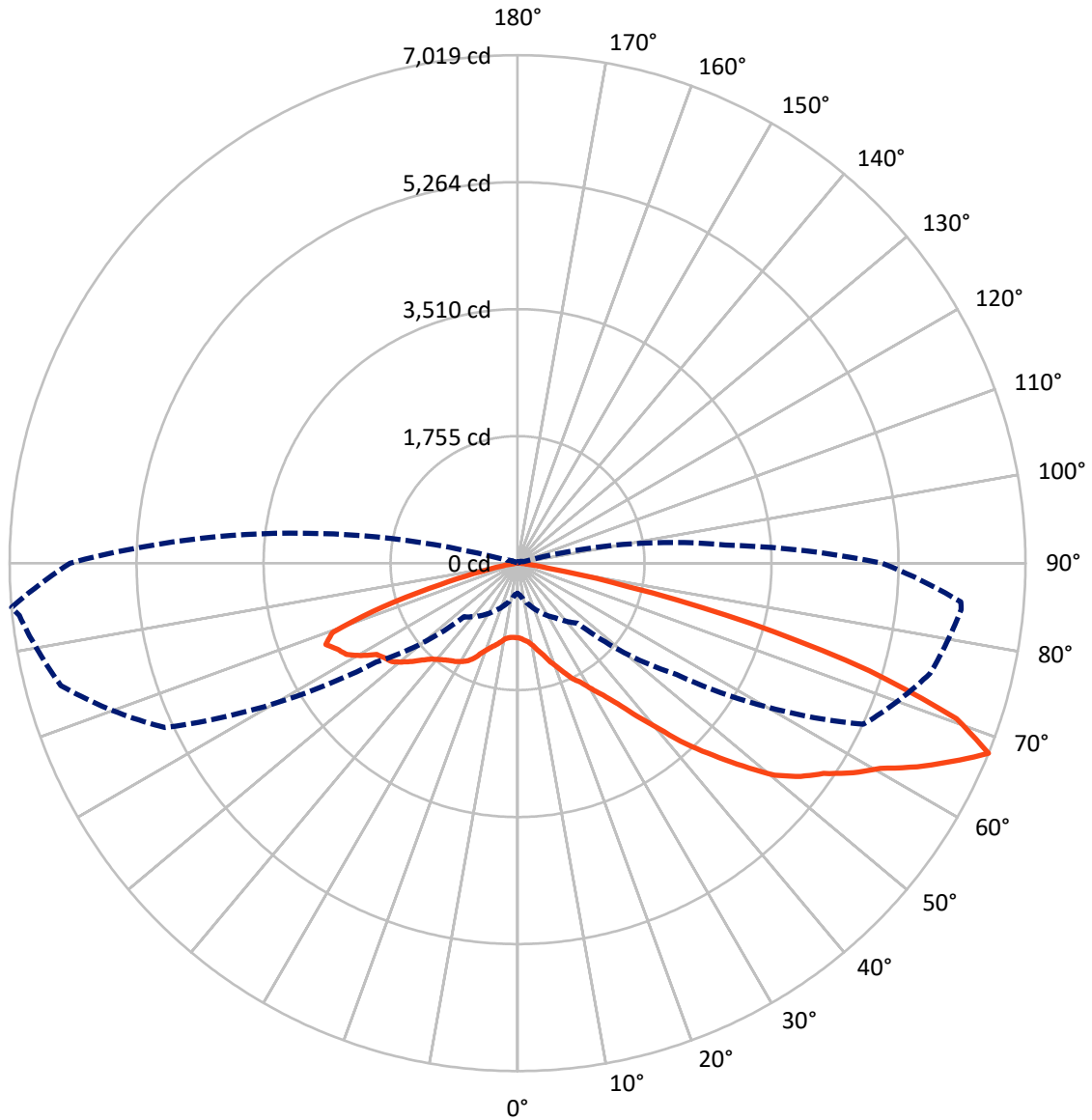
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 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	1007.9	0.0	1007.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	6087.0	0.0	6087.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	7094.9	0.0	7094.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	1.3
10°-20°	253.0	3.6
20°-30°	420.1	5.9
30°-40°	722.8	10.2
40°-50°	1298.9	18.3
50°-60°	1849.1	26.1
60°-70°	1685.8	23.8
70°-80°	717.8	10.1
80°-90°	53.4	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°	7094.9	100.0
0°-180°	7094.9	100.0



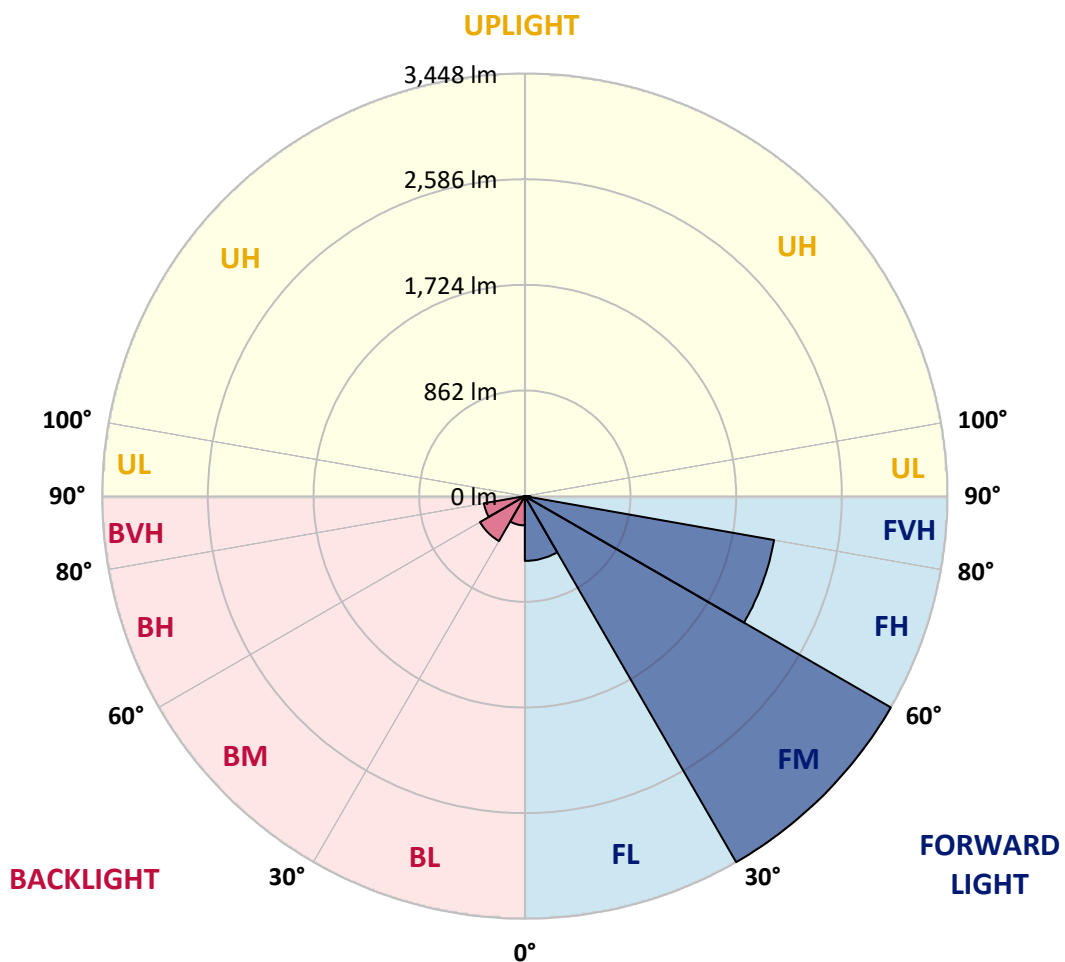
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.6	7.4			
FM (30°-60°)	3448.2	48.6			
FH (60°-80°)	2064.9	29.1			G2/5000
FVH (80°-90°)	45.4	0.6			G1/100
BL (0°-30°)	238.6	3.4	B1/500		
BM (30°-60°)	422.6	6.0	B1/1000		
BH (60°-80°)	338.7	4.8	B1/500		G1/500
BVH (80°-90°)	8.1	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7
2.5°	1068.9	1079.1	1079.1	1075.7	1065.5	1058.8	1055.4	1048.6	1041.9	1041.9	1045.2
5°	1079.1	1068.9	1082.4	1065.5	1065.5	1065.5	1079.1	1072.3	1068.9	1052.0	1052.0
7.5°	1079.1	1068.9	1068.9	1079.1	1068.9	1075.7	1092.6	1085.8	1099.4	1068.9	1075.7
10°	1048.6	1045.2	1052.0	1065.5	1068.9	1082.4	1099.4	1133.2	1136.6	1116.3	1112.9
12.5°	987.7	984.4	1008.0	1014.8	1055.4	1089.2	1140.0	1167.0	1197.5	1187.3	1167.0
15°	943.8	950.5	967.4	994.5	1031.7	1092.6	1150.1	1211.0	1265.1	1251.6	1244.8
17.5°	960.7	957.3	960.7	977.6	1024.9	1085.8	1183.9	1255.0	1332.8	1332.8	1339.5
20°	1011.4	1021.6	1018.2	1008.0	1031.7	1082.4	1183.9	1309.1	1437.6	1427.5	1427.5
22.5°	1099.4	1102.7	1082.4	1075.7	1072.3	1102.7	1204.2	1376.7	1525.6	1545.9	1539.1
25°	1190.7	1194.1	1187.3	1167.0	1140.0	1146.7	1241.4	1430.9	1647.4	1681.2	1674.4
27.5°	1342.9	1339.5	1322.6	1298.9	1258.3	1227.9	1298.9	1471.5	1742.1	1799.6	1782.7
30°	1495.1	1485.0	1461.3	1430.9	1393.7	1336.1	1370.0	1549.3	1860.5	1914.6	1877.4
32.5°	1681.2	1660.9	1667.6	1620.3	1542.5	1451.2	1444.4	1620.3	1955.2	2033.0	2002.5
35°	1918.0	1894.3	1860.5	1816.5	1742.1	1620.3	1583.1	1735.3	2114.2	2171.7	2171.7
37.5°	2229.2	2252.8	2212.3	2029.6	1948.4	1833.4	1755.6	1853.7	2252.8	2391.5	2357.7
40°	2547.1	2567.4	2493.0	2357.7	2181.8	2039.7	1992.4	2046.5	2462.6	2628.3	2564.1
42.5°	2804.2	2831.3	2804.2	2628.3	2489.6	2307.0	2222.4	2273.1	2733.2	2932.8	2848.2
45°	3074.8	3101.9	3071.4	2956.4	2821.1	2716.3	2503.2	2567.4	3017.3	3315.0	3220.3
47.5°	3277.8	3311.6	3257.5	3233.8	3125.6	3108.7	2746.7	2817.8	3315.0	3700.6	3582.2
50°	3325.1	3362.4	3409.7	3436.8	3399.6	3440.2	3074.8	3135.7	3626.2	4055.8	3940.8
52.5°	3213.5	3250.7	3355.6	3480.8	3653.3	3775.0	3406.3	3457.1	3950.9	4350.1	4289.2
55°	2885.4	2919.2	3132.3	3301.5	3714.2	3913.7	3724.3	3937.4	4184.3	4657.9	4509.1
57.5°	2334.0	2374.6	2655.4	2915.8	3511.2	3835.9	3913.7	4336.6	4570.0	4884.6	4712.0
60°	1657.5	1681.2	1924.7	2384.8	2949.7	3446.9	3876.5	4634.2	4874.4	5189.0	5097.7
62.5°	953.9	974.2	1227.9	1660.9	2225.8	2878.6	3710.8	4915.0	5202.5	5523.9	5473.1
65°	632.6	639.3	811.8	1048.6	1447.8	2120.9	3291.3	5165.3	5527.3	5791.1	5733.6
67.5°	416.1	453.3	588.6	750.9	926.8	1173.8	2682.4	5270.2	5899.3	6163.2	6149.7
70°	297.7	311.2	422.8	578.4	696.8	659.6	1569.6	4529.4	5882.4	6264.7	6153.0
72.5°	175.9	189.4	280.8	433.0	548.0	419.4	734.0	3203.4	4874.4	4999.6	4969.1
75°	128.5	128.5	172.5	311.2	399.2	301.1	345.0	2026.2	3237.2	3514.6	3511.2
77.5°	91.3	94.7	118.4	186.0	307.8	219.9	189.4	1126.4	1769.1	1934.9	1843.5
80°	54.1	57.5	81.2	111.6	223.3	159.0	125.2	514.2	679.9	686.7	652.9
82.5°	40.6	40.6	54.1	77.8	155.6	108.2	77.8	196.2	219.9	199.6	169.1
85°	23.7	20.3	40.6	57.5	91.3	60.9	54.1	91.3	101.5	74.4	67.7
87.5°	6.8	6.8	16.9	20.3	40.6	33.8	23.7	33.8	47.4	27.1	20.3
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°	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7
2.5°	1038.5	1028.3	1011.4	1004.6	981.0	970.8	964.1	947.1	950.5	940.4	940.4
5°	1028.3	1028.3	994.5	957.3	920.1	896.4	869.3	835.5	835.5	822.0	825.4
7.5°	1065.5	1038.5	994.5	926.8	866.0	811.8	788.2	754.3	734.0	723.9	723.9
10°	1089.2	1062.2	987.7	906.6	828.8	761.1	710.4	663.0	635.9	635.9	632.6
12.5°	1153.5	1112.9	1014.8	903.2	788.2	686.7	608.9	554.8	517.5	490.5	497.3
15°	1207.6	1163.6	1028.3	876.1	717.1	575.1	480.3	378.9	328.1	301.1	290.9
17.5°	1292.2	1211.0	1058.8	828.8	608.9	449.9	311.2	226.6	206.3	203.0	203.0
20°	1363.2	1268.5	1062.2	737.4	500.6	287.5	199.6	186.0	175.9	172.5	169.1
22.5°	1461.3	1342.9	1048.6	632.6	358.6	192.8	169.1	155.6	148.8	138.7	138.7
25°	1562.8	1441.0	1021.6	534.5	219.9	165.8	148.8	135.3	121.8	115.0	118.4
27.5°	1671.0	1515.4	943.8	416.1	169.1	145.5	121.8	111.6	104.9	101.5	101.5
30°	1759.0	1562.8	828.8	277.4	152.2	128.5	108.2	98.1	91.3	87.9	87.9
32.5°	1823.3	1603.4	700.2	186.0	138.7	115.0	98.1	87.9	81.2	77.8	77.8
35°	1931.5	1633.8	581.8	159.0	125.2	101.5	84.6	77.8	71.0	71.0	71.0
37.5°	2097.2	1674.4	463.4	145.5	115.0	91.3	81.2	71.0	67.7	64.3	64.3
40°	2242.7	1725.2	331.5	131.9	104.9	84.6	71.0	64.3	60.9	57.5	57.5
42.5°	2452.4	1782.7	216.5	118.4	94.7	77.8	64.3	57.5	54.1	50.7	50.7
45°	2719.7	1877.4	169.1	104.9	84.6	71.0	60.9	54.1	47.4	47.4	44.0
47.5°	3003.8	1992.4	152.2	98.1	77.8	64.3	54.1	47.4	44.0	40.6	40.6
50°	3267.6	2104.0	142.1	91.3	71.0	60.9	50.7	44.0	37.2	33.8	33.8
52.5°	3504.4	2208.9	135.3	84.6	67.7	54.1	44.0	37.2	33.8	30.4	30.4
55°	3629.6	2256.2	131.9	81.2	60.9	50.7	40.6	33.8	30.4	27.1	27.1
57.5°	3825.8	2317.1	128.5	77.8	57.5	44.0	37.2	30.4	27.1	23.7	23.7
60°	4143.8	2516.7	125.2	74.4	54.1	44.0	33.8	27.1	20.3	16.9	16.9
62.5°	4407.6	2682.4	111.6	64.3	47.4	37.2	27.1	20.3	13.5	10.1	10.1
65°	4708.7	2760.2	98.1	57.5	40.6	30.4	20.3	13.5	10.1	3.4	3.4
67.5°	5036.8	2878.6	81.2	50.7	37.2	23.7	16.9	10.1	3.4	0.0	0.0
70°	4864.3	2729.8	67.7	44.0	33.8	20.3	13.5	6.8	0.0	0.0	0.0
72.5°	3812.3	1955.2	54.1	40.6	30.4	20.3	13.5	3.4	0.0	0.0	0.0
75°	2547.1	1106.1	47.4	33.8	23.7	16.9	10.1	3.4	0.0	0.0	0.0
77.5°	1383.5	497.3	40.6	30.4	20.3	13.5	10.1	3.4	0.0	0.0	0.0
80°	449.9	196.2	33.8	27.1	20.3	13.5	10.1	3.4	0.0	0.0	0.0
82.5°	121.8	60.9	33.8	27.1	20.3	13.5	10.1	3.4	0.0	0.0	0.0
85°	50.7	40.6	33.8	27.1	20.3	13.5	10.1	3.4	0.0	0.0	0.0
87.5°	20.3	13.5	13.5	16.9	13.5	10.1	6.8	3.4	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°	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7
2.5°	943.8	950.5	953.9	953.9	970.8	987.7	1008.0	1024.9	1024.9	1035.1	1045.2
5°	828.8	835.5	845.7	876.1	909.9	947.1	984.4	1011.4	1048.6	1065.5	1075.7
7.5°	734.0	740.8	767.9	798.3	845.7	909.9	974.2	1035.1	1072.3	1089.2	1102.7
10°	635.9	646.1	676.5	730.7	791.5	869.3	943.8	1048.6	1109.5	1143.3	1156.9
12.5°	493.9	520.9	561.5	619.0	696.8	815.2	953.9	1062.2	1167.0	1207.6	1234.7
15°	311.2	334.9	399.2	490.5	595.3	734.0	926.8	1082.4	1227.9	1268.5	1312.5
17.5°	199.6	203.0	223.3	321.4	456.7	632.6	886.3	1112.9	1295.6	1353.1	1420.7
20°	169.1	175.9	179.3	192.8	304.4	520.9	801.7	1150.1	1376.7	1454.5	1518.8
22.5°	142.1	145.5	152.2	162.4	182.7	378.9	686.7	1150.1	1447.8	1562.8	1637.2
25°	115.0	121.8	128.5	138.7	159.0	236.8	568.3	1129.8	1532.3	1674.4	1769.1
27.5°	101.5	101.5	108.2	118.4	135.3	165.8	449.9	1068.9	1596.6	1742.1	1867.2
30°	87.9	91.3	94.7	104.9	121.8	145.5	311.2	970.8	1664.3	1874.0	2016.1
32.5°	77.8	77.8	84.6	91.3	108.2	131.9	199.6	822.0	1752.2	1975.5	2175.0
35°	71.0	71.0	74.4	81.2	98.1	118.4	155.6	696.8	1857.1	2168.3	2388.2
37.5°	64.3	64.3	67.7	74.4	87.9	104.9	142.1	598.7	1965.3	2361.1	2682.4
40°	57.5	57.5	60.9	67.7	77.8	94.7	128.5	483.7	2100.6	2645.2	3003.8
42.5°	50.7	50.7	54.1	60.9	71.0	84.6	111.6	361.9	2279.9	2953.1	3419.9
45°	44.0	44.0	47.4	54.1	60.9	77.8	101.5	277.4	2476.1	3294.7	3785.2
47.5°	37.2	40.6	44.0	50.7	57.5	71.0	91.3	243.6	2668.9	3656.6	4191.1
50°	33.8	33.8	37.2	44.0	54.1	64.3	84.6	240.2	2865.1	3934.0	4607.2
52.5°	30.4	30.4	33.8	40.6	50.7	60.9	81.2	246.9	3027.5	4191.1	4898.1
55°	27.1	27.1	30.4	33.8	44.0	57.5	74.4	253.7	3142.5	4451.6	5131.5
57.5°	23.7	23.7	27.1	33.8	40.6	50.7	67.7	260.5	3328.5	4708.7	5469.8
60°	16.9	16.9	23.7	30.4	37.2	44.0	64.3	267.2	3626.2	5063.8	5757.3
62.5°	10.1	10.1	13.5	23.7	30.4	40.6	57.5	253.7	3903.6	5520.5	6197.0
65°	3.4	6.8	10.1	13.5	23.7	33.8	47.4	230.0	4137.0	5977.1	6602.9
67.5°	0.0	0.0	3.4	10.1	20.3	27.1	40.6	169.1	4174.2	6183.5	7019.0
70°	0.0	0.0	3.4	10.1	16.9	27.1	37.2	94.7	3555.2	5523.9	6433.8
72.5°	0.0	0.0	0.0	6.8	16.9	23.7	33.8	71.0	2621.6	4164.0	5084.1
75°	0.0	0.0	0.0	3.4	13.5	20.3	30.4	54.1	1593.2	2777.2	3318.4
77.5°	0.0	0.0	0.0	3.4	10.1	20.3	30.4	47.4	561.5	1322.6	1559.4
80°	0.0	0.0	0.0	6.8	13.5	20.3	27.1	40.6	135.3	331.5	446.5
82.5°	0.0	0.0	0.0	3.4	10.1	16.9	23.7	33.8	54.1	98.1	155.6
85°	0.0	0.0	0.0	3.4	6.8	16.9	23.7	30.4	37.2	47.4	67.7
87.5°	0.0	0.0	0.0	0.0	3.4	6.8	10.1	13.5	13.5	13.5	23.7
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):**

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7
2.5°	1041.9	1055.4	1062.2	1075.7	1082.4	1079.1	1075.7	1085.8	1079.1	1068.9
5°	1079.1	1079.1	1089.2	1092.6	1092.6	1082.4	1089.2	1085.8	1079.1	1079.1
7.5°	1119.7	1136.6	1136.6	1116.3	1112.9	1106.1	1106.1	1079.1	1068.9	1079.1
10°	1160.3	1173.8	1177.2	1153.5	1123.0	1109.5	1092.6	1058.8	1041.9	1048.6
12.5°	1244.8	1244.8	1207.6	1180.5	1140.0	1092.6	1052.0	1004.6	981.0	987.7
15°	1305.7	1319.2	1268.5	1207.6	1136.6	1048.6	1004.6	967.4	953.9	943.8
17.5°	1424.1	1397.0	1315.9	1227.9	1126.4	1035.1	1004.6	970.8	960.7	960.7
20°	1525.6	1512.0	1390.3	1231.3	1123.0	1062.2	1041.9	1024.9	1021.6	1011.4
22.5°	1664.3	1603.4	1447.8	1268.5	1160.3	1106.1	1099.4	1116.3	1106.1	1099.4
25°	1769.1	1718.4	1491.8	1322.6	1217.8	1200.8	1211.0	1227.9	1200.8	1190.7
27.5°	1911.2	1816.5	1576.3	1393.7	1295.6	1312.5	1346.3	1349.7	1332.8	1342.9
30°	2043.1	1941.6	1640.6	1474.8	1427.5	1444.4	1495.1	1532.3	1508.7	1495.1
32.5°	2232.6	2076.9	1769.1	1610.1	1593.2	1637.2	1694.7	1718.4	1687.9	1681.2
35°	2432.1	2232.6	1901.1	1762.4	1792.8	1853.7	1904.4	1945.0	1897.7	1918.0
37.5°	2743.3	2482.9	2124.3	2002.5	2016.1	2039.7	2134.5	2246.1	2269.8	2229.2
40°	3068.1	2753.5	2330.6	2235.9	2266.4	2330.6	2442.3	2547.1	2601.3	2547.1
42.5°	3443.5	3013.9	2648.6	2537.0	2567.4	2658.8	2807.6	2892.2	2885.4	2804.2
45°	3907.0	3375.9	2946.3	2807.6	2919.2	3000.4	3149.3	3159.4	3095.1	3074.8
47.5°	4262.1	3680.3	3267.6	3179.7	3331.9	3335.3	3369.1	3372.5	3301.5	3277.8
50°	4654.5	4032.1	3626.2	3497.7	3754.7	3636.4	3545.0	3484.1	3375.9	3325.1
52.5°	5040.2	4282.4	3957.7	3825.8	4093.0	3778.4	3612.7	3426.6	3267.6	3213.5
55°	5246.5	4695.1	4441.4	4133.6	4167.4	3819.0	3402.9	3169.5	2898.9	2885.4
57.5°	5490.0	4972.5	4850.7	4343.3	4042.3	3534.9	2966.6	2658.8	2367.9	2334.0
60°	5777.6	5412.2	5283.7	4309.5	3599.1	2970.0	2350.9	1955.2	1681.2	1657.5
62.5°	6098.9	5933.2	5550.9	3978.0	2858.3	2090.5	1552.6	1221.1	967.4	953.9
65°	6606.3	6369.5	5693.0	3348.8	1890.9	1339.5	1031.7	791.5	639.3	632.6
67.5°	6924.3	6535.3	5375.0	2388.2	1048.6	886.3	723.9	575.1	443.1	416.1
70°	6474.4	5997.4	4252.0	1366.6	608.9	673.1	558.1	385.6	304.4	297.7
72.5°	5172.1	4451.6	2861.7	642.7	378.9	527.7	405.9	260.5	182.7	175.9
75°	3528.1	2800.8	1796.2	297.7	267.2	385.6	297.7	152.2	128.5	128.5
77.5°	1576.3	1427.5	920.1	182.7	199.6	294.3	172.5	104.9	94.7	91.3
80°	480.3	504.0	375.5	125.2	148.8	223.3	104.9	71.0	57.5	54.1
82.5°	162.4	189.4	169.1	74.4	101.5	159.0	71.0	47.4	40.6	40.6
85°	77.8	94.7	84.6	47.4	54.1	77.8	57.5	37.2	23.7	23.7
87.5°	30.4	44.0	30.4	20.3	30.4	40.6	23.7	16.9	6.8	6.8
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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