

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: P676333

Luminaire Tested: **CCW-SA-1E-835-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676333  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-835-U-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
T2 distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

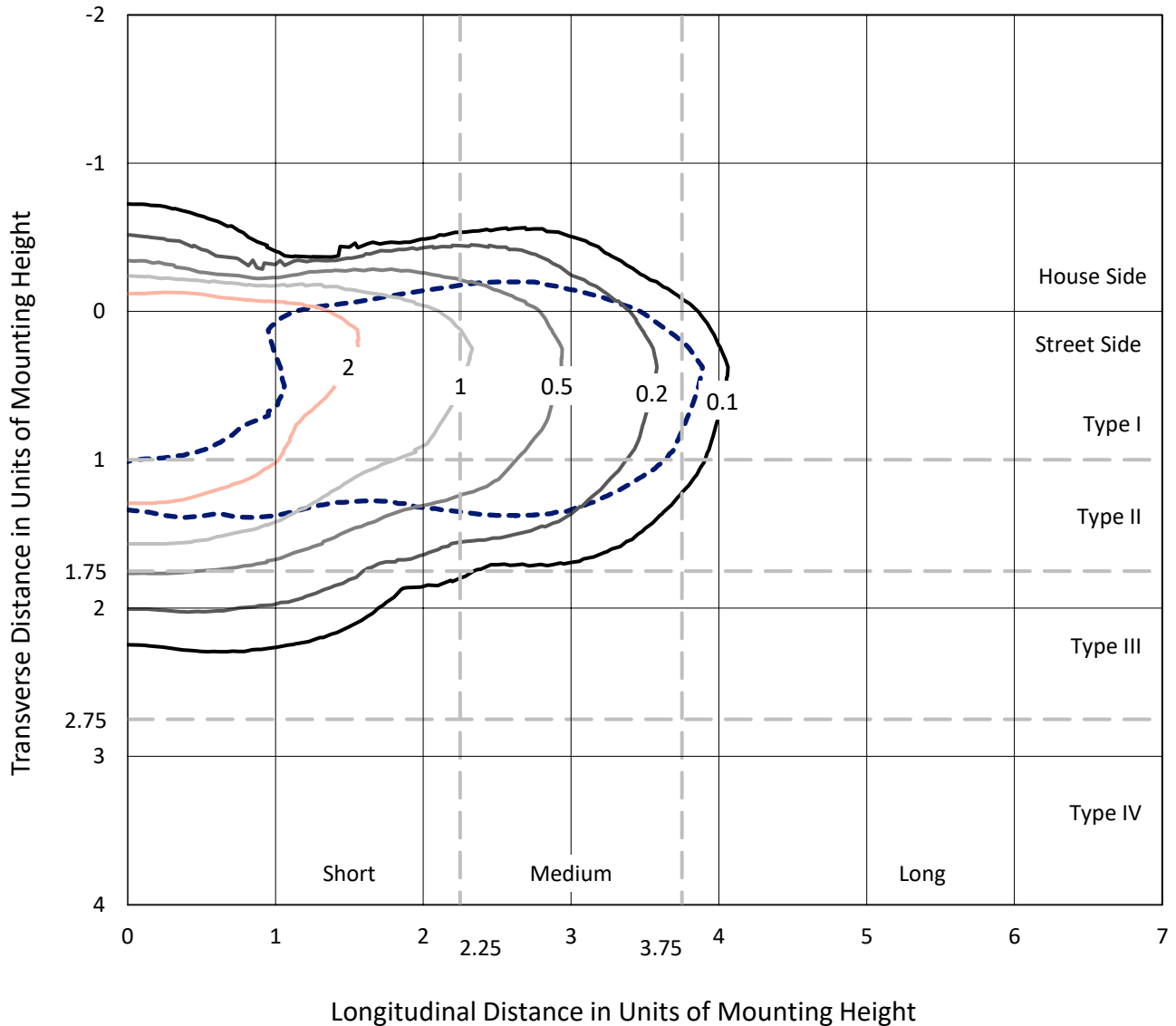
Lumens per Lamp: N/A  
Luminaire Lumens: 4349.4 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1  
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

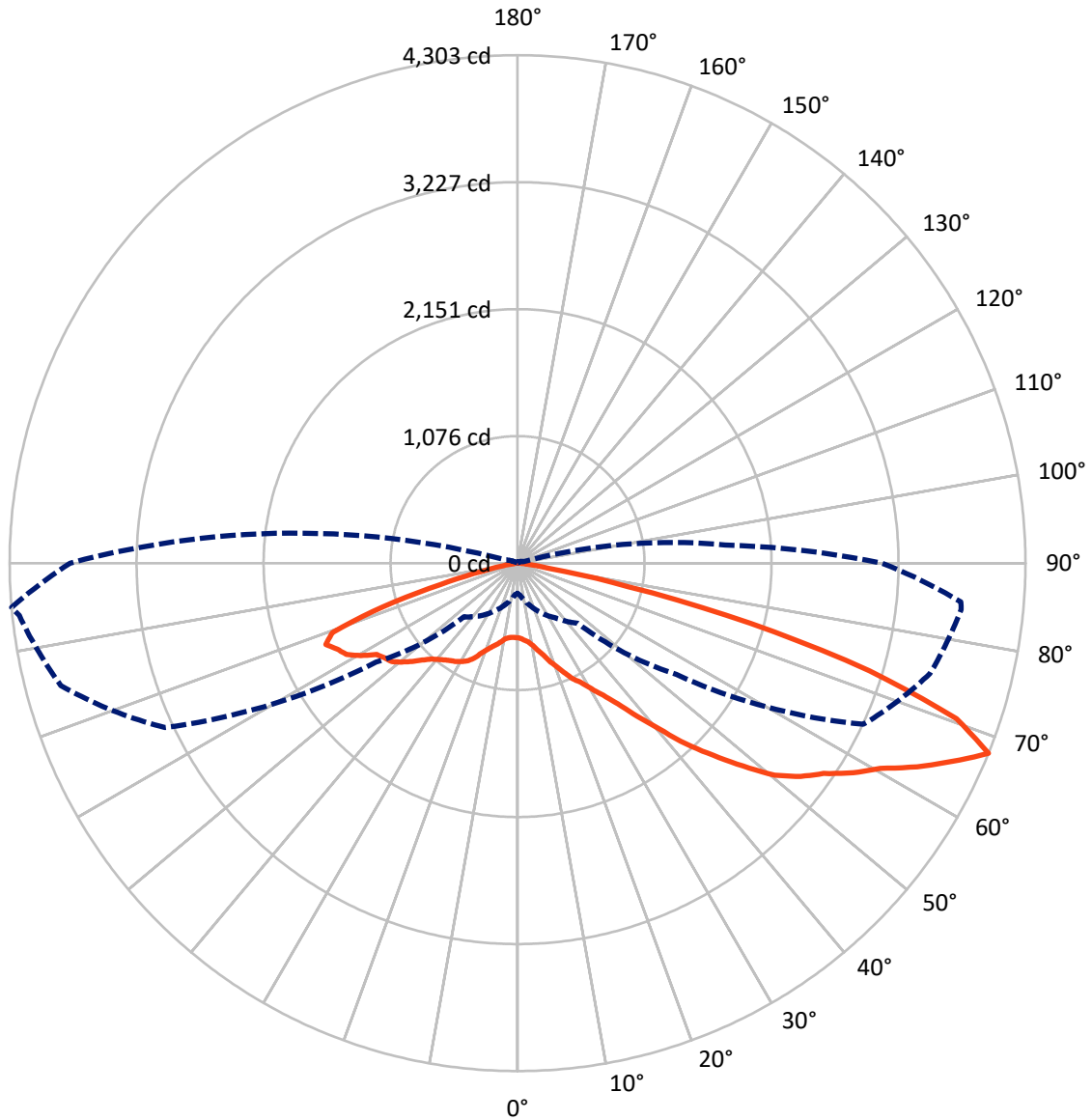
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 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	617.9	0.0	617.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	3731.5	0.0	3731.5
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	4349.4	0.0	4349.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.7	1.3
10°-20°	155.1	3.6
20°-30°	257.5	5.9
30°-40°	443.1	10.2
40°-50°	796.3	18.3
50°-60°	1133.5	26.1
60°-70°	1033.4	23.8
70°-80°	440.1	10.1
80°-90°	32.8	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°	4349.4	100.0
0°-180°	4349.4	100.0



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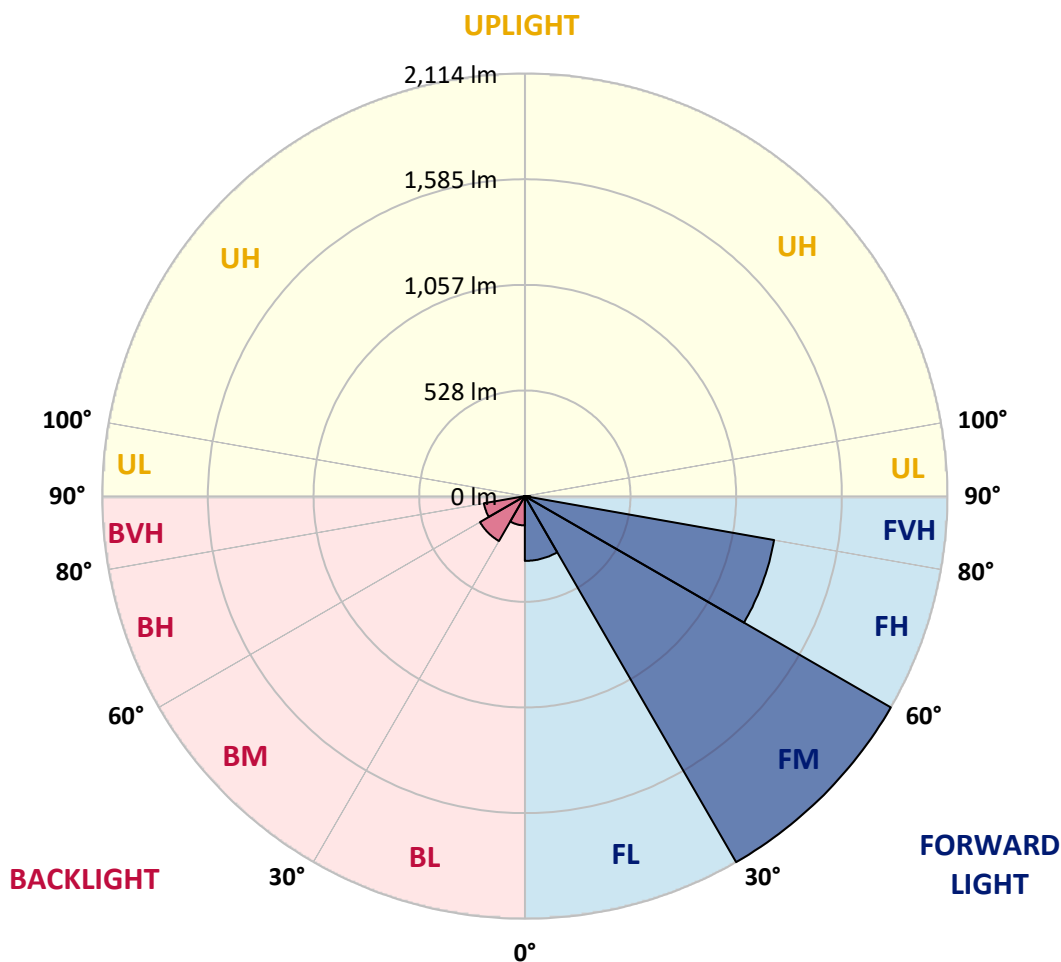
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.0	7.4			
FM (30°-60°)	2113.8	48.6			
FH (60°-80°)	1265.9	29.1			G1/1800
FVH (80°-90°)	27.8	0.6			G1/100
BL (0°-30°)	146.3	3.4	B1/500		
BM (30°-60°)	259.1	6.0	B1/1000		
BH (60°-80°)	207.6	4.8	B1/500		G1/500
BVH (80°-90°)	4.9	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°	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
2.5°	655.3	661.5	661.5	659.4	653.2	649.1	647.0	642.8	638.7	638.7	640.8
5°	661.5	655.3	663.6	653.2	653.2	653.2	661.5	657.4	655.3	644.9	644.9
7.5°	661.5	655.3	655.3	661.5	655.3	659.4	669.8	665.7	673.9	655.3	659.4
10°	642.8	640.8	644.9	653.2	655.3	663.6	673.9	694.7	696.8	684.3	682.2
12.5°	605.5	603.4	618.0	622.1	647.0	667.7	698.8	715.4	734.1	727.9	715.4
15°	578.6	582.7	593.1	609.7	632.5	669.8	705.1	742.4	775.6	767.3	763.1
17.5°	588.9	586.9	588.9	599.3	628.3	665.7	725.8	769.3	817.0	817.0	821.2
20°	620.0	626.3	624.2	618.0	632.5	663.6	725.8	802.5	881.3	875.1	875.1
22.5°	673.9	676.0	663.6	659.4	657.4	676.0	738.2	844.0	935.2	947.7	943.5
25°	729.9	732.0	727.9	715.4	698.8	703.0	761.0	877.2	1009.9	1030.6	1026.5
27.5°	823.3	821.2	810.8	796.3	771.4	752.7	796.3	902.1	1067.9	1103.2	1092.8
30°	916.6	910.3	895.8	877.2	854.4	819.1	839.8	949.7	1140.5	1173.7	1150.9
32.5°	1030.6	1018.2	1022.3	993.3	945.6	889.6	885.5	993.3	1198.6	1246.3	1227.6
35°	1175.8	1161.3	1140.5	1113.6	1067.9	993.3	970.5	1063.8	1296.1	1331.3	1331.3
37.5°	1366.6	1381.1	1356.2	1244.2	1194.4	1123.9	1076.2	1136.4	1381.1	1466.1	1445.4
40°	1561.5	1573.9	1528.3	1445.4	1337.5	1250.4	1221.4	1254.6	1509.6	1611.2	1571.8
42.5°	1719.1	1735.7	1719.1	1611.2	1526.2	1414.3	1362.4	1393.5	1675.5	1797.9	1746.0
45°	1885.0	1901.6	1882.9	1812.4	1729.4	1665.2	1534.5	1573.9	1849.7	2032.2	1974.1
47.5°	2009.4	2030.1	1997.0	1982.4	1916.1	1905.7	1683.8	1727.4	2032.2	2268.6	2196.0
50°	2038.4	2061.2	2090.3	2106.9	2084.0	2108.9	1885.0	1922.3	2223.0	2486.3	2415.8
52.5°	1970.0	1992.8	2057.1	2133.8	2239.6	2314.2	2088.2	2119.3	2422.1	2666.8	2629.4
55°	1768.8	1789.6	1920.2	2023.9	2276.9	2399.2	2283.1	2413.8	2565.1	2855.5	2764.2
57.5°	1430.8	1455.7	1627.8	1787.5	2152.5	2351.6	2399.2	2658.5	2801.5	2994.4	2888.6
60°	1016.1	1030.6	1179.9	1461.9	1808.2	2113.1	2376.4	2840.9	2988.2	3181.0	3125.0
62.5°	584.8	597.2	752.7	1018.2	1364.5	1764.7	2274.8	3013.1	3189.3	3386.3	3355.2
65°	387.8	391.9	497.7	642.8	887.5	1300.2	2017.7	3166.5	3388.4	3550.1	3514.9
67.5°	255.1	277.9	360.8	460.4	568.2	719.6	1644.4	3230.8	3616.5	3778.2	3770.0
70°	182.5	190.8	259.2	354.6	427.2	404.4	962.2	2776.7	3606.1	3840.5	3772.0
72.5°	107.8	116.1	172.1	265.4	335.9	257.1	450.0	1963.8	2988.2	3064.9	3046.2
75°	78.8	78.8	105.8	190.8	244.7	184.6	211.5	1242.1	1984.5	2154.6	2152.5
77.5°	56.0	58.1	72.6	114.1	188.7	134.8	116.1	690.5	1084.5	1186.1	1130.2
80°	33.2	35.3	49.8	68.4	136.9	97.5	76.7	315.2	416.8	421.0	400.2
82.5°	24.9	24.9	33.2	47.7	95.4	66.4	47.7	120.3	134.8	122.3	103.7
85°	14.5	12.4	24.9	35.3	56.0	37.3	33.2	56.0	62.2	45.6	41.5
87.5°	4.1	4.1	10.4	12.4	24.9	20.7	14.5	20.7	29.0	16.6	12.4
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°	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
2.5°	636.6	630.4	620.0	615.9	601.4	595.1	591.0	580.6	582.7	576.5	576.5
5°	630.4	630.4	609.7	586.9	564.0	549.5	532.9	512.2	512.2	503.9	506.0
7.5°	653.2	636.6	609.7	568.2	530.9	497.7	483.2	462.4	450.0	443.8	443.8
10°	667.7	651.1	605.5	555.7	508.1	466.6	435.5	406.4	389.9	389.9	387.8
12.5°	707.1	682.2	622.1	553.7	483.2	421.0	373.3	340.1	317.3	300.7	304.8
15°	740.3	713.3	630.4	537.1	439.6	352.5	294.5	232.3	201.1	184.6	178.3
17.5°	792.1	742.4	649.1	508.1	373.3	275.8	190.8	138.9	126.5	124.4	124.4
20°	835.7	777.6	651.1	452.1	306.9	176.3	122.3	114.1	107.8	105.8	103.7
22.5°	895.8	823.3	642.8	387.8	219.8	118.2	103.7	95.4	91.2	85.0	85.0
25°	958.0	883.4	626.3	327.6	134.8	101.6	91.2	82.9	74.7	70.5	72.6
27.5°	1024.4	929.0	578.6	255.1	103.7	89.2	74.7	68.4	64.3	62.2	62.2
30°	1078.3	958.0	508.1	170.0	93.3	78.8	66.4	60.1	56.0	53.9	53.9
32.5°	1117.7	982.9	429.3	114.1	85.0	70.5	60.1	53.9	49.8	47.7	47.7
35°	1184.1	1001.6	356.7	97.5	76.7	62.2	51.8	47.7	43.5	43.5	43.5
37.5°	1285.7	1026.5	284.1	89.2	70.5	56.0	49.8	43.5	41.5	39.4	39.4
40°	1374.9	1057.6	203.2	80.9	64.3	51.8	43.5	39.4	37.3	35.3	35.3
42.5°	1503.4	1092.8	132.7	72.6	58.1	47.7	39.4	35.3	33.2	31.1	31.1
45°	1667.2	1150.9	103.7	64.3	51.8	43.5	37.3	33.2	29.0	29.0	27.0
47.5°	1841.4	1221.4	93.3	60.1	47.7	39.4	33.2	29.0	27.0	24.9	24.9
50°	2003.2	1289.8	87.1	56.0	43.5	37.3	31.1	27.0	22.8	20.7	20.7
52.5°	2148.3	1354.1	82.9	51.8	41.5	33.2	27.0	22.8	20.7	18.7	18.7
55°	2225.1	1383.1	80.9	49.8	37.3	31.1	24.9	20.7	18.7	16.6	16.6
57.5°	2345.3	1420.5	78.8	47.7	35.3	27.0	22.8	18.7	16.6	14.5	14.5
60°	2540.3	1542.8	76.7	45.6	33.2	27.0	20.7	16.6	12.4	10.4	10.4
62.5°	2702.0	1644.4	68.4	39.4	29.0	22.8	16.6	12.4	8.3	6.2	6.2
65°	2886.6	1692.1	60.1	35.3	24.9	18.7	12.4	8.3	6.2	2.1	2.1
67.5°	3087.7	1764.7	49.8	31.1	22.8	14.5	10.4	6.2	2.1	0.0	0.0
70°	2982.0	1673.5	41.5	27.0	20.7	12.4	8.3	4.1	0.0	0.0	0.0
72.5°	2337.0	1198.6	33.2	24.9	18.7	12.4	8.3	2.1	0.0	0.0	0.0
75°	1561.5	678.1	29.0	20.7	14.5	10.4	6.2	2.1	0.0	0.0	0.0
77.5°	848.1	304.8	24.9	18.7	12.4	8.3	6.2	2.1	0.0	0.0	0.0
80°	275.8	120.3	20.7	16.6	12.4	8.3	6.2	2.1	0.0	0.0	0.0
82.5°	74.7	37.3	20.7	16.6	12.4	8.3	6.2	2.1	0.0	0.0	0.0
85°	31.1	24.9	20.7	16.6	12.4	8.3	6.2	2.1	0.0	0.0	0.0
87.5°	12.4	8.3	8.3	10.4	8.3	6.2	4.1	2.1	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°	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
2.5°	578.6	582.7	584.8	584.8	595.1	605.5	618.0	628.3	628.3	634.5	640.8
5°	508.1	512.2	518.4	537.1	557.8	580.6	603.4	620.0	642.8	653.2	659.4
7.5°	450.0	454.1	470.7	489.4	518.4	557.8	597.2	634.5	657.4	667.7	676.0
10°	389.9	396.1	414.7	447.9	485.2	532.9	578.6	642.8	680.2	700.9	709.2
12.5°	302.8	319.3	344.2	379.5	427.2	499.8	584.8	651.1	715.4	740.3	756.9
15°	190.8	205.3	244.7	300.7	365.0	450.0	568.2	663.6	752.7	777.6	804.6
17.5°	122.3	124.4	136.9	197.0	279.9	387.8	543.3	682.2	794.2	829.5	870.9
20°	103.7	107.8	109.9	118.2	186.6	319.3	491.5	705.1	844.0	891.7	931.1
22.5°	87.1	89.2	93.3	99.5	112.0	232.3	421.0	705.1	887.5	958.0	1003.7
25°	70.5	74.7	78.8	85.0	97.5	145.2	348.4	692.6	939.4	1026.5	1084.5
27.5°	62.2	62.2	66.4	72.6	82.9	101.6	275.8	655.3	978.8	1067.9	1144.7
30°	53.9	56.0	58.1	64.3	74.7	89.2	190.8	595.1	1020.3	1148.8	1235.9
32.5°	47.7	47.7	51.8	56.0	66.4	80.9	122.3	503.9	1074.2	1211.0	1333.4
35°	43.5	43.5	45.6	49.8	60.1	72.6	95.4	427.2	1138.5	1329.2	1464.0
37.5°	39.4	39.4	41.5	45.6	53.9	64.3	87.1	367.0	1204.8	1447.4	1644.4
40°	35.3	35.3	37.3	41.5	47.7	58.1	78.8	296.5	1287.8	1621.6	1841.4
42.5°	31.1	31.1	33.2	37.3	43.5	51.8	68.4	221.9	1397.7	1810.3	2096.5
45°	27.0	27.0	29.0	33.2	37.3	47.7	62.2	170.0	1517.9	2019.8	2320.4
47.5°	22.8	24.9	27.0	31.1	35.3	43.5	56.0	149.3	1636.1	2241.6	2569.3
50°	20.7	20.7	22.8	27.0	33.2	39.4	51.8	147.2	1756.4	2411.7	2824.4
52.5°	18.7	18.7	20.7	24.9	31.1	37.3	49.8	151.4	1855.9	2569.3	3002.7
55°	16.6	16.6	18.7	20.7	27.0	35.3	45.6	155.5	1926.4	2729.0	3145.8
57.5°	14.5	14.5	16.6	20.7	24.9	31.1	41.5	159.7	2040.5	2886.6	3353.1
60°	10.4	10.4	14.5	18.7	22.8	27.0	39.4	163.8	2223.0	3104.3	3529.4
62.5°	6.2	6.2	8.3	14.5	18.7	24.9	35.3	155.5	2393.0	3384.2	3799.0
65°	2.1	4.1	6.2	8.3	14.5	20.7	29.0	141.0	2536.1	3664.2	4047.8
67.5°	0.0	0.0	2.1	6.2	12.4	16.6	24.9	103.7	2558.9	3790.7	4302.9
70°	0.0	0.0	2.1	6.2	10.4	16.6	22.8	58.1	2179.4	3386.3	3944.1
72.5°	0.0	0.0	0.0	4.1	10.4	14.5	20.7	43.5	1607.1	2552.7	3116.7
75°	0.0	0.0	0.0	2.1	8.3	12.4	18.7	33.2	976.7	1702.5	2034.3
77.5°	0.0	0.0	0.0	2.1	6.2	12.4	18.7	29.0	344.2	810.8	956.0
80°	0.0	0.0	0.0	4.1	8.3	12.4	16.6	24.9	82.9	203.2	273.7
82.5°	0.0	0.0	0.0	2.1	6.2	10.4	14.5	20.7	33.2	60.1	95.4
85°	0.0	0.0	0.0	2.1	4.1	10.4	14.5	18.7	22.8	29.0	41.5
87.5°	0.0	0.0	0.0	0.0	2.1	4.1	6.2	8.3	8.3	8.3	14.5
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°	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
2.5°	638.7	647.0	651.1	659.4	663.6	661.5	659.4	665.7	661.5	655.3
5°	661.5	661.5	667.7	669.8	669.8	663.6	667.7	665.7	661.5	661.5
7.5°	686.4	696.8	696.8	684.3	682.2	678.1	678.1	661.5	655.3	661.5
10°	711.3	719.6	721.6	707.1	688.5	680.2	669.8	649.1	638.7	642.8
12.5°	763.1	763.1	740.3	723.7	698.8	669.8	644.9	615.9	601.4	605.5
15°	800.4	808.7	777.6	740.3	696.8	642.8	615.9	593.1	584.8	578.6
17.5°	873.0	856.4	806.7	752.7	690.5	634.5	615.9	595.1	588.9	588.9
20°	935.2	926.9	852.3	754.8	688.5	651.1	638.7	628.3	626.3	620.0
22.5°	1020.3	982.9	887.5	777.6	711.3	678.1	673.9	684.3	678.1	673.9
25°	1084.5	1053.4	914.5	810.8	746.5	736.2	742.4	752.7	736.2	729.9
27.5°	1171.6	1113.6	966.3	854.4	794.2	804.6	825.3	827.4	817.0	823.3
30°	1252.5	1190.3	1005.7	904.1	875.1	885.5	916.6	939.4	924.9	916.6
32.5°	1368.6	1273.2	1084.5	987.1	976.7	1003.7	1038.9	1053.4	1034.8	1030.6
35°	1491.0	1368.6	1165.4	1080.4	1099.1	1136.4	1167.5	1192.4	1163.3	1175.8
37.5°	1681.8	1522.1	1302.3	1227.6	1235.9	1250.4	1308.5	1376.9	1391.4	1366.6
40°	1880.8	1688.0	1428.8	1370.7	1389.4	1428.8	1497.2	1561.5	1594.7	1561.5
42.5°	2111.0	1847.6	1623.7	1555.3	1573.9	1629.9	1721.2	1773.0	1768.8	1719.1
45°	2395.1	2069.5	1806.2	1721.2	1789.6	1839.4	1930.6	1936.8	1897.4	1885.0
47.5°	2612.8	2256.2	2003.2	1949.3	2042.6	2044.6	2065.4	2067.5	2023.9	2009.4
50°	2853.4	2471.8	2223.0	2144.2	2301.8	2229.2	2173.2	2135.9	2069.5	2038.4
52.5°	3089.8	2625.3	2426.2	2345.3	2509.2	2316.3	2214.7	2100.6	2003.2	1970.0
55°	3216.3	2878.3	2722.7	2534.0	2554.8	2341.2	2086.1	1943.0	1777.1	1768.8
57.5°	3365.6	3048.3	2973.7	2662.6	2478.0	2167.0	1818.6	1629.9	1451.6	1430.8
60°	3541.8	3317.9	3239.1	2641.9	2206.4	1820.7	1441.2	1198.6	1030.6	1016.1
62.5°	3738.8	3637.2	3402.9	2438.6	1752.3	1281.5	951.8	748.6	593.1	584.8
65°	4049.9	3904.7	3490.0	2052.9	1159.2	821.2	632.5	485.2	391.9	387.8
67.5°	4244.8	4006.4	3295.1	1464.0	642.8	543.3	443.8	352.5	271.7	255.1
70°	3969.0	3676.6	2606.6	837.8	373.3	412.7	342.2	236.4	186.6	182.5
72.5°	3170.7	2729.0	1754.3	394.0	232.3	323.5	248.8	159.7	112.0	107.8
75°	2162.8	1717.0	1101.1	182.5	163.8	236.4	182.5	93.3	78.8	78.8
77.5°	966.3	875.1	564.0	112.0	122.3	180.4	105.8	64.3	58.1	56.0
80°	294.5	309.0	230.2	76.7	91.2	136.9	64.3	43.5	35.3	33.2
82.5°	99.5	116.1	103.7	45.6	62.2	97.5	43.5	29.0	24.9	24.9
85°	47.7	58.1	51.8	29.0	33.2	47.7	35.3	22.8	14.5	14.5
87.5°	18.7	27.0	18.7	12.4	18.7	24.9	14.5	10.4	4.1	4.1
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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