

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: P677438

Luminaire Tested: **CCW-SA-1B-750-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677438  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-750-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
SLR distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2538.7 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

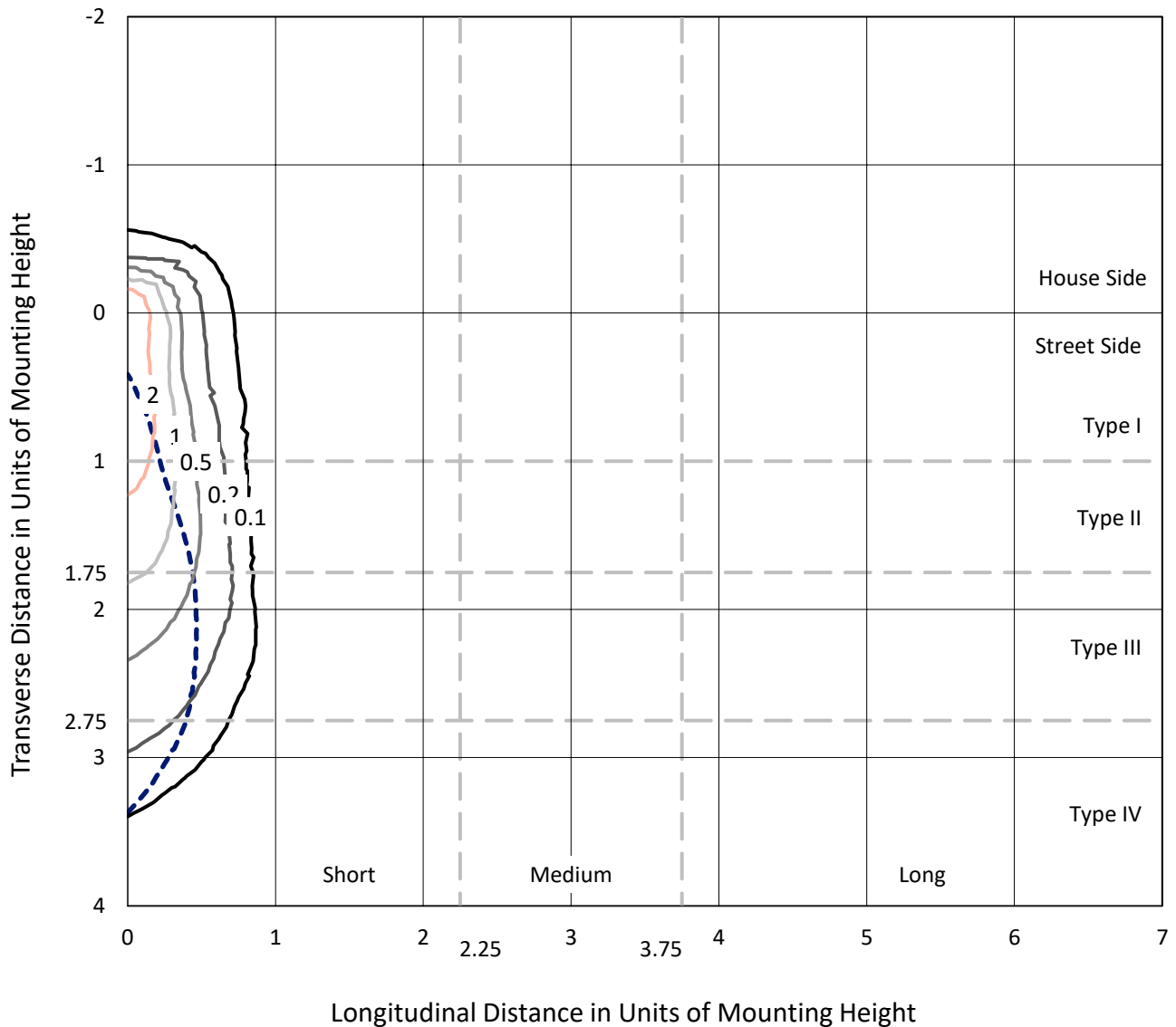
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

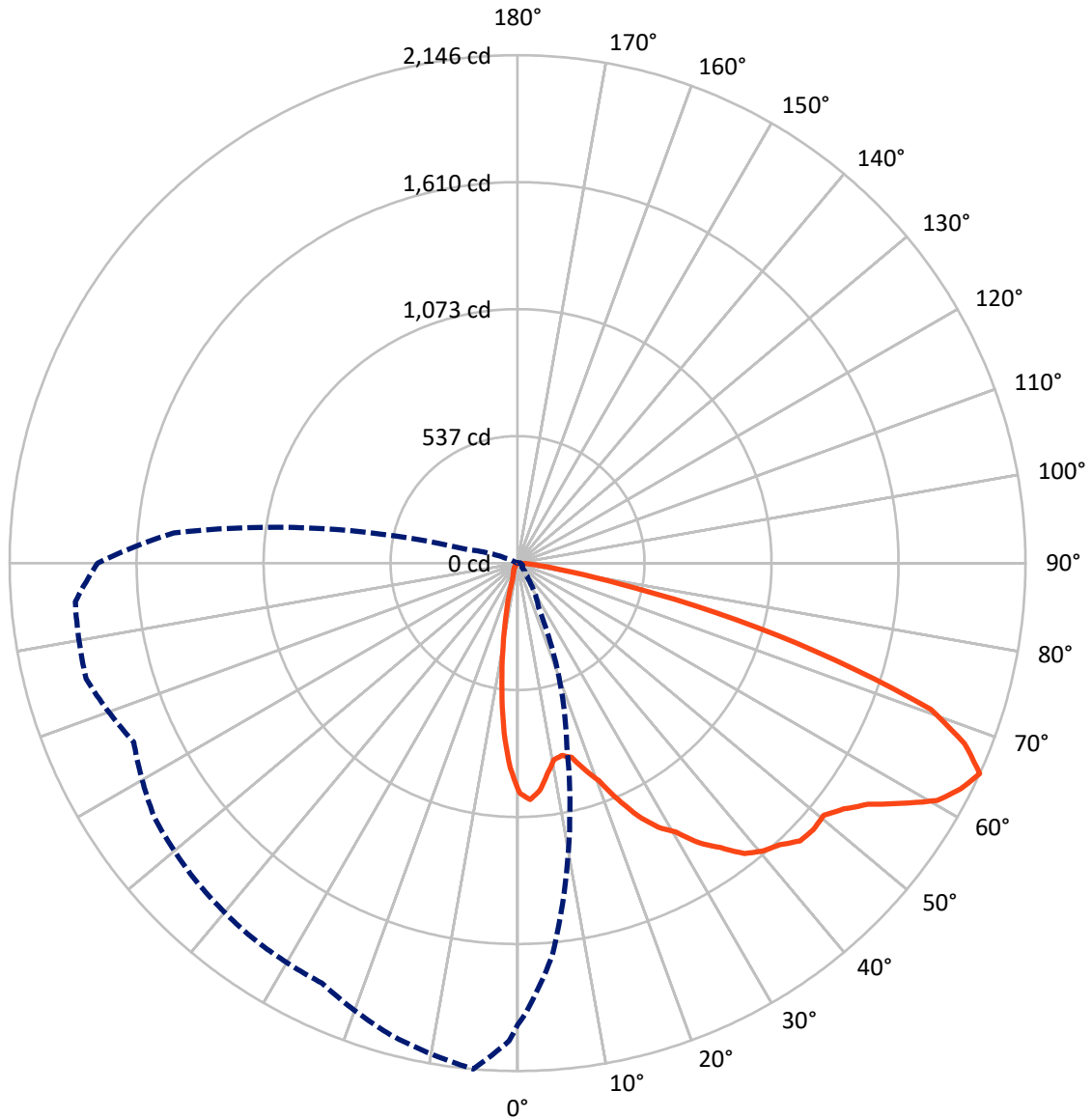
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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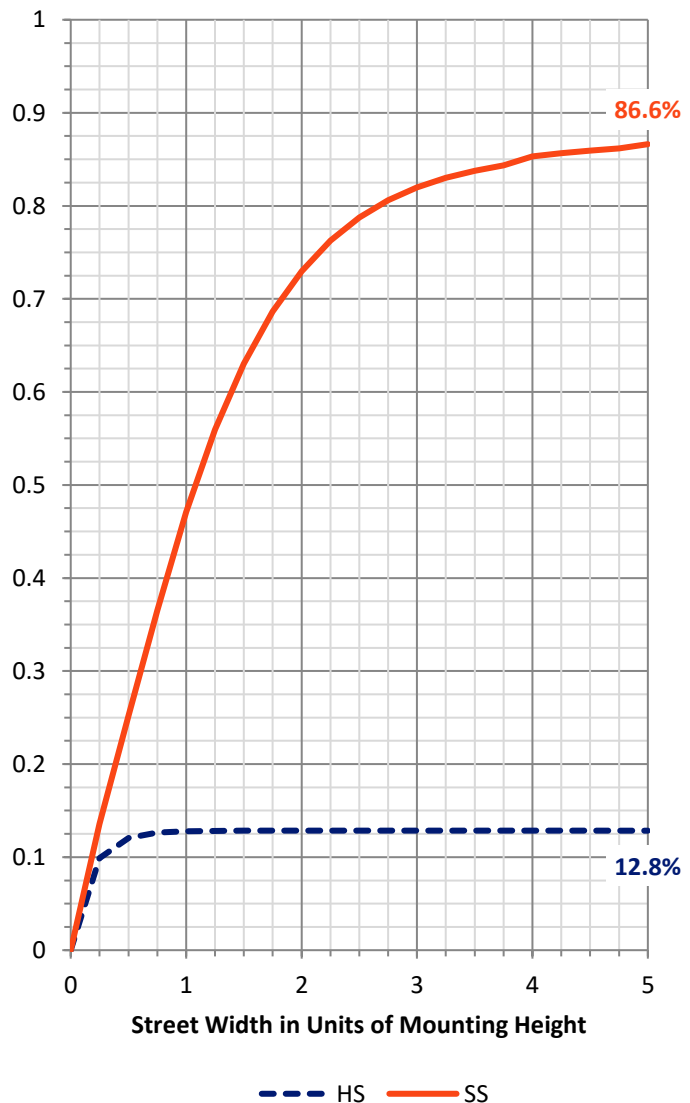
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	329.6	0.0	329.6
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	2209.1	0.0	2209.1
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	2538.7	0.0	2538.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.5	2.9
10°-20°	142.4	5.6
20°-30°	198.3	7.8
30°-40°	281.7	11.1
40°-50°	390.7	15.4
50°-60°	532.3	21.0
60°-70°	585.2	23.1
70°-80°	287.6	11.3
80°-90°	47.0	1.9
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°	2538.7	100.0
0°-180°	2538.7	100.0



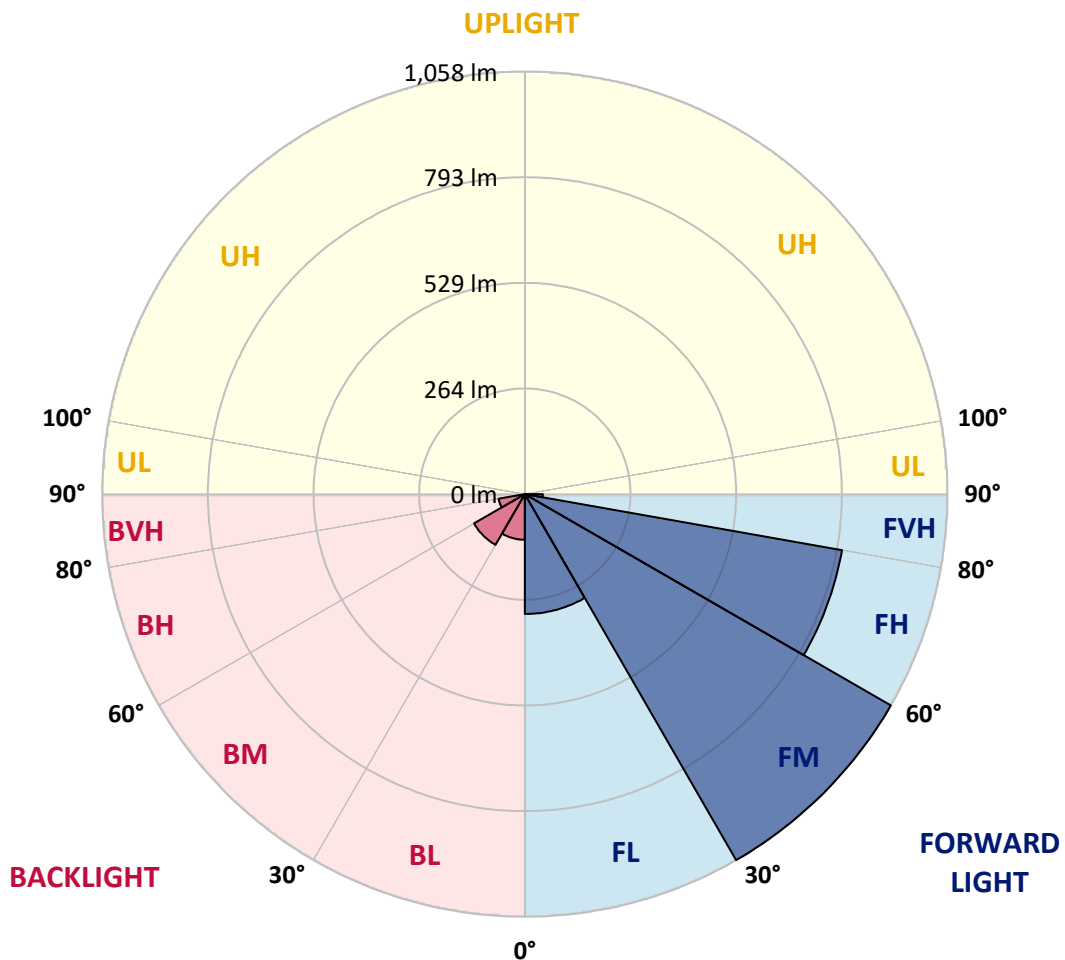
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	300.0	11.8			
FM	(30°-60°)	1058.0	41.7			
FH	(60°-80°)	806.3	31.8			G1/1800
FVH	(80°-90°)	44.9	1.8			G1/100
BL	(0°-30°)	114.1	4.5	B1/500		
BM	(30°-60°)	146.8	5.8	B0/220		
BH	(60°-80°)	66.6	2.6	B0/110		G0/110
BVH	(80°-90°)	2.1	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5
2.5°	990.4	1002.0	991.1	952.7	945.9	927.4	899.4	897.3	867.9	871.3	855.6
5°	930.8	942.5	919.2	868.6	821.3	783.7	761.1	720.7	711.8	692.0	692.0
7.5°	869.9	869.2	829.5	787.1	716.6	647.5	616.0	557.8	523.6	505.1	487.3
10°	819.3	808.3	783.7	696.1	619.4	547.6	508.5	470.2	434.6	403.8	373.0
12.5°	783.7	790.5	751.5	656.4	557.1	507.2	465.4	425.0	382.6	347.7	313.5
15°	802.2	791.2	745.4	647.5	546.9	478.4	423.0	373.7	326.5	280.6	254.6
17.5°	859.7	831.6	777.5	647.5	525.7	434.6	367.5	309.4	258.7	217.7	185.5
20°	937.0	904.8	846.7	671.4	509.9	402.5	310.7	237.5	184.8	146.5	121.8
22.5°	1016.4	991.1	903.5	681.0	491.4	359.3	245.0	171.8	123.2	98.6	86.2
25°	1111.5	1075.9	980.1	719.4	464.1	317.6	193.0	119.8	91.7	78.7	71.2
27.5°	1187.5	1181.4	1052.0	742.6	443.5	283.4	152.6	95.1	76.0	66.4	61.6
30°	1283.3	1249.8	1139.6	789.2	420.2	244.3	127.3	85.6	69.8	59.5	56.1
32.5°	1340.8	1325.1	1185.5	815.2	394.2	212.2	109.5	75.3	63.7	56.1	52.7
35°	1424.3	1392.8	1251.2	831.6	380.6	193.7	98.6	68.4	53.4	45.9	41.8
37.5°	1517.4	1505.8	1329.9	830.9	360.7	182.7	91.0	63.7	50.6	42.4	37.6
40°	1612.6	1565.3	1377.8	850.1	350.4	174.5	85.6	60.9	47.9	40.4	34.2
42.5°	1683.7	1629.7	1433.2	843.2	338.1	160.2	83.5	56.8	45.9	37.0	31.5
45°	1702.9	1683.7	1483.2	841.2	329.2	148.5	80.1	56.1	44.5	34.9	29.4
47.5°	1739.9	1726.9	1544.8	844.6	322.4	139.6	71.9	57.5	42.4	32.9	28.1
50°	1756.3	1733.0	1594.8	852.8	306.6	128.7	64.3	60.2	41.8	32.2	26.7
52.5°	1824.0	1803.5	1663.2	876.1	293.6	114.3	56.8	57.5	43.1	30.1	25.3
55°	1890.4	1867.2	1768.6	929.5	275.1	102.7	48.6	50.6	41.1	27.4	22.6
57.5°	1981.5	1943.1	1839.1	951.4	258.7	86.9	43.1	41.8	38.3	24.6	19.8
60°	1995.2	2010.9	1828.8	937.7	241.6	76.7	37.6	32.2	41.1	21.9	17.1
62.5°	2041.0	1975.3	1780.9	906.2	229.3	70.5	33.5	26.7	35.6	19.2	14.4
65°	1952.7	1904.1	1668.7	804.9	213.5	71.2	29.4	21.9	22.6	15.7	11.6
67.5°	1823.4	1785.0	1482.5	694.7	197.8	69.8	26.0	19.2	17.1	13.7	10.3
70°	1600.2	1517.4	1259.4	564.0	174.5	65.0	21.9	17.1	14.4	11.0	7.5
72.5°	1164.2	1130.7	903.5	436.0	156.7	58.9	20.5	14.4	12.3	8.2	6.2
75°	783.7	728.3	570.1	286.1	125.9	51.3	17.1	13.0	9.6	6.2	4.8
77.5°	414.1	391.5	323.1	136.2	69.8	24.0	9.6	7.5	5.5	4.8	2.7
80°	179.3	159.5	139.6	55.4	24.6	11.0	6.2	4.1	3.4	2.7	1.4
82.5°	91.7	87.6	72.6	24.0	14.4	8.2	3.4	2.7	2.1	1.4	0.7
85°	45.2	46.5	38.3	7.5	8.2	4.8	0.7	0.7	0.0	0.0	0.0
87.5°	3.4	3.4	2.7	1.4	2.1	0.7	0.0	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5
2.5°	849.4	859.0	842.6	852.8	848.0	850.1	852.1	846.7	848.0	867.2	867.9
5°	680.3	698.8	692.0	701.6	718.0	709.8	717.3	715.9	717.3	720.0	732.4
7.5°	485.3	479.8	492.8	518.1	547.6	565.4	556.5	551.7	548.9	542.1	550.3
10°	366.2	363.4	360.0	367.5	386.7	406.6	417.5	399.0	388.8	375.8	371.0
12.5°	303.9	286.8	277.2	265.6	271.0	288.8	289.5	271.7	255.3	248.5	256.0
15°	239.6	227.9	210.8	194.4	186.2	199.9	188.2	171.1	149.9	147.2	146.5
17.5°	171.1	164.3	151.9	145.1	135.5	132.1	119.8	93.8	78.7	74.6	76.0
20°	116.4	110.9	110.2	104.0	99.9	97.2	77.3	60.2	55.4	56.1	56.8
22.5°	86.2	83.5	80.1	79.4	76.0	72.6	56.8	50.6	47.2	47.2	49.3
25°	70.5	69.1	65.7	64.3	63.0	58.2	47.9	43.1	41.8	40.4	42.4
27.5°	60.2	59.5	57.5	55.4	54.1	49.3	41.8	37.6	36.3	36.3	36.3
30°	54.1	54.1	51.3	47.2	47.2	41.8	35.6	32.9	31.5	31.5	30.8
32.5°	50.6	49.3	45.9	43.1	41.1	35.6	31.5	28.7	26.7	26.7	27.4
35°	41.1	41.1	40.4	38.3	35.6	30.1	26.7	24.0	22.6	21.9	22.6
37.5°	36.3	34.2	31.5	32.2	30.8	26.0	22.6	20.5	18.5	18.5	18.5
40°	32.9	30.8	28.1	26.0	25.3	23.3	19.8	16.4	14.4	13.7	13.7
42.5°	29.4	28.1	24.0	20.5	19.8	19.8	15.1	12.3	10.3	10.3	10.3
45°	27.4	25.3	21.9	17.8	14.4	15.1	12.3	8.9	7.5	6.8	6.8
47.5°	26.0	24.0	19.2	15.1	11.0	11.0	8.9	6.2	4.8	4.1	4.1
50°	24.0	21.9	17.1	12.3	8.2	6.8	5.5	3.4	2.1	1.4	1.4
52.5°	22.6	20.5	15.1	10.3	6.8	4.8	3.4	0.7	0.0	0.0	0.0
55°	20.5	17.8	13.0	8.2	5.5	2.7	0.7	0.0	0.0	0.0	0.0
57.5°	17.8	15.7	10.3	6.2	3.4	0.7	0.0	0.0	0.0	0.0	0.0
60°	15.1	13.0	8.2	4.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12.3	11.0	6.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10.3	8.2	4.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8.9	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6.8	4.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4.8	3.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5
2.5°	870.6	891.1	910.3	915.8	930.8	972.6	972.6	992.4	1028.0	1041.0	1043.8
5°	734.4	756.3	760.4	802.9	822.7	865.1	893.2	960.3	1000.7	1026.0	1041.7
7.5°	558.5	566.0	581.8	621.5	660.5	711.8	765.2	850.8	921.9	950.7	1004.1
10°	384.0	406.6	440.8	476.4	537.3	594.1	663.2	744.0	831.6	867.2	913.1
12.5°	258.7	290.2	345.0	395.6	451.7	509.2	574.9	683.1	782.3	831.6	877.5
15°	151.3	189.6	236.8	319.0	393.6	457.9	523.6	633.1	753.6	817.2	873.4
17.5°	76.7	88.3	127.3	198.5	297.0	402.5	500.3	640.0	775.5	853.5	900.0
20°	57.5	60.9	71.9	105.4	203.3	332.6	478.4	650.2	836.4	931.5	956.9
22.5°	50.0	52.7	57.5	68.4	114.3	254.6	447.6	675.5	919.2	1008.9	1062.3
25°	42.4	45.2	49.3	56.1	73.2	173.2	410.0	702.2	993.1	1106.1	1156.0
27.5°	37.0	39.0	43.1	48.6	59.5	110.2	345.0	737.8	1106.1	1223.8	1236.8
30°	31.5	33.5	37.0	43.1	50.6	78.0	253.2	742.6	1168.3	1275.1	1311.4
32.5°	27.4	28.1	32.2	37.6	42.4	61.6	178.0	747.4	1214.2	1341.5	1349.0
35°	22.6	24.0	28.1	31.5	37.0	48.6	134.8	723.5	1273.8	1410.0	1407.9
37.5°	18.5	20.5	23.3	26.0	30.1	41.1	107.5	679.0	1348.4	1516.0	1451.7
40°	14.4	16.4	19.2	22.6	25.3	37.0	80.8	611.9	1426.4	1568.1	1499.6
42.5°	10.3	11.6	14.4	17.8	22.6	30.8	58.2	532.5	1457.2	1629.0	1557.1
45°	7.5	8.9	11.0	15.1	23.3	24.6	40.4	459.9	1490.0	1655.7	1544.1
47.5°	4.1	5.5	8.2	13.0	20.5	18.5	28.7	394.9	1527.7	1679.6	1554.4
50°	1.4	2.1	4.8	13.7	16.4	14.4	22.6	360.0	1564.6	1684.4	1574.9
52.5°	0.0	0.0	2.7	14.4	12.3	11.0	19.8	346.3	1555.1	1699.5	1561.9
55°	0.0	0.0	0.7	6.2	6.8	8.2	16.4	345.6	1622.8	1704.3	1633.1
57.5°	0.0	0.0	0.0	2.1	4.1	6.8	14.4	323.7	1665.9	1823.4	1728.9
60°	0.0	0.0	0.0	0.7	2.7	4.8	11.0	304.6	1709.7	1876.8	1831.6
62.5°	0.0	0.0	0.0	0.0	0.7	2.1	7.5	275.1	1621.5	1872.6	1930.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	217.7	1458.6	1774.8	1876.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	150.6	1277.2	1651.6	1775.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.0	1030.8	1448.3	1505.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	735.8	1149.9	1235.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	455.2	840.5	945.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	295.0	636.5	718.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	157.4	399.0	464.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.4	242.3	279.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9	147.2	167.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6	30.1
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5
2.5°	1045.1	1065.0	1072.5	1060.9	1062.3	1038.3	1034.9	1001.3	987.7	990.4
5°	1093.1	1121.8	1137.5	1124.5	1095.1	1049.3	1007.5	967.8	943.2	930.8
7.5°	1082.1	1114.3	1134.1	1146.4	1112.9	1039.0	975.3	900.7	869.2	869.9
10°	1021.9	1089.0	1129.3	1113.6	1097.9	1023.9	925.4	844.6	816.5	819.3
12.5°	973.3	1047.9	1071.8	1084.2	1052.0	993.1	926.7	834.3	802.9	783.7
15°	943.2	998.6	1000.0	1019.1	1006.1	1006.1	941.1	850.8	823.4	802.2
17.5°	943.2	955.5	954.1	961.0	982.9	1008.9	977.4	917.2	863.1	859.7
20°	964.4	926.1	917.2	919.9	938.4	1015.7	1057.5	982.2	948.0	937.0
22.5°	1013.7	929.5	875.4	865.8	922.6	1015.0	1108.8	1084.8	1025.3	1016.4
25°	1081.4	923.3	864.5	852.1	895.3	1039.7	1179.3	1184.1	1130.0	1111.5
27.5°	1145.8	950.7	863.1	860.3	917.2	1034.2	1227.9	1263.5	1202.6	1187.5
30°	1167.7	978.1	888.4	852.1	925.4	1054.0	1226.5	1319.6	1279.9	1283.3
32.5°	1193.7	1005.5	891.1	876.8	960.3	1086.2	1265.5	1410.0	1381.2	1340.8
35°	1232.0	1042.4	917.2	904.2	984.9	1115.0	1273.8	1476.4	1471.6	1424.3
37.5°	1264.9	1078.7	971.2	973.3	1060.2	1161.5	1310.0	1557.8	1549.6	1517.4
40°	1288.1	1129.3	1055.4	1060.9	1125.9	1213.5	1374.4	1598.9	1659.8	1612.6
42.5°	1291.5	1174.5	1151.9	1195.7	1256.6	1294.3	1400.4	1626.9	1714.5	1683.7
45°	1304.6	1246.4	1309.3	1341.5	1391.5	1365.5	1399.0	1674.8	1718.6	1702.9
47.5°	1355.2	1377.1	1456.5	1554.4	1572.2	1486.6	1431.9	1682.4	1741.9	1739.9
50°	1407.9	1517.4	1629.0	1694.0	1716.6	1570.1	1462.7	1676.2	1772.7	1756.3
52.5°	1466.8	1639.2	1800.1	1880.2	1867.9	1662.5	1497.6	1726.2	1829.5	1824.0
55°	1503.7	1694.0	1910.3	2021.9	2012.3	1765.9	1608.4	1798.0	1904.1	1890.4
57.5°	1601.6	1783.0	2019.8	2071.8	2097.1	1901.4	1685.8	1915.8	1966.4	1981.5
60°	1682.4	1841.2	2048.5	2123.8	2132.7	1982.2	1821.3	2036.9	2045.8	1995.2
62.5°	1800.8	1863.7	1987.6	2055.4	2101.2	2028.0	1943.1	2101.9	2044.4	2041.0
65°	1887.7	1789.8	1874.0	1911.7	1941.1	1958.2	2065.7	2146.4	2019.1	1952.7
67.5°	1839.1	1650.2	1634.5	1636.5	1645.4	1748.8	2024.6	2037.6	1878.1	1823.4
70°	1618.7	1353.8	1332.6	1349.0	1304.6	1429.1	1858.3	1852.1	1657.0	1600.2
72.5°	1309.3	987.0	950.7	973.3	983.5	1115.6	1563.3	1404.5	1208.7	1164.2
75°	1040.4	723.5	610.5	665.3	700.2	812.4	1221.1	954.1	843.9	783.7
77.5°	817.2	547.6	475.0	453.1	485.3	590.7	888.4	501.0	442.2	414.1
80°	518.1	402.5	436.7	405.2	418.9	421.6	462.7	227.9	181.4	179.3
82.5°	312.1	275.1	327.2	180.0	327.8	292.9	192.3	103.4	91.7	91.7
85°	221.1	170.4	112.9	73.2	145.8	160.8	74.6	53.4	46.5	45.2
87.5°	110.9	52.7	25.3	16.4	18.5	30.1	8.9	4.1	4.1	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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