

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: P677427

Luminaire Tested: **CCW-SA-1B-740-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677427  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-740-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) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2481.9 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

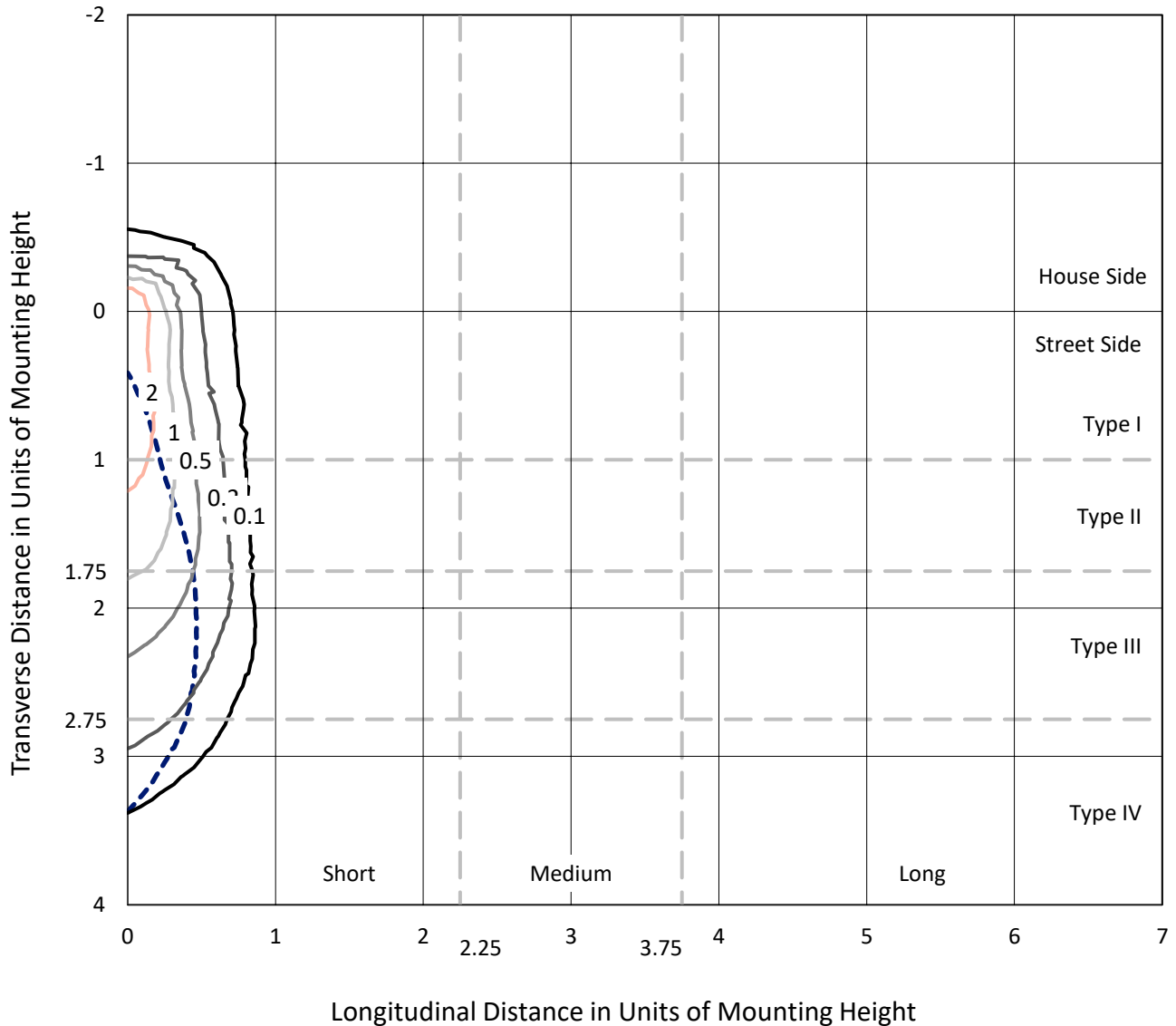
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

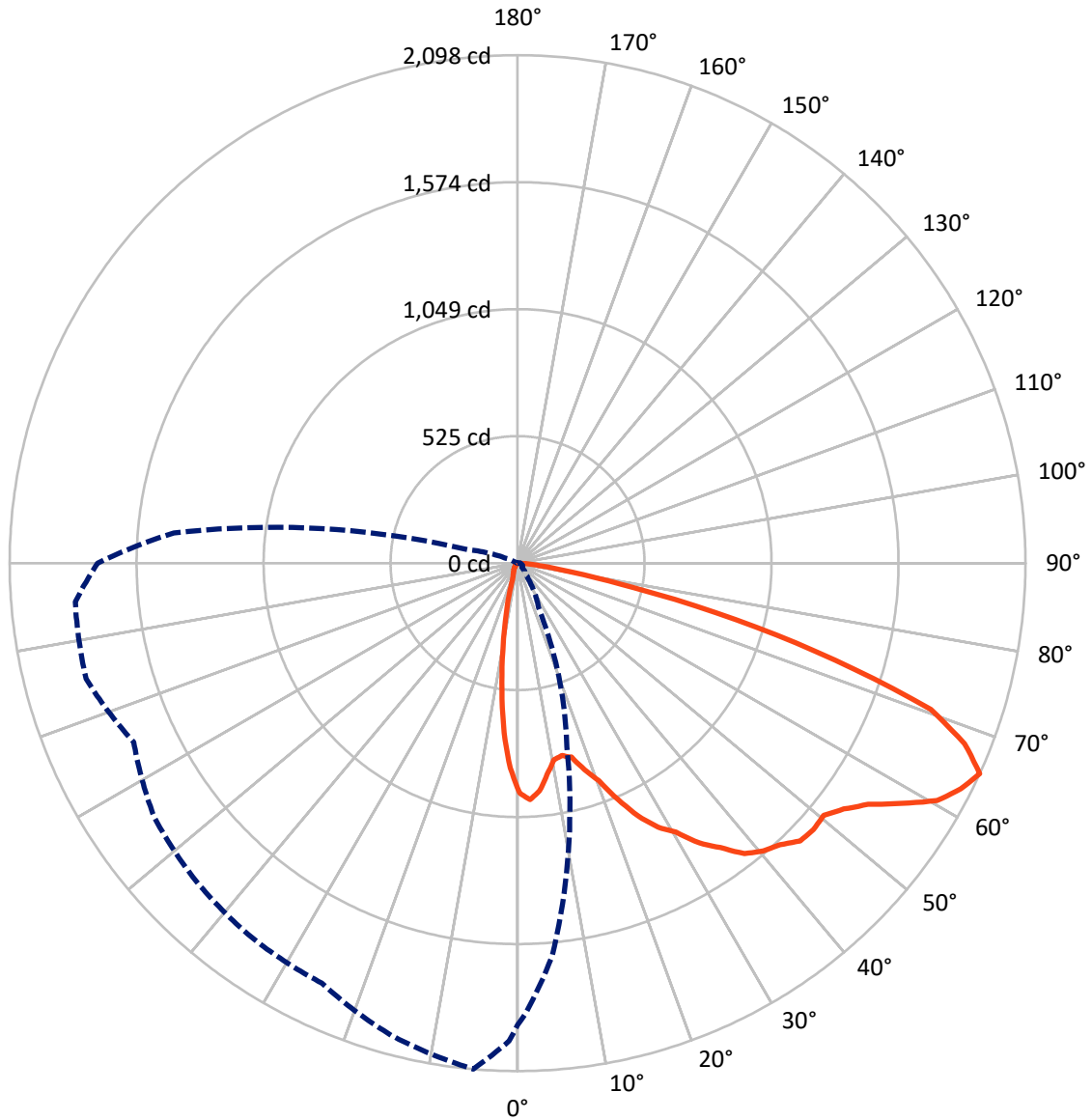
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 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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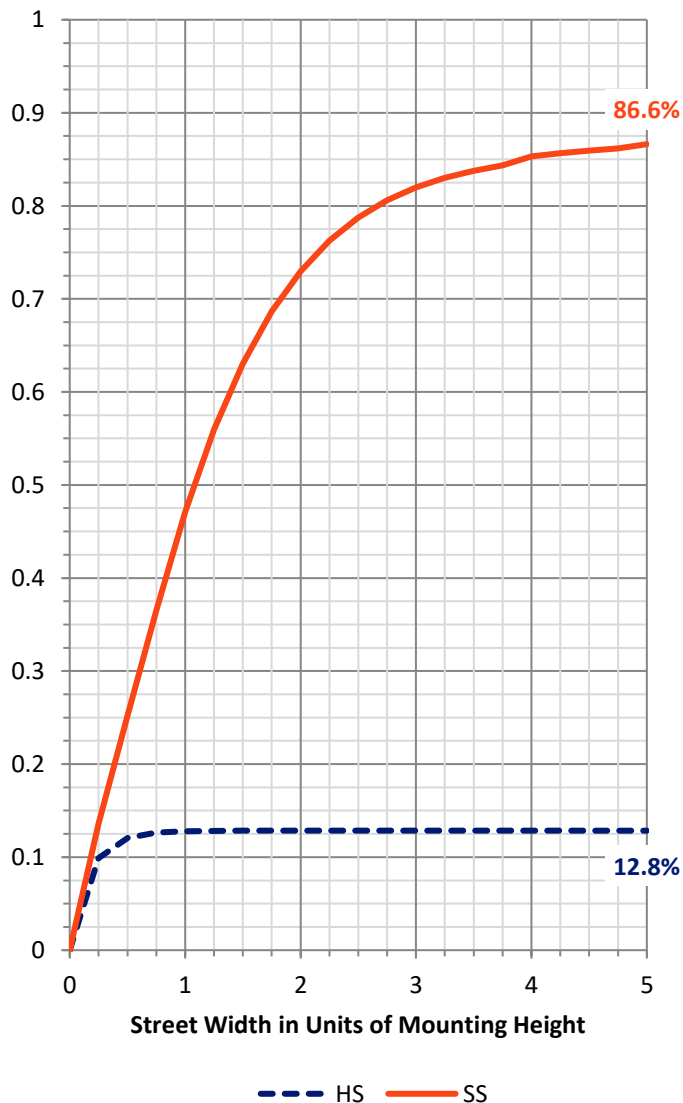
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	322.2	0.0	322.2
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	2159.6	0.0	2159.6
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	2481.9	0.0	2481.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	2.9
10°-20°	139.2	5.6
20°-30°	193.8	7.8
30°-40°	275.4	11.1
40°-50°	381.9	15.4
50°-60°	520.4	21.0
60°-70°	572.1	23.1
70°-80°	281.2	11.3
80°-90°	45.9	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°	2481.9	100.0
0°-180°	2481.9	100.0



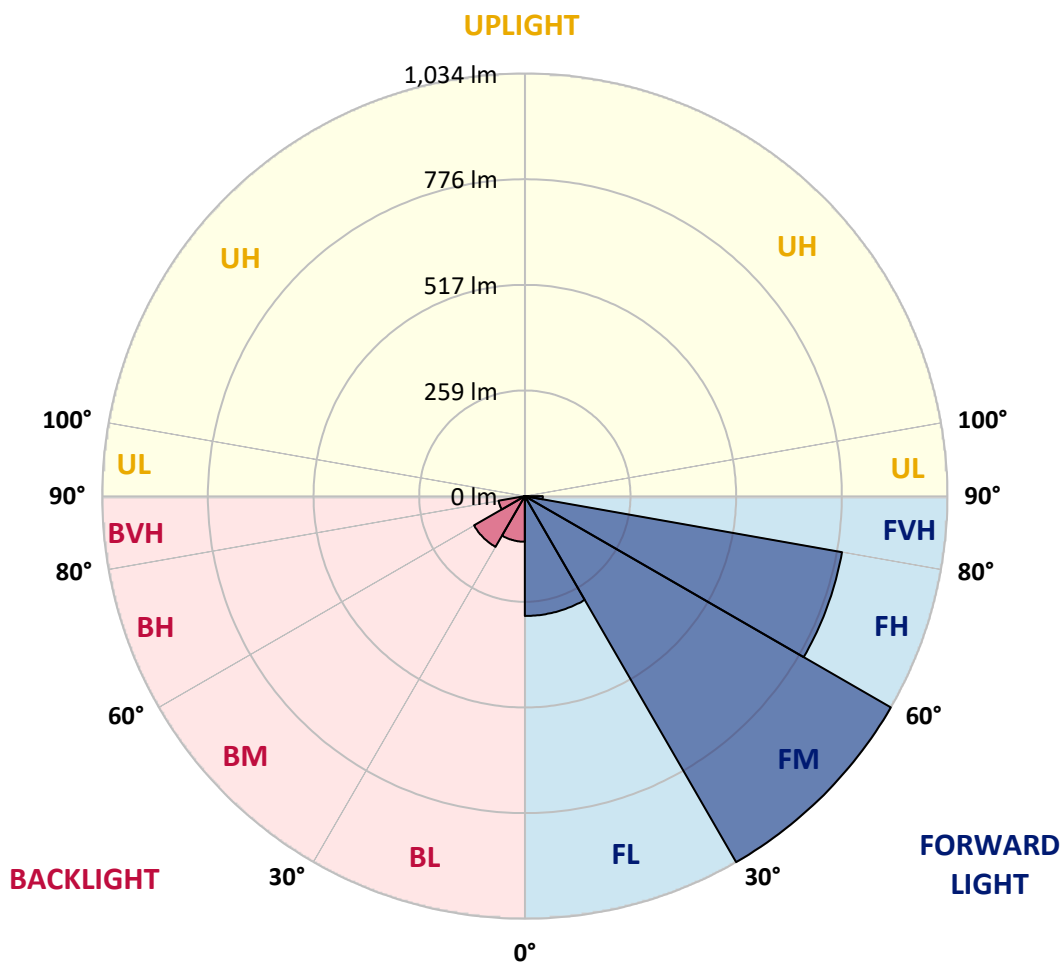
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	293.3	11.8			
FM (30°-60°)	1034.3	41.7			
FH (60°-80°)	788.2	31.8			G1/1800
FVH (80°-90°)	43.8	1.8			G1/100
BL (0°-30°)	111.6	4.5	B1/500		
BM (30°-60°)	143.5	5.8	B0/220		
BH (60°-80°)	65.1	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°	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8
2.5°	968.2	979.6	968.9	931.4	924.7	906.7	879.2	877.2	848.4	851.8	836.4
5°	910.0	921.4	898.6	849.1	802.9	766.1	744.1	704.6	695.9	676.5	676.5
7.5°	850.5	849.8	811.0	769.5	700.6	633.0	602.2	545.3	511.9	493.8	476.4
10°	800.9	790.2	766.1	680.5	605.6	535.3	497.2	459.7	424.9	394.8	364.7
12.5°	766.1	772.8	734.7	641.7	544.7	495.8	455.0	415.5	374.0	339.9	306.5
15°	784.2	773.5	728.7	633.0	534.6	467.7	413.5	365.3	319.2	274.3	248.9
17.5°	840.4	813.0	760.1	633.0	513.9	424.9	359.3	302.4	252.9	212.8	181.3
20°	916.0	884.6	827.7	656.4	498.5	393.4	303.8	232.2	180.7	143.2	119.1
22.5°	993.6	968.9	883.2	665.8	480.4	351.3	239.5	167.9	120.4	96.4	84.3
25°	1086.7	1051.9	958.2	703.2	453.7	310.5	188.7	117.1	89.7	76.9	69.6
27.5°	1160.9	1154.9	1028.4	726.0	433.6	277.0	149.2	93.0	74.3	64.9	60.2
30°	1254.6	1221.8	1114.1	771.5	410.8	238.9	124.5	83.6	68.3	58.2	54.9
32.5°	1310.8	1295.4	1158.9	796.9	385.4	207.4	107.1	73.6	62.2	54.9	51.5
35°	1392.4	1361.7	1223.2	813.0	372.0	189.4	96.4	66.9	52.2	44.8	40.8
37.5°	1483.4	1472.1	1300.1	812.3	352.6	178.7	89.0	62.2	49.5	41.5	36.8
40°	1576.5	1530.3	1346.9	831.1	342.6	170.6	83.6	59.6	46.8	39.5	33.5
42.5°	1646.0	1593.2	1401.1	824.4	330.5	156.6	81.6	55.5	44.8	36.1	30.8
45°	1664.8	1646.0	1450.0	822.4	321.8	145.2	78.3	54.9	43.5	34.1	28.8
47.5°	1700.9	1688.2	1510.2	825.7	315.2	136.5	70.3	56.2	41.5	32.1	27.4
50°	1717.0	1694.2	1559.1	833.7	299.8	125.8	62.9	58.9	40.8	31.4	26.1
52.5°	1783.2	1763.1	1626.0	856.5	287.1	111.7	55.5	56.2	42.2	29.4	24.8
55°	1848.1	1825.4	1729.0	908.7	269.0	100.4	47.5	49.5	40.1	26.8	22.1
57.5°	1937.1	1899.6	1797.9	930.1	252.9	85.0	42.2	40.8	37.5	24.1	19.4
60°	1950.5	1965.9	1787.9	916.7	236.2	74.9	36.8	31.4	40.1	21.4	16.7
62.5°	1995.3	1931.1	1741.1	885.9	224.2	68.9	32.8	26.1	34.8	18.7	14.1
65°	1909.0	1861.5	1631.3	786.9	208.8	69.6	28.8	21.4	22.1	15.4	11.4
67.5°	1782.5	1745.1	1449.3	679.2	193.4	68.3	25.4	18.7	16.7	13.4	10.0
70°	1564.4	1483.4	1231.2	551.4	170.6	63.6	21.4	16.7	14.1	10.7	7.4
72.5°	1138.2	1105.4	883.2	426.2	153.2	57.5	20.1	14.1	12.0	8.0	6.0
75°	766.1	711.9	557.4	279.7	123.1	50.2	16.7	12.7	9.4	6.0	4.7
77.5°	404.8	382.7	315.8	133.2	68.3	23.4	9.4	7.4	5.4	4.7	2.7
80°	175.3	155.9	136.5	54.2	24.1	10.7	6.0	4.0	3.3	2.7	1.3
82.5°	89.7	85.6	70.9	23.4	14.1	8.0	3.3	2.7	2.0	1.3	0.7
85°	44.2	45.5	37.5	7.4	8.0	4.7	0.7	0.7	0.0	0.0	0.0
87.5°	3.3	3.3	2.7	1.3	2.0	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°	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8
2.5°	830.4	839.7	823.7	833.7	829.0	831.1	833.1	827.7	829.0	847.8	848.4
5°	665.1	683.2	676.5	685.9	701.9	693.9	701.2	699.9	701.2	703.9	716.0
7.5°	474.4	469.1	481.8	506.5	535.3	552.7	544.0	539.3	536.6	529.9	538.0
10°	358.0	355.3	352.0	359.3	378.1	397.5	408.2	390.1	380.1	367.3	362.7
12.5°	297.1	280.4	271.0	259.6	265.0	282.4	283.0	265.6	249.6	242.9	250.3
15°	234.2	222.8	206.1	190.0	182.0	195.4	184.0	167.3	146.5	143.9	143.2
17.5°	167.3	160.6	148.5	141.9	132.5	129.1	117.1	91.7	76.9	72.9	74.3
20°	113.8	108.4	107.7	101.7	97.7	95.0	75.6	58.9	54.2	54.9	55.5
22.5°	84.3	81.6	78.3	77.6	74.3	70.9	55.5	49.5	46.2	46.2	48.2
25°	68.9	67.6	64.2	62.9	61.6	56.9	46.8	42.2	40.8	39.5	41.5
27.5°	58.9	58.2	56.2	54.2	52.9	48.2	40.8	36.8	35.5	35.5	35.5
30°	52.9	52.9	50.2	46.2	46.2	40.8	34.8	32.1	30.8	30.8	30.1
32.5°	49.5	48.2	44.8	42.2	40.1	34.8	30.8	28.1	26.1	26.1	26.8
35°	40.1	40.1	39.5	37.5	34.8	29.4	26.1	23.4	22.1	21.4	22.1
37.5°	35.5	33.5	30.8	31.4	30.1	25.4	22.1	20.1	18.1	18.1	18.1
40°	32.1	30.1	27.4	25.4	24.8	22.8	19.4	16.1	14.1	13.4	13.4
42.5°	28.8	27.4	23.4	20.1	19.4	19.4	14.7	12.0	10.0	10.0	10.0
45°	26.8	24.8	21.4	17.4	14.1	14.7	12.0	8.7	7.4	6.7	6.7
47.5°	25.4	23.4	18.7	14.7	10.7	10.7	8.7	6.0	4.7	4.0	4.0
50°	23.4	21.4	16.7	12.0	8.0	6.7	5.4	3.3	2.0	1.3	1.3
52.5°	22.1	20.1	14.7	10.0	6.7	4.7	3.3	0.7	0.0	0.0	0.0
55°	20.1	17.4	12.7	8.0	5.4	2.7	0.7	0.0	0.0	0.0	0.0
57.5°	17.4	15.4	10.0	6.0	3.3	0.7	0.0	0.0	0.0	0.0	0.0
60°	14.7	12.7	8.0	4.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12.0	10.7	6.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10.0	8.0	4.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8.7	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6.7	4.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4.7	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.0	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°	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8
2.5°	851.1	871.2	889.9	895.3	910.0	950.8	950.8	970.2	1005.0	1017.7	1020.4
5°	718.0	739.4	743.4	784.9	804.3	845.8	873.2	938.8	978.3	1003.0	1018.4
7.5°	546.0	553.4	568.8	607.6	645.7	695.9	748.1	831.7	901.3	929.4	981.6
10°	375.4	397.5	430.9	465.7	525.3	580.8	648.4	727.3	813.0	847.8	892.6
12.5°	252.9	283.7	337.2	386.8	441.6	497.8	562.1	667.8	764.8	813.0	857.8
15°	147.9	185.3	231.5	311.8	384.7	447.6	511.9	618.9	736.7	798.9	853.8
17.5°	74.9	86.3	124.5	194.0	290.4	393.4	489.1	625.6	758.1	834.4	879.9
20°	56.2	59.6	70.3	103.0	198.7	325.2	467.7	635.7	817.7	910.7	935.4
22.5°	48.8	51.5	56.2	66.9	111.7	248.9	437.6	660.4	898.6	986.3	1038.5
25°	41.5	44.2	48.2	54.9	71.6	169.3	400.8	686.5	970.9	1081.3	1130.1
27.5°	36.1	38.1	42.2	47.5	58.2	107.7	337.2	721.3	1081.3	1196.4	1209.1
30°	30.8	32.8	36.1	42.2	49.5	76.3	247.6	726.0	1142.2	1246.6	1282.0
32.5°	26.8	27.4	31.4	36.8	41.5	60.2	174.0	730.7	1187.0	1311.5	1318.8
35°	22.1	23.4	27.4	30.8	36.1	47.5	131.8	707.3	1245.2	1378.4	1376.4
37.5°	18.1	20.1	22.8	25.4	29.4	40.1	105.1	663.8	1318.2	1482.1	1419.2
40°	14.1	16.1	18.7	22.1	24.8	36.1	79.0	598.2	1394.5	1533.0	1466.0
42.5°	10.0	11.4	14.1	17.4	22.1	30.1	56.9	520.6	1424.6	1592.5	1522.3
45°	7.4	8.7	10.7	14.7	22.8	24.1	39.5	449.7	1456.7	1618.6	1509.5
47.5°	4.0	5.4	8.0	12.7	20.1	18.1	28.1	386.1	1493.5	1642.0	1519.6
50°	1.3	2.0	4.7	13.4	16.1	14.1	22.1	352.0	1529.6	1646.7	1539.7
52.5°	0.0	0.0	2.7	14.1	12.0	10.7	19.4	338.6	1520.2	1661.4	1526.9
55°	0.0	0.0	0.7	6.0	6.7	8.0	16.1	337.9	1586.5	1666.1	1596.5
57.5°	0.0	0.0	0.0	2.0	4.0	6.7	14.1	316.5	1628.6	1782.5	1690.2
60°	0.0	0.0	0.0	0.7	2.7	4.7	10.7	297.8	1671.5	1834.7	1790.6
62.5°	0.0	0.0	0.0	0.0	0.7	2.0	7.4	269.0	1585.2	1830.7	1887.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	4.7	212.8	1425.9	1735.0	1834.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	147.2	1248.6	1614.6	1735.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.0	1007.7	1415.9	1472.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.1	719.3	1124.1	1207.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4	445.0	821.7	924.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	288.4	622.3	701.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	153.9	390.1	453.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.9	236.9	273.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	143.9	163.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1	29.4
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8	948.8
2.5°	1021.8	1041.2	1048.5	1037.1	1038.5	1015.1	1011.7	978.9	965.5	968.2
5°	1068.6	1096.7	1112.1	1099.4	1070.6	1025.8	984.9	946.1	922.1	910.0
7.5°	1057.9	1089.3	1108.7	1120.8	1088.0	1015.7	953.5	880.6	849.8	850.5
10°	999.0	1064.6	1104.1	1088.7	1073.3	1001.0	904.7	825.7	798.3	800.9
12.5°	951.5	1024.4	1047.8	1059.9	1028.4	970.9	906.0	815.7	784.9	766.1
15°	922.1	976.3	977.6	996.3	983.6	983.6	920.0	831.7	805.0	784.2
17.5°	922.1	934.1	932.8	939.4	960.9	986.3	955.5	896.6	843.8	840.4
20°	942.8	905.3	896.6	899.3	917.4	993.0	1033.8	960.2	926.7	916.0
22.5°	991.0	908.7	855.8	846.4	902.0	992.3	1084.0	1060.6	1002.3	993.6
25°	1057.2	902.6	845.1	833.1	875.2	1016.4	1152.9	1157.6	1104.7	1086.7
27.5°	1120.1	929.4	843.8	841.1	896.6	1011.0	1200.4	1235.2	1175.6	1160.9
30°	1141.5	956.2	868.5	833.1	904.7	1030.4	1199.1	1290.1	1251.3	1254.6
32.5°	1167.0	982.9	871.2	857.1	938.8	1061.9	1237.2	1378.4	1350.3	1310.8
35°	1204.4	1019.1	896.6	883.9	962.9	1090.0	1245.2	1443.3	1438.6	1392.4
37.5°	1236.5	1054.5	949.5	951.5	1036.5	1135.5	1280.7	1522.9	1514.9	1483.4
40°	1259.3	1104.1	1031.8	1037.1	1100.7	1186.4	1343.6	1563.1	1622.6	1576.5
42.5°	1262.6	1148.2	1126.1	1169.0	1228.5	1265.3	1369.0	1590.5	1676.2	1646.0
45°	1275.3	1218.5	1280.0	1311.5	1360.3	1334.9	1367.7	1637.3	1680.2	1664.8
47.5°	1324.9	1346.3	1423.9	1519.6	1537.0	1453.3	1399.8	1644.7	1702.9	1700.9
50°	1376.4	1483.4	1592.5	1656.1	1678.2	1535.0	1429.9	1638.7	1733.0	1717.0
52.5°	1433.9	1602.6	1759.8	1838.1	1826.0	1625.3	1464.0	1687.5	1788.6	1783.2
55°	1470.1	1656.1	1867.5	1976.6	1967.2	1726.3	1572.4	1757.8	1861.5	1848.1
57.5°	1565.7	1743.1	1974.6	2025.4	2050.2	1858.8	1648.1	1872.9	1922.4	1937.1
60°	1644.7	1799.9	2002.7	2076.3	2085.0	1937.8	1780.5	1991.3	2000.0	1950.5
62.5°	1760.5	1822.0	1943.1	2009.4	2054.2	1982.6	1899.6	2054.9	1998.7	1995.3
65°	1845.4	1749.8	1832.1	1868.9	1897.6	1914.4	2019.4	2098.4	1973.9	1909.0
67.5°	1797.9	1613.3	1597.9	1599.9	1608.6	1709.6	1979.3	1992.0	1836.1	1782.5
70°	1582.5	1323.5	1302.8	1318.8	1275.3	1397.1	1816.7	1810.6	1619.9	1564.4
72.5°	1280.0	964.9	929.4	951.5	961.5	1090.7	1528.3	1373.0	1181.7	1138.2
75°	1017.1	707.3	596.9	650.4	684.5	794.2	1193.7	932.8	825.0	766.1
77.5°	798.9	535.3	464.4	443.0	474.4	577.5	868.5	489.8	432.3	404.8
80°	506.5	393.4	426.9	396.1	409.5	412.2	452.3	222.8	177.3	175.3
82.5°	305.1	269.0	319.8	176.0	320.5	286.4	188.0	101.0	89.7	89.7
85°	216.1	166.6	110.4	71.6	142.5	157.2	72.9	52.2	45.5	44.2
87.5°	108.4	51.5	24.8	16.1	18.1	29.4	8.7	4.0	4.0	3.3
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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