

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: P677426

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677426  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-740-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SLR distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

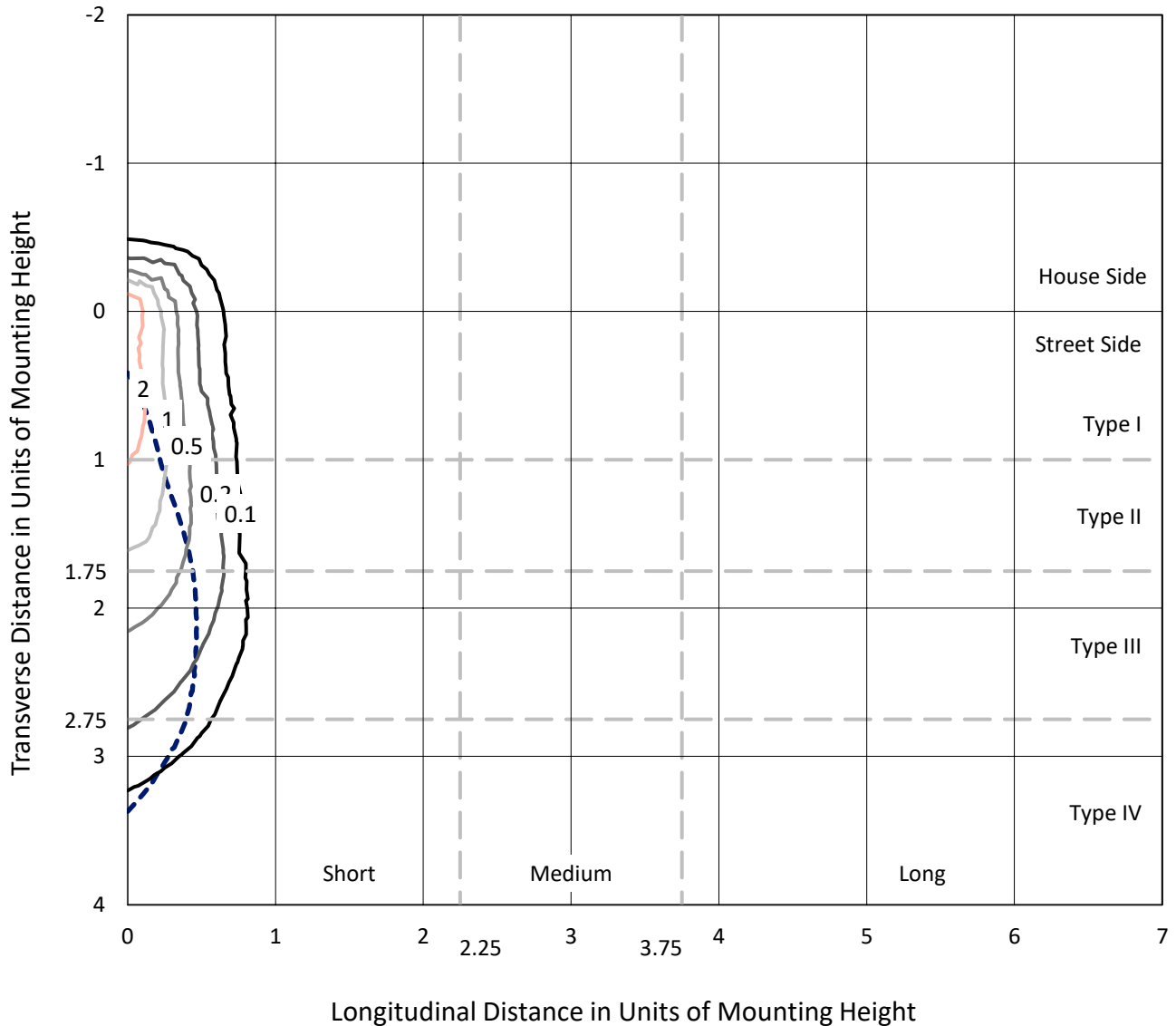
Lumens per Lamp: N/A  
Luminaire Lumens: 1966.1 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 18  
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

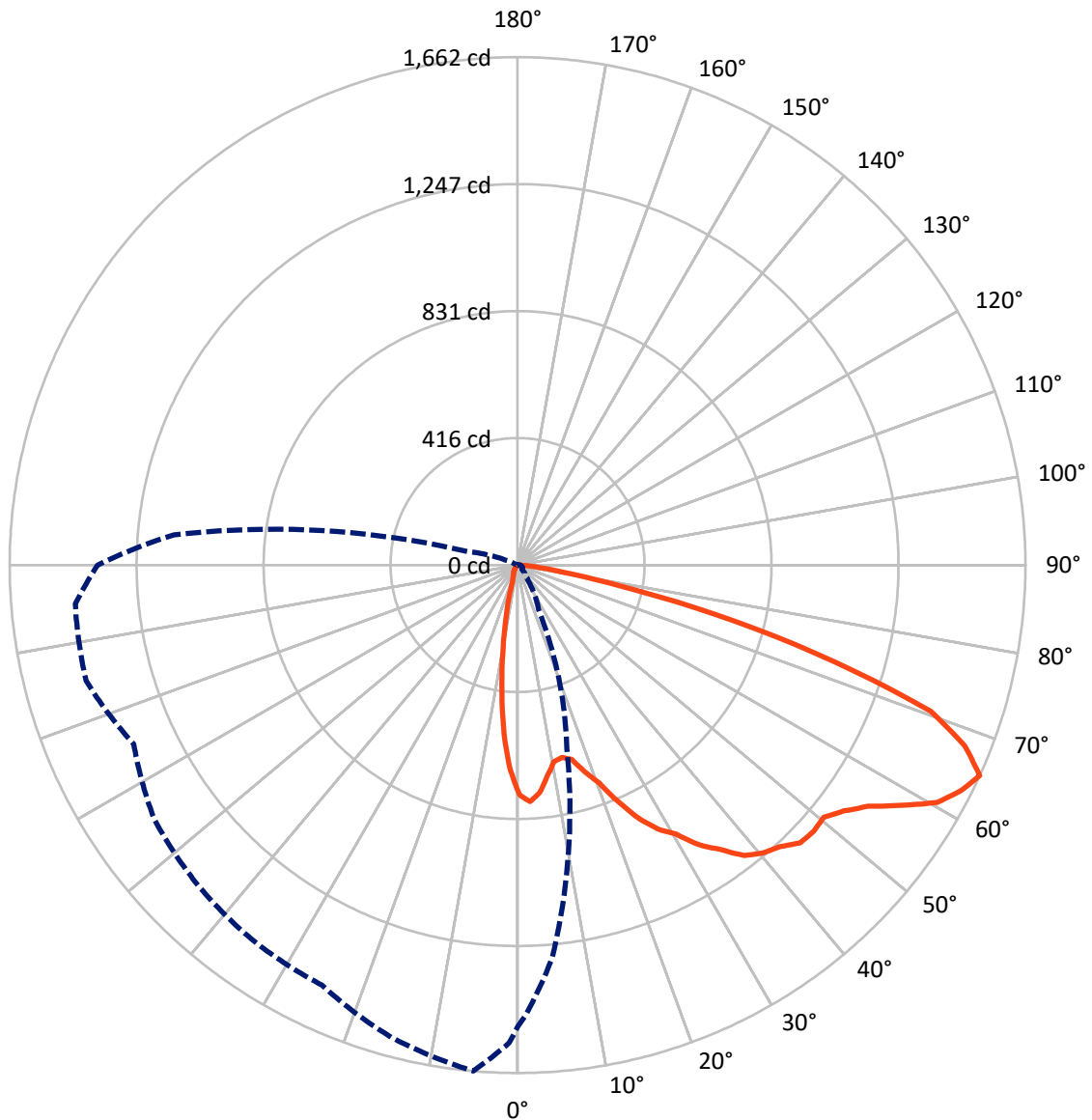
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc  
 Type 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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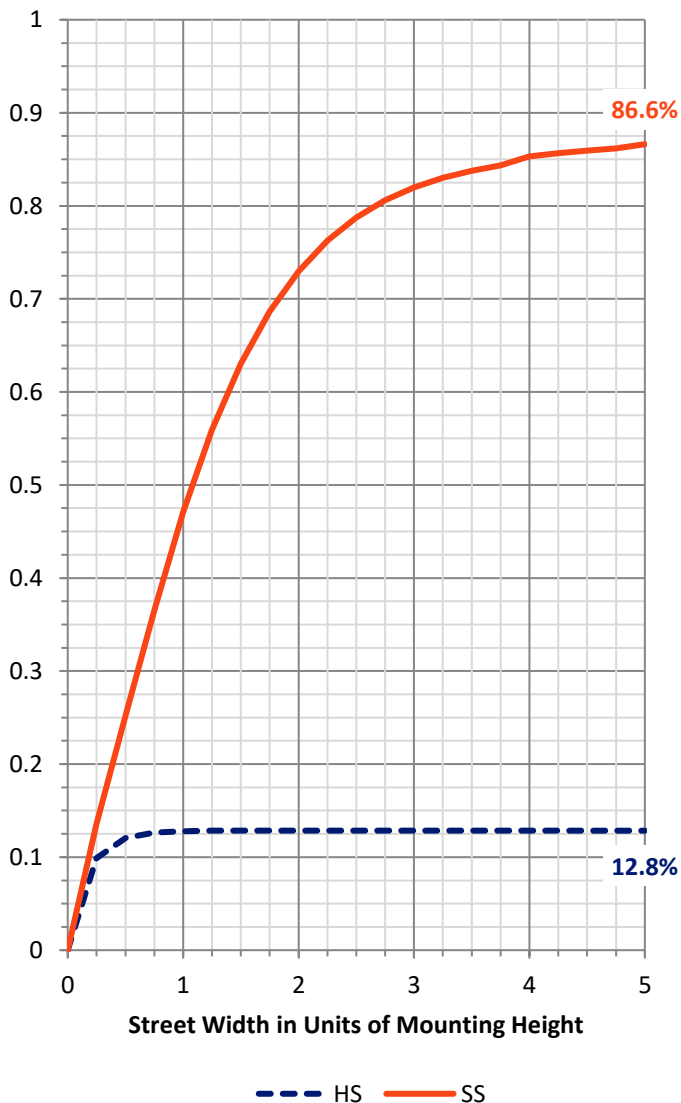
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	255.3	0.0	255.3
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	1710.8	0.0	1710.8
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	1966.1	0.0	1966.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	2.9
10°-20°	110.2	5.6
20°-30°	153.5	7.8
30°-40°	218.2	11.1
40°-50°	302.5	15.4
50°-60°	412.2	21.0
60°-70°	453.2	23.1
70°-80°	222.8	11.3
80°-90°	36.4	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°	1966.1	100.0
0°-180°	1966.1	100.0



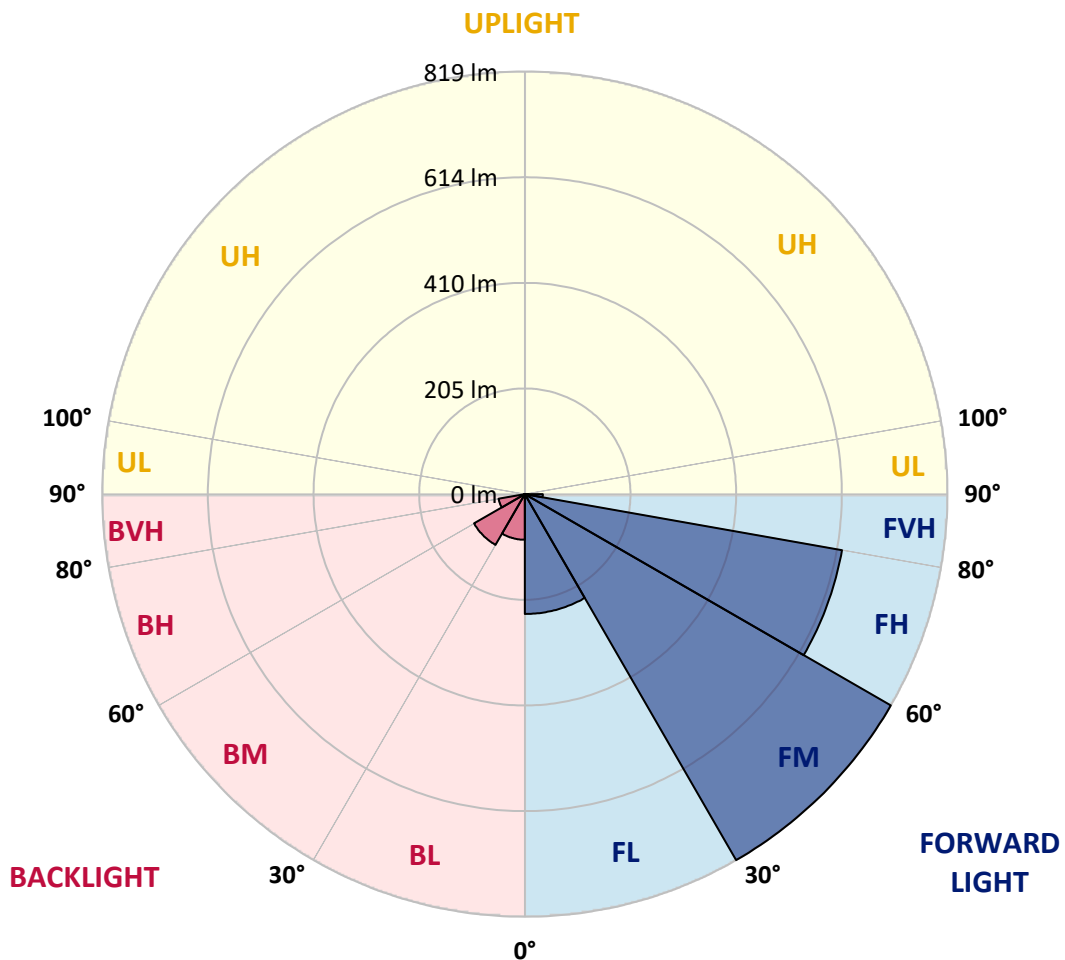
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	232.3	11.8			
FM (30°-60°)	819.3	41.7			
FH (60°-80°)	624.4	31.8			G0/660
FVH (80°-90°)	34.7	1.8			G1/100
BL (0°-30°)	88.4	4.5	B0/110		
BM (30°-60°)	113.7	5.8	B0/220		
BH (60°-80°)	51.6	2.6	B0/110		G0/110
BVH (80°-90°)	1.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6
2.5°	767.0	776.0	767.5	737.8	732.5	718.2	696.5	694.9	672.1	674.8	662.6
5°	720.9	729.9	711.9	672.6	636.1	606.9	589.4	558.1	551.3	535.9	535.9
7.5°	673.7	673.2	642.4	609.6	555.0	501.4	477.0	432.0	405.5	391.2	377.4
10°	634.5	626.0	606.9	539.1	479.7	424.0	393.8	364.1	336.6	312.7	288.9
12.5°	606.9	612.2	582.0	508.3	431.5	392.8	360.4	329.2	296.3	269.3	242.8
15°	621.2	612.7	577.2	501.4	423.5	370.5	327.6	289.4	252.8	217.3	197.2
17.5°	665.7	644.0	602.1	501.4	407.1	336.6	284.6	239.6	200.4	168.6	143.6
20°	725.6	700.7	655.7	520.0	394.9	311.7	240.6	183.9	143.1	113.4	94.3
22.5°	787.1	767.5	699.7	527.4	380.6	278.3	189.8	133.0	95.4	76.3	66.8
25°	860.8	833.2	759.0	557.1	359.4	245.9	149.5	92.8	71.0	61.0	55.1
27.5°	919.6	914.9	814.7	575.1	343.5	219.4	118.2	73.7	58.8	51.4	47.7
30°	993.9	967.9	882.5	611.2	325.5	189.2	98.6	66.3	54.1	46.1	43.5
32.5°	1038.4	1026.2	918.1	631.3	305.3	164.3	84.8	58.3	49.3	43.5	40.8
35°	1103.0	1078.7	968.9	644.0	294.7	150.0	76.3	53.0	41.3	35.5	32.3
37.5°	1175.1	1166.1	1029.9	643.5	279.3	141.5	70.5	49.3	39.2	32.9	29.2
40°	1248.8	1212.2	1067.0	658.3	271.4	135.2	66.3	47.2	37.1	31.3	26.5
42.5°	1303.9	1262.1	1109.9	653.0	261.8	124.0	64.7	44.0	35.5	28.6	24.4
45°	1318.8	1303.9	1148.6	651.4	255.0	115.0	62.0	43.5	34.5	27.0	22.8
47.5°	1347.4	1337.3	1196.3	654.1	249.7	108.1	55.7	44.5	32.9	25.4	21.7
50°	1360.1	1342.1	1235.0	660.4	237.5	99.7	49.8	46.6	32.3	24.9	20.7
52.5°	1412.6	1396.7	1288.0	678.5	227.4	88.5	44.0	44.5	33.4	23.3	19.6
55°	1464.0	1446.0	1369.7	719.8	213.1	79.5	37.6	39.2	31.8	21.2	17.5
57.5°	1534.5	1504.8	1424.3	736.8	200.4	67.3	33.4	32.3	29.7	19.1	15.4
60°	1545.1	1557.3	1416.3	726.2	187.1	59.4	29.2	24.9	31.8	17.0	13.3
62.5°	1580.6	1529.7	1379.2	701.8	177.6	54.6	26.0	20.7	27.6	14.8	11.1
65°	1512.2	1474.6	1292.3	623.3	165.4	55.1	22.8	17.0	17.5	12.2	9.0
67.5°	1412.1	1382.4	1148.1	538.0	153.2	54.1	20.1	14.8	13.3	10.6	8.0
70°	1239.3	1175.1	975.3	436.8	135.2	50.4	17.0	13.3	11.1	8.5	5.8
72.5°	901.6	875.6	699.7	337.6	121.4	45.6	15.9	11.1	9.5	6.4	4.8
75°	606.9	564.0	441.5	221.6	97.5	39.8	13.3	10.1	7.4	4.8	3.7
77.5°	320.7	303.2	250.2	105.5	54.1	18.6	7.4	5.8	4.2	3.7	2.1
80°	138.9	123.5	108.1	42.9	19.1	8.5	4.8	3.2	2.7	2.1	1.1
82.5°	71.0	67.8	56.2	18.6	11.1	6.4	2.7	2.1	1.6	1.1	0.5
85°	35.0	36.0	29.7	5.8	6.4	3.7	0.5	0.5	0.0	0.0	0.0
87.5°	2.7	2.7	2.1	1.1	1.6	0.5	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°	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6
2.5°	657.8	665.2	652.5	660.4	656.7	658.3	659.9	655.7	656.7	671.6	672.1
5°	526.9	541.2	535.9	543.3	556.0	549.7	555.5	554.4	555.5	557.6	567.2
7.5°	375.8	371.6	381.6	401.3	424.0	437.8	430.9	427.2	425.1	419.8	426.2
10°	283.6	281.5	278.8	284.6	299.5	314.9	323.3	309.0	301.1	291.0	287.3
12.5°	235.3	222.1	214.7	205.7	209.9	223.7	224.2	210.4	197.7	192.4	198.2
15°	185.5	176.5	163.3	150.5	144.2	154.8	145.8	132.5	116.1	114.0	113.4
17.5°	132.5	127.2	117.7	112.4	105.0	102.3	92.8	72.6	61.0	57.8	58.8
20°	90.1	85.9	85.3	80.6	77.4	75.3	59.9	46.6	42.9	43.5	44.0
22.5°	66.8	64.7	62.0	61.5	58.8	56.2	44.0	39.2	36.6	36.6	38.2
25°	54.6	53.5	50.9	49.8	48.8	45.1	37.1	33.4	32.3	31.3	32.9
27.5°	46.6	46.1	44.5	42.9	41.9	38.2	32.3	29.2	28.1	28.1	28.1
30°	41.9	41.9	39.8	36.6	36.6	32.3	27.6	25.4	24.4	24.4	23.9
32.5°	39.2	38.2	35.5	33.4	31.8	27.6	24.4	22.3	20.7	20.7	21.2
35°	31.8	31.8	31.3	29.7	27.6	23.3	20.7	18.6	17.5	17.0	17.5
37.5°	28.1	26.5	24.4	24.9	23.9	20.1	17.5	15.9	14.3	14.3	14.3
40°	25.4	23.9	21.7	20.1	19.6	18.0	15.4	12.7	11.1	10.6	10.6
42.5°	22.8	21.7	18.6	15.9	15.4	15.4	11.7	9.5	8.0	8.0	8.0
45°	21.2	19.6	17.0	13.8	11.1	11.7	9.5	6.9	5.8	5.3	5.3
47.5°	20.1	18.6	14.8	11.7	8.5	8.5	6.9	4.8	3.7	3.2	3.2
50°	18.6	17.0	13.3	9.5	6.4	5.3	4.2	2.7	1.6	1.1	1.1
52.5°	17.5	15.9	11.7	8.0	5.3	3.7	2.7	0.5	0.0	0.0	0.0
55°	15.9	13.8	10.1	6.4	4.2	2.1	0.5	0.0	0.0	0.0	0.0
57.5°	13.8	12.2	8.0	4.8	2.7	0.5	0.0	0.0	0.0	0.0	0.0
60°	11.7	10.1	6.4	3.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9.5	8.5	4.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8.0	6.4	3.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6.9	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5.3	3.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3.7	2.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.5	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°	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6
2.5°	674.2	690.1	705.0	709.2	720.9	753.2	753.2	768.6	796.1	806.2	808.3
5°	568.7	585.7	588.9	621.8	637.1	670.0	691.7	743.7	774.9	794.6	806.7
7.5°	432.5	438.4	450.5	481.3	511.5	551.3	592.6	658.9	714.0	736.2	777.6
10°	297.4	314.9	341.4	368.9	416.1	460.1	513.6	576.2	644.0	671.6	707.1
12.5°	200.4	224.7	267.1	306.4	349.8	394.4	445.2	529.0	605.9	644.0	679.5
15°	117.1	146.8	183.4	247.0	304.8	354.6	405.5	490.3	583.6	632.9	676.3
17.5°	59.4	68.4	98.6	153.7	230.0	311.7	387.5	495.6	600.6	661.0	697.0
20°	44.5	47.2	55.7	81.6	157.4	257.6	370.5	503.6	647.7	721.4	741.0
22.5°	38.7	40.8	44.5	53.0	88.5	197.2	346.7	523.2	711.9	781.3	822.6
25°	32.9	35.0	38.2	43.5	56.7	134.1	317.5	543.8	769.1	856.6	895.3
27.5°	28.6	30.2	33.4	37.6	46.1	85.3	267.1	571.4	856.6	947.7	957.8
30°	24.4	26.0	28.6	33.4	39.2	60.4	196.1	575.1	904.8	987.5	1015.6
32.5°	21.2	21.7	24.9	29.2	32.9	47.7	137.8	578.8	940.3	1038.9	1044.7
35°	17.5	18.6	21.7	24.4	28.6	37.6	104.4	560.3	986.4	1091.9	1090.3
37.5°	14.3	15.9	18.0	20.1	23.3	31.8	83.2	525.8	1044.2	1174.1	1124.2
40°	11.1	12.7	14.8	17.5	19.6	28.6	62.5	473.9	1104.6	1214.4	1161.3
42.5°	8.0	9.0	11.1	13.8	17.5	23.9	45.1	412.4	1128.5	1261.5	1205.9
45°	5.8	6.9	8.5	11.7	18.0	19.1	31.3	356.2	1153.9	1282.2	1195.8
47.5°	3.2	4.2	6.4	10.1	15.9	14.3	22.3	305.8	1183.1	1300.8	1203.8
50°	1.1	1.6	3.7	10.6	12.7	11.1	17.5	278.8	1211.7	1304.5	1219.7
52.5°	0.0	0.0	2.1	11.1	9.5	8.5	15.4	268.2	1204.3	1316.1	1209.6
55°	0.0	0.0	0.5	4.8	5.3	6.4	12.7	267.7	1256.8	1319.8	1264.7
57.5°	0.0	0.0	0.0	1.6	3.2	5.3	11.1	250.7	1290.2	1412.1	1338.9
60°	0.0	0.0	0.0	0.5	2.1	3.7	8.5	235.9	1324.1	1453.4	1418.4
62.5°	0.0	0.0	0.0	0.0	0.5	1.6	5.8	213.1	1255.7	1450.2	1495.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	3.7	168.6	1129.5	1374.4	1452.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	116.6	989.1	1279.0	1375.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.5	798.3	1121.6	1166.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.2	569.8	890.5	956.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	352.5	650.9	732.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	228.5	493.0	556.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	121.9	309.0	359.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.0	187.6	216.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	114.0	129.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	23.3
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6	751.6
2.5°	809.4	824.8	830.6	821.6	822.6	804.1	801.4	775.5	764.9	767.0
5°	846.5	868.8	881.0	870.9	848.1	812.6	780.2	749.5	730.4	720.9
7.5°	838.0	862.9	878.3	887.8	861.9	804.6	755.3	697.6	673.2	673.7
10°	791.4	843.3	874.6	862.4	850.2	793.0	716.6	654.1	632.4	634.5
12.5°	753.7	811.5	830.1	839.6	814.7	769.1	717.7	646.1	621.8	606.9
15°	730.4	773.3	774.4	789.3	779.2	779.2	728.8	658.9	637.7	621.2
17.5°	730.4	740.0	738.9	744.2	761.2	781.3	756.9	710.3	668.4	665.7
20°	746.8	717.2	710.3	712.4	726.7	786.6	818.9	760.6	734.1	725.6
22.5°	785.0	719.8	677.9	670.5	714.5	786.1	858.7	840.1	794.0	787.1
25°	837.5	715.0	669.5	659.9	693.3	805.2	913.3	917.0	875.1	860.8
27.5°	887.3	736.2	668.4	666.3	710.3	800.9	950.9	978.5	931.3	919.6
30°	904.3	757.4	688.0	659.9	716.6	816.3	949.9	1021.9	991.2	993.9
32.5°	924.4	778.6	690.1	679.0	743.7	841.2	980.1	1091.9	1069.6	1038.4
35°	954.1	807.3	710.3	700.2	762.7	863.5	986.4	1143.3	1139.6	1103.0
37.5°	979.5	835.4	752.1	753.7	821.1	899.5	1014.5	1206.4	1200.0	1175.1
40°	997.6	874.6	817.3	821.6	871.9	939.8	1064.3	1238.2	1285.4	1248.8
42.5°	1000.2	909.6	892.1	926.0	973.2	1002.3	1084.5	1259.9	1327.8	1303.9
45°	1010.3	965.2	1014.0	1038.9	1077.6	1057.5	1083.4	1297.0	1331.0	1318.8
47.5°	1049.5	1066.5	1128.0	1203.8	1217.5	1151.3	1108.9	1302.9	1349.0	1347.4
50°	1090.3	1175.1	1261.5	1311.9	1329.4	1215.9	1132.7	1298.1	1372.8	1360.1
52.5°	1135.9	1269.5	1394.0	1456.1	1446.5	1287.5	1159.8	1336.8	1416.8	1412.6
55°	1164.5	1311.9	1479.4	1565.8	1558.4	1367.5	1245.6	1392.5	1474.6	1464.0
57.5°	1240.3	1380.8	1564.2	1604.5	1624.1	1472.5	1305.5	1483.6	1522.8	1534.5
60°	1302.9	1425.8	1586.5	1644.8	1651.6	1535.0	1410.5	1577.4	1584.3	1545.1
62.5°	1394.6	1443.3	1539.3	1591.8	1627.3	1570.6	1504.8	1627.8	1583.3	1580.6
65°	1461.9	1386.1	1451.3	1480.4	1503.2	1516.5	1599.7	1662.3	1563.7	1512.2
67.5°	1424.3	1278.0	1265.8	1267.4	1274.3	1354.3	1567.9	1578.0	1454.5	1412.1
70°	1253.6	1048.4	1032.0	1044.7	1010.3	1106.8	1439.1	1434.3	1283.3	1239.3
72.5°	1014.0	764.3	736.2	753.7	761.7	864.0	1210.6	1087.7	936.1	901.6
75°	805.7	560.3	472.8	515.2	542.2	629.2	945.6	738.9	653.6	606.9
77.5°	632.9	424.0	367.9	350.9	375.8	457.4	688.0	388.0	342.4	320.7
80°	401.3	311.7	338.2	313.8	324.4	326.5	358.3	176.5	140.5	138.9
82.5°	241.7	213.1	253.4	139.4	253.9	226.9	148.9	80.0	71.0	71.0
85°	171.2	132.0	87.5	56.7	112.9	124.6	57.8	41.3	36.0	35.0
87.5°	85.9	40.8	19.6	12.7	14.3	23.3	6.9	3.2	3.2	2.7
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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