

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: P677394

Luminaire Tested: **CCW-SA-1B-727-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677394  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-727-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) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

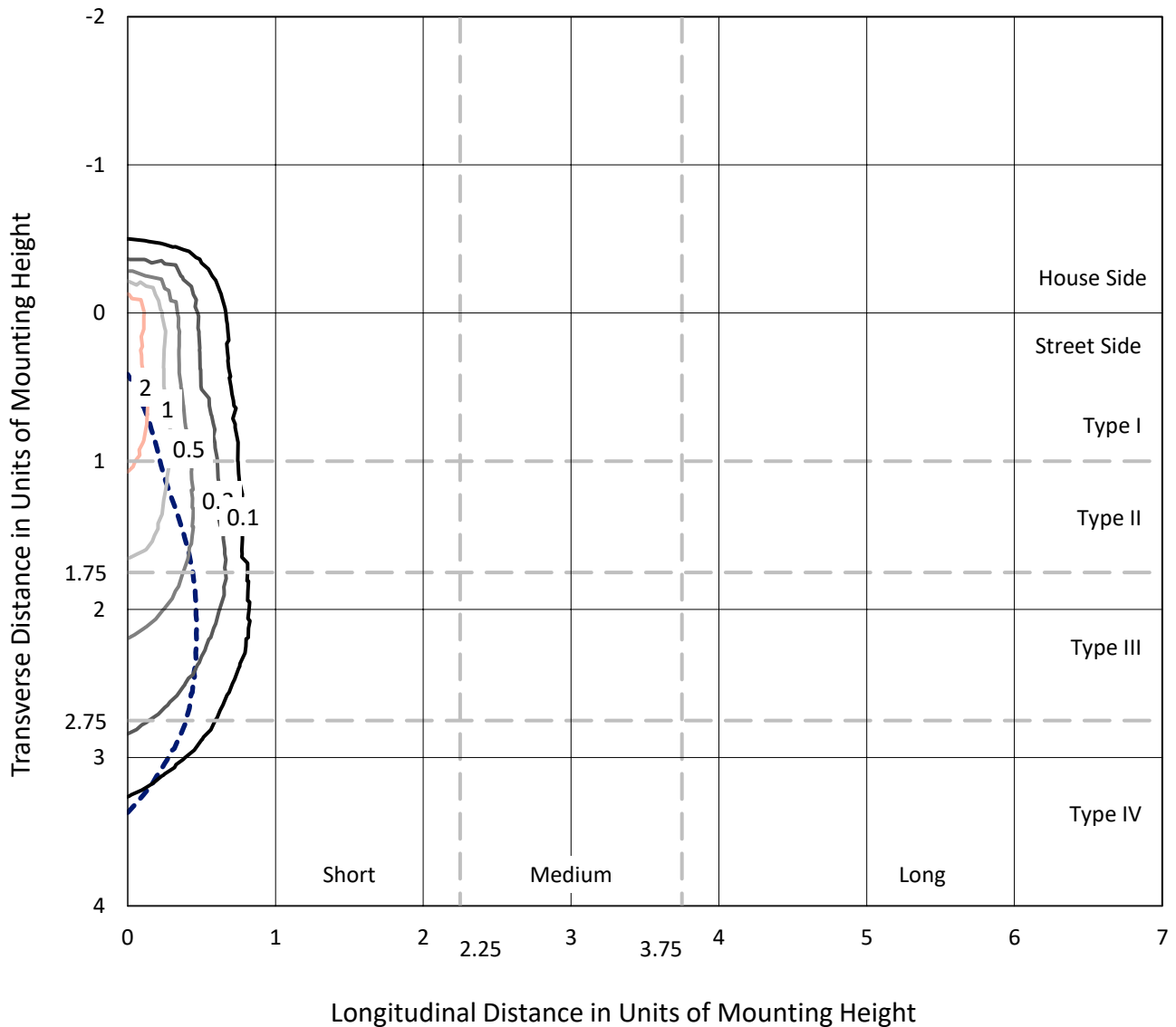
Lumens per Lamp: N/A  
Luminaire Lumens: 2075.6 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 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

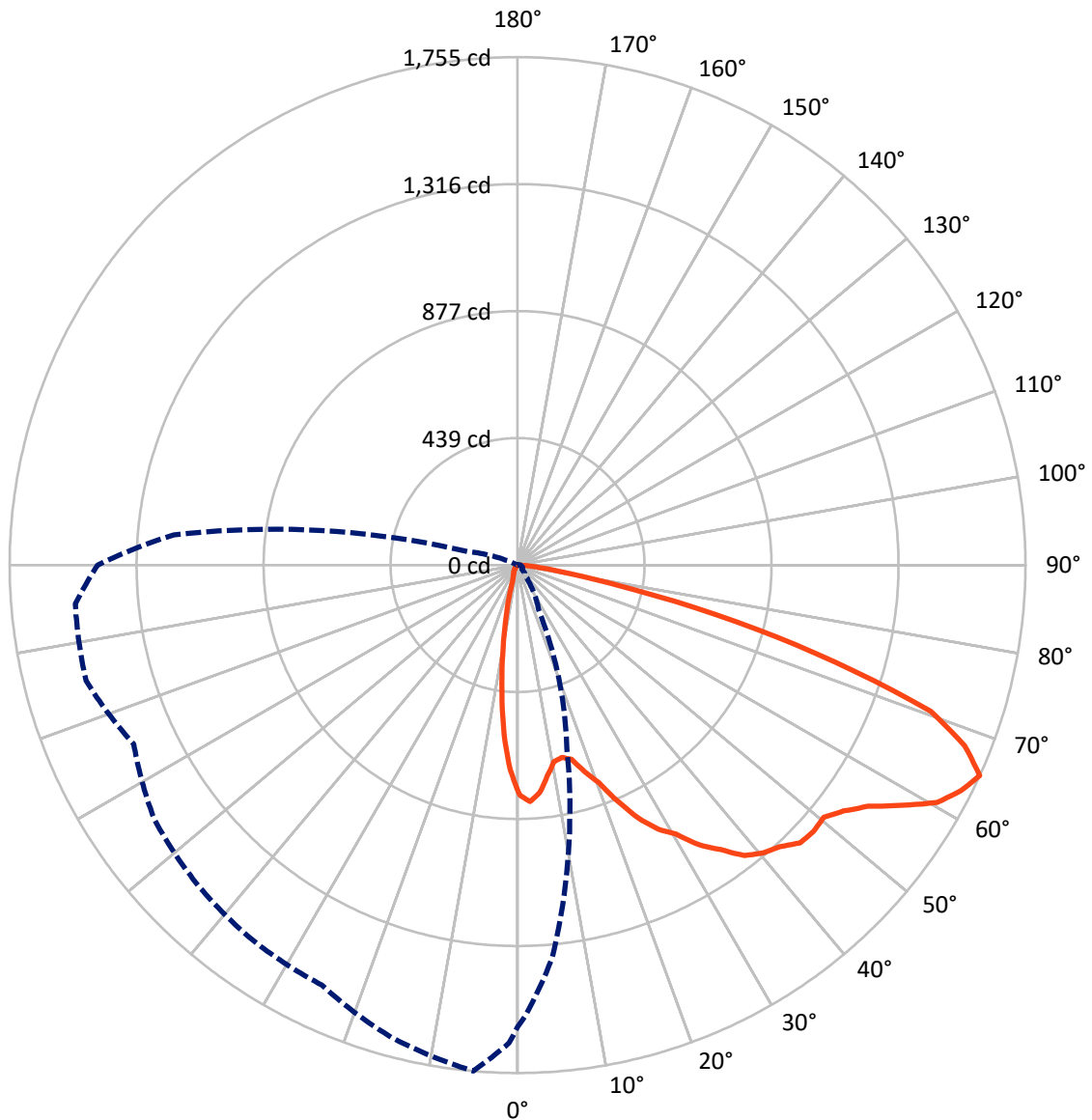
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 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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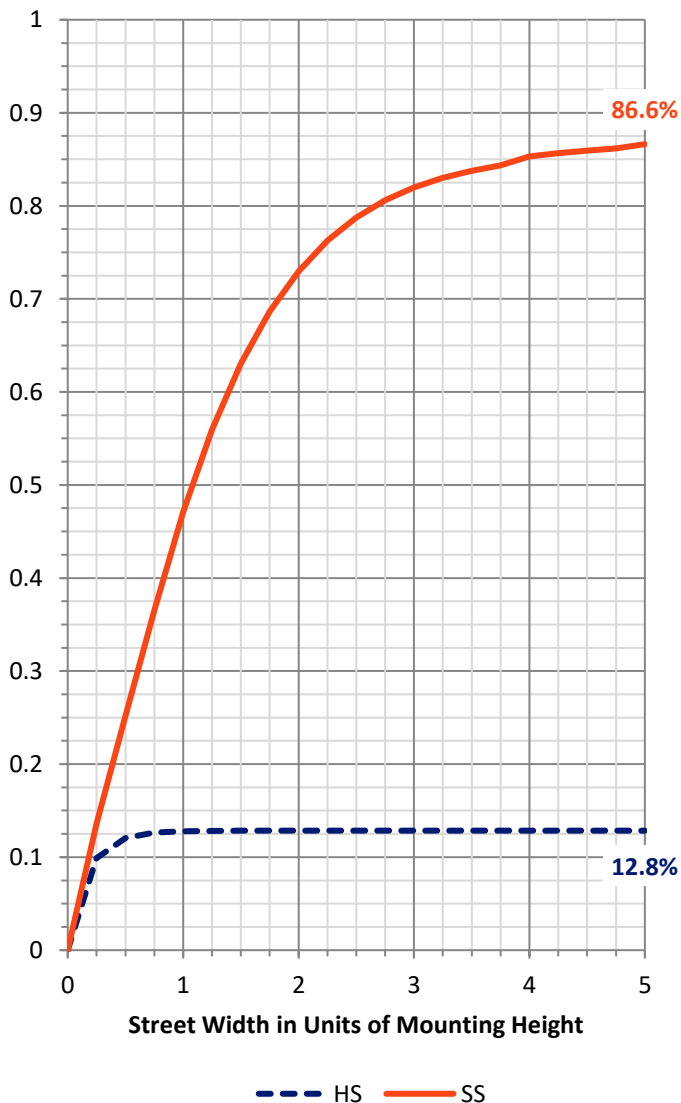
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	269.5	0.0	269.5
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	1806.1	0.0	1806.1
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	2075.6	0.0	2075.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.1	2.9
10°-20°	116.4	5.6
20°-30°	162.1	7.8
30°-40°	230.3	11.1
40°-50°	319.4	15.4
50°-60°	435.2	21.0
60°-70°	478.5	23.1
70°-80°	235.2	11.3
80°-90°	38.4	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°	2075.6	100.0
0°-180°	2075.6	100.0



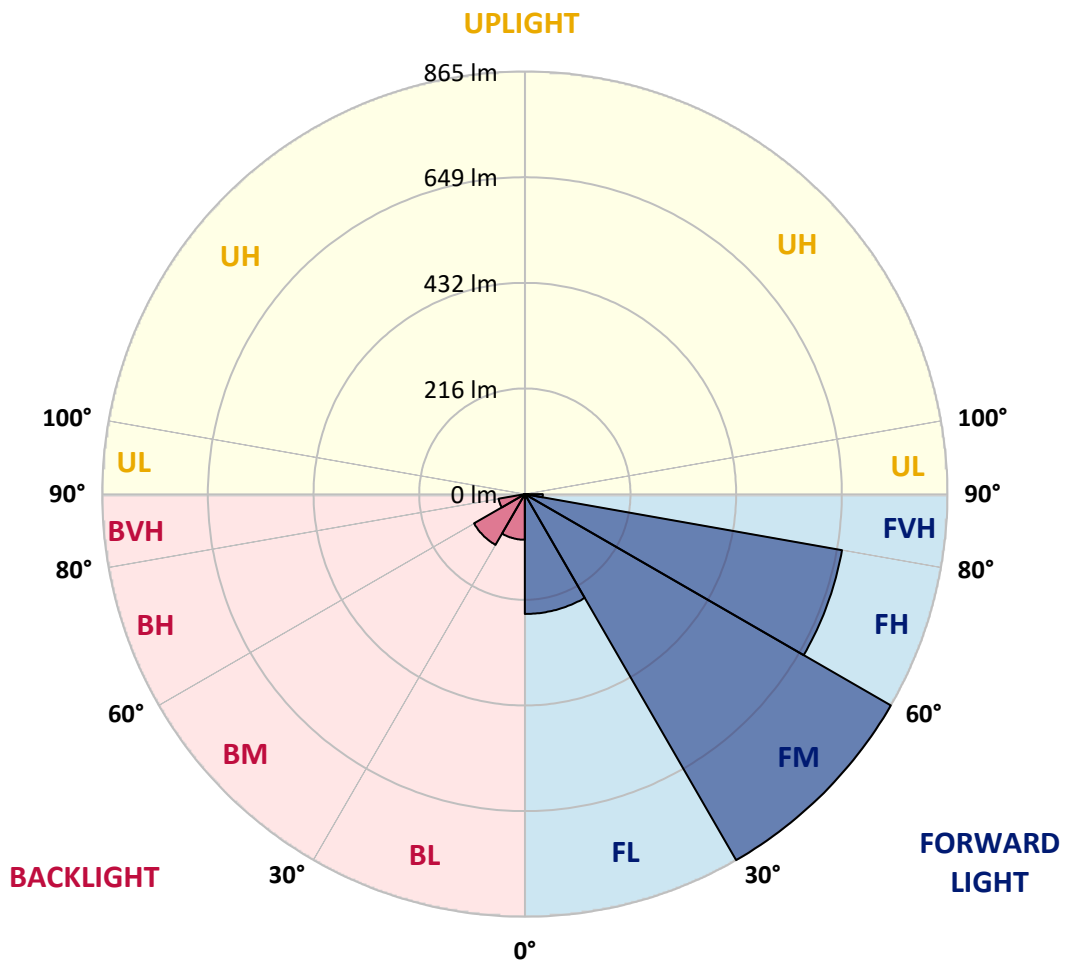
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.3	11.8			
FM (30°-60°)	865.0	41.7			
FH (60°-80°)	659.2	31.8			G0/660
FVH (80°-90°)	36.7	1.8			G1/100
BL (0°-30°)	93.3	4.5	B0/110		
BM (30°-60°)	120.0	5.8	B0/220		
BH (60°-80°)	54.5	2.6	B0/110		G0/110
BVH (80°-90°)	1.7	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°	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5
2.5°	809.7	819.2	810.3	778.9	773.4	758.2	735.3	733.6	709.6	712.4	699.5
5°	761.0	770.6	751.5	710.1	671.5	640.7	622.3	589.2	582.0	565.7	565.7
7.5°	711.2	710.7	678.2	643.5	585.9	529.4	503.6	456.1	428.1	413.0	398.4
10°	669.8	660.9	640.7	569.1	506.4	447.7	415.8	384.4	355.3	330.2	305.0
12.5°	640.7	646.3	614.4	536.6	455.5	414.7	380.5	347.5	312.8	284.3	256.3
15°	655.8	646.9	609.4	529.4	447.1	391.2	345.8	305.5	266.9	229.4	208.2
17.5°	702.8	679.9	635.7	529.4	429.8	355.3	300.5	252.9	211.5	177.9	151.6
20°	766.1	739.8	692.2	549.0	416.9	329.0	254.1	194.2	151.1	119.8	99.6
22.5°	831.0	810.3	738.7	556.8	401.8	293.8	200.3	140.5	100.7	80.6	70.5
25°	908.8	879.7	801.3	588.1	379.4	259.6	157.8	97.9	75.0	64.4	58.2
27.5°	970.9	965.8	860.1	607.2	362.6	231.7	124.8	77.8	62.1	54.3	50.4
30°	1049.2	1021.8	931.7	645.2	343.6	199.8	104.1	69.9	57.1	48.7	45.9
32.5°	1096.2	1083.4	969.2	666.5	322.3	173.5	89.5	61.6	52.0	45.9	43.1
35°	1164.5	1138.8	1022.9	679.9	311.1	158.4	80.6	56.0	43.6	37.5	34.1
37.5°	1240.6	1231.1	1087.3	679.3	294.9	149.4	74.4	52.0	41.4	34.7	30.8
40°	1318.4	1279.8	1126.5	695.0	286.5	142.7	69.9	49.8	39.2	33.0	28.0
42.5°	1376.6	1332.4	1171.8	689.4	276.4	130.9	68.3	46.4	37.5	30.2	25.7
45°	1392.3	1376.6	1212.6	687.7	269.2	121.4	65.5	45.9	36.4	28.5	24.1
47.5°	1422.5	1411.8	1263.0	690.5	263.6	114.2	58.8	47.0	34.7	26.9	22.9
50°	1435.9	1416.9	1303.8	697.2	250.7	105.2	52.6	49.2	34.1	26.3	21.8
52.5°	1491.3	1474.5	1359.8	716.3	240.1	93.5	46.4	47.0	35.3	24.6	20.7
55°	1545.6	1526.6	1446.0	759.9	225.0	83.9	39.7	41.4	33.6	22.4	18.5
57.5°	1620.0	1588.7	1503.6	777.8	211.5	71.1	35.3	34.1	31.3	20.1	16.2
60°	1631.2	1644.1	1495.2	766.6	197.5	62.7	30.8	26.3	33.6	17.9	14.0
62.5°	1668.7	1615.0	1456.0	740.9	187.5	57.6	27.4	21.8	29.1	15.7	11.8
65°	1596.5	1556.8	1364.3	658.1	174.6	58.2	24.1	17.9	18.5	12.9	9.5
67.5°	1490.7	1459.4	1212.1	568.0	161.7	57.1	21.3	15.7	14.0	11.2	8.4
70°	1308.3	1240.6	1029.6	461.1	142.7	53.2	17.9	14.0	11.8	9.0	6.2
72.5°	951.9	924.4	738.7	356.5	128.1	48.1	16.8	11.8	10.1	6.7	5.0
75°	640.7	595.4	466.1	233.9	103.0	42.0	14.0	10.6	7.8	5.0	3.9
77.5°	338.6	320.1	264.1	111.4	57.1	19.6	7.8	6.2	4.5	3.9	2.2
80°	146.6	130.4	114.2	45.3	20.1	9.0	5.0	3.4	2.8	2.2	1.1
82.5°	75.0	71.6	59.3	19.6	11.8	6.7	2.8	2.2	1.7	1.1	0.6
85°	36.9	38.1	31.3	6.2	6.7	3.9	0.6	0.6	0.0	0.0	0.0
87.5°	2.8	2.8	2.2	1.1	1.7	0.6	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°	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5
2.5°	694.4	702.3	688.9	697.2	693.3	695.0	696.7	692.2	693.3	709.0	709.6
5°	556.2	571.3	565.7	573.6	587.0	580.3	586.4	585.3	586.4	588.7	598.8
7.5°	396.7	392.3	402.9	423.6	447.7	462.2	454.9	451.0	448.8	443.2	449.9
10°	299.4	297.1	294.3	300.5	316.2	332.4	341.3	326.2	317.8	307.2	303.3
12.5°	248.5	234.5	226.6	217.1	221.6	236.1	236.7	222.2	208.7	203.1	209.3
15°	195.9	186.3	172.4	158.9	152.2	163.4	153.9	139.9	122.5	120.3	119.8
17.5°	139.9	134.3	124.2	118.6	110.8	108.0	97.9	76.7	64.4	61.0	62.1
20°	95.1	90.7	90.1	85.1	81.7	79.5	63.2	49.2	45.3	45.9	46.4
22.5°	70.5	68.3	65.5	64.9	62.1	59.3	46.4	41.4	38.6	38.6	40.3
25°	57.6	56.5	53.7	52.6	51.5	47.6	39.2	35.3	34.1	33.0	34.7
27.5°	49.2	48.7	47.0	45.3	44.2	40.3	34.1	30.8	29.7	29.7	29.7
30°	44.2	44.2	42.0	38.6	38.6	34.1	29.1	26.9	25.7	25.7	25.2
32.5°	41.4	40.3	37.5	35.3	33.6	29.1	25.7	23.5	21.8	21.8	22.4
35°	33.6	33.6	33.0	31.3	29.1	24.6	21.8	19.6	18.5	17.9	18.5
37.5°	29.7	28.0	25.7	26.3	25.2	21.3	18.5	16.8	15.1	15.1	15.1
40°	26.9	25.2	22.9	21.3	20.7	19.0	16.2	13.4	11.8	11.2	11.2
42.5°	24.1	22.9	19.6	16.8	16.2	16.2	12.3	10.1	8.4	8.4	8.4
45°	22.4	20.7	17.9	14.5	11.8	12.3	10.1	7.3	6.2	5.6	5.6
47.5°	21.3	19.6	15.7	12.3	9.0	9.0	7.3	5.0	3.9	3.4	3.4
50°	19.6	17.9	14.0	10.1	6.7	5.6	4.5	2.8	1.7	1.1	1.1
52.5°	18.5	16.8	12.3	8.4	5.6	3.9	2.8	0.6	0.0	0.0	0.0
55°	16.8	14.5	10.6	6.7	4.5	2.2	0.6	0.0	0.0	0.0	0.0
57.5°	14.5	12.9	8.4	5.0	2.8	0.6	0.0	0.0	0.0	0.0	0.0
60°	12.3	10.6	6.7	3.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10.1	9.0	5.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8.4	6.7	3.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7.3	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5.6	3.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3.9	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.6	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°	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5
2.5°	711.8	728.6	744.3	748.7	761.0	795.2	795.2	811.4	840.5	851.1	853.4
5°	600.4	618.3	621.7	656.4	672.6	707.3	730.3	785.1	818.1	838.8	851.7
7.5°	456.6	462.8	475.6	508.1	540.0	582.0	625.6	695.6	753.8	777.3	820.9
10°	313.9	332.4	360.4	389.5	439.3	485.7	542.2	608.3	679.9	709.0	746.5
12.5°	211.5	237.3	282.0	323.4	369.3	416.3	470.1	558.5	639.6	679.9	717.4
15°	123.7	155.0	193.6	260.8	321.8	374.4	428.1	517.6	616.1	668.1	714.0
17.5°	62.7	72.2	104.1	162.3	242.9	329.0	409.1	523.2	634.0	697.8	735.9
20°	47.0	49.8	58.8	86.2	166.2	272.0	391.2	531.6	683.8	761.6	782.3
22.5°	40.8	43.1	47.0	56.0	93.5	208.2	366.0	552.3	751.5	824.8	868.5
25°	34.7	36.9	40.3	45.9	59.9	141.6	335.2	574.1	812.0	904.3	945.1
27.5°	30.2	31.9	35.3	39.7	48.7	90.1	282.0	603.2	904.3	1000.5	1011.2
30°	25.7	27.4	30.2	35.3	41.4	63.8	207.0	607.2	955.2	1042.5	1072.2
32.5°	22.4	22.9	26.3	30.8	34.7	50.4	145.5	611.1	992.7	1096.8	1102.9
35°	18.5	19.6	22.9	25.7	30.2	39.7	110.2	591.5	1041.4	1152.8	1151.1
37.5°	15.1	16.8	19.0	21.3	24.6	33.6	87.9	555.1	1102.4	1239.5	1186.9
40°	11.8	13.4	15.7	18.5	20.7	30.2	66.0	500.3	1166.2	1282.0	1226.1
42.5°	8.4	9.5	11.8	14.5	18.5	25.2	47.6	435.4	1191.4	1331.8	1273.1
45°	6.2	7.3	9.0	12.3	19.0	20.1	33.0	376.0	1218.2	1353.6	1262.4
47.5°	3.4	4.5	6.7	10.6	16.8	15.1	23.5	322.9	1249.0	1373.2	1270.8
50°	1.1	1.7	3.9	11.2	13.4	11.8	18.5	294.3	1279.2	1377.1	1287.6
52.5°	0.0	0.0	2.2	11.8	10.1	9.0	16.2	283.2	1271.4	1389.5	1277.0
55°	0.0	0.0	0.6	5.0	5.6	6.7	13.4	282.6	1326.8	1393.4	1335.2
57.5°	0.0	0.0	0.0	1.7	3.4	5.6	11.8	264.7	1362.0	1490.7	1413.5
60°	0.0	0.0	0.0	0.6	2.2	3.9	9.0	249.0	1397.9	1534.4	1497.5
62.5°	0.0	0.0	0.0	0.0	0.6	1.7	6.2	225.0	1325.7	1531.0	1578.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	177.9	1192.5	1451.0	1533.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	123.1	1044.2	1350.3	1451.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.4	842.7	1184.1	1231.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	601.6	940.1	1010.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	372.1	687.2	773.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	241.2	520.4	587.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	128.7	326.2	379.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.0	198.1	228.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	120.3	137.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5	24.6
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°	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5
2.5°	854.5	870.7	876.9	867.4	868.5	848.9	846.1	818.7	807.5	809.7
5°	893.7	917.2	930.0	919.4	895.3	857.8	823.7	791.3	771.1	761.0
7.5°	884.7	911.0	927.2	937.3	909.9	849.5	797.4	736.4	710.7	711.2
10°	835.5	890.3	923.3	910.4	897.6	837.1	756.6	690.5	667.6	669.8
12.5°	795.7	856.7	876.3	886.4	860.1	812.0	757.7	682.1	656.4	640.7
15°	771.1	816.4	817.6	833.2	822.6	822.6	769.4	695.6	673.2	655.8
17.5°	771.1	781.2	780.1	785.7	803.6	824.8	799.1	749.8	705.6	702.8
20°	788.5	757.1	749.8	752.1	767.2	830.4	864.6	803.0	775.0	766.1
22.5°	828.7	759.9	715.7	707.9	754.3	829.9	906.5	886.9	838.3	831.0
25°	884.1	754.9	706.8	696.7	731.9	850.0	964.2	968.1	923.9	908.8
27.5°	936.7	777.3	705.6	703.4	749.8	845.5	1003.9	1033.0	983.2	970.9
30°	954.7	799.7	726.3	696.7	756.6	861.8	1002.8	1078.9	1046.4	1049.2
32.5°	975.9	822.0	728.6	716.8	785.1	888.1	1034.7	1152.8	1129.2	1096.2
35°	1007.3	852.3	749.8	739.2	805.2	911.6	1041.4	1207.0	1203.1	1164.5
37.5°	1034.1	881.9	794.1	795.7	866.8	949.6	1071.1	1273.6	1266.9	1240.6
40°	1053.1	923.3	862.9	867.4	920.5	992.1	1123.7	1307.2	1357.0	1318.4
42.5°	1055.9	960.3	941.8	977.6	1027.4	1058.2	1144.9	1330.1	1401.8	1376.6
45°	1066.6	1019.0	1070.5	1096.8	1137.6	1116.4	1143.8	1369.3	1405.1	1392.3
47.5°	1108.0	1125.9	1190.8	1270.8	1285.4	1215.4	1170.7	1375.5	1424.2	1422.5
50°	1151.1	1240.6	1331.8	1385.0	1403.4	1283.7	1195.8	1370.4	1449.3	1435.9
52.5°	1199.2	1340.2	1471.7	1537.2	1527.1	1359.2	1224.4	1411.3	1495.8	1491.3
55°	1229.4	1385.0	1561.8	1653.0	1645.2	1443.7	1315.0	1470.0	1556.8	1545.6
57.5°	1309.4	1457.7	1651.3	1693.9	1714.6	1554.5	1378.3	1566.3	1607.7	1620.0
60°	1375.5	1505.3	1674.8	1736.4	1743.7	1620.6	1489.1	1665.3	1672.6	1631.2
62.5°	1472.3	1523.8	1625.0	1680.4	1717.9	1658.1	1588.7	1718.5	1671.5	1668.7
65°	1543.3	1463.3	1532.2	1562.9	1587.0	1601.0	1688.8	1754.9	1650.8	1596.5
67.5°	1503.6	1349.2	1336.3	1338.0	1345.2	1429.7	1655.3	1665.9	1535.5	1490.7
70°	1323.4	1106.9	1089.5	1102.9	1066.6	1168.4	1519.3	1514.2	1354.8	1308.3
72.5°	1070.5	806.9	777.3	795.7	804.1	912.1	1278.1	1148.3	988.2	951.9
75°	850.6	591.5	499.2	543.9	572.5	664.2	998.3	780.1	690.0	640.7
77.5°	668.1	447.7	388.4	370.4	396.7	482.9	726.3	409.6	361.5	338.6
80°	423.6	329.0	357.0	331.3	342.5	344.7	378.3	186.3	148.3	146.6
82.5°	255.2	225.0	267.5	147.2	268.0	239.5	157.2	84.5	75.0	75.0
85°	180.7	139.3	92.3	59.9	119.2	131.5	61.0	43.6	38.1	36.9
87.5°	90.7	43.1	20.7	13.4	15.1	24.6	7.3	3.4	3.4	2.8
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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