

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: P677305

Luminaire Tested: **CCW-SA-1B-760-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677305  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-760-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

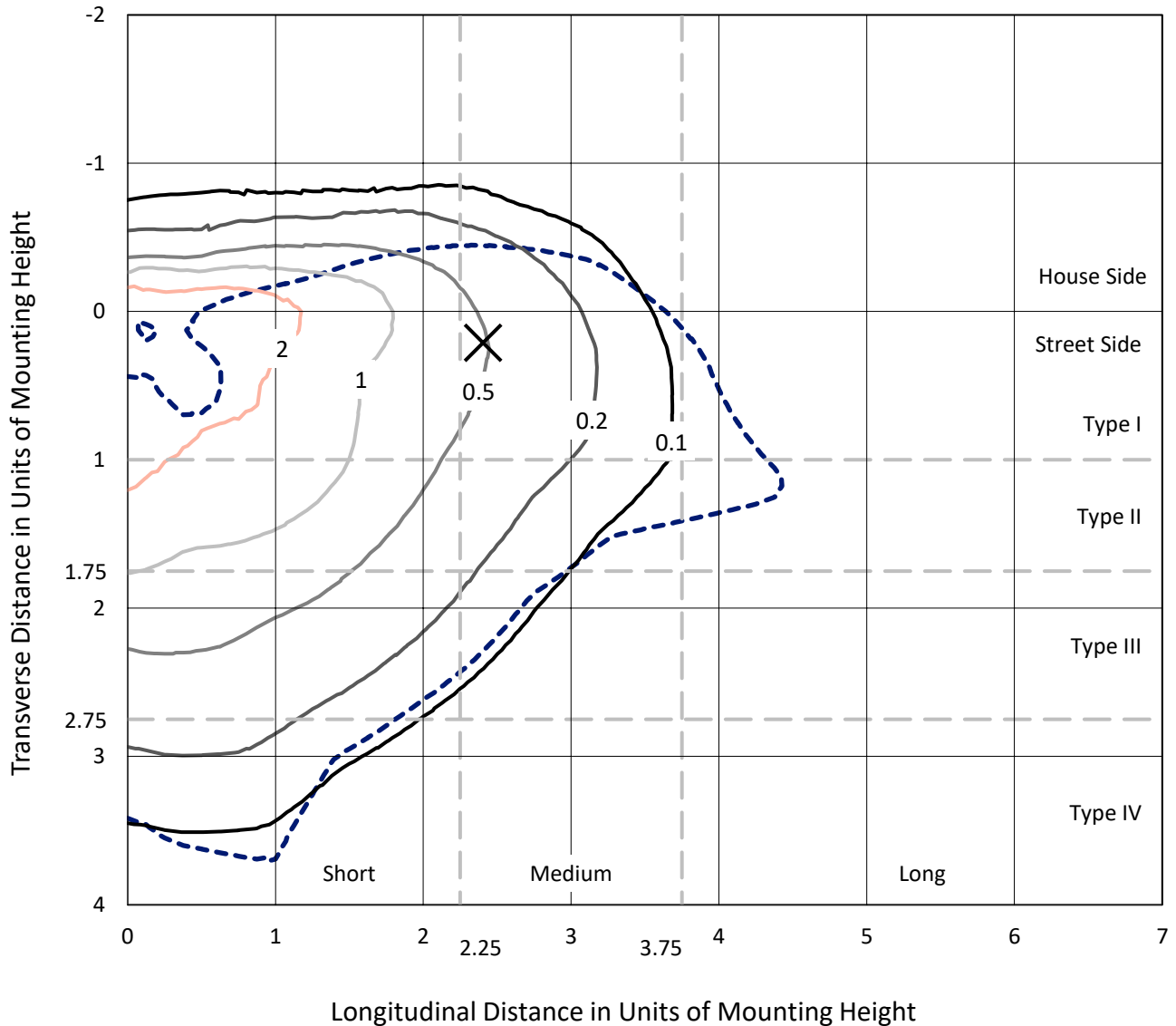
Lumens per Lamp: N/A  
Luminaire Lumens: 2563.1 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

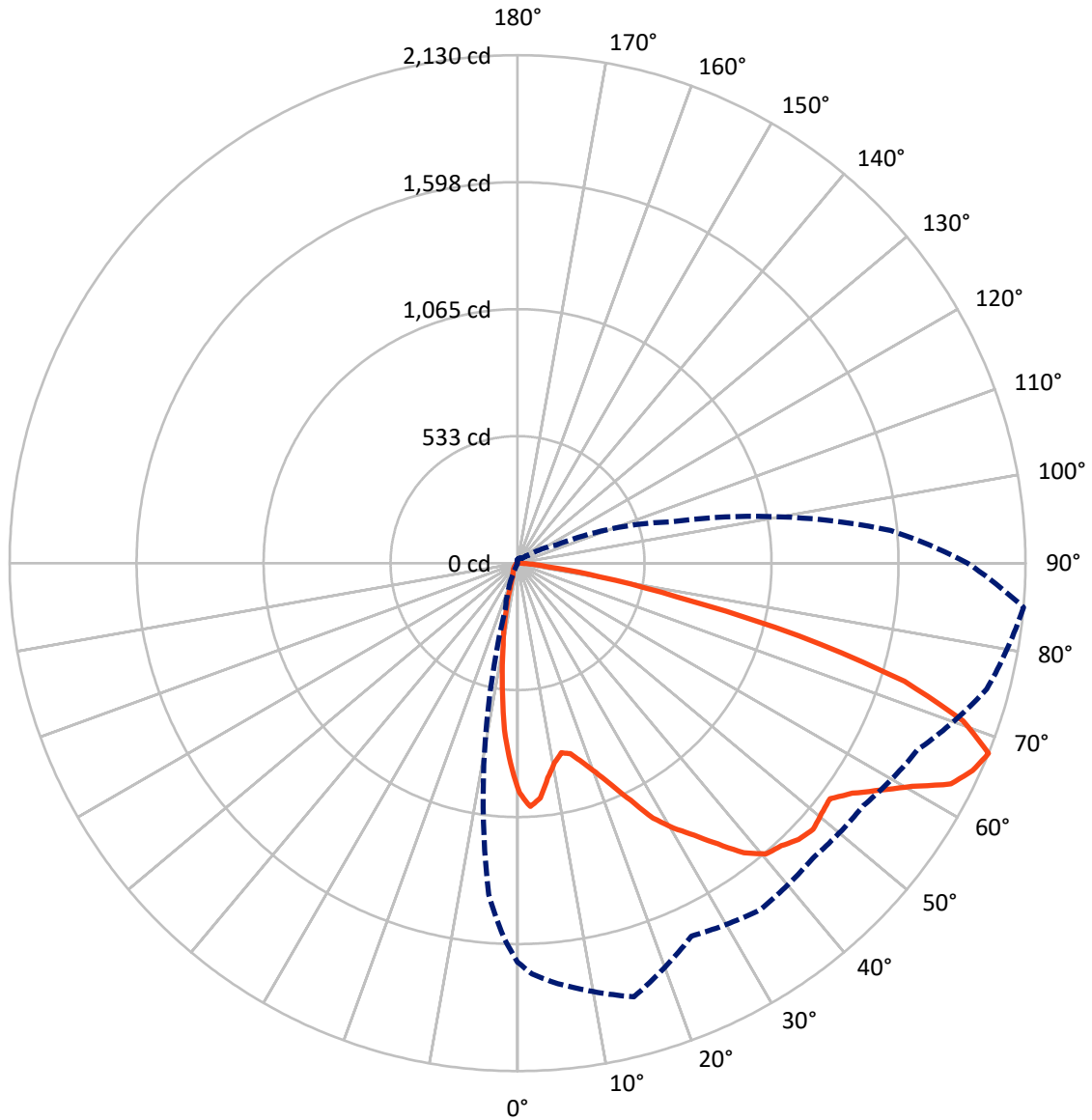
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	445.0	0.0	445.0
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	2118.1	0.0	2118.1
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	2563.1	0.0	2563.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	2.9
10°-20°	143.6	5.6
20°-30°	198.7	7.8
30°-40°	280.8	11.0
40°-50°	382.3	14.9
50°-60°	506.3	19.8
60°-70°	587.9	22.9
70°-80°	332.9	13.0
80°-90°	57.5	2.2
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°	2563.1	100.0
0°-180°	2563.1	100.0



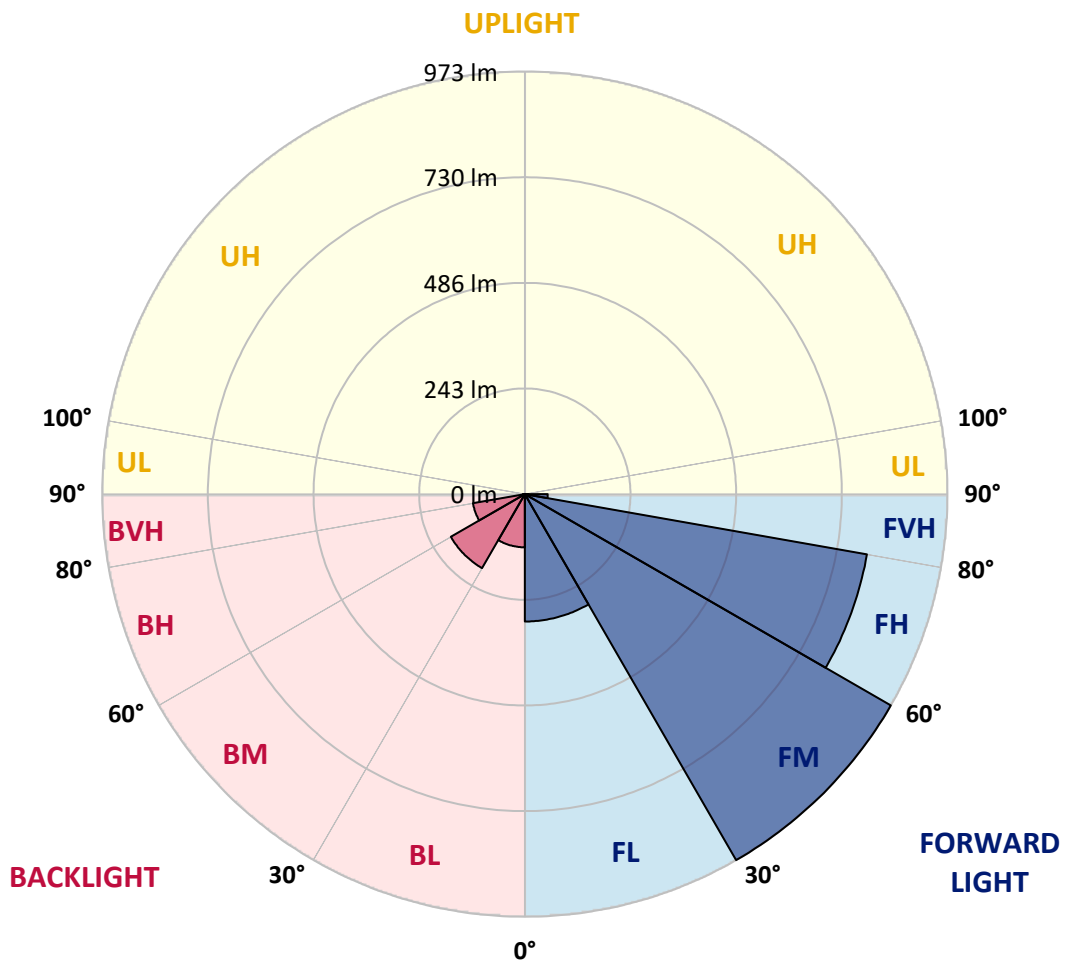
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	293.1	11.4			
FM (30°-60°)	972.7	38.0			
FH (60°-80°)	799.6	31.2			G1/1800
FVH (80°-90°)	52.7	2.1			G1/100
BL (0°-30°)	122.3	4.8	B1/500		
BM (30°-60°)	196.6	7.7	B0/220		
BH (60°-80°)	121.2	4.7	B1/500		G1/500
BVH (80°-90°)	4.8	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7
2.5°	1001.4	1022.6	1023.3	1032.8	1042.4	1042.4	1065.0	1059.5	1039.7	1036.3	1021.9
5°	1008.9	1016.4	1021.9	1070.5	1111.6	1107.4	1119.8	1111.6	1073.2	1023.9	990.4
7.5°	943.9	952.1	974.0	1056.8	1112.2	1130.7	1154.0	1102.7	1062.3	973.3	909.0
10°	857.6	873.4	913.7	1008.2	1076.6	1135.5	1135.5	1094.4	1016.4	929.5	850.8
12.5°	809.7	841.2	863.1	958.9	1047.9	1088.3	1086.9	1065.0	1014.4	904.8	815.9
15°	817.9	826.8	873.4	948.0	1006.8	1004.8	1029.4	1022.6	987.0	926.7	828.9
17.5°	855.6	869.3	909.6	948.0	976.0	967.8	967.1	1000.0	1002.0	963.7	877.5
20°	917.2	957.6	976.7	988.4	954.1	919.2	915.1	961.0	996.6	1010.9	935.6
22.5°	1015.7	1042.4	1081.4	1021.9	932.9	889.1	880.9	931.5	1003.4	1067.1	1010.9
25°	1112.2	1132.8	1170.4	1093.8	956.9	882.9	868.6	912.4	1029.4	1145.1	1102.0
27.5°	1214.2	1232.0	1236.1	1146.5	969.9	870.6	853.5	912.4	1051.3	1186.2	1210.8
30°	1276.5	1297.7	1301.8	1193.0	991.1	880.9	872.7	916.5	1066.4	1221.1	1288.8
32.5°	1346.3	1351.8	1348.4	1201.2	1014.4	911.0	876.8	943.9	1083.5	1262.8	1360.0
35°	1429.8	1439.4	1404.5	1238.9	1066.4	930.2	917.9	977.4	1112.9	1282.0	1446.3
37.5°	1493.5	1523.6	1444.9	1253.2	1076.6	970.6	972.6	1047.2	1133.5	1305.3	1541.4
40°	1613.3	1562.6	1513.3	1302.5	1115.7	1039.0	1028.0	1119.1	1202.6	1320.3	1603.7
42.5°	1679.0	1652.3	1540.0	1307.3	1175.9	1133.5	1136.2	1200.5	1238.9	1362.7	1620.8
45°	1695.4	1667.3	1576.3	1310.7	1235.4	1245.0	1292.2	1304.6	1292.2	1390.8	1653.0
47.5°	1737.1	1676.2	1572.2	1356.6	1331.9	1368.9	1429.1	1455.8	1364.8	1380.5	1668.0
50°	1728.9	1694.0	1563.3	1375.8	1449.7	1547.5	1587.9	1577.0	1445.6	1359.3	1651.6
52.5°	1694.7	1657.1	1590.7	1427.8	1559.9	1678.3	1734.4	1707.0	1517.4	1407.2	1640.6
55°	1744.7	1715.9	1626.3	1498.3	1642.7	1793.3	1833.0	1812.4	1605.7	1451.7	1702.9
57.5°	1798.7	1792.6	1722.8	1581.1	1740.6	1911.7	1911.7	1886.4	1682.4	1516.1	1795.3
60°	1876.8	1890.5	1794.0	1635.8	1774.1	1904.8	2004.1	1974.6	1759.7	1629.0	1900.0
62.5°	1851.4	1895.3	1885.7	1753.6	1812.4	1938.4	1992.4	2014.3	1855.6	1766.6	2039.7
65°	1770.0	1816.5	1885.0	1830.9	1783.7	1856.9	1884.3	1950.7	1903.5	1895.9	2097.2
67.5°	1672.8	1723.5	1765.9	1882.9	1725.5	1774.1	1750.1	1771.4	1851.4	2037.6	2130.0
70°	1460.6	1509.2	1576.3	1767.3	1571.5	1527.7	1521.5	1511.3	1635.8	1987.0	1980.8
72.5°	1201.2	1223.8	1334.7	1436.7	1162.9	1154.7	1164.3	1152.6	1297.0	1798.7	1696.8
75°	899.4	922.0	984.9	1103.3	791.9	744.7	799.4	853.5	990.4	1396.3	1219.0
77.5°	676.2	705.0	744.7	825.5	581.1	507.2	514.7	566.0	715.9	1118.4	683.1
80°	438.7	435.3	512.0	568.1	437.4	451.1	431.9	469.5	518.8	598.2	349.1
82.5°	253.2	256.7	288.8	325.8	304.6	348.4	251.2	419.6	370.3	243.7	130.0
85°	142.4	148.5	178.0	225.9	191.0	128.0	104.7	208.1	232.7	99.9	63.0
87.5°	14.4	12.3	24.0	85.6	52.0	21.2	31.5	50.0	56.1	37.6	18.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7
2.5°	1001.4	1001.4	984.2	955.5	943.9	923.3	895.3	904.2	894.6	859.7	850.8
5°	960.3	927.4	891.8	848.0	822.7	770.7	754.3	724.8	729.6	700.2	701.6
7.5°	874.7	848.7	788.5	731.0	681.0	635.9	572.2	548.2	525.0	513.3	527.0
10°	824.8	776.2	694.0	618.7	552.4	512.0	469.5	436.7	406.6	384.0	379.2
12.5°	788.5	745.4	646.1	554.4	502.4	469.5	430.5	385.3	355.9	316.9	305.3
15°	777.5	724.8	620.1	529.1	478.4	424.4	379.9	335.4	297.1	256.0	241.6
17.5°	815.2	754.3	619.4	508.5	437.4	379.2	317.6	267.6	228.6	191.0	182.1
20°	878.8	785.8	639.3	496.2	398.4	320.3	250.5	200.5	156.7	132.1	125.9
22.5°	951.4	839.1	641.3	463.4	359.3	261.5	182.7	132.1	107.5	95.8	92.4
25°	1040.4	924.7	666.0	436.7	313.5	198.5	130.0	101.3	86.9	80.1	78.7
27.5°	1113.6	984.2	692.7	408.6	268.3	147.2	102.0	82.8	75.3	68.4	67.8
30°	1189.6	1052.7	700.2	391.5	229.3	121.1	87.6	73.2	65.0	61.6	60.9
32.5°	1256.0	1127.3	724.2	363.4	192.3	106.8	79.4	65.7	60.2	54.8	54.1
35°	1341.5	1170.4	735.8	348.4	178.6	96.5	72.6	60.2	52.0	48.6	47.2
37.5°	1433.2	1212.2	743.3	336.8	167.0	90.3	68.4	56.8	49.3	44.5	43.1
40°	1518.8	1271.0	732.4	322.4	158.1	82.8	65.7	52.7	45.9	41.1	39.0
42.5°	1584.5	1328.5	728.9	308.7	148.5	80.1	62.3	50.6	43.1	37.6	37.0
45°	1621.5	1367.5	705.0	297.7	141.0	81.4	60.9	47.9	41.1	36.3	33.5
47.5°	1612.6	1397.7	711.1	294.3	130.7	76.0	60.2	45.9	37.6	33.5	31.5
50°	1661.9	1458.6	700.9	283.4	123.2	68.4	65.7	45.9	37.0	32.2	30.1
52.5°	1670.1	1514.0	722.8	263.5	111.6	63.0	65.0	45.2	35.6	30.8	28.1
55°	1738.5	1578.3	765.2	252.6	102.0	54.8	59.5	43.8	32.2	28.1	26.7
57.5°	1831.6	1711.8	792.6	242.3	89.0	47.9	50.0	43.1	29.4	26.0	24.0
60°	1921.3	1765.2	794.7	223.8	76.7	43.1	39.0	43.1	27.4	23.3	21.2
62.5°	1988.3	1765.2	781.0	208.1	67.1	38.3	34.2	41.1	24.6	20.5	19.2
65°	1952.1	1718.0	745.4	195.1	60.9	33.5	29.4	31.5	21.9	17.8	16.4
67.5°	1887.0	1570.8	666.7	179.3	60.2	29.4	25.3	23.3	19.2	15.7	14.4
70°	1783.0	1372.3	555.1	161.5	58.9	26.7	22.6	19.8	17.1	13.7	12.3
72.5°	1436.7	1133.5	455.8	151.3	57.5	23.3	19.2	17.1	14.4	11.6	10.3
75°	995.2	724.2	351.1	129.4	56.1	21.2	17.8	15.1	12.3	9.6	8.9
77.5°	596.8	483.9	226.6	97.2	37.0	17.1	15.1	11.6	10.3	8.2	7.5
80°	279.3	228.6	91.7	37.6	17.8	12.3	10.3	8.9	8.2	6.8	6.2
82.5°	109.5	96.5	44.5	21.9	14.4	9.6	8.2	7.5	6.8	5.5	4.8
85°	58.9	52.0	21.2	15.1	10.3	6.8	6.8	6.2	5.5	4.8	4.1
87.5°	13.0	9.6	8.9	8.9	7.5	5.5	5.5	4.8	4.1	3.4	2.7
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°	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7
2.5°	846.0	856.3	839.8	850.1	835.7	846.7	848.0	837.8	840.5	854.2	860.4
5°	720.7	713.9	698.8	694.0	694.7	685.8	689.2	694.0	701.6	705.7	718.0
7.5°	519.5	535.2	534.6	546.2	546.9	545.5	535.9	515.4	522.2	516.8	523.6
10°	371.7	378.5	391.5	399.0	412.7	405.2	383.3	375.1	371.0	370.3	377.1
12.5°	297.1	280.6	279.3	282.0	288.8	279.9	269.0	259.4	264.2	273.8	281.3
15°	230.0	216.3	198.5	195.8	197.1	193.0	181.4	169.1	172.5	182.1	187.5
17.5°	176.6	160.8	148.5	140.3	137.6	123.2	106.1	95.8	93.1	92.4	97.2
20°	119.1	116.4	114.3	104.0	104.0	83.5	69.1	61.6	61.6	63.0	63.7
22.5°	89.0	85.6	86.2	84.2	78.7	62.3	54.8	52.7	52.7	54.1	54.1
25°	77.3	72.6	71.2	70.5	65.0	53.4	47.9	45.9	45.9	47.2	47.2
27.5°	65.7	64.3	62.3	59.5	54.8	45.9	42.4	40.4	41.1	41.8	41.1
30°	60.2	56.8	54.1	54.1	48.6	41.1	38.3	37.0	35.6	37.0	37.6
32.5°	53.4	51.3	50.0	47.9	41.8	36.3	33.5	32.2	31.5	31.5	32.2
35°	45.9	45.9	44.5	41.8	36.3	32.9	29.4	28.1	27.4	28.1	28.1
37.5°	41.1	39.0	39.7	37.0	32.2	28.7	25.3	24.0	24.0	23.3	24.0
40°	38.3	34.9	32.9	31.5	28.7	24.6	21.9	20.5	19.8	19.8	19.8
42.5°	34.2	31.5	27.4	26.7	26.0	21.2	17.8	17.1	16.4	15.7	15.7
45°	32.2	28.1	24.6	21.2	21.2	17.8	15.1	13.7	13.0	12.3	13.0
47.5°	29.4	25.3	21.2	17.8	17.1	14.4	11.6	10.3	9.6	9.6	9.6
50°	28.1	22.6	18.5	15.1	13.0	11.6	8.9	7.5	6.8	6.8	6.8
52.5°	26.0	21.2	16.4	13.0	10.3	8.9	6.8	5.5	4.8	4.8	4.8
55°	23.3	19.2	14.4	11.0	8.9	6.8	4.8	3.4	2.7	2.7	2.7
57.5°	21.9	17.1	12.3	9.6	6.8	4.8	2.7	2.1	2.1	1.4	2.1
60°	19.8	15.1	10.3	7.5	5.5	3.4	2.1	0.7	0.7	0.7	0.7
62.5°	17.1	13.0	8.9	6.2	4.1	2.1	0.7	0.0	0.0	0.0	0.0
65°	14.4	10.3	6.8	4.8	2.7	0.7	0.0	0.0	0.0	0.0	0.0
67.5°	12.3	8.9	5.5	3.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	11.0	7.5	4.1	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8.9	6.2	3.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.5	4.8	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.2	3.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.8	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.7	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7
2.5°	869.3	865.1	885.7	919.2	936.3	969.9	978.1	999.3	993.8	1001.4
5°	719.4	727.6	757.7	807.0	824.8	873.4	919.2	965.1	994.5	1008.9
7.5°	533.9	561.3	598.2	643.4	689.2	752.9	830.9	884.3	913.1	943.9
10°	397.7	427.1	469.5	514.0	588.6	659.8	737.8	804.2	828.9	857.6
12.5°	312.8	358.7	407.9	455.8	500.3	568.1	664.6	761.1	787.8	809.7
15°	217.7	273.8	344.3	406.6	468.9	527.7	627.6	744.7	781.0	817.9
17.5°	120.5	165.0	245.7	333.3	425.0	515.4	640.0	774.8	829.6	855.6
20°	69.8	87.6	145.1	249.1	370.3	488.7	646.1	831.6	904.2	917.2
22.5°	57.5	63.7	82.1	156.1	303.2	471.6	677.6	911.0	984.9	1015.7
25°	49.3	54.1	63.7	93.8	229.3	435.3	697.5	1010.3	1078.7	1112.2
27.5°	43.8	48.6	56.1	69.1	156.1	385.3	730.3	1099.9	1168.4	1214.2
30°	38.3	42.4	50.0	58.9	108.1	329.2	758.4	1165.6	1262.1	1276.5
32.5°	34.2	37.6	43.1	50.6	80.1	249.8	781.0	1233.4	1314.8	1346.3
35°	29.4	33.5	37.0	43.1	60.9	188.2	767.3	1286.1	1392.2	1429.8
37.5°	26.0	28.7	32.2	36.3	51.3	147.2	739.2	1349.1	1458.6	1493.5
40°	21.9	24.0	28.1	32.2	46.5	113.6	707.0	1425.0	1551.7	1613.3
42.5°	18.5	20.5	23.3	30.1	38.3	84.2	642.0	1483.9	1626.9	1679.0
45°	14.4	17.1	21.2	30.1	30.8	62.3	574.9	1527.7	1669.4	1695.4
47.5°	11.0	13.7	20.5	26.0	24.6	43.1	495.5	1577.7	1713.2	1737.1
50°	8.2	11.0	23.3	22.6	20.5	32.9	445.6	1612.6	1715.9	1728.9
52.5°	5.5	8.2	19.2	17.1	17.1	28.7	431.9	1611.2	1722.8	1694.7
55°	4.1	6.2	11.0	12.3	15.1	25.3	419.6	1662.5	1724.8	1744.7
57.5°	2.7	4.8	7.5	9.6	13.0	21.9	394.2	1724.1	1788.5	1798.7
60°	1.4	3.4	5.5	7.5	11.0	19.2	358.7	1769.3	1865.8	1876.8
62.5°	0.7	2.1	4.1	6.2	8.9	15.1	321.7	1697.4	1832.3	1851.4
65°	0.0	1.4	2.7	4.1	5.5	11.0	261.5	1532.5	1699.5	1770.0
67.5°	0.0	0.0	1.4	2.7	3.4	8.2	197.1	1394.2	1577.0	1672.8
70°	0.0	0.0	0.7	0.7	2.1	6.2	125.9	1154.7	1407.9	1460.6
72.5°	0.0	0.0	0.0	0.0	0.7	4.1	73.2	857.6	1103.3	1201.2
75°	0.0	0.0	0.0	0.0	0.0	3.4	37.0	551.7	768.0	899.4
77.5°	0.0	0.0	0.0	0.0	0.0	2.7	19.8	355.9	566.0	676.2
80°	0.0	0.0	0.0	0.0	0.0	0.7	11.6	206.7	362.1	438.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	101.3	216.3	253.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	54.1	108.1	142.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	7.5	14.4
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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