

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: P676309

Luminaire Tested: **CCW-SA-1C-827-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676309  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-827-U-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T2 distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

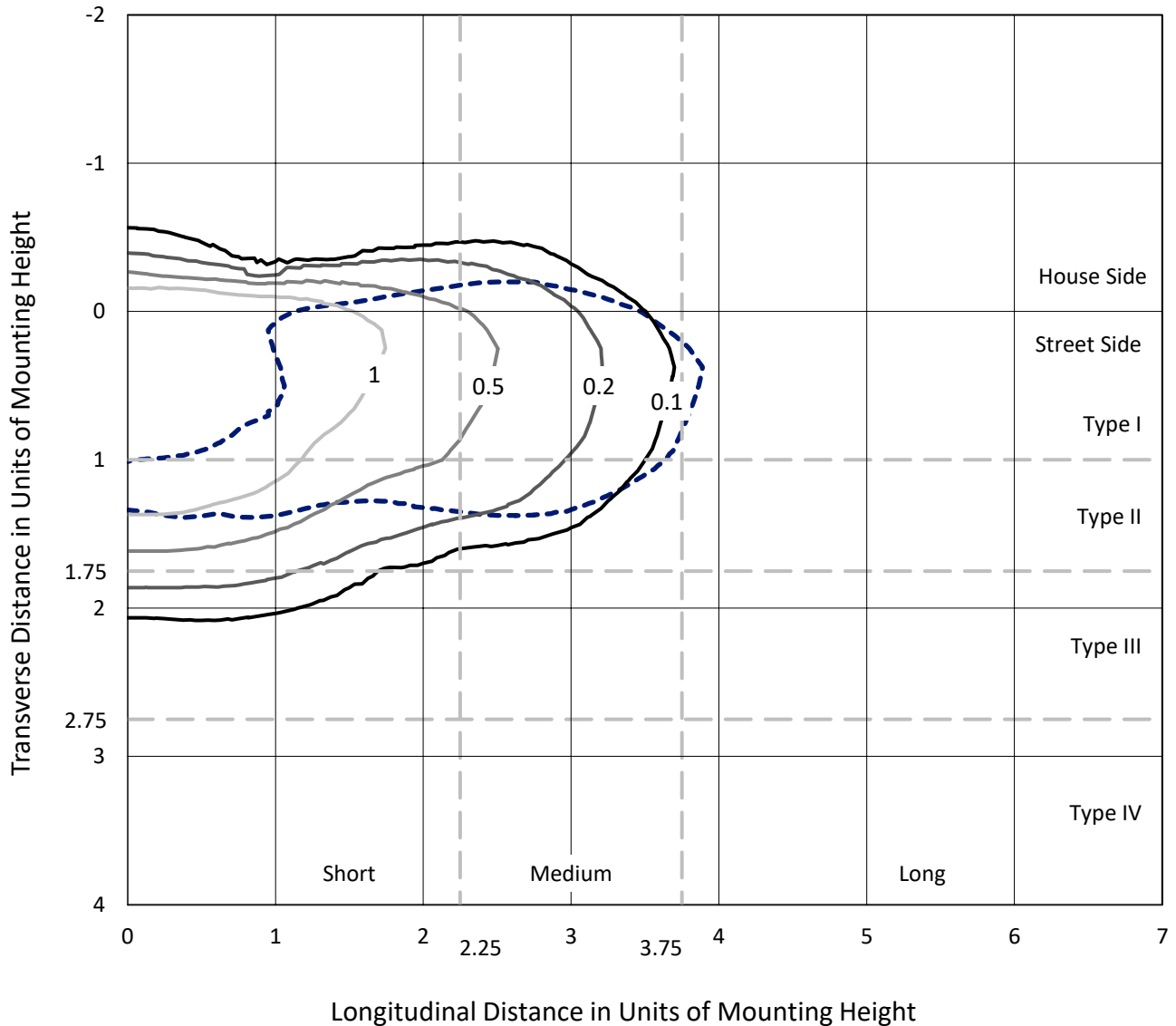
Lumens per Lamp: N/A  
Luminaire Lumens: 2565.9 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
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

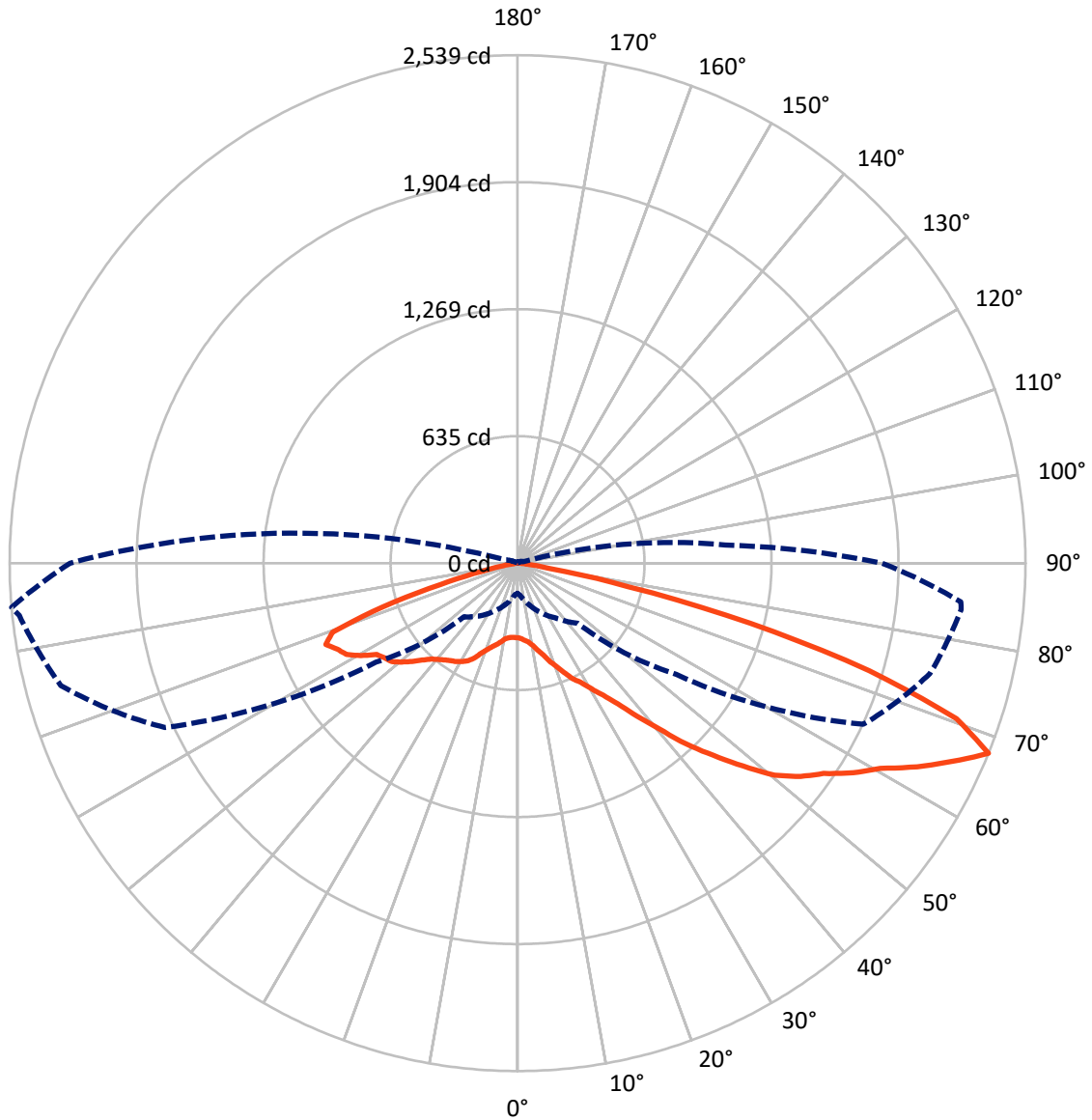
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	364.5	0.0	364.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	2201.4	0.0	2201.4
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	2565.9	0.0	2565.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.0	1.3
10°-20°	91.5	3.6
20°-30°	151.9	5.9
30°-40°	261.4	10.2
40°-50°	469.7	18.3
50°-60°	668.7	26.1
60°-70°	609.7	23.8
70°-80°	259.6	10.1
80°-90°	19.3	0.8
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°	2565.9	100.0
0°-180°	2565.9	100.0

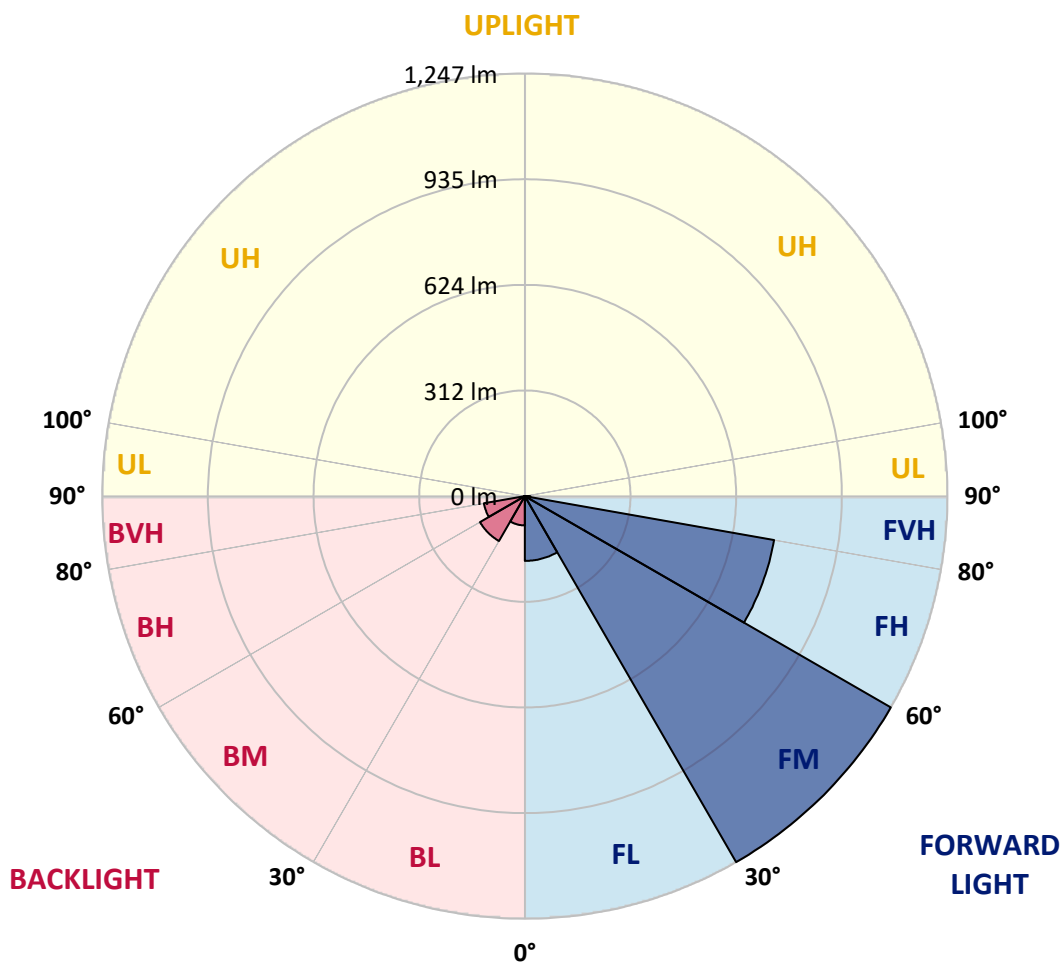


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.2	7.4			
FM (30°-60°)	1247.0	48.6			
FH (60°-80°)	746.8	29.1			G1/1800
FVH (80°-90°)	16.4	0.6			G1/100
BL (0°-30°)	86.3	3.4	B0/110		
BM (30°-60°)	152.8	6.0	B0/220		
BH (60°-80°)	122.5	4.8	B1/500		G1/500
BVH (80°-90°)	2.9	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1
2.5°	386.6	390.3	390.3	389.0	385.4	382.9	381.7	379.2	376.8	376.8	378.0
5°	390.3	386.6	391.5	385.4	385.4	385.4	390.3	387.8	386.6	380.5	380.5
7.5°	390.3	386.6	386.6	390.3	386.6	389.0	395.1	392.7	397.6	386.6	389.0
10°	379.2	378.0	380.5	385.4	386.6	391.5	397.6	409.8	411.0	403.7	402.5
12.5°	357.2	356.0	364.6	367.0	381.7	393.9	412.3	422.1	433.1	429.4	422.1
15°	341.3	343.8	349.9	359.7	373.1	395.1	415.9	438.0	457.5	452.6	450.2
17.5°	347.4	346.2	347.4	353.6	370.7	392.7	428.2	453.9	482.0	482.0	484.4
20°	365.8	369.5	368.2	364.6	373.1	391.5	428.2	473.4	519.9	516.3	516.3
22.5°	397.6	398.8	391.5	389.0	387.8	398.8	435.5	497.9	551.7	559.1	556.6
25°	430.6	431.8	429.4	422.1	412.3	414.7	449.0	517.5	595.8	608.0	605.6
27.5°	485.7	484.4	478.3	469.8	455.1	444.1	469.8	532.2	630.0	650.8	644.7
30°	540.7	537.1	528.5	517.5	504.0	483.2	495.5	560.3	672.8	692.4	679.0
32.5°	608.0	600.7	603.1	586.0	557.9	524.8	522.4	586.0	707.1	735.2	724.2
35°	693.6	685.1	672.8	656.9	630.0	586.0	572.5	627.6	764.6	785.4	785.4
37.5°	806.2	814.8	800.1	734.0	704.7	663.1	634.9	670.4	814.8	864.9	852.7
40°	921.2	928.5	901.6	852.7	789.1	737.7	720.6	740.1	890.6	950.5	927.3
42.5°	1014.2	1023.9	1014.2	950.5	900.4	834.3	803.7	822.1	988.5	1060.7	1030.1
45°	1112.0	1121.8	1110.8	1069.2	1020.3	982.4	905.3	928.5	1091.2	1198.9	1164.6
47.5°	1185.4	1197.7	1178.1	1169.5	1130.4	1124.3	993.4	1019.1	1198.9	1338.4	1295.5
50°	1202.6	1216.0	1233.1	1242.9	1229.5	1244.2	1112.0	1134.1	1311.4	1466.8	1425.2
52.5°	1162.2	1175.6	1213.6	1258.8	1321.2	1365.3	1231.9	1250.3	1428.9	1573.2	1551.2
55°	1043.5	1055.8	1132.8	1194.0	1343.2	1415.4	1346.9	1424.0	1513.3	1684.6	1630.7
57.5°	844.1	858.8	960.3	1054.5	1269.8	1387.3	1415.4	1568.3	1652.8	1766.5	1704.1
60°	599.4	608.0	696.1	862.5	1066.8	1246.6	1402.0	1676.0	1762.9	1876.6	1843.6
62.5°	345.0	352.3	444.1	600.7	805.0	1041.1	1342.0	1777.5	1881.5	1997.7	1979.4
65°	228.8	231.2	293.6	379.2	523.6	767.0	1190.3	1868.1	1999.0	2094.4	2073.6
67.5°	150.5	163.9	212.9	271.6	335.2	424.5	970.1	1906.0	2133.5	2229.0	2224.1
70°	107.7	112.5	152.9	209.2	252.0	238.6	567.6	1638.1	2127.4	2265.7	2225.3
72.5°	63.6	68.5	101.5	156.6	198.2	151.7	265.5	1158.5	1762.9	1808.1	1797.1
75°	46.5	46.5	62.4	112.5	144.4	108.9	124.8	732.8	1170.8	1271.1	1269.8
77.5°	33.0	34.3	42.8	67.3	111.3	79.5	68.5	407.4	639.8	699.8	666.7
80°	19.6	20.8	29.4	40.4	80.7	57.5	45.3	186.0	245.9	248.3	236.1
82.5°	14.7	14.7	19.6	28.1	56.3	39.1	28.1	71.0	79.5	72.2	61.2
85°	8.6	7.3	14.7	20.8	33.0	22.0	19.6	33.0	36.7	26.9	24.5
87.5°	2.4	2.4	6.1	7.3	14.7	12.2	8.6	12.2	17.1	9.8	7.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1
2.5°	375.6	371.9	365.8	363.3	354.8	351.1	348.7	342.5	343.8	340.1	340.1
5°	371.9	371.9	359.7	346.2	332.8	324.2	314.4	302.2	302.2	297.3	298.5
7.5°	385.4	375.6	359.7	335.2	313.2	293.6	285.0	272.8	265.5	261.8	261.8
10°	393.9	384.1	357.2	327.9	299.7	275.3	256.9	239.8	230.0	230.0	228.8
12.5°	417.2	402.5	367.0	326.6	285.0	248.3	220.2	200.6	187.2	177.4	179.8
15°	436.7	420.8	371.9	316.8	259.4	208.0	173.7	137.0	118.7	108.9	105.2
17.5°	467.3	438.0	382.9	299.7	220.2	162.7	112.5	82.0	74.6	73.4	73.4
20°	493.0	458.8	384.1	266.7	181.1	104.0	72.2	67.3	63.6	62.4	61.2
22.5°	528.5	485.7	379.2	228.8	129.7	69.7	61.2	56.3	53.8	50.2	50.2
25°	565.2	521.2	369.5	193.3	79.5	59.9	53.8	48.9	44.0	41.6	42.8
27.5°	604.3	548.1	341.3	150.5	61.2	52.6	44.0	40.4	37.9	36.7	36.7
30°	636.1	565.2	299.7	100.3	55.1	46.5	39.1	35.5	33.0	31.8	31.8
32.5°	659.4	579.9	253.2	67.3	50.2	41.6	35.5	31.8	29.4	28.1	28.1
35°	698.5	590.9	210.4	57.5	45.3	36.7	30.6	28.1	25.7	25.7	25.7
37.5°	758.5	605.6	167.6	52.6	41.6	33.0	29.4	25.7	24.5	23.2	23.2
40°	811.1	623.9	119.9	47.7	37.9	30.6	25.7	23.2	22.0	20.8	20.8
42.5°	886.9	644.7	78.3	42.8	34.3	28.1	23.2	20.8	19.6	18.4	18.4
45°	983.6	679.0	61.2	37.9	30.6	25.7	22.0	19.6	17.1	17.1	15.9
47.5°	1086.3	720.6	55.1	35.5	28.1	23.2	19.6	17.1	15.9	14.7	14.7
50°	1181.8	760.9	51.4	33.0	25.7	22.0	18.4	15.9	13.5	12.2	12.2
52.5°	1267.4	798.9	48.9	30.6	24.5	19.6	15.9	13.5	12.2	11.0	11.0
55°	1312.7	816.0	47.7	29.4	22.0	18.4	14.7	12.2	11.0	9.8	9.8
57.5°	1383.6	838.0	46.5	28.1	20.8	15.9	13.5	11.0	9.8	8.6	8.6
60°	1498.6	910.2	45.3	26.9	19.6	15.9	12.2	9.8	7.3	6.1	6.1
62.5°	1594.0	970.1	40.4	23.2	17.1	13.5	9.8	7.3	4.9	3.7	3.7
65°	1702.9	998.3	35.5	20.8	14.7	11.0	7.3	4.9	3.7	1.2	1.2
67.5°	1821.6	1041.1	29.4	18.4	13.5	8.6	6.1	3.7	1.2	0.0	0.0
70°	1759.2	987.2	24.5	15.9	12.2	7.3	4.9	2.4	0.0	0.0	0.0
72.5°	1378.7	707.1	19.6	14.7	11.0	7.3	4.9	1.2	0.0	0.0	0.0
75°	921.2	400.0	17.1	12.2	8.6	6.1	3.7	1.2	0.0	0.0	0.0
77.5°	500.4	179.8	14.7	11.0	7.3	4.9	3.7	1.2	0.0	0.0	0.0
80°	162.7	71.0	12.2	9.8	7.3	4.9	3.7	1.2	0.0	0.0	0.0
82.5°	44.0	22.0	12.2	9.8	7.3	4.9	3.7	1.2	0.0	0.0	0.0
85°	18.4	14.7	12.2	9.8	7.3	4.9	3.7	1.2	0.0	0.0	0.0
87.5°	7.3	4.9	4.9	6.1	4.9	3.7	2.4	1.2	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°	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1
2.5°	341.3	343.8	345.0	345.0	351.1	357.2	364.6	370.7	370.7	374.3	378.0
5°	299.7	302.2	305.8	316.8	329.1	342.5	356.0	365.8	379.2	385.4	389.0
7.5°	265.5	267.9	277.7	288.7	305.8	329.1	352.3	374.3	387.8	393.9	398.8
10°	230.0	233.7	244.7	264.2	286.3	314.4	341.3	379.2	401.3	413.5	418.4
12.5°	178.6	188.4	203.1	223.9	252.0	294.8	345.0	384.1	422.1	436.7	446.5
15°	112.5	121.1	144.4	177.4	215.3	265.5	335.2	391.5	444.1	458.8	474.7
17.5°	72.2	73.4	80.7	116.2	165.2	228.8	320.5	402.5	468.5	489.3	513.8
20°	61.2	63.6	64.8	69.7	110.1	188.4	289.9	415.9	497.9	526.0	549.3
22.5°	51.4	52.6	55.1	58.7	66.1	137.0	248.3	415.9	523.6	565.2	592.1
25°	41.6	44.0	46.5	50.2	57.5	85.6	205.5	408.6	554.2	605.6	639.8
27.5°	36.7	36.7	39.1	42.8	48.9	59.9	162.7	386.6	577.4	630.0	675.3
30°	31.8	33.0	34.3	37.9	44.0	52.6	112.5	351.1	601.9	677.7	729.1
32.5°	28.1	28.1	30.6	33.0	39.1	47.7	72.2	297.3	633.7	714.4	786.6
35°	25.7	25.7	26.9	29.4	35.5	42.8	56.3	252.0	671.6	784.2	863.7
37.5°	23.2	23.2	24.5	26.9	31.8	37.9	51.4	216.5	710.8	853.9	970.1
40°	20.8	20.8	22.0	24.5	28.1	34.3	46.5	174.9	759.7	956.7	1086.3
42.5°	18.4	18.4	19.6	22.0	25.7	30.6	40.4	130.9	824.5	1068.0	1236.8
45°	15.9	15.9	17.1	19.6	22.0	28.1	36.7	100.3	895.5	1191.5	1368.9
47.5°	13.5	14.7	15.9	18.4	20.8	25.7	33.0	88.1	965.2	1322.4	1515.7
50°	12.2	12.2	13.5	15.9	19.6	23.2	30.6	86.9	1036.2	1422.8	1666.2
52.5°	11.0	11.0	12.2	14.7	18.4	22.0	29.4	89.3	1094.9	1515.7	1771.4
55°	9.8	9.8	11.0	12.2	15.9	20.8	26.9	91.8	1136.5	1609.9	1855.8
57.5°	8.6	8.6	9.8	12.2	14.7	18.4	24.5	94.2	1203.8	1702.9	1978.2
60°	6.1	6.1	8.6	11.0	13.5	15.9	23.2	96.6	1311.4	1831.4	2082.2
62.5°	3.7	3.7	4.9	8.6	11.0	14.7	20.8	91.8	1411.8	1996.5	2241.2
65°	1.2	2.4	3.7	4.9	8.6	12.2	17.1	83.2	1496.2	2161.7	2388.0
67.5°	0.0	0.0	1.2	3.7	7.3	9.8	14.7	61.2	1509.6	2236.3	2538.5
70°	0.0	0.0	1.2	3.7	6.1	9.8	13.5	34.3	1285.7	1997.7	2326.8
72.5°	0.0	0.0	0.0	2.4	6.1	8.6	12.2	25.7	948.1	1506.0	1838.7
75°	0.0	0.0	0.0	1.2	4.9	7.3	11.0	19.6	576.2	1004.4	1200.1
77.5°	0.0	0.0	0.0	1.2	3.7	7.3	11.0	17.1	203.1	478.3	564.0
80°	0.0	0.0	0.0	2.4	4.9	7.3	9.8	14.7	48.9	119.9	161.5
82.5°	0.0	0.0	0.0	1.2	3.7	6.1	8.6	12.2	19.6	35.5	56.3
85°	0.0	0.0	0.0	1.2	2.4	6.1	8.6	11.0	13.5	17.1	24.5
87.5°	0.0	0.0	0.0	0.0	1.2	2.4	3.7	4.9	4.9	4.9	8.6
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):**

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1
2.5°	376.8	381.7	384.1	389.0	391.5	390.3	389.0	392.7	390.3	386.6
5°	390.3	390.3	393.9	395.1	395.1	391.5	393.9	392.7	390.3	390.3
7.5°	404.9	411.0	411.0	403.7	402.5	400.0	400.0	390.3	386.6	390.3
10°	419.6	424.5	425.7	417.2	406.2	401.3	395.1	382.9	376.8	379.2
12.5°	450.2	450.2	436.7	427.0	412.3	395.1	380.5	363.3	354.8	357.2
15°	472.2	477.1	458.8	436.7	411.0	379.2	363.3	349.9	345.0	341.3
17.5°	515.0	505.2	475.9	444.1	407.4	374.3	363.3	351.1	347.4	347.4
20°	551.7	546.8	502.8	445.3	406.2	384.1	376.8	370.7	369.5	365.8
22.5°	601.9	579.9	523.6	458.8	419.6	400.0	397.6	403.7	400.0	397.6
25°	639.8	621.5	539.5	478.3	440.4	434.3	438.0	444.1	434.3	430.6
27.5°	691.2	656.9	570.1	504.0	468.5	474.7	486.9	488.1	482.0	485.7
30°	738.9	702.2	593.3	533.4	516.3	522.4	540.7	554.2	545.6	540.7
32.5°	807.4	751.1	639.8	582.3	576.2	592.1	612.9	621.5	610.5	608.0
35°	879.6	807.4	687.5	637.4	648.4	670.4	688.8	703.4	686.3	693.6
37.5°	992.1	897.9	768.3	724.2	729.1	737.7	771.9	812.3	820.9	806.2
40°	1109.6	995.8	842.9	808.6	819.6	842.9	883.3	921.2	940.8	921.2
42.5°	1245.4	1090.0	957.9	917.5	928.5	961.6	1015.4	1046.0	1043.5	1014.2
45°	1413.0	1220.9	1065.5	1015.4	1055.8	1085.1	1138.9	1142.6	1119.4	1112.0
47.5°	1541.4	1331.0	1181.8	1150.0	1205.0	1206.2	1218.5	1219.7	1194.0	1185.4
50°	1683.3	1458.2	1311.4	1265.0	1357.9	1315.1	1282.1	1260.1	1220.9	1202.6
52.5°	1822.8	1548.8	1431.3	1383.6	1480.3	1366.5	1306.5	1239.3	1181.8	1162.2
55°	1897.4	1698.0	1606.3	1494.9	1507.2	1381.2	1230.7	1146.3	1048.4	1043.5
57.5°	1985.5	1798.3	1754.3	1570.8	1461.9	1278.4	1072.9	961.6	856.3	844.1
60°	2089.5	1957.4	1910.9	1558.6	1301.7	1074.1	850.2	707.1	608.0	599.4
62.5°	2205.7	2145.8	2007.5	1438.7	1033.7	756.0	561.5	441.6	349.9	345.0
65°	2389.2	2303.6	2058.9	1211.1	683.9	484.4	373.1	286.3	231.2	228.8
67.5°	2504.2	2363.5	1943.9	863.7	379.2	320.5	261.8	208.0	160.3	150.5
70°	2341.5	2169.0	1537.8	494.2	220.2	243.4	201.9	139.5	110.1	107.7
72.5°	1870.5	1609.9	1035.0	232.4	137.0	190.8	146.8	94.2	66.1	63.6
75°	1276.0	1012.9	649.6	107.7	96.6	139.5	107.7	55.1	46.5	46.5
77.5°	570.1	516.3	332.8	66.1	72.2	106.4	62.4	37.9	34.3	33.0
80°	173.7	182.3	135.8	45.3	53.8	80.7	37.9	25.7	20.8	19.6
82.5°	58.7	68.5	61.2	26.9	36.7	57.5	25.7	17.1	14.7	14.7
85°	28.1	34.3	30.6	17.1	19.6	28.1	20.8	13.5	8.6	8.6
87.5°	11.0	15.9	11.0	7.3	11.0	14.7	8.6	6.1	2.4	2.4
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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