

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: P673169

Luminaire Tested: **CCP-SA-2B-830-U-T2-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673169  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-830-U-T2-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T2 distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

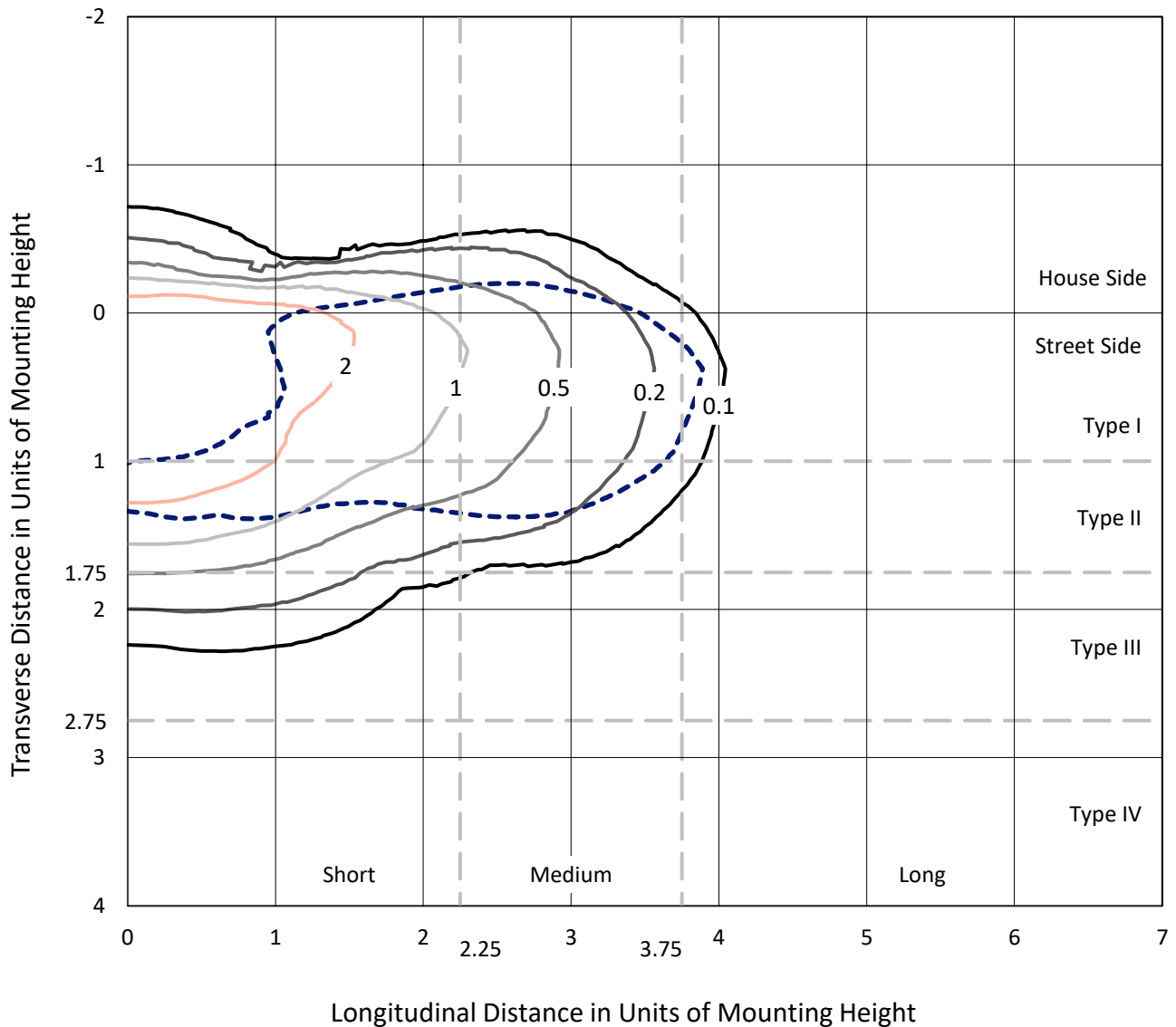
Lumens per Lamp: N/A  
Luminaire Lumens: 4236.7 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 46  
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

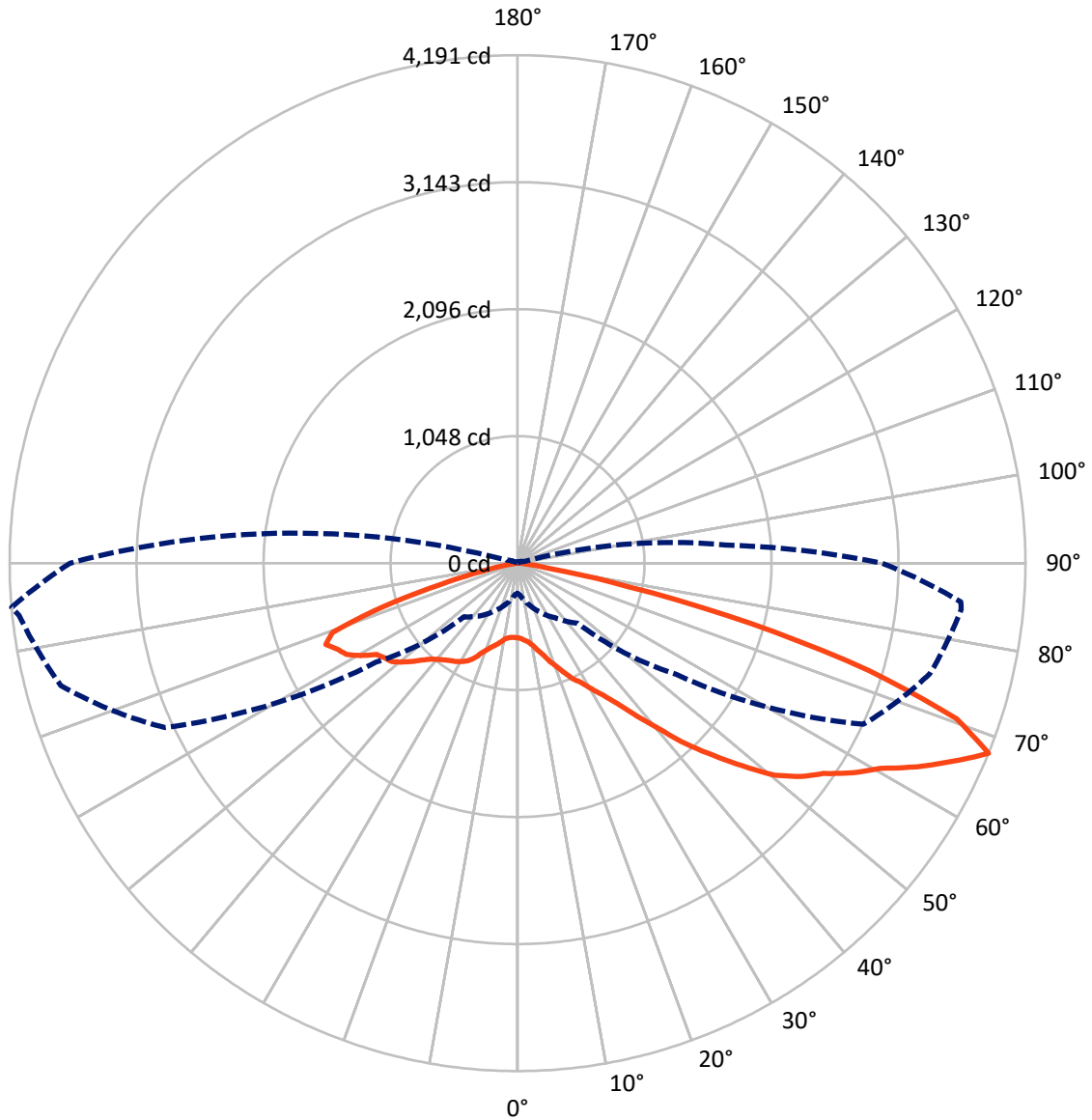
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 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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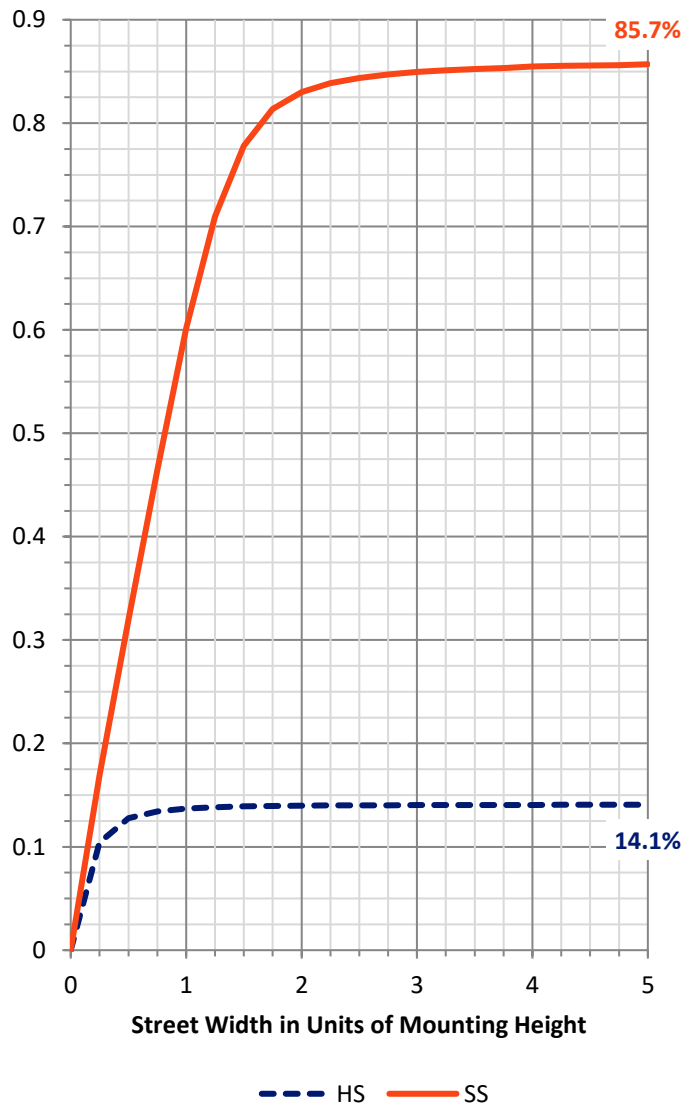
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	601.9	0.0	601.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	3634.8	0.0	3634.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	4236.7	0.0	4236.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.2	1.3
10°-20°	151.1	3.6
20°-30°	250.9	5.9
30°-40°	431.6	10.2
40°-50°	775.6	18.3
50°-60°	1104.2	26.1
60°-70°	1006.6	23.8
70°-80°	428.7	10.1
80°-90°	31.9	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°	4236.7	100.0
0°-180°	4236.7	100.0



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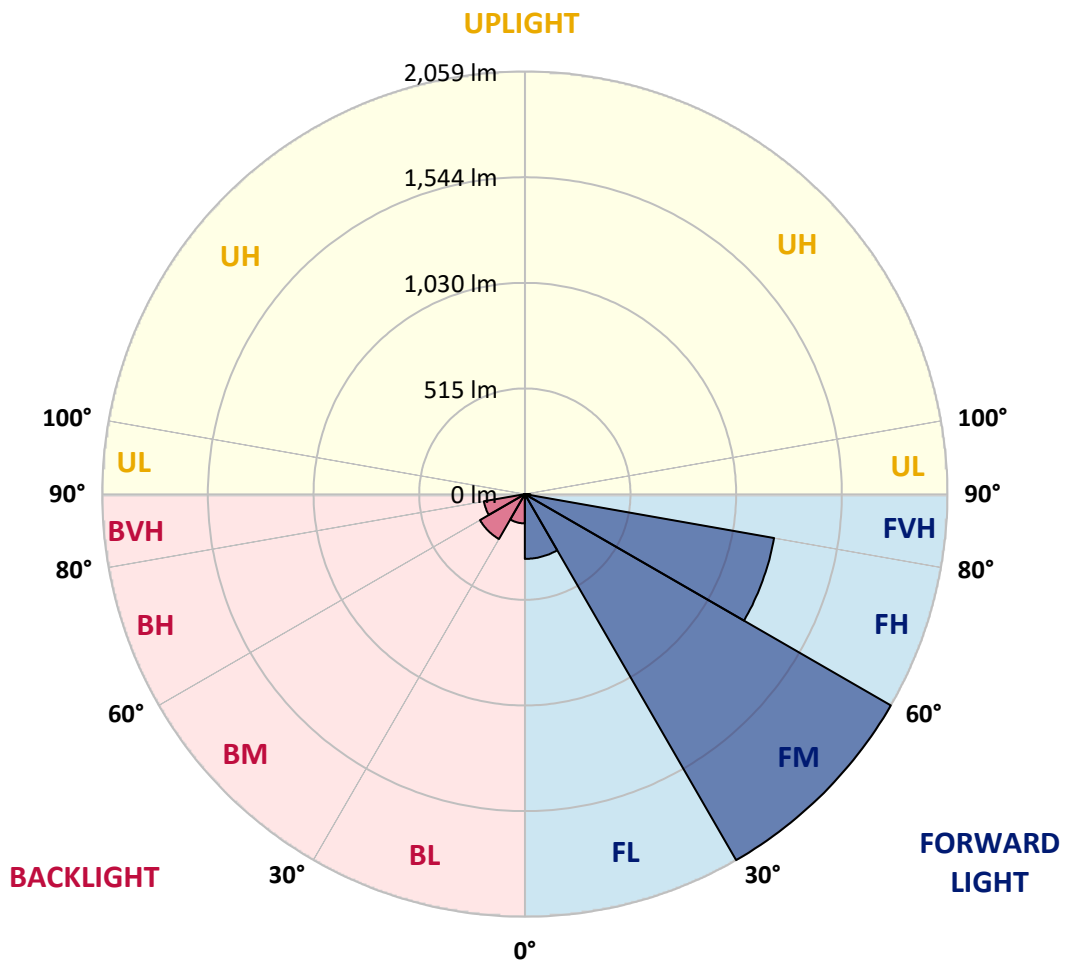
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.6	7.4			
FM (30°-60°)	2059.0	48.6			
FH (60°-80°)	1233.0	29.1			G1/1800
FVH (80°-90°)	27.1	0.6			G1/100
BL (0°-30°)	142.5	3.4	B1/500		
BM (30°-60°)	252.3	6.0	B1/1000		
BH (60°-80°)	202.2	4.8	B1/500		G1/500
BVH (80°-90°)	4.8	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°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	638.3	644.4	644.4	642.3	636.3	632.2	630.2	626.2	622.1	622.1	624.2
5°	644.4	638.3	646.4	636.3	636.3	636.3	644.4	640.3	638.3	628.2	628.2
7.5°	644.4	638.3	638.3	644.4	638.3	642.3	652.4	648.4	656.5	638.3	642.3
10°	626.2	624.2	628.2	636.3	638.3	646.4	656.5	676.7	678.7	666.6	664.6
12.5°	589.8	587.8	601.9	606.0	630.2	650.4	680.7	696.9	715.1	709.0	696.9
15°	563.6	567.6	577.7	593.9	616.1	652.4	686.8	723.1	755.5	747.4	743.3
17.5°	573.7	571.6	573.7	583.8	612.0	648.4	707.0	749.4	795.9	795.9	799.9
20°	604.0	610.0	608.0	601.9	616.1	646.4	707.0	781.7	858.5	852.4	852.4
22.5°	656.5	658.5	646.4	642.3	640.3	658.5	719.1	822.1	911.0	923.1	919.1
25°	711.0	713.0	709.0	696.9	680.7	684.8	741.3	854.4	983.7	1003.9	999.9
27.5°	801.9	799.9	789.8	775.7	751.4	733.2	775.7	878.7	1040.3	1074.6	1064.5
30°	892.8	886.7	872.6	854.4	832.2	797.9	818.1	925.1	1111.0	1143.3	1121.1
32.5°	1003.9	991.8	995.8	967.5	921.1	866.5	862.5	967.5	1167.5	1214.0	1195.8
35°	1145.3	1131.2	1111.0	1084.7	1040.3	967.5	945.3	1036.2	1262.5	1296.8	1296.8
37.5°	1331.1	1345.3	1321.0	1212.0	1163.5	1094.8	1048.3	1106.9	1345.3	1428.1	1407.9
40°	1521.0	1533.1	1488.7	1407.9	1302.9	1218.0	1189.7	1222.1	1470.5	1569.5	1531.1
42.5°	1674.5	1690.7	1674.5	1569.5	1486.7	1377.6	1327.1	1357.4	1632.1	1751.3	1700.8
45°	1836.1	1852.3	1834.1	1765.4	1684.6	1622.0	1494.7	1533.1	1801.8	1979.5	1923.0
47.5°	1957.3	1977.5	1945.2	1931.0	1866.4	1856.3	1640.2	1682.6	1979.5	2209.8	2139.1
50°	1985.6	2007.8	2036.1	2052.2	2030.0	2054.3	1836.1	1872.5	2165.4	2421.9	2353.2
52.5°	1918.9	1941.1	2003.8	2078.5	2181.5	2254.2	2034.1	2064.4	2359.3	2597.6	2561.3
55°	1723.0	1743.2	1870.4	1971.4	2217.9	2337.1	2223.9	2351.2	2498.6	2781.4	2692.6
57.5°	1393.7	1418.0	1585.6	1741.2	2096.7	2290.6	2337.1	2589.5	2728.9	2916.8	2813.8
60°	989.8	1003.9	1149.3	1424.0	1761.4	2058.3	2314.8	2767.3	2910.7	3098.6	3044.0
62.5°	569.6	581.7	733.2	991.8	1329.1	1719.0	2215.9	2934.9	3106.6	3298.5	3268.2
65°	377.7	381.8	484.8	626.2	864.5	1266.5	1965.4	3084.4	3300.6	3458.1	3423.8
67.5°	248.5	270.7	351.5	448.4	553.5	700.9	1601.8	3147.0	3522.7	3680.3	3672.2
70°	177.8	185.8	252.5	345.4	416.1	393.9	937.2	2704.7	3512.6	3740.9	3674.2
72.5°	105.0	113.1	167.7	258.6	327.2	250.5	438.3	1912.9	2910.7	2985.4	2967.3
75°	76.8	76.8	103.0	185.8	238.4	179.8	206.0	1209.9	1933.1	2098.7	2096.7
77.5°	54.5	56.6	70.7	111.1	183.8	131.3	113.1	672.6	1056.4	1155.4	1100.9
80°	32.3	34.3	48.5	66.7	133.3	94.9	74.7	307.0	406.0	410.0	389.8
82.5°	24.2	24.2	32.3	46.5	92.9	64.6	46.5	117.2	131.3	119.2	101.0
85°	14.1	12.1	24.2	34.3	54.5	36.4	32.3	54.5	60.6	44.4	40.4
87.5°	4.0	4.0	10.1	12.1	24.2	20.2	14.1	20.2	28.3	16.2	12.1
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°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	620.1	614.1	604.0	599.9	585.8	579.7	575.7	565.6	567.6	561.5	561.5
5°	614.1	614.1	593.9	571.6	549.4	535.3	519.1	498.9	498.9	490.8	492.9
7.5°	636.3	620.1	593.9	553.5	517.1	484.8	470.6	450.4	438.3	432.3	432.3
10°	650.4	634.3	589.8	541.3	494.9	454.5	424.2	395.9	379.7	379.7	377.7
12.5°	688.8	664.6	606.0	539.3	470.6	410.0	363.6	331.3	309.0	292.9	296.9
15°	721.1	694.9	614.1	523.2	428.2	343.4	286.8	226.2	195.9	179.8	173.7
17.5°	771.6	723.1	632.2	494.9	363.6	268.6	185.8	135.3	123.2	121.2	121.2
20°	814.0	757.5	634.3	440.3	298.9	171.7	119.2	111.1	105.0	103.0	101.0
22.5°	872.6	801.9	626.2	377.7	214.1	115.1	101.0	92.9	88.9	82.8	82.8
25°	933.2	860.5	610.0	319.1	131.3	99.0	88.9	80.8	72.7	68.7	70.7
27.5°	997.8	904.9	563.6	248.5	101.0	86.9	72.7	66.7	62.6	60.6	60.6
30°	1050.4	933.2	494.9	165.6	90.9	76.8	64.6	58.6	54.5	52.5	52.5
32.5°	1088.7	957.4	418.1	111.1	82.8	68.7	58.6	52.5	48.5	46.5	46.5
35°	1153.4	975.6	347.4	94.9	74.7	60.6	50.5	46.5	42.4	42.4	42.4
37.5°	1252.4	999.9	276.7	86.9	68.7	54.5	48.5	42.4	40.4	38.4	38.4
40°	1339.2	1030.2	198.0	78.8	62.6	50.5	42.4	38.4	36.4	34.3	34.3
42.5°	1464.4	1064.5	129.3	70.7	56.6	46.5	38.4	34.3	32.3	30.3	30.3
45°	1624.0	1121.1	101.0	62.6	50.5	42.4	36.4	32.3	28.3	28.3	26.3
47.5°	1793.7	1189.7	90.9	58.6	46.5	38.4	32.3	28.3	26.3	24.2	24.2
50°	1951.2	1256.4	84.8	54.5	42.4	36.4	30.3	26.3	22.2	20.2	20.2
52.5°	2092.6	1319.0	80.8	50.5	40.4	32.3	26.3	22.2	20.2	18.2	18.2
55°	2167.4	1347.3	78.8	48.5	36.4	30.3	24.2	20.2	18.2	16.2	16.2
57.5°	2284.5	1383.6	76.8	46.5	34.3	26.3	22.2	18.2	16.2	14.1	14.1
60°	2474.4	1502.8	74.7	44.4	32.3	26.3	20.2	16.2	12.1	10.1	10.1
62.5°	2632.0	1601.8	66.7	38.4	28.3	22.2	16.2	12.1	8.1	6.1	6.1
65°	2811.7	1648.3	58.6	34.3	24.2	18.2	12.1	8.1	6.1	2.0	2.0
67.5°	3007.7	1719.0	48.5	30.3	22.2	14.1	10.1	6.1	2.0	0.0	0.0
70°	2904.7	1630.1	40.4	26.3	20.2	12.1	8.1	4.0	0.0	0.0	0.0
72.5°	2276.5	1167.5	32.3	24.2	18.2	12.1	8.1	2.0	0.0	0.0	0.0
75°	1521.0	660.5	28.3	20.2	14.1	10.1	6.1	2.0	0.0	0.0	0.0
77.5°	826.1	296.9	24.2	18.2	12.1	8.1	6.1	2.0	0.0	0.0	0.0
80°	268.6	117.2	20.2	16.2	12.1	8.1	6.1	2.0	0.0	0.0	0.0
82.5°	72.7	36.4	20.2	16.2	12.1	8.1	6.1	2.0	0.0	0.0	0.0
85°	30.3	24.2	20.2	16.2	12.1	8.1	6.1	2.0	0.0	0.0	0.0
87.5°	12.1	8.1	8.1	10.1	8.1	6.1	4.0	2.0	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°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	563.6	567.6	569.6	569.6	579.7	589.8	601.9	612.0	612.0	618.1	624.2
5°	494.9	498.9	505.0	523.2	543.4	565.6	587.8	604.0	626.2	636.3	642.3
7.5°	438.3	442.4	458.5	476.7	505.0	543.4	581.7	618.1	640.3	650.4	658.5
10°	379.7	385.8	404.0	436.3	472.7	519.1	563.6	626.2	662.5	682.7	690.8
12.5°	294.9	311.1	335.3	369.6	416.1	486.8	569.6	634.3	696.9	721.1	737.3
15°	185.8	200.0	238.4	292.9	355.5	438.3	553.5	646.4	733.2	757.5	783.7
17.5°	119.2	121.2	133.3	191.9	272.7	377.7	529.2	664.6	773.6	808.0	848.4
20°	101.0	105.0	107.1	115.1	181.8	311.1	478.7	686.8	822.1	868.6	906.9
22.5°	84.8	86.9	90.9	97.0	109.1	226.2	410.0	686.8	864.5	933.2	977.6
25°	68.7	72.7	76.8	82.8	94.9	141.4	339.3	674.7	915.0	999.9	1056.4
27.5°	60.6	60.6	64.6	70.7	80.8	99.0	268.6	638.3	953.4	1040.3	1115.0
30°	52.5	54.5	56.6	62.6	72.7	86.9	185.8	579.7	993.8	1119.0	1203.9
32.5°	46.5	46.5	50.5	54.5	64.6	78.8	119.2	490.8	1046.3	1179.6	1298.8
35°	42.4	42.4	44.4	48.5	58.6	70.7	92.9	416.1	1108.9	1294.8	1426.1
37.5°	38.4	38.4	40.4	44.4	52.5	62.6	84.8	357.5	1173.6	1409.9	1601.8
40°	34.3	34.3	36.4	40.4	46.5	56.6	76.8	288.8	1254.4	1579.6	1793.7
42.5°	30.3	30.3	32.3	36.4	42.4	50.5	66.7	216.1	1361.4	1763.4	2042.1
45°	26.3	26.3	28.3	32.3	36.4	46.5	60.6	165.6	1478.6	1967.4	2260.3
47.5°	22.2	24.2	26.3	30.3	34.3	42.4	54.5	145.4	1593.7	2183.5	2502.7
50°	20.2	20.2	22.2	26.3	32.3	38.4	50.5	143.4	1710.9	2349.2	2751.1
52.5°	18.2	18.2	20.2	24.2	30.3	36.4	48.5	147.5	1807.8	2502.7	2924.9
55°	16.2	16.2	18.2	20.2	26.3	34.3	44.4	151.5	1876.5	2658.2	3064.2
57.5°	14.1	14.1	16.2	20.2	24.2	30.3	40.4	155.5	1987.6	2811.7	3266.2
60°	10.1	10.1	14.1	18.2	22.2	26.3	38.4	159.6	2165.4	3023.8	3437.9
62.5°	6.1	6.1	8.1	14.1	18.2	24.2	34.3	151.5	2331.0	3296.5	3700.5
65°	2.0	4.0	6.1	8.1	14.1	20.2	28.3	137.4	2470.4	3569.2	3942.9
67.5°	0.0	0.0	2.0	6.1	12.1	16.2	24.2	101.0	2492.6	3692.4	4191.3
70°	0.0	0.0	2.0	6.1	10.1	16.2	22.2	56.6	2122.9	3298.5	3841.9
72.5°	0.0	0.0	0.0	4.0	10.1	14.1	20.2	42.4	1565.4	2486.5	3035.9
75°	0.0	0.0	0.0	2.0	8.1	12.1	18.2	32.3	951.4	1658.4	1981.5
77.5°	0.0	0.0	0.0	2.0	6.1	12.1	18.2	28.3	335.3	789.8	931.2
80°	0.0	0.0	0.0	4.0	8.1	12.1	16.2	24.2	80.8	198.0	266.6
82.5°	0.0	0.0	0.0	2.0	6.1	10.1	14.1	20.2	32.3	58.6	92.9
85°	0.0	0.0	0.0	2.0	4.0	10.1	14.1	18.2	22.2	28.3	40.4
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	6.1	8.1	8.1	8.1	14.1
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°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	622.1	630.2	634.3	642.3	646.4	644.4	642.3	648.4	644.4	638.3
5°	644.4	644.4	650.4	652.4	652.4	646.4	650.4	648.4	644.4	644.4
7.5°	668.6	678.7	678.7	666.6	664.6	660.5	660.5	644.4	638.3	644.4
10°	692.8	700.9	702.9	688.8	670.6	662.5	652.4	632.2	622.1	626.2
12.5°	743.3	743.3	721.1	705.0	680.7	652.4	628.2	599.9	585.8	589.8
15°	779.7	787.8	757.5	721.1	678.7	626.2	599.9	577.7	569.6	563.6
17.5°	850.4	834.2	785.8	733.2	672.6	618.1	599.9	579.7	573.7	573.7
20°	911.0	902.9	830.2	735.3	670.6	634.3	622.1	612.0	610.0	604.0
22.5°	993.8	957.4	864.5	757.5	692.8	660.5	656.5	666.6	660.5	656.5
25°	1056.4	1026.1	890.8	789.8	727.2	717.1	723.1	733.2	717.1	711.0
27.5°	1141.3	1084.7	941.3	832.2	773.6	783.7	803.9	805.9	795.9	801.9
30°	1220.0	1159.4	979.7	880.7	852.4	862.5	892.8	915.0	900.9	892.8
32.5°	1333.1	1240.2	1056.4	961.5	951.4	977.6	1012.0	1026.1	1007.9	1003.9
35°	1452.3	1333.1	1135.2	1052.4	1070.6	1106.9	1137.2	1161.5	1133.2	1145.3
37.5°	1638.2	1482.6	1268.5	1195.8	1203.9	1218.0	1274.6	1341.2	1355.4	1331.1
40°	1832.1	1644.2	1391.7	1335.2	1353.3	1391.7	1458.4	1521.0	1553.3	1521.0
42.5°	2056.3	1799.8	1581.6	1514.9	1533.1	1587.7	1676.5	1727.0	1723.0	1674.5
45°	2333.0	2015.9	1759.4	1676.5	1743.2	1791.7	1880.5	1886.6	1848.2	1836.1
47.5°	2545.1	2197.7	1951.2	1898.7	1989.6	1991.6	2011.8	2013.9	1971.4	1957.3
50°	2779.4	2407.7	2165.4	2088.6	2242.1	2171.4	2116.9	2080.5	2015.9	1985.6
52.5°	3009.7	2557.2	2363.3	2284.5	2444.1	2256.3	2157.3	2046.2	1951.2	1918.9
55°	3132.9	2803.7	2652.2	2468.3	2488.5	2280.5	2032.0	1892.7	1731.1	1723.0
57.5°	3278.3	2969.3	2896.6	2593.6	2413.8	2110.8	1771.5	1587.7	1413.9	1393.7
60°	3450.0	3231.9	3155.1	2573.4	2149.2	1773.5	1403.8	1167.5	1003.9	989.8
62.5°	3641.9	3542.9	3314.7	2375.4	1706.8	1248.3	927.1	729.2	577.7	569.6
65°	3944.9	3803.5	3399.5	1999.7	1129.1	799.9	616.1	472.7	381.8	377.7
67.5°	4134.8	3902.5	3209.7	1426.1	626.2	529.2	432.3	343.4	264.6	248.5
70°	3866.1	3581.3	2539.0	816.0	363.6	402.0	333.3	230.3	181.8	177.8
72.5°	3088.5	2658.2	1708.9	383.8	226.2	315.1	242.4	155.5	109.1	105.0
75°	2106.8	1672.5	1072.6	177.8	159.6	230.3	177.8	90.9	76.8	76.8
77.5°	941.3	852.4	549.4	109.1	119.2	175.7	103.0	62.6	56.6	54.5
80°	286.8	301.0	224.2	74.7	88.9	133.3	62.6	42.4	34.3	32.3
82.5°	97.0	113.1	101.0	44.4	60.6	94.9	42.4	28.3	24.2	24.2
85°	46.5	56.6	50.5	28.3	32.3	46.5	34.3	22.2	14.1	14.1
87.5°	18.2	26.3	18.2	12.1	18.2	24.2	14.1	10.1	4.0	4.0
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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