

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: P676141

Luminaire Tested: **CCW-SA-1A-750-U-T1**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676141  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-750-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T1 distribution lens  
Light Source: (16) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

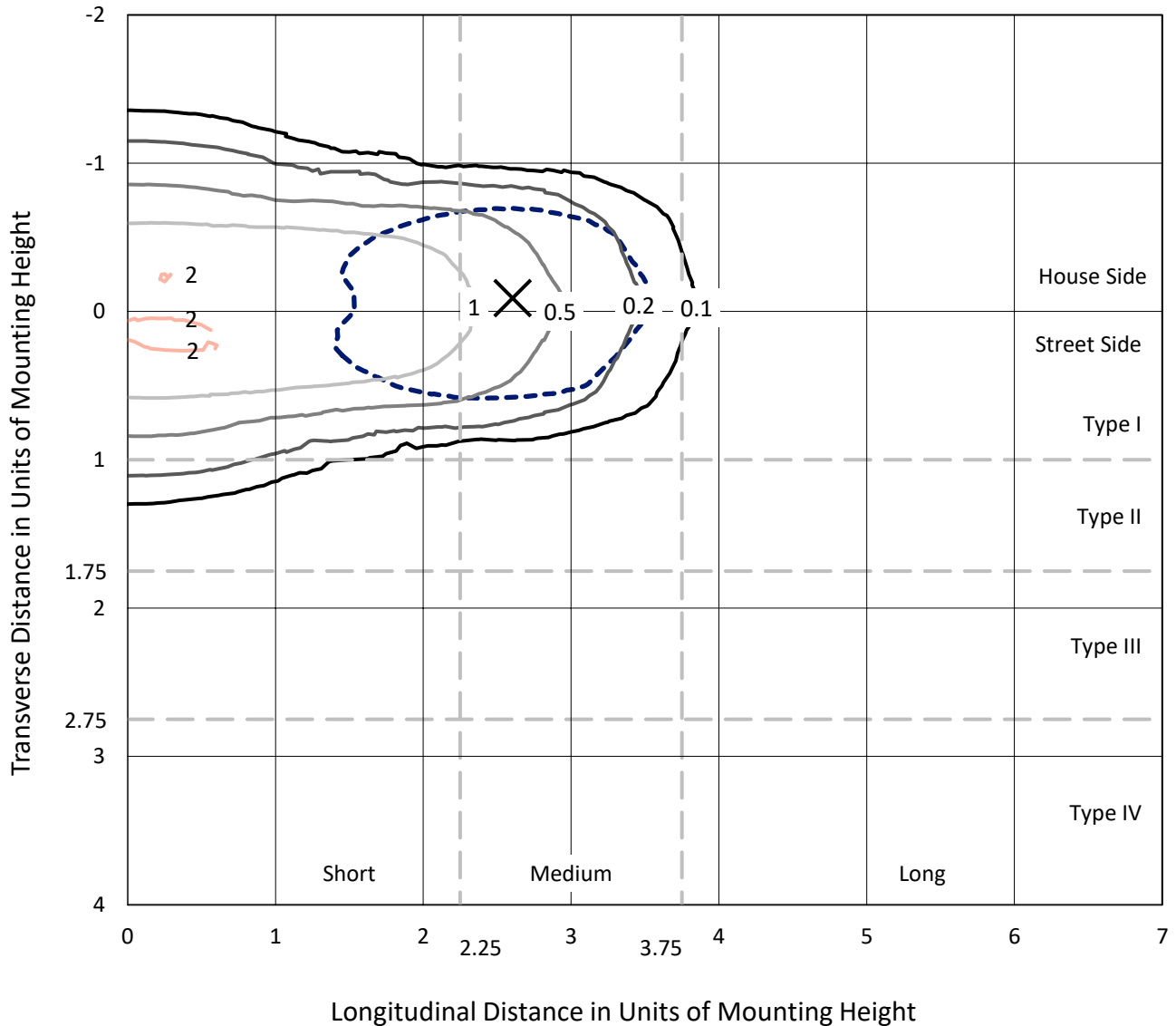
Lumens per Lamp: N/A  
Luminaire Lumens: 2725.1 lumens  
Efficiency: N/A  
Efficacy: 151.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

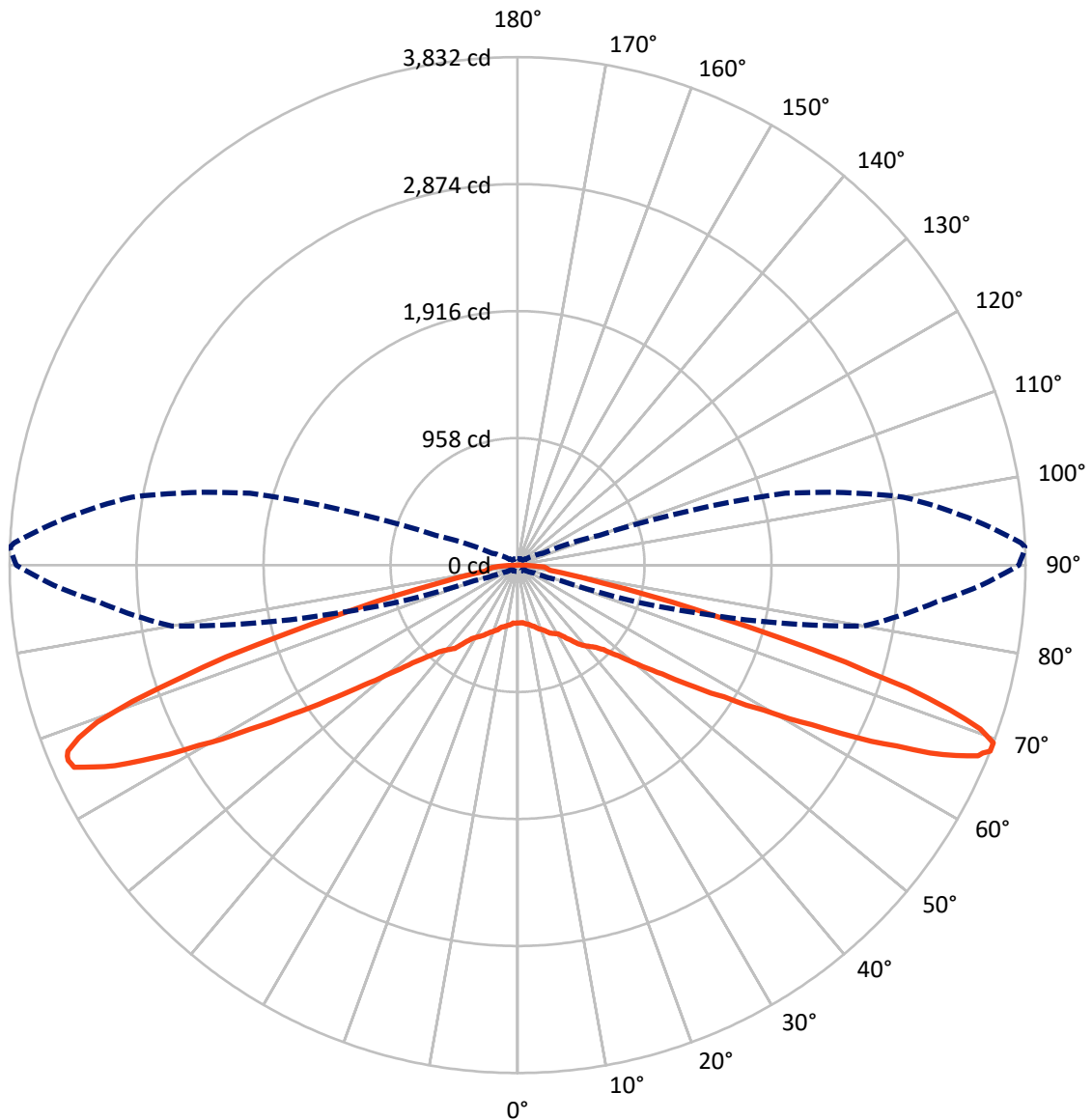
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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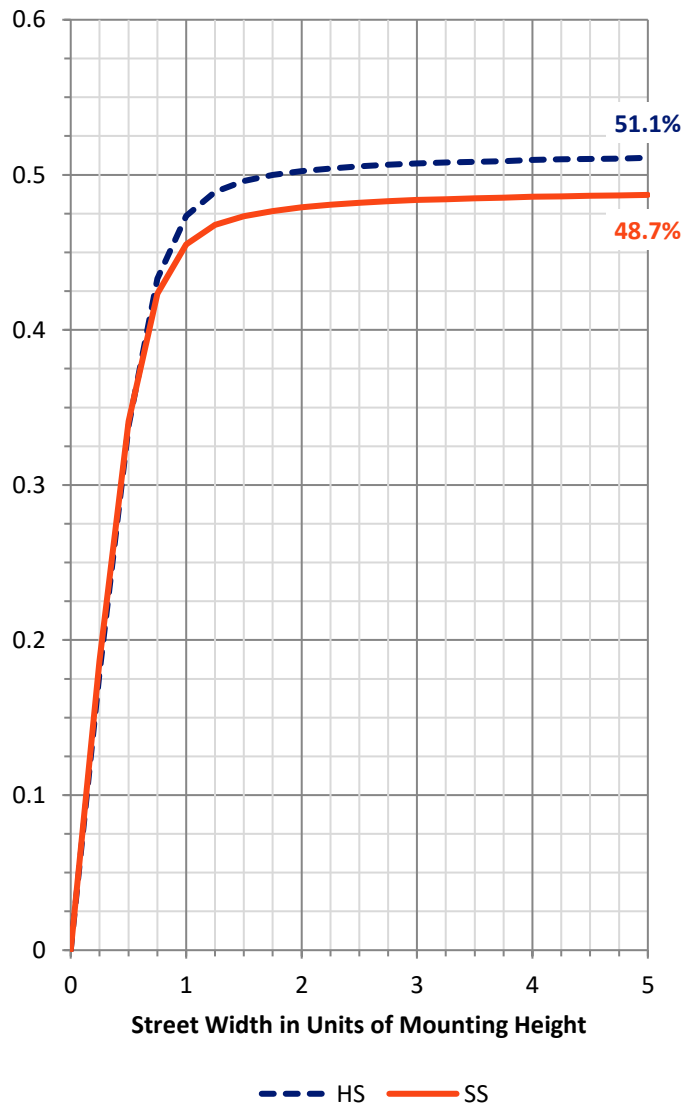
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1403.4	0.0	1403.4
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	1321.7	0.0	1321.7
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	2725.1	0.0	2725.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.7	1.6
10°-20°	141.4	5.2
20°-30°	241.2	8.9
30°-40°	336.9	12.4
40°-50°	428.5	15.7
50°-60°	541.8	19.9
60°-70°	668.2	24.5
70°-80°	291.9	10.7
80°-90°	31.7	1.2
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°	2725.1	100.0
0°-180°	2725.1	100.0

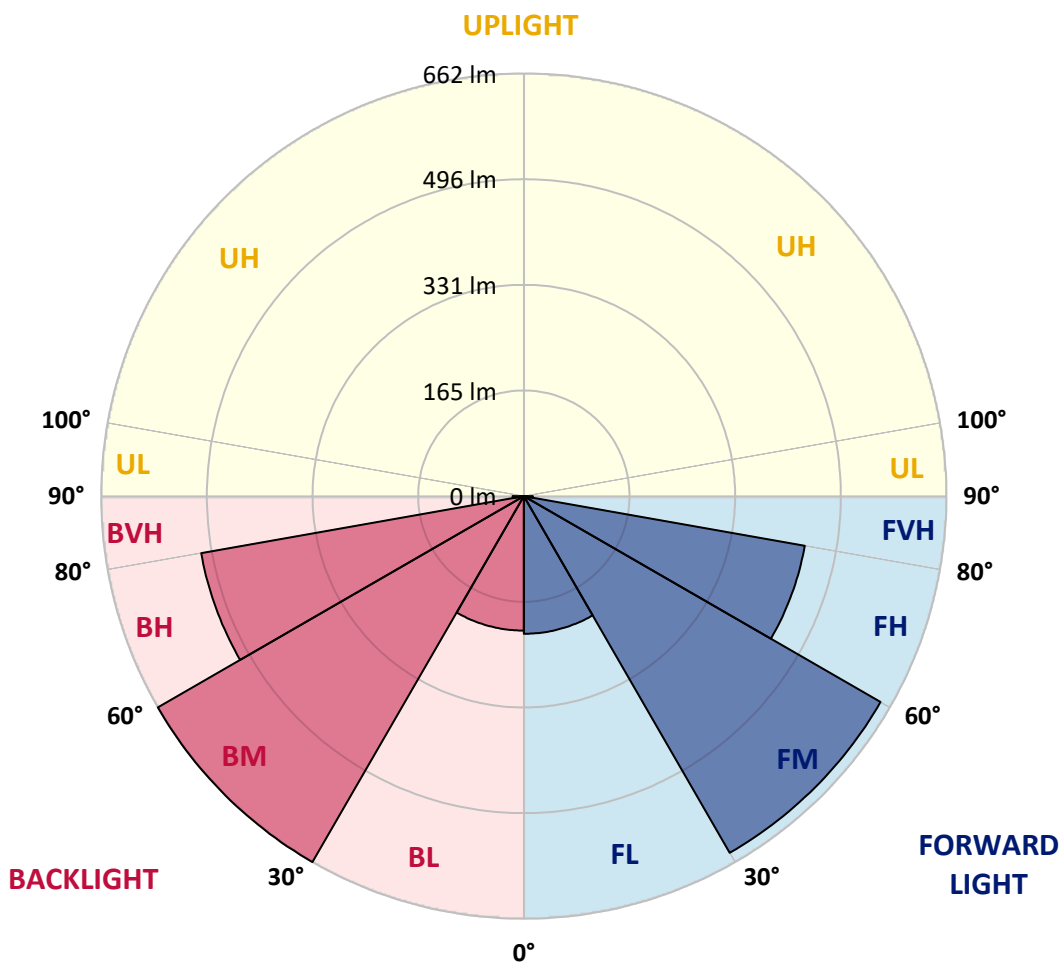


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	215.7	7.9			
FM (30°-60°)	645.1	23.7			
FH (60°-80°)	446.9	16.4			G0/660
FVH (80°-90°)	14.0	0.5			G1/100
BL (0°-30°)	210.6	7.7	B1/500		
BM (30°-60°)	662.0	24.3	B1/1000		
BH (60°-80°)	513.2	18.8	B2/1000		G2/1000
BVH (80°-90°)	17.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8
2.5°	445.0	444.5	446.0	447.0	442.4	443.9	442.9	441.9	438.3	436.8	433.7
5°	457.2	458.8	463.9	459.3	461.3	458.8	450.6	453.2	448.6	447.5	444.5
7.5°	478.7	475.7	482.8	477.7	479.2	474.1	470.5	465.9	464.9	457.8	458.3
10°	483.3	489.5	492.5	491.5	492.5	495.1	488.4	481.3	471.6	469.5	462.4
12.5°	480.3	485.9	494.1	500.7	505.3	506.3	503.8	502.3	498.2	486.4	485.9
15°	477.2	473.1	478.2	501.2	516.6	526.8	530.4	521.7	522.7	507.4	501.2
17.5°	456.7	450.6	470.5	493.0	512.0	534.5	551.9	549.3	549.3	537.0	528.3
20°	429.6	439.9	450.1	478.7	513.5	547.3	580.5	579.0	572.8	569.3	550.3
22.5°	406.6	411.2	430.1	460.3	503.8	550.8	590.2	618.4	604.0	589.7	578.5
25°	390.8	386.7	410.7	441.9	494.6	544.7	608.6	637.8	645.5	634.7	613.2
27.5°	368.3	368.3	387.2	416.8	464.9	541.6	626.5	671.0	682.3	666.4	635.2
30°	342.7	345.7	362.1	395.9	442.9	519.1	633.7	709.4	718.6	704.8	672.6
32.5°	322.7	322.7	341.1	376.9	427.6	508.9	629.1	747.2	764.6	754.4	721.2
35°	301.2	299.7	313.0	352.4	403.0	489.0	627.6	777.4	816.3	816.8	782.0
37.5°	270.6	276.7	293.6	324.8	383.6	469.5	623.0	813.7	883.3	895.1	871.0
40°	250.1	252.7	268.0	302.3	353.4	446.5	616.3	843.4	927.8	968.2	934.9
42.5°	220.4	224.0	235.8	278.2	324.3	413.8	587.2	864.4	991.2	1037.2	1009.1
45°	189.2	191.3	208.7	243.5	293.1	374.9	556.0	898.1	1052.6	1146.7	1130.3
47.5°	151.9	152.9	167.8	204.1	255.7	336.0	507.9	896.6	1102.2	1256.1	1302.2
50°	118.7	121.2	132.5	162.1	210.7	288.5	452.1	884.3	1164.6	1380.9	1471.5
52.5°	94.6	95.1	102.3	125.8	162.6	240.9	392.3	845.4	1223.4	1503.2	1679.1
55°	78.3	78.3	82.3	96.7	124.8	183.1	322.2	781.0	1230.6	1638.2	1905.7
56°	75.2	74.2	77.7	90.0	112.5	165.2	289.5	737.5	1240.8	1700.6	2019.2
57°	71.1	71.6	73.7	82.3	101.3	146.3	253.2	695.1	1233.6	1751.7	2103.1
58°	69.0	68.0	72.1	77.7	89.5	129.9	228.1	645.0	1222.4	1793.7	2225.4
59°	66.0	65.5	68.0	73.1	83.4	115.6	197.4	590.7	1200.4	1847.9	2316.4
60°	65.0	64.4	65.5	69.6	76.7	101.3	173.9	527.3	1141.6	1903.7	2429.4
61°	61.9	62.4	64.4	67.0	72.6	91.0	156.5	462.4	1103.2	1950.7	2554.2
62°	62.4	61.4	62.4	64.4	68.5	83.9	137.1	398.4	1034.7	2003.9	2647.8
63°	59.3	58.8	60.4	62.9	65.0	75.7	119.7	344.2	956.9	2016.2	2727.1
64°	58.3	57.8	58.3	61.9	62.4	71.1	105.9	294.1	844.4	2037.1	2828.9
65°	55.7	55.7	56.8	58.3	60.4	67.0	94.6	255.2	732.4	1981.9	2860.1
66°	53.7	54.2	54.2	56.8	58.3	62.4	86.9	216.9	625.0	1893.9	2890.3
67°	52.2	52.2	52.7	54.7	56.3	58.8	78.3	187.7	527.3	1789.1	2843.7
67.5°	51.1	51.7	51.7	53.7	55.2	58.8	74.7	178.0	471.6	1674.0	2808.9
68°	49.6	50.1	50.1	52.2	53.7	56.8	72.1	162.6	434.7	1599.3	2744.5
69°	48.6	48.1	48.1	50.1	52.2	54.2	67.0	142.2	345.7	1390.7	2650.4
70°	45.5	45.5	46.5	48.1	49.6	51.7	61.9	125.3	292.6	1151.3	2408.0
71°	44.0	43.5	44.0	45.5	47.1	49.6	56.8	111.0	239.4	955.9	2169.6
72°	40.9	41.9	41.9	43.5	45.0	46.5	53.2	96.7	201.0	764.1	1907.2
72.5°	40.4	40.4	40.9	42.5	43.5	46.0	51.1	92.6	183.6	673.6	1797.3
73°	38.9	38.9	39.4	40.9	41.9	44.5	49.6	83.4	167.2	599.4	1591.7
74°	37.3	36.8	36.8	38.9	39.4	41.9	46.5	73.7	140.1	451.6	1277.6
75°	34.8	34.8	35.3	36.3	36.8	38.9	43.0	65.5	118.1	350.3	999.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	28.6	29.2	29.7	30.7	30.7	32.2	35.3	45.5	72.1	177.5	458.8
80°	21.0	22.0	23.5	25.1	24.6	24.6	27.6	32.7	43.0	79.8	175.9
82.5°	16.9	17.9	16.4	18.4	18.4	17.4	19.9	24.0	29.2	39.4	62.9
85°	11.3	11.8	9.7	11.3	10.7	10.7	13.3	14.3	17.9	22.0	31.2
87.5°	5.1	5.1	4.1	4.6	4.6	4.6	6.6	5.1	7.7	10.7	18.4
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):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8
2.5°	436.8	438.8	438.8	436.8	435.3	436.8	435.8	433.2	435.8	436.8	437.3
5°	442.9	438.8	440.9	436.3	439.3	438.8	437.8	440.4	440.9	440.9	444.5
7.5°	449.6	454.7	448.0	448.6	450.1	443.9	446.0	447.0	445.0	449.1	452.1
10°	461.3	463.4	461.3	453.7	458.8	454.7	453.2	457.8	456.7	457.8	462.4
12.5°	472.1	475.7	470.0	469.5	467.0	463.4	465.4	464.9	472.1	473.1	478.7
15°	494.1	484.9	482.8	482.3	481.3	479.7	480.8	481.3	490.5	492.0	505.3
17.5°	513.0	511.5	500.2	504.3	504.3	498.2	495.6	504.3	511.5	519.1	528.3
20°	532.4	530.9	518.6	519.1	514.5	520.2	517.1	525.3	537.5	540.1	548.3
22.5°	555.4	548.8	540.1	541.1	542.7	538.6	536.5	547.8	560.0	567.2	567.7
25°	591.8	574.9	567.7	568.7	566.7	563.6	565.2	579.5	585.6	601.0	597.9
27.5°	611.2	601.5	596.4	584.6	585.1	580.5	586.6	608.1	620.4	632.2	608.6
30°	634.7	628.6	606.1	602.0	601.5	599.4	610.7	638.3	656.7	663.4	629.6
32.5°	680.8	656.2	650.6	647.0	638.8	641.4	647.0	683.3	712.5	710.9	649.0
35°	733.4	716.6	700.7	697.6	696.6	689.4	699.2	741.6	764.1	757.5	656.2
37.5°	817.8	792.3	770.8	759.0	757.0	751.8	774.9	808.6	837.8	811.7	661.8
40°	859.3	830.6	810.7	803.5	805.0	812.2	834.7	886.4	899.1	851.1	666.4
42.5°	918.6	887.4	848.0	844.4	839.8	843.4	886.9	956.4	967.2	904.3	649.0
45°	1023.9	976.9	931.4	910.9	911.9	921.7	989.2	1065.4	1045.4	941.1	621.4
47.5°	1156.9	1087.9	1051.0	1023.4	1036.7	1026.0	1133.4	1194.3	1126.2	987.6	587.7
50°	1356.9	1260.2	1210.1	1176.9	1182.5	1191.7	1300.6	1352.3	1215.7	1010.1	536.0
52.5°	1609.1	1484.8	1411.1	1366.6	1370.7	1390.7	1531.3	1515.5	1318.0	1029.1	467.0
55°	1910.8	1782.9	1640.3	1621.8	1617.2	1664.8	1819.8	1686.3	1410.1	998.9	395.4
56°	2070.4	1934.3	1786.0	1748.2	1736.9	1770.2	1952.2	1771.7	1441.8	965.1	361.1
57°	2205.9	2076.0	1913.4	1848.9	1863.2	1925.6	2083.7	1852.0	1471.0	930.3	328.9
58°	2392.1	2243.8	2071.9	2022.8	2010.0	2059.6	2225.4	1932.8	1480.7	894.5	299.2
59°	2577.8	2399.8	2244.8	2155.3	2158.9	2249.4	2365.0	2029.0	1495.5	849.0	261.4
60°	2718.9	2629.4	2422.3	2355.3	2346.1	2477.0	2504.1	2093.4	1511.4	787.6	234.8
61°	2918.9	2802.3	2609.5	2523.0	2548.1	2652.9	2654.5	2174.2	1487.8	709.9	202.0
62°	3062.6	3031.9	2829.4	2747.0	2739.4	2878.5	2811.0	2245.3	1467.4	636.3	178.5
63°	3230.9	3230.9	3046.3	2981.8	2985.4	3095.4	2879.0	2316.4	1443.9	554.9	157.0
64°	3318.3	3428.3	3258.0	3167.5	3191.0	3286.1	3000.2	2362.9	1371.2	472.6	138.1
65°	3394.0	3559.2	3464.6	3422.7	3386.9	3443.1	3105.1	2406.4	1260.2	402.0	122.8
66°	3458.0	3682.5	3651.3	3606.3	3602.7	3589.9	3125.5	2404.9	1145.7	339.6	107.4
67°	3425.8	3685.1	3741.8	3760.8	3755.1	3620.1	3089.7	2350.2	998.9	286.9	95.6
67.5°	3396.6	3664.1	3796.1	3785.3	3808.8	3645.7	3095.9	2283.2	894.5	259.8	90.0
68°	3371.0	3636.0	3818.0	3831.9	3820.1	3648.8	3062.1	2230.0	823.4	244.0	84.9
69°	3177.2	3502.5	3782.8	3832.4	3802.2	3531.6	2954.7	2091.4	654.2	208.2	78.3
70°	2982.8	3329.6	3611.4	3702.5	3665.1	3305.1	2819.2	1870.9	539.6	178.0	70.6
71°	2713.8	3008.4	3383.3	3438.0	3393.0	3047.3	2538.9	1638.2	419.9	150.9	62.9
72°	2348.6	2598.7	2956.7	3089.2	3022.7	2676.5	2255.5	1353.8	340.1	126.8	57.3
72.5°	2167.6	2423.8	2769.0	2779.8	2792.6	2515.4	2135.3	1189.1	296.6	117.6	55.7
73°	1995.7	2246.8	2545.5	2583.4	2529.2	2243.8	1955.8	1063.3	271.1	107.4	53.7
74°	1617.2	1760.4	2008.0	2044.8	1997.2	1829.5	1598.3	815.3	215.8	92.6	49.1
75°	1272.5	1351.3	1575.3	1552.8	1481.7	1422.9	1239.3	623.0	174.9	81.3	45.5



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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	571.8	619.4	656.7	656.7	660.8	630.6	571.3	285.9	107.9	58.8	37.3
80°	217.9	244.0	252.1	252.7	256.2	265.4	247.0	140.7	63.9	41.9	30.2
82.5°	158.0	221.0	237.8	225.6	226.6	204.6	94.6	62.4	40.4	29.2	22.0
85°	143.2	192.3	203.6	202.0	202.5	189.2	55.7	30.7	23.5	18.4	15.3
87.5°	69.6	68.0	72.1	81.3	79.3	102.8	47.1	15.3	10.2	7.7	7.7
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):**

	135°	145°	155°	165°	175°	180°
0°	435.8	435.8	435.8	435.8	435.8	435.8
2.5°	433.2	432.7	439.9	432.7	436.8	433.7
5°	438.3	440.4	441.9	445.0	437.8	445.0
7.5°	453.7	455.7	456.2	458.8	455.7	455.2
10°	465.4	470.5	473.6	463.4	469.5	469.0
12.5°	488.4	483.3	482.8	480.8	475.1	473.1
15°	504.8	497.1	492.5	484.4	477.7	475.1
17.5°	527.8	513.0	494.1	477.2	465.4	456.2
20°	542.1	515.6	477.7	457.8	439.9	443.9
22.5°	551.4	513.0	462.9	437.3	419.4	424.5
25°	554.4	500.2	452.6	420.9	403.5	400.0
27.5°	545.7	485.4	432.7	396.9	381.5	384.6
30°	541.6	463.9	414.3	379.0	358.5	361.6
32.5°	530.9	441.9	389.7	353.9	339.1	334.0
35°	515.6	423.5	366.2	332.4	314.5	310.5
37.5°	496.6	400.5	345.7	304.8	289.0	285.9
40°	468.5	372.9	316.1	280.8	262.4	261.9
42.5°	443.9	346.3	288.5	252.1	233.7	234.8
45°	412.7	310.5	256.8	225.6	207.1	208.2
47.5°	372.9	277.2	226.6	191.8	176.5	175.4
50°	325.8	239.4	189.8	160.1	147.3	144.7
52.5°	280.8	201.0	155.5	128.9	118.1	117.1
55°	224.0	156.5	121.2	101.3	93.1	93.6
56°	203.6	144.2	110.5	92.6	86.4	86.4
57°	184.1	127.9	100.2	85.4	79.8	79.8
58°	162.6	112.5	91.0	77.2	74.7	72.6
59°	147.8	102.3	82.3	73.1	69.0	68.5
60°	130.4	92.1	76.7	68.5	65.5	65.0
61°	115.6	82.9	70.6	63.9	62.9	62.9
62°	103.3	76.7	65.5	61.9	61.4	59.8
63°	92.6	70.6	62.9	58.8	57.3	58.8
64°	82.9	65.0	60.9	57.8	55.7	56.8
65°	75.2	62.4	58.3	56.3	54.2	54.7
66°	70.1	58.3	56.3	53.7	52.7	53.2
67°	63.4	56.3	54.2	51.7	51.1	51.7
67.5°	61.4	54.7	53.2	50.6	50.1	50.6
68°	59.8	53.7	52.7	50.1	49.6	49.1
69°	55.7	51.7	50.1	49.1	48.1	47.6
70°	52.2	49.6	48.6	47.1	46.0	45.5
71°	50.1	47.1	46.5	45.0	44.0	43.5
72°	47.6	45.5	44.5	42.5	41.9	42.5
72.5°	47.1	44.5	44.0	41.9	41.4	41.4
73°	45.5	42.5	43.0	40.9	39.9	40.9
74°	42.5	41.4	40.4	38.9	38.4	38.4
75°	39.9	38.9	37.8	36.8	36.8	36.8



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**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
77.5°	33.8	33.2	33.8	31.7	31.2	30.7
80°	27.1	27.1	27.6	26.1	25.1	24.6
82.5°	20.5	21.0	22.0	20.5	19.4	18.4
85°	13.3	13.8	13.8	12.3	14.3	13.3
87.5°	6.6	7.2	6.6	6.1	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)