

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: P676142

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676142  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-750-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T1 distribution lens  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

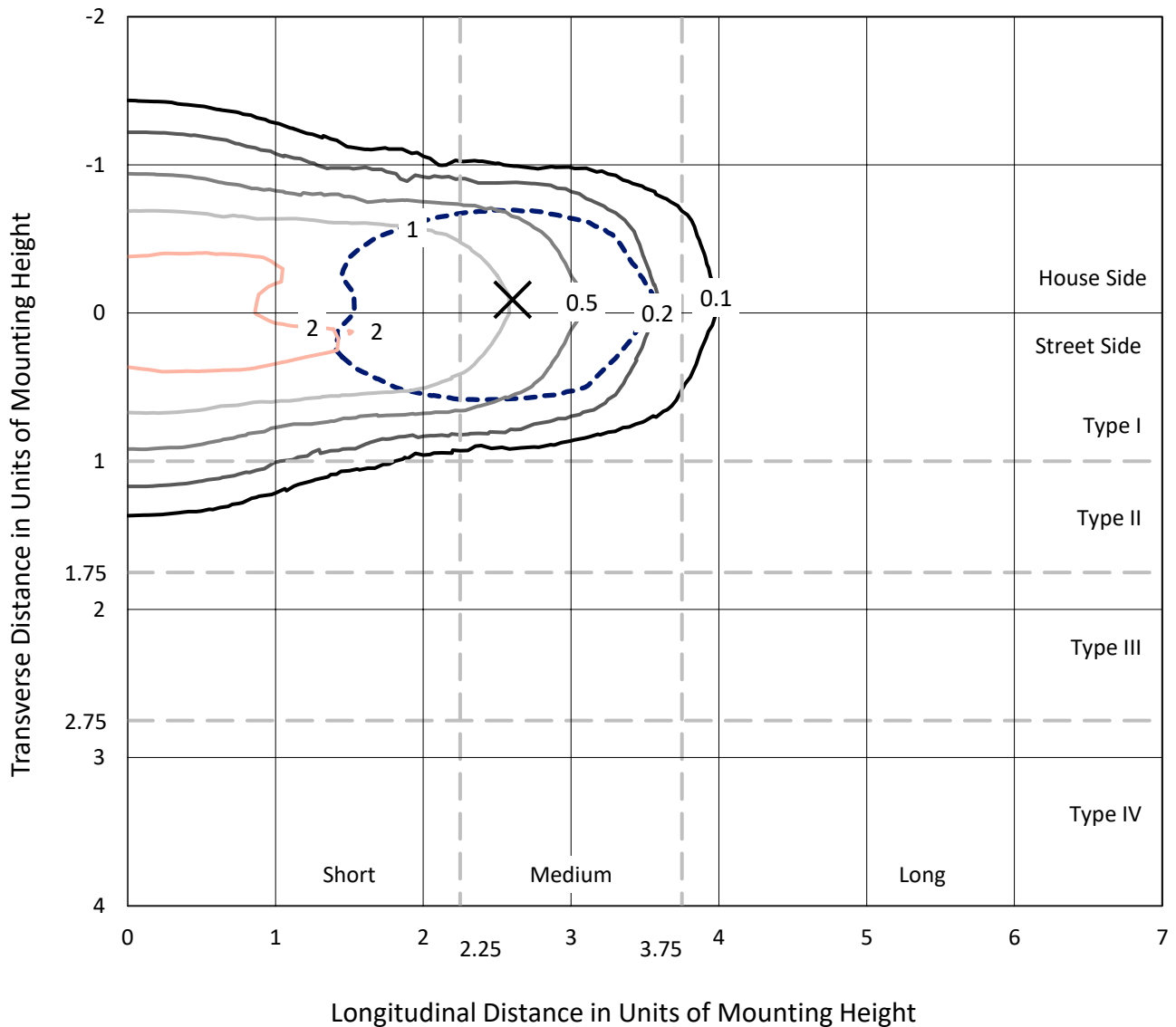
Lumens per Lamp: N/A  
Luminaire Lumens: 3440.1 lumens  
Efficiency: N/A  
Efficacy: 143.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

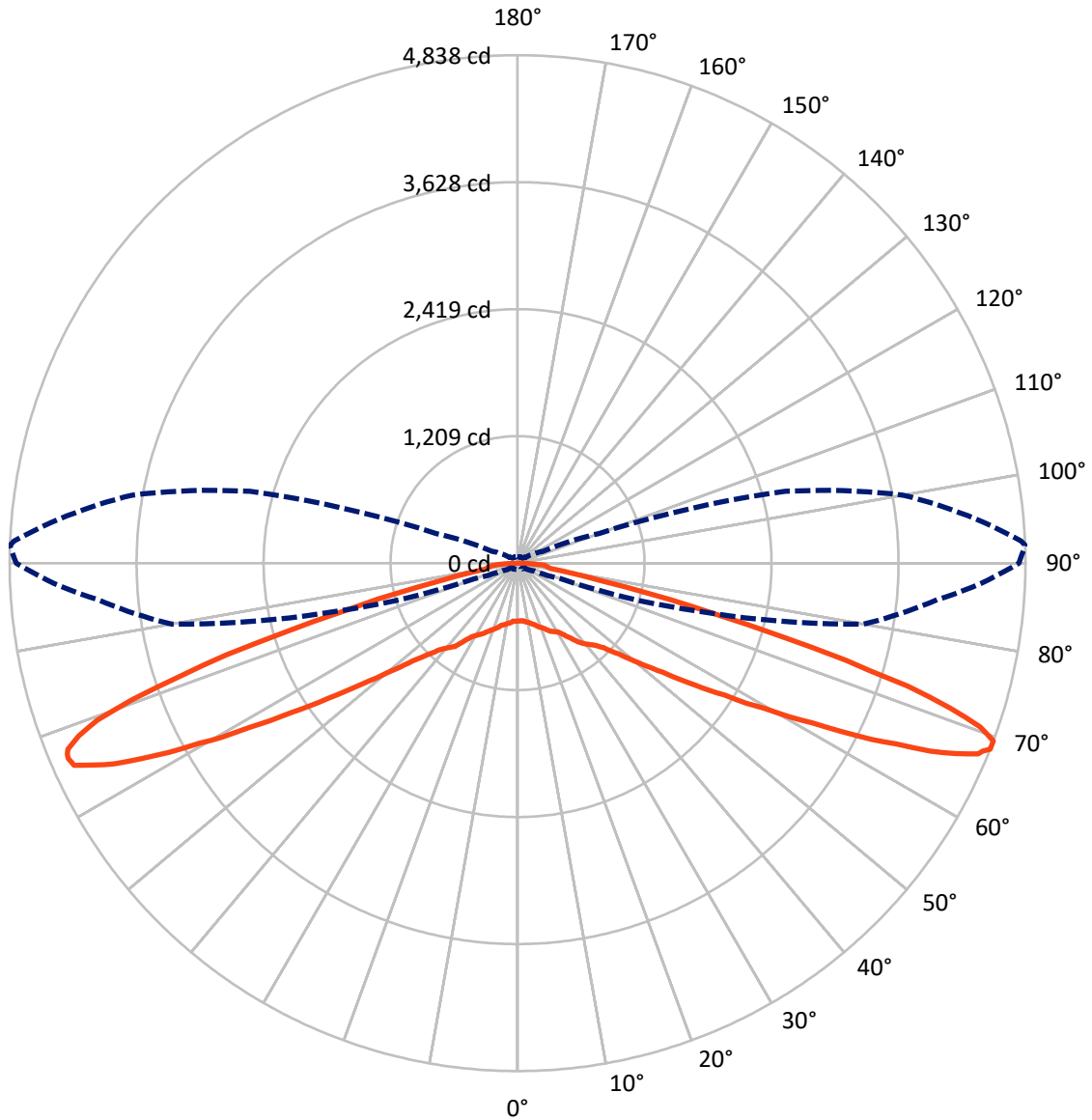
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 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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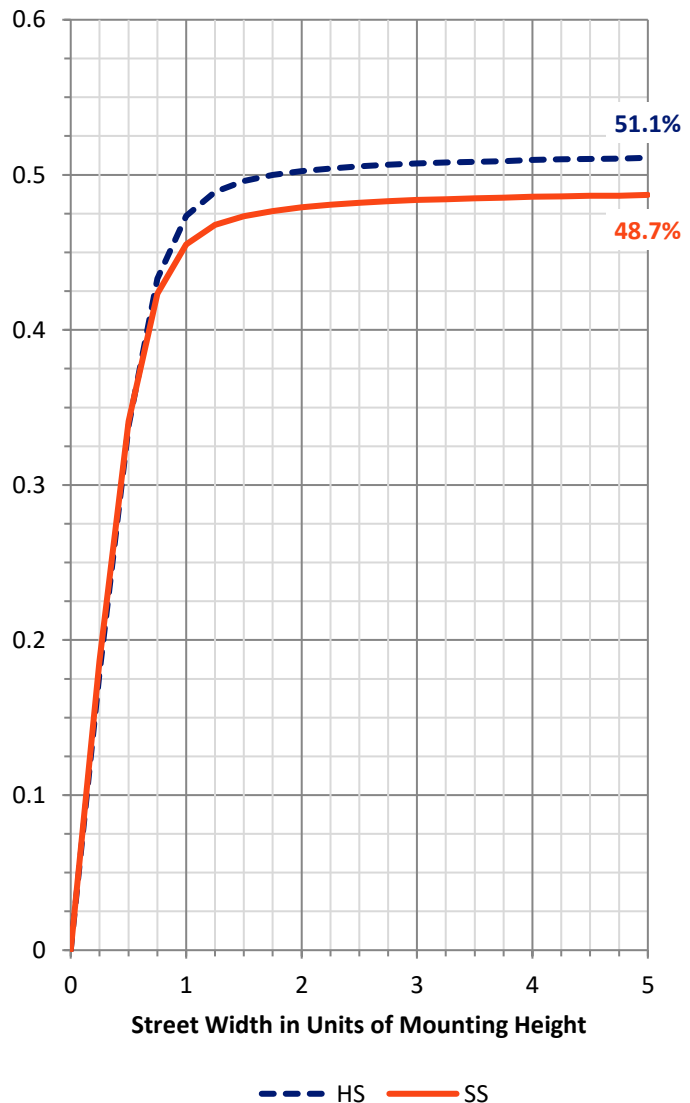
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1771.6	0.0	1771.6
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	1668.5	0.0	1668.5
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	3440.1	0.0	3440.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	1.6
10°-20°	178.5	5.2
20°-30°	304.5	8.9
30°-40°	425.2	12.4
40°-50°	540.9	15.7
50°-60°	683.9	19.9
60°-70°	843.5	24.5
70°-80°	368.5	10.7
80°-90°	40.0	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°	3440.1	100.0
0°-180°	3440.1	100.0



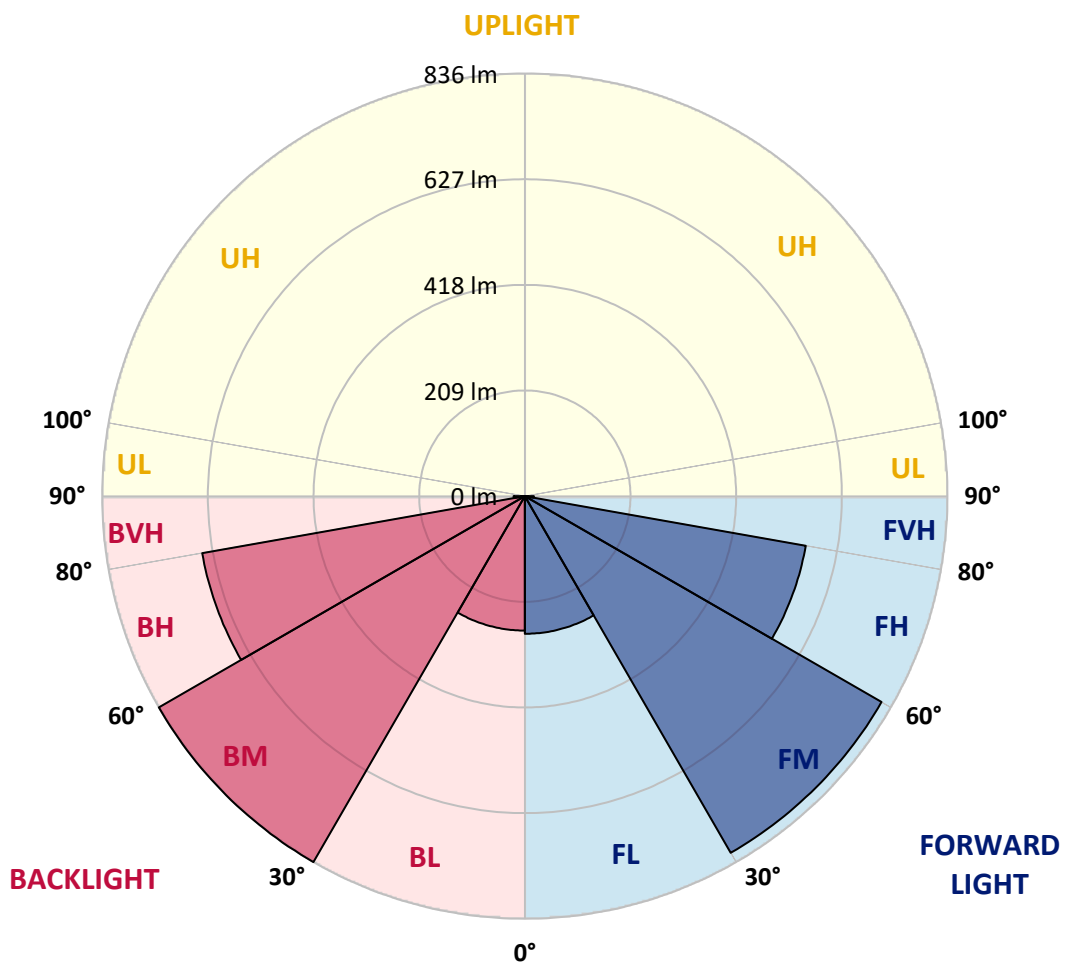
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	272.2	7.9			
FM (30°-60°)	814.4	23.7			
FH (60°-80°)	564.1	16.4			G0/660
FVH (80°-90°)	17.7	0.5			G1/100
BL (0°-30°)	265.9	7.7	B1/500		
BM (30°-60°)	835.7	24.3	B1/1000		
BH (60°-80°)	647.8	18.8	B2/1000		G2/1000
BVH (80°-90°)	22.2	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°	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1
2.5°	561.7	561.1	563.0	564.3	558.5	560.4	559.1	557.8	553.3	551.4	547.5
5°	577.2	579.1	585.6	579.8	582.4	579.1	568.8	572.0	566.2	564.9	561.1
7.5°	604.3	600.5	609.5	603.0	605.0	598.5	594.0	588.2	586.9	577.9	578.5
10°	610.1	617.9	621.8	620.5	621.8	625.0	616.6	607.6	595.3	592.7	583.7
12.5°	606.3	613.4	623.7	632.1	637.9	639.2	636.0	634.0	628.9	614.0	613.4
15°	602.4	597.2	603.7	632.7	652.1	665.0	669.5	658.6	659.9	640.5	632.7
17.5°	576.6	568.8	594.0	622.4	646.3	674.7	696.7	693.4	693.4	677.9	667.0
20°	542.3	555.3	568.2	604.3	648.2	690.8	732.8	730.9	723.1	718.6	694.7
22.5°	513.3	519.1	543.0	581.1	636.0	695.4	745.1	780.6	762.5	744.4	730.2
25°	493.3	488.1	518.5	557.8	624.3	687.6	768.3	805.1	814.8	801.3	774.1
27.5°	464.9	464.9	488.8	526.2	586.9	683.7	790.9	847.1	861.3	841.3	801.9
30°	432.6	436.5	457.1	499.7	559.1	655.3	800.0	895.5	907.1	889.7	849.0
32.5°	407.4	407.4	430.6	475.8	539.8	642.4	794.1	943.3	965.2	952.3	910.4
35°	380.3	378.4	395.1	444.9	508.8	617.2	792.2	981.4	1030.5	1031.1	987.2
37.5°	341.5	349.3	370.6	410.0	484.2	592.7	786.4	1027.2	1115.0	1129.9	1099.5
40°	315.7	319.0	338.3	381.6	446.1	563.7	778.0	1064.7	1171.2	1222.2	1180.2
42.5°	278.3	282.8	297.6	351.2	409.3	522.3	741.2	1091.1	1251.3	1309.4	1273.9
45°	238.9	241.5	263.4	307.3	370.0	473.3	701.8	1133.8	1328.7	1447.5	1426.9
47.5°	191.8	193.0	211.8	257.6	322.8	424.2	641.1	1131.8	1391.4	1585.7	1643.8
50°	149.8	153.0	167.2	204.7	266.0	364.1	570.8	1116.3	1470.1	1743.3	1857.5
52.5°	119.4	120.1	129.1	158.8	205.3	304.1	495.2	1067.3	1544.4	1897.6	2119.7
55°	98.8	98.8	103.9	122.0	157.5	231.1	406.8	985.9	1553.4	2068.0	2405.7
56°	94.9	93.6	98.1	113.6	142.0	208.5	365.4	931.0	1566.3	2146.8	2549.0
57°	89.7	90.4	93.0	103.9	127.8	184.7	319.6	877.4	1557.3	2211.4	2654.9
58°	87.2	85.9	91.0	98.1	113.0	164.0	288.0	814.2	1543.1	2264.3	2809.2
59°	83.3	82.6	85.9	92.3	105.2	145.9	249.2	745.7	1515.3	2332.7	2924.1
60°	82.0	81.4	82.6	87.8	96.8	127.8	219.5	665.7	1441.1	2403.1	3066.8
61°	78.1	78.8	81.4	84.6	91.7	114.9	197.6	583.7	1392.7	2462.5	3224.4
62°	78.8	77.5	78.8	81.4	86.5	105.9	173.0	503.0	1306.1	2529.7	3342.5
63°	74.9	74.2	76.2	79.4	82.0	95.6	151.1	434.5	1208.0	2545.2	3442.6
64°	73.6	73.0	73.6	78.1	78.8	89.7	133.6	371.2	1066.0	2571.6	3571.1
65°	70.4	70.4	71.7	73.6	76.2	84.6	119.4	322.2	924.6	2501.9	3610.5
66°	67.8	68.4	68.4	71.7	73.6	78.8	109.8	273.8	789.0	2390.8	3648.6
67°	65.9	65.9	66.5	69.1	71.0	74.2	98.8	237.0	665.7	2258.5	3589.8
67.5°	64.6	65.2	65.2	67.8	69.7	74.2	94.3	224.7	595.3	2113.2	3545.9
68°	62.6	63.3	63.3	65.9	67.8	71.7	91.0	205.3	548.8	2018.9	3464.6
69°	61.3	60.7	60.7	63.3	65.9	68.4	84.6	179.5	436.5	1755.5	3345.8
70°	57.5	57.5	58.8	60.7	62.6	65.2	78.1	158.2	369.3	1453.4	3039.7
71°	55.5	54.9	55.5	57.5	59.4	62.6	71.7	140.1	302.2	1206.7	2738.8
72°	51.7	52.9	52.9	54.9	56.8	58.8	67.1	122.0	253.7	964.6	2407.6
72.5°	51.0	51.0	51.7	53.6	54.9	58.1	64.6	116.9	231.8	850.3	2268.8
73°	49.1	49.1	49.7	51.7	52.9	56.2	62.6	105.2	211.1	756.7	2009.3
74°	47.1	46.5	46.5	49.1	49.7	52.9	58.8	93.0	176.9	570.1	1612.8
75°	43.9	43.9	44.5	45.8	46.5	49.1	54.2	82.6	149.1	442.3	1261.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	36.2	36.8	37.4	38.7	38.7	40.7	44.5	57.5	91.0	224.0	579.1
80°	26.5	27.8	29.7	31.6	31.0	31.0	34.9	41.3	54.2	100.7	222.1
82.5°	21.3	22.6	20.7	23.2	23.2	22.0	25.2	30.3	36.8	49.7	79.4
85°	14.2	14.8	12.3	14.2	13.6	13.6	16.8	18.1	22.6	27.8	39.4
87.5°	6.5	6.5	5.2	5.8	5.8	5.8	8.4	6.5	9.7	13.6	23.2
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°	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1
2.5°	551.4	554.0	554.0	551.4	549.4	551.4	550.1	546.9	550.1	551.4	552.0
5°	559.1	554.0	556.6	550.7	554.6	554.0	552.7	555.9	556.6	556.6	561.1
7.5°	567.5	574.0	565.6	566.2	568.2	560.4	563.0	564.3	561.7	566.9	570.8
10°	582.4	585.0	582.4	572.7	579.1	574.0	572.0	577.9	576.6	577.9	583.7
12.5°	595.9	600.5	593.4	592.7	589.5	585.0	587.5	586.9	595.9	597.2	604.3
15°	623.7	612.1	609.5	608.8	607.6	605.6	606.9	607.6	619.2	621.1	637.9
17.5°	647.6	645.6	631.4	636.6	636.6	628.9	625.6	636.6	645.6	655.3	667.0
20°	672.1	670.2	654.7	655.3	649.5	656.6	652.8	663.1	678.6	681.8	692.1
22.5°	701.2	692.8	681.8	683.1	685.0	679.9	677.3	691.5	707.0	716.0	716.7
25°	747.0	725.7	716.7	718.0	715.4	711.5	713.4	731.5	739.3	758.6	754.8
27.5°	771.6	759.3	752.8	738.0	738.6	732.8	740.6	767.7	783.2	798.0	768.3
30°	801.3	793.5	765.1	759.9	759.3	756.7	770.9	805.8	829.0	837.4	794.8
32.5°	859.4	828.4	821.3	816.7	806.4	809.6	816.7	862.6	899.4	897.5	819.3
35°	925.9	904.6	884.5	880.7	879.4	870.3	882.6	936.2	964.6	956.2	828.4
37.5°	1032.4	1000.1	973.0	958.1	955.6	949.1	978.2	1020.8	1057.6	1024.6	835.5
40°	1084.7	1048.5	1023.4	1014.3	1016.3	1025.3	1053.7	1118.9	1135.1	1074.4	841.3
42.5°	1159.6	1120.2	1070.5	1066.0	1060.2	1064.7	1119.6	1207.4	1220.9	1141.5	819.3
45°	1292.6	1233.2	1175.7	1149.9	1151.2	1163.5	1248.7	1344.9	1319.7	1188.0	784.5
47.5°	1460.5	1373.3	1326.8	1291.9	1308.7	1295.2	1430.8	1507.6	1421.7	1246.7	741.9
50°	1712.9	1590.9	1527.6	1485.6	1492.7	1504.4	1641.9	1707.1	1534.7	1275.2	676.6
52.5°	2031.2	1874.3	1781.3	1725.2	1730.3	1755.5	1933.1	1913.1	1663.8	1299.0	589.5
55°	2412.1	2250.7	2070.6	2047.4	2041.5	2101.6	2297.2	2128.7	1780.1	1261.0	499.1
56°	2613.6	2441.8	2254.6	2206.8	2192.6	2234.6	2464.4	2236.5	1820.1	1218.3	455.8
57°	2784.7	2620.7	2415.4	2334.0	2352.1	2430.9	2630.4	2337.9	1856.9	1174.4	415.2
58°	3019.7	2832.5	2615.5	2553.5	2537.4	2600.0	2809.2	2439.9	1869.2	1129.2	377.7
59°	3254.1	3029.4	2833.8	2720.8	2725.3	2839.6	2985.5	2561.3	1887.9	1071.8	329.9
60°	3432.3	3319.3	3057.8	2973.2	2961.6	3126.9	3161.1	2642.6	1907.9	994.3	296.4
61°	3684.7	3537.5	3294.1	3185.0	3216.6	3349.0	3350.9	2744.7	1878.2	896.2	255.0
62°	3866.2	3827.4	3571.7	3467.8	3458.1	3633.7	3548.5	2834.4	1852.4	803.2	225.3
63°	4078.6	4078.6	3845.5	3764.1	3768.7	3907.5	3634.4	2924.1	1822.7	700.5	198.2
64°	4189.0	4327.8	4112.8	3998.5	4028.2	4148.3	3787.4	2982.9	1731.0	596.6	174.3
65°	4284.5	4493.1	4373.6	4320.7	4275.5	4346.5	3919.7	3037.8	1590.9	507.5	155.0
66°	4365.2	4648.7	4609.3	4552.5	4548.0	4531.8	3945.6	3035.8	1446.3	428.7	135.6
67°	4324.6	4651.9	4723.6	4747.5	4740.4	4569.9	3900.4	2966.8	1261.0	362.2	120.7
67.5°	4287.8	4625.4	4792.0	4778.5	4808.2	4602.2	3908.1	2882.2	1129.2	328.0	113.6
68°	4255.5	4589.9	4819.8	4837.2	4822.4	4606.1	3865.5	2815.0	1039.5	308.0	107.2
69°	4010.8	4421.4	4775.2	4837.9	4799.8	4458.2	3729.9	2640.1	825.8	262.8	98.8
70°	3765.4	4203.2	4558.9	4673.9	4626.7	4172.2	3558.8	2361.8	681.2	224.7	89.1
71°	3425.8	3797.7	4271.0	4340.1	4283.2	3846.8	3205.0	2068.0	530.1	190.5	79.4
72°	2964.8	3280.5	3732.5	3899.7	3815.8	3378.7	2847.3	1709.0	429.4	160.1	72.3
72.5°	2736.3	3059.7	3495.5	3509.1	3525.2	3175.3	2695.6	1501.1	374.5	148.5	70.4
73°	2519.3	2836.3	3213.4	3261.2	3192.7	2832.5	2469.0	1342.3	342.2	135.6	67.8
74°	2041.5	2222.3	2534.8	2581.3	2521.3	2309.5	2017.7	1029.2	272.5	116.9	62.0
75°	1606.4	1705.8	1988.6	1960.2	1870.4	1796.2	1564.4	786.4	220.8	102.7	57.5



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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	721.8	781.9	829.0	829.0	834.2	796.1	721.2	360.9	136.2	74.2	47.1
80°	275.0	308.0	318.3	319.0	323.5	335.1	311.8	177.6	80.7	52.9	38.1
82.5°	199.5	278.9	300.2	284.7	286.0	258.3	119.4	78.8	51.0	36.8	27.8
85°	180.8	242.8	257.0	255.0	255.7	238.9	70.4	38.7	29.7	23.2	19.4
87.5°	87.8	85.9	91.0	102.7	100.1	129.8	59.4	19.4	12.9	9.7	9.7
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°	550.1	550.1	550.1	550.1	550.1	550.1
2.5°	546.9	546.2	555.3	546.2	551.4	547.5
5°	553.3	555.9	557.8	561.7	552.7	561.7
7.5°	572.7	575.3	575.9	579.1	575.3	574.6
10°	587.5	594.0	597.9	585.0	592.7	592.1
12.5°	616.6	610.1	609.5	606.9	599.8	597.2
15°	637.3	627.6	621.8	611.4	603.0	599.8
17.5°	666.3	647.6	623.7	602.4	587.5	575.9
20°	684.4	650.8	603.0	577.9	555.3	560.4
22.5°	696.0	647.6	584.3	552.0	529.4	535.9
25°	699.9	631.4	571.4	531.4	509.4	504.9
27.5°	688.9	612.7	546.2	501.0	481.7	485.5
30°	683.7	585.6	523.0	478.4	452.6	456.5
32.5°	670.2	557.8	492.0	446.8	428.1	421.6
35°	650.8	534.6	462.3	419.7	397.1	391.9
37.5°	626.9	505.5	436.5	384.8	364.8	360.9
40°	591.4	470.7	399.0	354.5	331.2	330.6
42.5°	560.4	437.1	364.1	318.3	295.1	296.4
45°	521.0	391.9	324.1	284.7	261.5	262.8
47.5°	470.7	349.9	286.0	242.1	222.7	221.5
50°	411.3	302.2	239.5	202.1	185.9	182.7
52.5°	354.5	253.7	196.3	162.7	149.1	147.9
55°	282.8	197.6	153.0	127.8	117.5	118.2
56°	257.0	182.1	139.5	116.9	109.1	109.1
57°	232.4	161.4	126.5	107.8	100.7	100.7
58°	205.3	142.0	114.9	97.5	94.3	91.7
59°	186.6	129.1	103.9	92.3	87.2	86.5
60°	164.6	116.2	96.8	86.5	82.6	82.0
61°	145.9	104.6	89.1	80.7	79.4	79.4
62°	130.4	96.8	82.6	78.1	77.5	75.5
63°	116.9	89.1	79.4	74.2	72.3	74.2
64°	104.6	82.0	76.8	73.0	70.4	71.7
65°	94.9	78.8	73.6	71.0	68.4	69.1
66°	88.5	73.6	71.0	67.8	66.5	67.1
67°	80.1	71.0	68.4	65.2	64.6	65.2
67.5°	77.5	69.1	67.1	63.9	63.3	63.9
68°	75.5	67.8	66.5	63.3	62.6	62.0
69°	70.4	65.2	63.3	62.0	60.7	60.0
70°	65.9	62.6	61.3	59.4	58.1	57.5
71°	63.3	59.4	58.8	56.8	55.5	54.9
72°	60.0	57.5	56.2	53.6	52.9	53.6
72.5°	59.4	56.2	55.5	52.9	52.3	52.3
73°	57.5	53.6	54.2	51.7	50.4	51.7
74°	53.6	52.3	51.0	49.1	48.4	48.4
75°	50.4	49.1	47.8	46.5	46.5	46.5



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**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
77.5°	42.6	42.0	42.6	40.0	39.4	38.7
80°	34.2	34.2	34.9	32.9	31.6	31.0
82.5°	25.8	26.5	27.8	25.8	24.5	23.2
85°	16.8	17.4	17.4	15.5	18.1	16.8
87.5°	8.4	9.0	8.4	7.7	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)