

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: P676120

Luminaire Tested: **CCW-SA-1B-735-U-T1**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676120  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-735-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T1 distribution lens  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

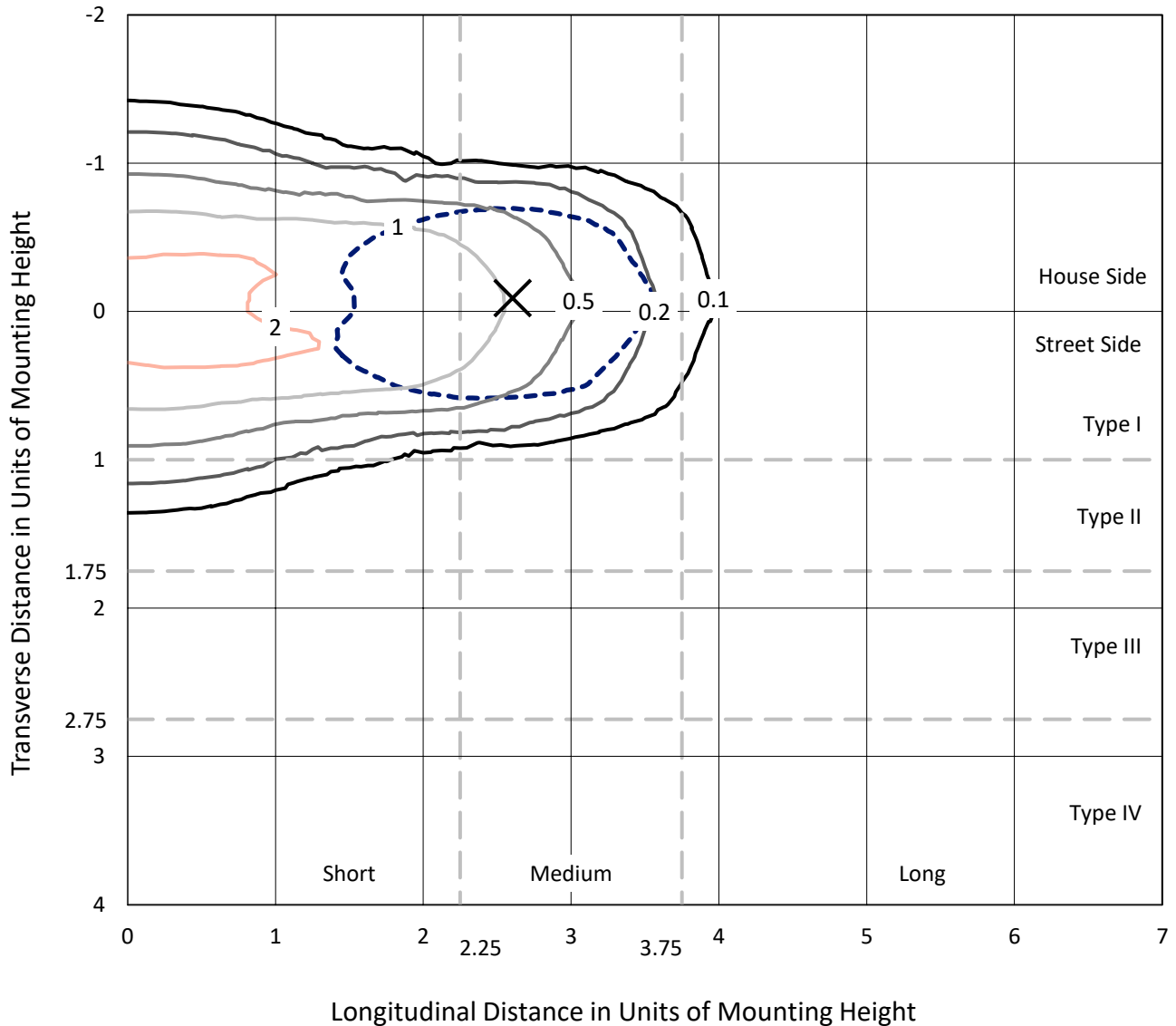
Lumens per Lamp: N/A  
Luminaire Lumens: 3317 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

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

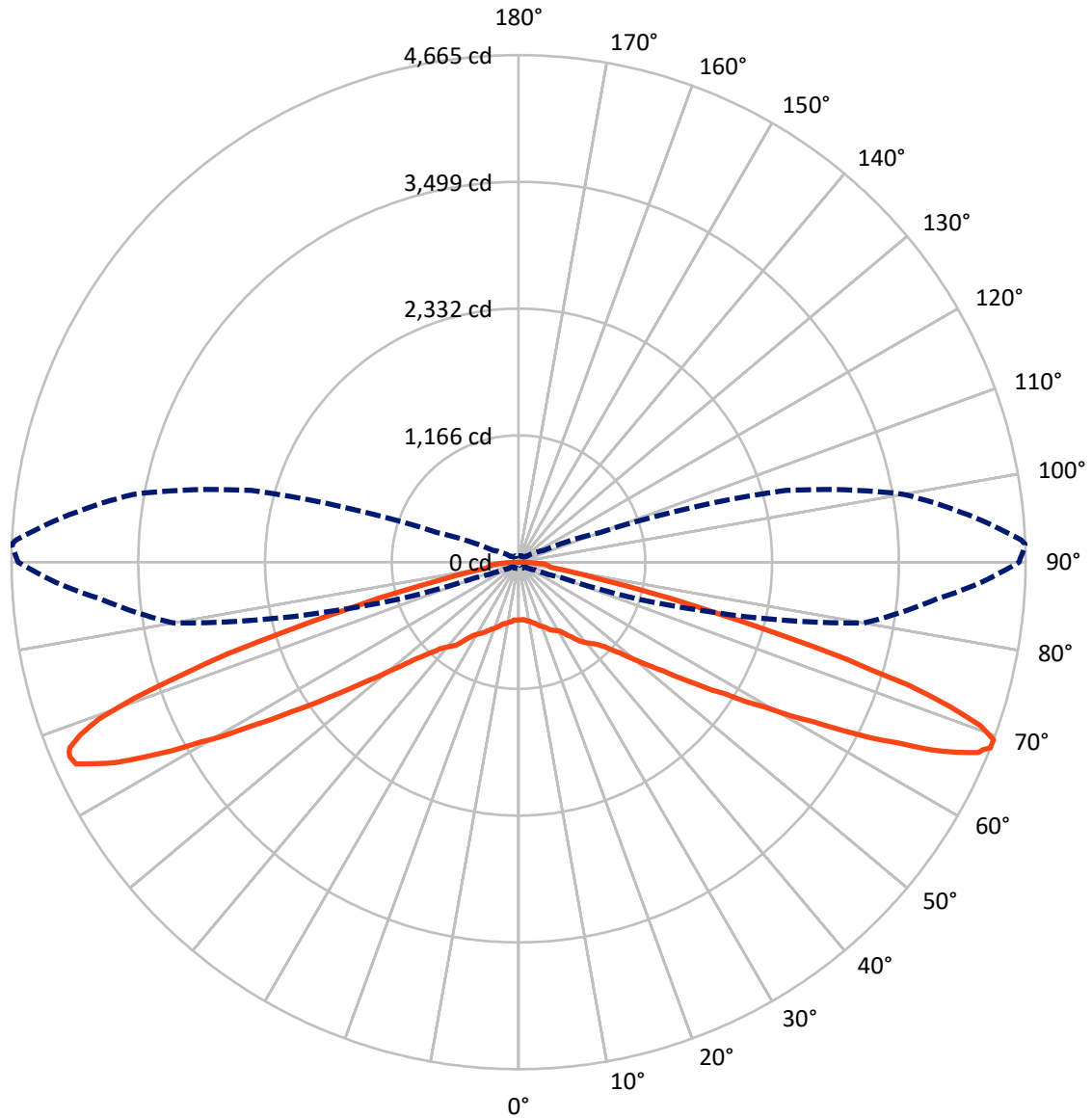
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 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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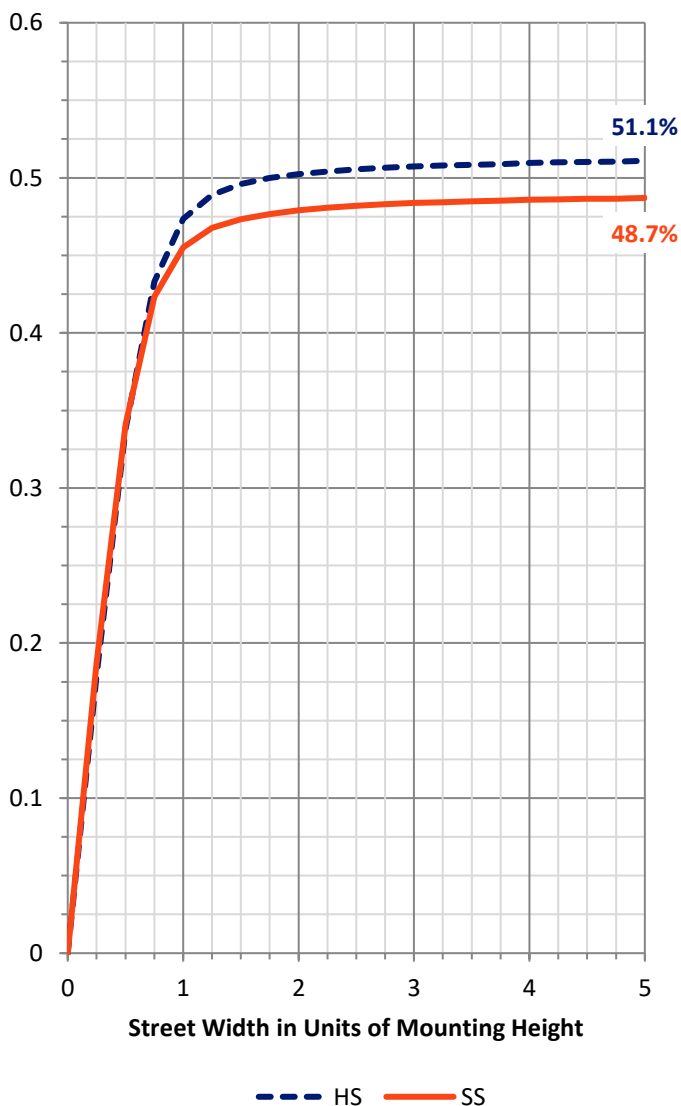
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1708.2	0.0	1708.2
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	1608.8	0.0	1608.8
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	3317.0	0.0	3317.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.1	1.6
10°-20°	172.1	5.2
20°-30°	293.7	8.9
30°-40°	410.0	12.4
40°-50°	521.6	15.7
50°-60°	659.5	19.9
60°-70°	813.3	24.5
70°-80°	355.3	10.7
80°-90°	38.5	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°	3317.0	100.0
0°-180°	3317.0	100.0



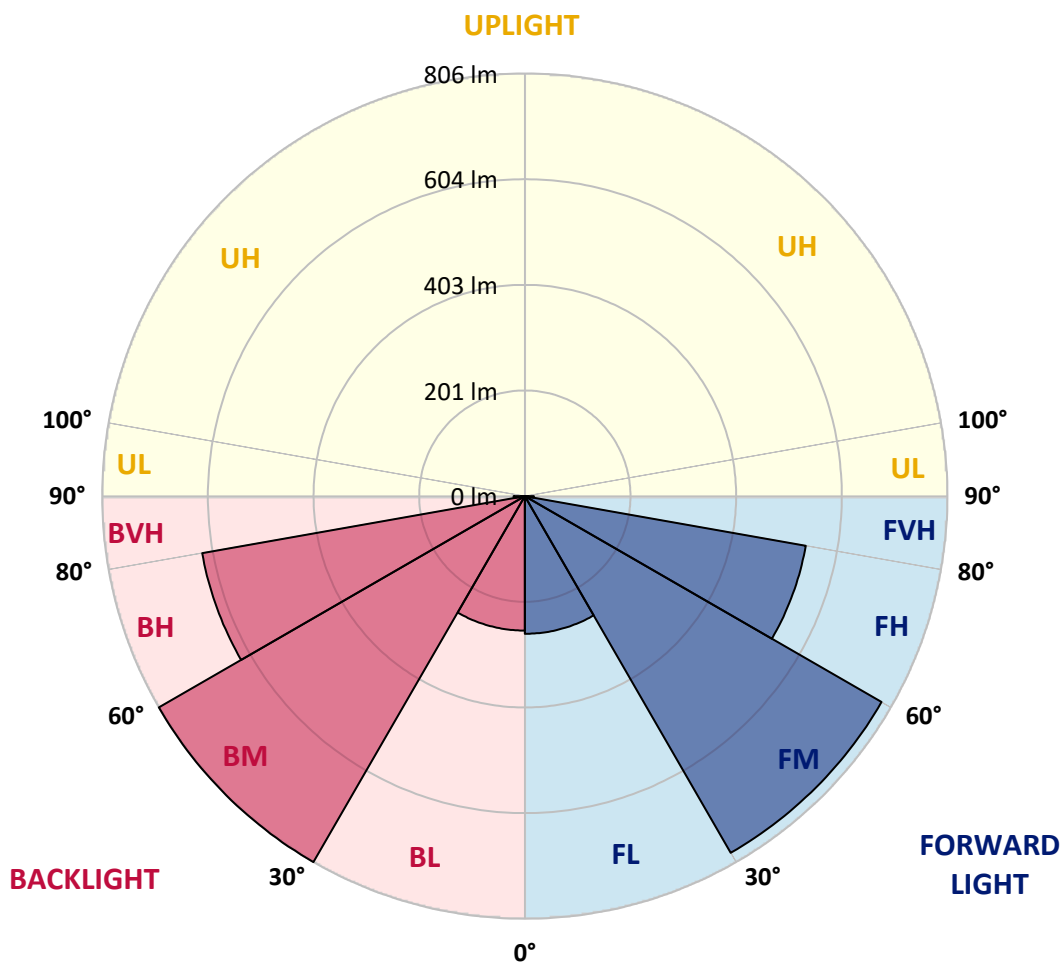
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.5	7.9			
FM (30°-60°)	785.3	23.7			
FH (60°-80°)	543.9	16.4			G0/660
FVH (80°-90°)	17.1	0.5			G1/100
BL (0°-30°)	256.3	7.7	B1/500		
BM (30°-60°)	805.8	24.3	B1/1000		
BH (60°-80°)	624.6	18.8	B2/1000		G2/1000
BVH (80°-90°)	21.4	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°	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4
2.5°	541.6	541.0	542.9	544.1	538.5	540.4	539.1	537.9	533.5	531.7	527.9
5°	556.6	558.4	564.7	559.0	561.5	558.4	548.5	551.6	546.0	544.7	541.0
7.5°	582.7	579.0	587.7	581.5	583.3	577.1	572.7	567.1	565.9	557.2	557.8
10°	588.3	595.8	599.5	598.3	599.5	602.6	594.5	585.8	574.0	571.5	562.8
12.5°	584.6	591.4	601.4	609.5	615.1	616.3	613.2	611.3	606.4	592.0	591.4
15°	580.8	575.9	582.1	610.1	628.8	641.2	645.6	635.0	636.2	617.6	610.1
17.5°	555.9	548.5	572.7	600.1	623.2	650.6	671.7	668.6	668.6	653.7	643.1
20°	522.9	535.4	547.8	582.7	625.0	666.1	706.6	704.7	697.3	692.9	669.9
22.5°	494.9	500.5	523.6	560.3	613.2	670.5	718.4	752.7	735.2	717.8	704.1
25°	475.6	470.6	499.9	537.9	602.0	663.0	740.8	776.3	785.7	772.6	746.4
27.5°	448.2	448.2	471.3	507.4	565.9	659.3	762.6	816.8	830.5	811.2	773.2
30°	417.1	420.8	440.8	481.9	539.1	631.9	771.3	863.5	874.7	857.9	818.7
32.5°	392.8	392.8	415.2	458.8	520.5	619.4	765.7	909.5	930.7	918.3	877.8
35°	366.7	364.8	381.0	428.9	490.6	595.2	763.9	946.3	993.6	994.2	951.9
37.5°	329.3	336.8	357.3	395.3	466.9	571.5	758.3	990.5	1075.1	1089.5	1060.2
40°	304.4	307.5	326.2	367.9	430.2	543.5	750.2	1026.6	1129.3	1178.5	1138.0
42.5°	268.3	272.7	287.0	338.7	394.7	503.6	714.7	1052.1	1206.5	1262.5	1228.3
45°	230.3	232.8	254.0	296.3	356.7	456.3	676.7	1093.2	1281.2	1395.8	1375.8
47.5°	184.9	186.1	204.2	248.4	311.3	409.0	618.2	1091.3	1341.6	1529.0	1585.0
50°	144.4	147.5	161.2	197.3	256.5	351.1	550.3	1076.4	1417.5	1680.9	1791.1
52.5°	115.2	115.8	124.5	153.1	198.0	293.2	477.5	1029.1	1489.1	1829.7	2043.8
55°	95.2	95.2	100.2	117.7	151.9	222.9	392.2	950.6	1497.9	1994.0	2319.6
56°	91.5	90.3	94.6	109.6	137.0	201.1	352.4	897.7	1510.3	2070.0	2457.8
57°	86.5	87.2	89.6	100.2	123.3	178.0	308.2	846.0	1501.6	2132.2	2559.9
58°	84.0	82.8	87.8	94.6	108.9	158.1	277.7	785.0	1487.9	2183.3	2708.7
59°	80.3	79.7	82.8	89.0	101.5	140.7	240.3	719.0	1461.1	2249.3	2819.5
60°	79.1	78.4	79.7	84.7	93.4	123.3	211.7	641.8	1389.5	2317.1	2957.1
61°	75.3	76.0	78.4	81.6	88.4	110.8	190.5	562.8	1342.8	2374.4	3109.0
62°	76.0	74.7	76.0	78.4	83.4	102.1	166.8	485.0	1259.4	2439.1	3222.9
63°	72.2	71.6	73.5	76.6	79.1	92.1	145.7	419.0	1164.8	2454.1	3319.4
64°	71.0	70.3	71.0	75.3	76.0	86.5	128.9	358.0	1027.8	2479.6	3443.3
65°	67.9	67.9	69.1	71.0	73.5	81.6	115.2	310.7	891.5	2412.4	3481.3
66°	65.4	66.0	66.0	69.1	71.0	76.0	105.8	264.0	760.8	2305.3	3518.0
67°	63.5	63.5	64.1	66.6	68.5	71.6	95.2	228.5	641.8	2177.7	3461.4
67.5°	62.3	62.9	62.9	65.4	67.2	71.6	90.9	216.6	574.0	2037.6	3419.0
68°	60.4	61.0	61.0	63.5	65.4	69.1	87.8	198.0	529.2	1946.7	3340.6
69°	59.1	58.5	58.5	61.0	63.5	66.0	81.6	173.1	420.8	1692.7	3226.0
70°	55.4	55.4	56.7	58.5	60.4	62.9	75.3	152.5	356.1	1401.4	2931.0
71°	53.5	52.9	53.5	55.4	57.3	60.4	69.1	135.1	291.4	1163.5	2640.8
72°	49.8	51.0	51.0	52.9	54.8	56.7	64.7	117.7	244.7	930.1	2321.5
72.5°	49.2	49.2	49.8	51.7	52.9	56.0	62.3	112.7	223.5	819.9	2187.6
73°	47.3	47.3	47.9	49.8	51.0	54.2	60.4	101.5	203.6	729.6	1937.4
74°	45.4	44.8	44.8	47.3	47.9	51.0	56.7	89.6	170.6	549.7	1555.1
75°	42.3	42.3	43.0	44.2	44.8	47.3	52.3	79.7	143.8	426.4	1216.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	34.9	35.5	36.1	37.4	37.4	39.2	43.0	55.4	87.8	216.0	558.4
80°	25.5	26.8	28.6	30.5	29.9	29.9	33.6	39.8	52.3	97.1	214.2
82.5°	20.5	21.8	19.9	22.4	22.4	21.2	24.3	29.3	35.5	47.9	76.6
85°	13.7	14.3	11.8	13.7	13.1	13.1	16.2	17.4	21.8	26.8	38.0
87.5°	6.2	6.2	5.0	5.6	5.6	5.6	8.1	6.2	9.3	13.1	22.4
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°	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4
2.5°	531.7	534.1	534.1	531.7	529.8	531.7	530.4	527.3	530.4	531.7	532.3
5°	539.1	534.1	536.6	531.0	534.8	534.1	532.9	536.0	536.6	536.6	541.0
7.5°	547.2	553.4	545.4	546.0	547.8	540.4	542.9	544.1	541.6	546.6	550.3
10°	561.5	564.0	561.5	552.2	558.4	553.4	551.6	557.2	555.9	557.2	562.8
12.5°	574.6	579.0	572.1	571.5	568.4	564.0	566.5	565.9	574.6	575.9	582.7
15°	601.4	590.2	587.7	587.1	585.8	584.0	585.2	585.8	597.0	598.9	615.1
17.5°	624.4	622.5	608.9	613.8	613.8	606.4	603.2	613.8	622.5	631.9	643.1
20°	648.1	646.2	631.3	631.9	626.3	633.1	629.4	639.4	654.3	657.4	667.4
22.5°	676.1	668.0	657.4	658.7	660.5	655.5	653.1	666.7	681.7	690.4	691.0
25°	720.3	699.7	691.0	692.3	689.8	686.0	687.9	705.3	712.8	731.5	727.8
27.5°	743.9	732.1	725.9	711.6	712.2	706.6	714.1	740.2	755.2	769.5	740.8
30°	772.6	765.1	737.7	732.7	732.1	729.6	743.3	776.9	799.4	807.4	766.4
32.5°	828.6	798.7	791.9	787.5	777.6	780.7	787.5	831.7	867.2	865.3	790.0
35°	892.7	872.2	852.9	849.2	847.9	839.2	851.0	902.7	930.1	922.0	798.7
37.5°	995.5	964.3	938.2	923.9	921.4	915.1	943.2	984.2	1019.7	988.0	805.6
40°	1045.9	1011.0	986.7	978.0	979.9	988.6	1016.0	1078.9	1094.4	1035.9	811.2
42.5°	1118.1	1080.1	1032.2	1027.8	1022.2	1026.6	1079.5	1164.2	1177.2	1100.7	790.0
45°	1246.3	1189.1	1133.7	1108.8	1110.0	1121.8	1204.0	1296.8	1272.5	1145.5	756.4
47.5°	1408.2	1324.2	1279.3	1245.7	1261.9	1248.8	1379.6	1453.6	1370.9	1202.1	715.3
50°	1651.6	1534.0	1472.9	1432.5	1439.3	1450.5	1583.1	1646.0	1479.8	1229.5	652.4
52.5°	1958.5	1807.3	1717.6	1663.4	1668.4	1692.7	1863.9	1844.6	1604.3	1252.6	568.4
55°	2325.8	2170.2	1996.5	1974.1	1968.5	2026.4	2215.0	2052.5	1716.4	1215.8	481.2
56°	2520.1	2354.5	2173.9	2127.9	2114.2	2154.6	2376.3	2156.5	1755.0	1174.7	439.5
57°	2685.0	2526.9	2329.0	2250.5	2267.9	2343.9	2536.3	2254.2	1790.4	1132.4	400.3
58°	2911.7	2731.1	2521.9	2462.2	2446.6	2507.0	2708.7	2352.6	1802.3	1088.8	364.2
59°	3137.6	2921.0	2732.4	2623.4	2627.8	2738.0	2878.7	2469.6	1820.3	1033.4	318.1
60°	3309.5	3200.5	2948.4	2866.8	2855.6	3015.0	3048.0	2548.1	1839.6	958.7	285.7
61°	3552.9	3410.9	3176.2	3071.0	3101.5	3229.2	3231.0	2646.5	1811.0	864.1	245.9
62°	3727.8	3690.5	3443.9	3343.7	3334.4	3503.7	3421.5	2733.0	1786.1	774.4	217.3
63°	3932.6	3932.6	3707.9	3629.5	3633.8	3767.7	3504.3	2819.5	1757.5	675.5	191.1
64°	4039.1	4172.9	3965.6	3855.4	3884.1	3999.9	3651.9	2876.2	1669.1	575.2	168.1
65°	4131.2	4332.3	4217.1	4166.1	4122.5	4191.0	3779.5	2929.1	1534.0	489.3	149.4
66°	4209.0	4482.3	4444.4	4389.6	4385.2	4369.7	3804.4	2927.2	1394.5	413.4	130.7
67°	4169.8	4485.5	4554.6	4577.6	4570.7	4406.4	3760.8	2860.6	1215.8	349.2	116.4
67.5°	4134.3	4459.9	4620.6	4607.5	4636.1	4437.5	3768.3	2779.1	1088.8	316.3	109.6
68°	4103.2	4425.7	4647.3	4664.1	4649.8	4441.3	3727.2	2714.3	1002.3	297.0	103.3
69°	3867.3	4263.2	4604.4	4664.8	4628.0	4298.7	3596.5	2545.6	796.2	253.4	95.2
70°	3630.7	4052.8	4395.8	4506.6	4461.2	4022.9	3431.5	2277.3	656.8	216.6	85.9
71°	3303.2	3661.8	4118.2	4184.8	4130.0	3709.1	3090.3	1994.0	511.1	183.7	76.6
72°	2858.7	3163.2	3599.0	3760.2	3679.3	3257.8	2745.4	1647.9	414.0	154.4	69.7
72.5°	2638.4	2950.3	3370.5	3383.5	3399.1	3061.7	2599.1	1447.4	361.1	143.2	67.9
73°	2429.2	2734.9	3098.4	3144.5	3078.5	2731.1	2380.6	1294.3	330.0	130.7	65.4
74°	1968.5	2142.8	2444.1	2488.9	2431.0	2226.9	1945.5	992.3	262.7	112.7	59.8
75°	1548.9	1644.8	1917.4	1890.1	1803.5	1731.9	1508.4	758.3	212.9	99.0	55.4



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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	696.0	753.9	799.4	799.4	804.3	767.6	695.4	348.0	131.4	71.6	45.4
80°	265.2	297.0	306.9	307.5	311.9	323.1	300.7	171.2	77.8	51.0	36.7
82.5°	192.4	268.9	289.5	274.5	275.8	249.0	115.2	76.0	49.2	35.5	26.8
85°	174.3	234.1	247.8	245.9	246.5	230.3	67.9	37.4	28.6	22.4	18.7
87.5°	84.7	82.8	87.8	99.0	96.5	125.1	57.3	18.7	12.5	9.3	9.3
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):**

	135°	145°	155°	165°	175°	180°
0°	530.4	530.4	530.4	530.4	530.4	530.4
2.5°	527.3	526.7	535.4	526.7	531.7	527.9
5°	533.5	536.0	537.9	541.6	532.9	541.6
7.5°	552.2	554.7	555.3	558.4	554.7	554.1
10°	566.5	572.7	576.5	564.0	571.5	570.9
12.5°	594.5	588.3	587.7	585.2	578.3	575.9
15°	614.5	605.1	599.5	589.6	581.5	578.3
17.5°	642.5	624.4	601.4	580.8	566.5	555.3
20°	659.9	627.5	581.5	557.2	535.4	540.4
22.5°	671.1	624.4	563.4	532.3	510.5	516.7
25°	674.8	608.9	551.0	512.4	491.2	486.8
27.5°	664.3	590.8	526.7	483.1	464.4	468.2
30°	659.3	564.7	504.3	461.3	436.4	440.1
32.5°	646.2	537.9	474.4	430.8	412.7	406.5
35°	627.5	515.5	445.7	404.7	382.9	377.9
37.5°	604.5	487.5	420.8	371.0	351.7	348.0
40°	570.3	453.8	384.7	341.8	319.4	318.7
42.5°	540.4	421.5	351.1	306.9	284.5	285.7
45°	502.4	377.9	312.5	274.5	252.1	253.4
47.5°	453.8	337.4	275.8	233.5	214.8	213.5
50°	396.6	291.4	231.0	194.9	179.3	176.2
52.5°	341.8	244.7	189.3	156.9	143.8	142.6
55°	272.7	190.5	147.5	123.3	113.3	113.9
56°	247.8	175.6	134.5	112.7	105.2	105.2
57°	224.1	155.6	122.0	104.0	97.1	97.1
58°	198.0	137.0	110.8	94.0	90.9	88.4
59°	179.9	124.5	100.2	89.0	84.0	83.4
60°	158.7	112.1	93.4	83.4	79.7	79.1
61°	140.7	100.9	85.9	77.8	76.6	76.6
62°	125.8	93.4	79.7	75.3	74.7	72.8
63°	112.7	85.9	76.6	71.6	69.7	71.6
64°	100.9	79.1	74.1	70.3	67.9	69.1
65°	91.5	76.0	71.0	68.5	66.0	66.6
66°	85.3	71.0	68.5	65.4	64.1	64.7
67°	77.2	68.5	66.0	62.9	62.3	62.9
67.5°	74.7	66.6	64.7	61.6	61.0	61.6
68°	72.8	65.4	64.1	61.0	60.4	59.8
69°	67.9	62.9	61.0	59.8	58.5	57.9
70°	63.5	60.4	59.1	57.3	56.0	55.4
71°	61.0	57.3	56.7	54.8	53.5	52.9
72°	57.9	55.4	54.2	51.7	51.0	51.7
72.5°	57.3	54.2	53.5	51.0	50.4	50.4
73°	55.4	51.7	52.3	49.8	48.6	49.8
74°	51.7	50.4	49.2	47.3	46.7	46.7
75°	48.6	47.3	46.1	44.8	44.8	44.8



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**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
77.5°	41.1	40.5	41.1	38.6	38.0	37.4
80°	33.0	33.0	33.6	31.7	30.5	29.9
82.5°	24.9	25.5	26.8	24.9	23.7	22.4
85°	16.2	16.8	16.8	14.9	17.4	16.2
87.5°	8.1	8.7	8.1	7.5	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)