

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: P676119

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676119  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-735-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T1 distribution lens  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

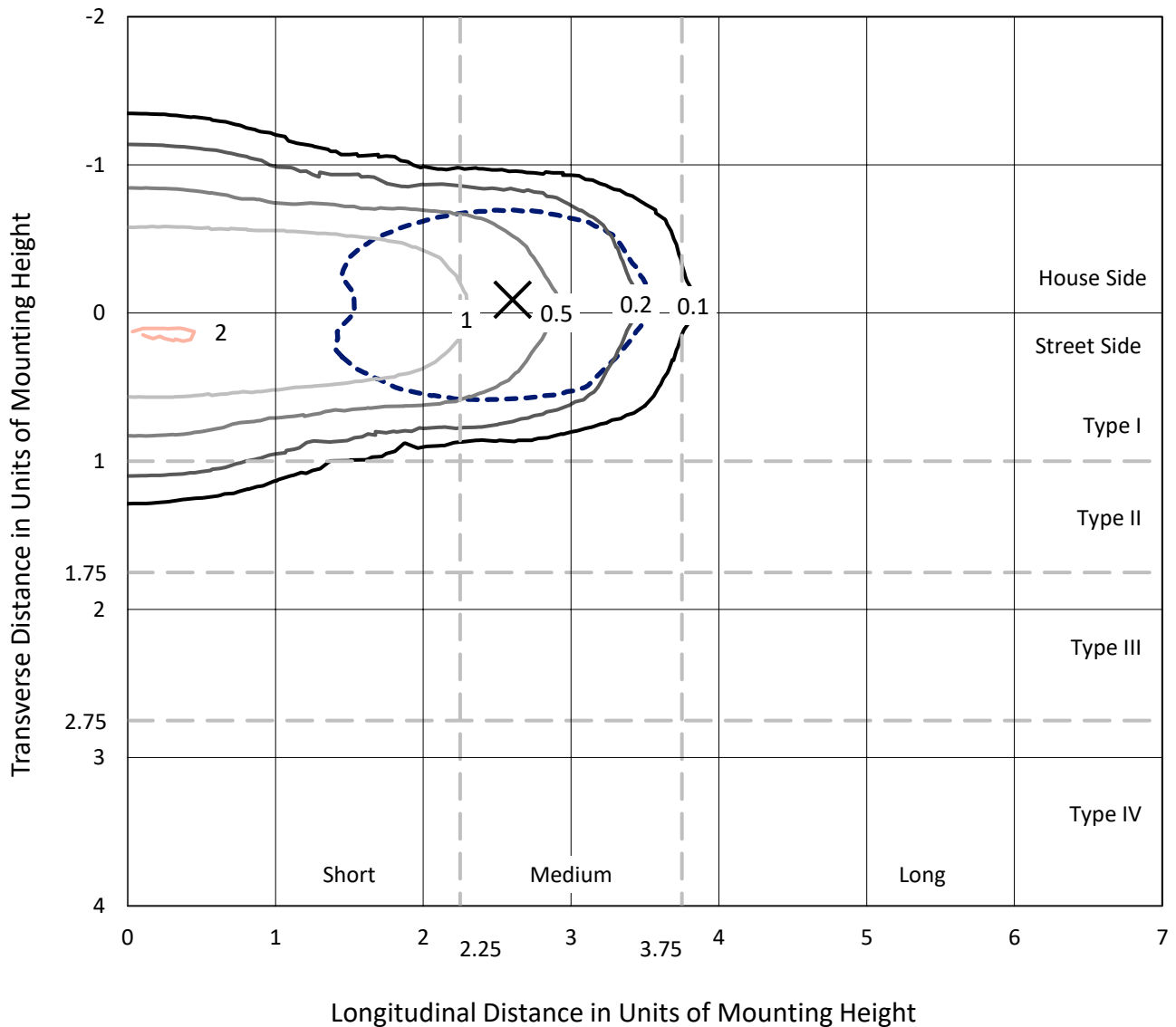
Lumens per Lamp: N/A  
Luminaire Lumens: 2627.6 lumens  
Efficiency: N/A  
Efficacy: 146.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 18  
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

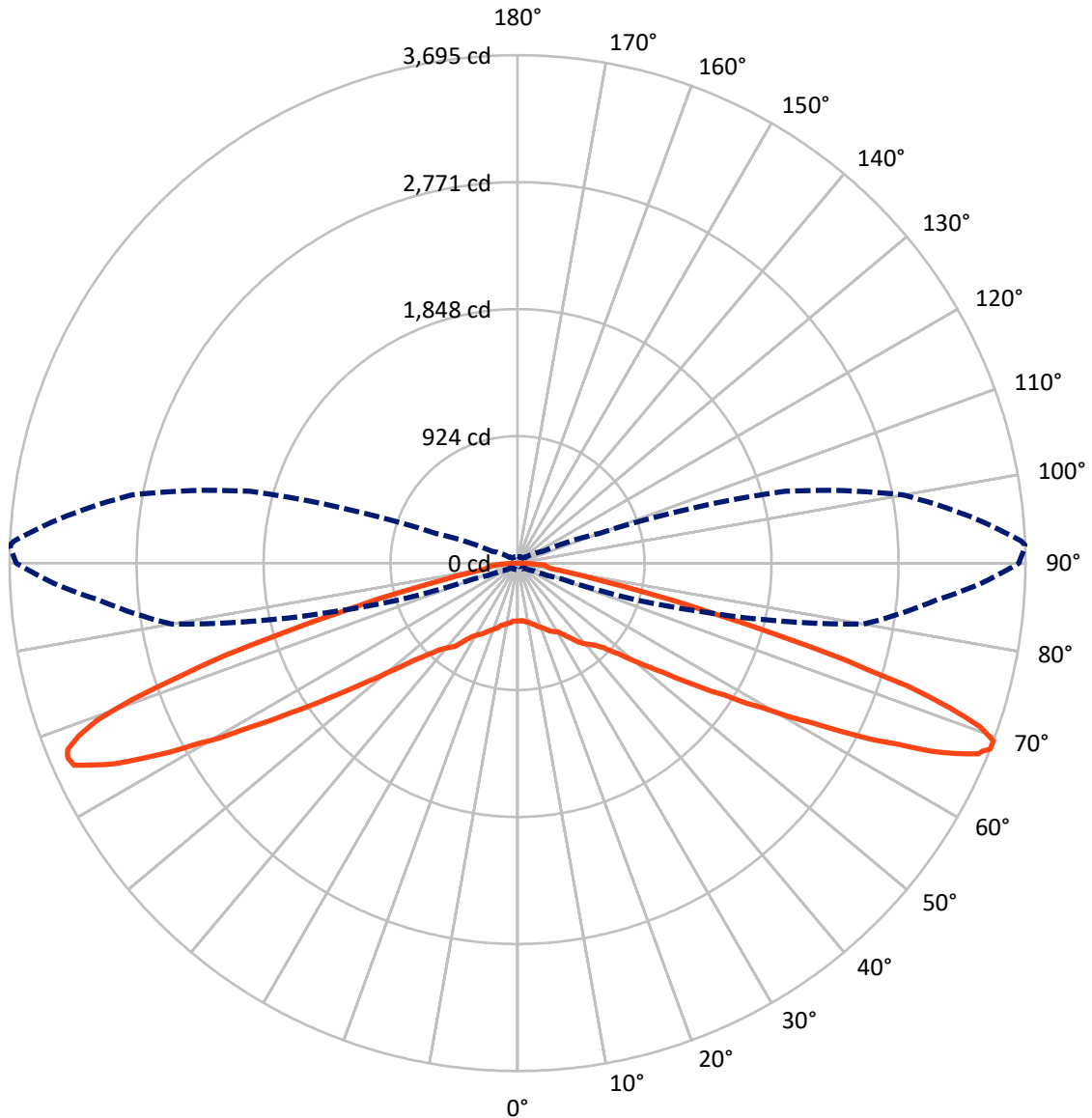
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc  
 Type 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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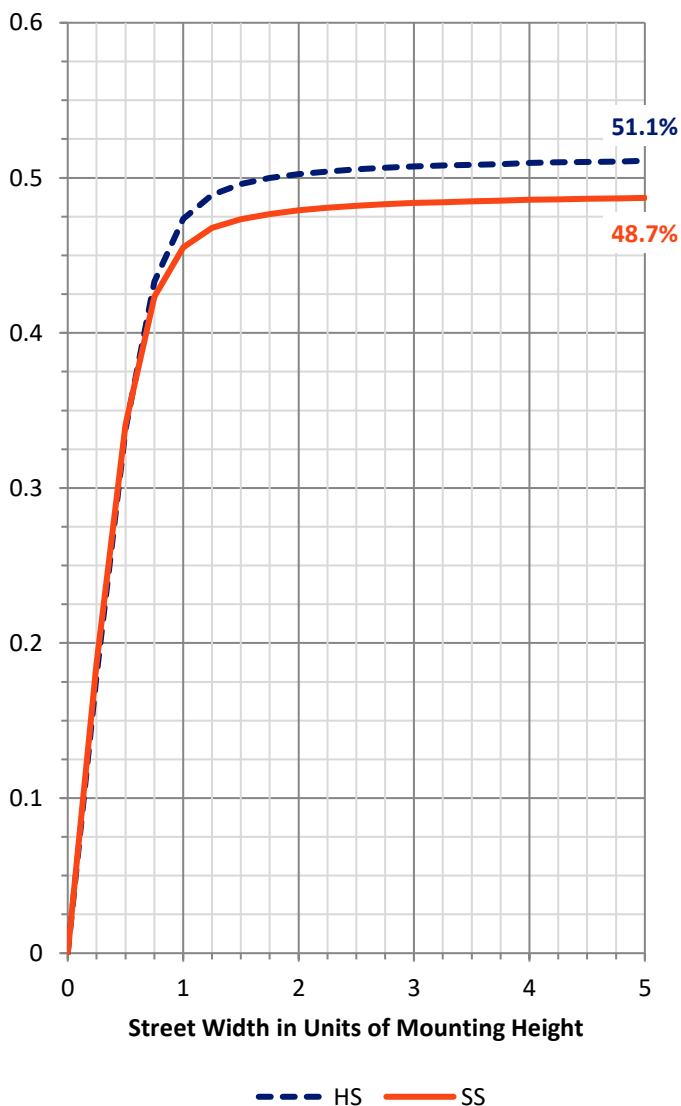
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1353.2	0.0	1353.2
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	1274.4	0.0	1274.4
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	2627.6	0.0	2627.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.1	1.6
10°-20°	136.3	5.2
20°-30°	232.6	8.9
30°-40°	324.8	12.4
40°-50°	413.2	15.7
50°-60°	522.4	19.9
60°-70°	644.3	24.5
70°-80°	281.4	10.7
80°-90°	30.5	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°	2627.6	100.0
0°-180°	2627.6	100.0

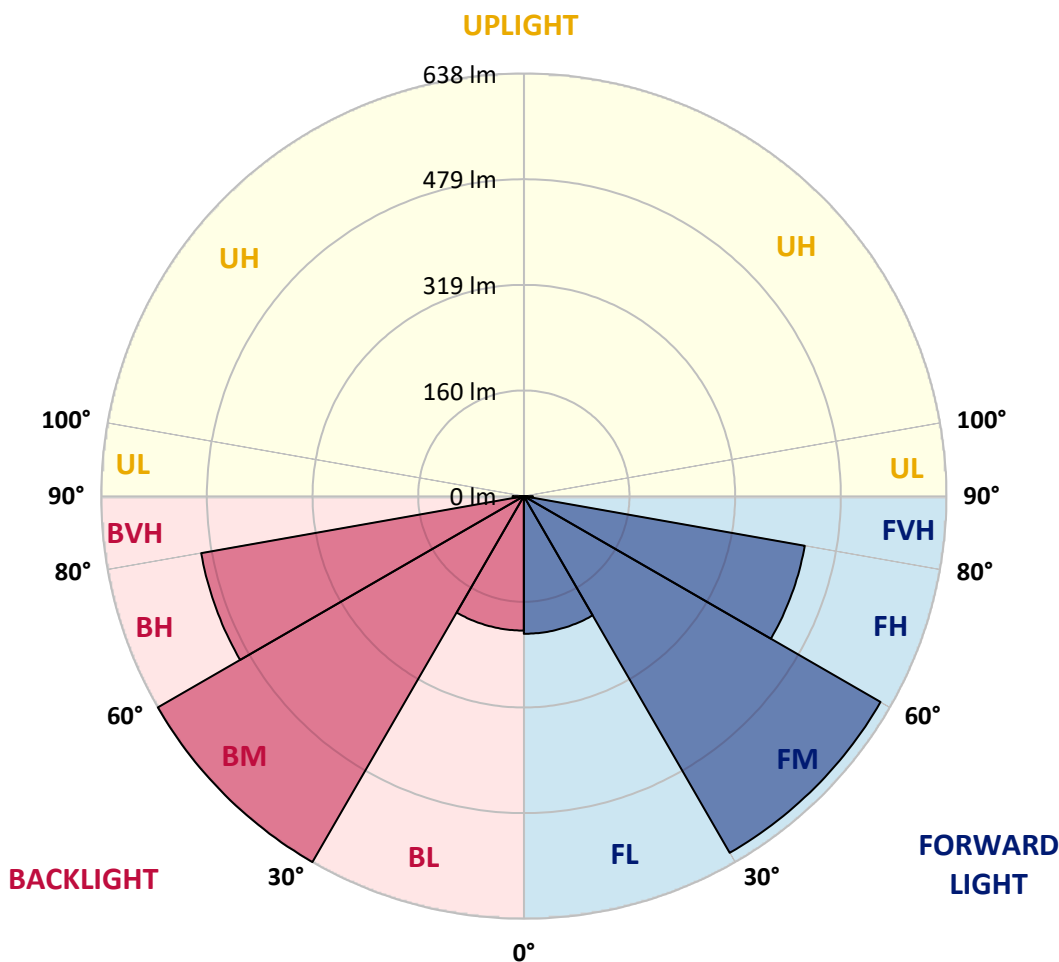


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	208.0	7.9			
FM (30°-60°)	622.1	23.7			
FH (60°-80°)	430.9	16.4			G0/660
FVH (80°-90°)	13.5	0.5			G1/100
BL (0°-30°)	203.1	7.7	B1/500		
BM (30°-60°)	638.3	24.3	B1/1000		
BH (60°-80°)	494.8	18.8	B1/500		G1/500
BVH (80°-90°)	17.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2
2.5°	429.0	428.6	430.0	431.0	426.6	428.1	427.1	426.1	422.6	421.2	418.2
5°	440.9	442.4	447.3	442.9	444.8	442.4	434.5	436.9	432.5	431.5	428.6
7.5°	461.6	458.6	465.5	460.6	462.1	457.2	453.7	449.3	448.3	441.4	441.9
10°	466.0	472.0	474.9	473.9	474.9	477.4	471.0	464.1	454.7	452.7	445.8
12.5°	463.1	468.5	476.4	482.8	487.2	488.2	485.8	484.3	480.3	469.0	468.5
15°	460.1	456.2	461.1	483.3	498.1	508.0	511.4	503.0	504.0	489.2	483.3
17.5°	440.4	434.5	453.7	475.4	493.7	515.4	532.1	529.7	529.7	517.8	509.4
20°	414.3	424.1	434.0	461.6	495.1	527.7	559.7	558.3	552.3	548.9	530.6
22.5°	392.1	396.5	414.7	443.8	485.8	531.1	569.1	596.2	582.4	568.6	557.8
25°	376.8	372.8	396.0	426.1	476.9	525.2	586.9	615.0	622.4	612.0	591.3
27.5°	355.1	355.1	373.3	401.9	448.3	522.3	604.1	647.0	657.9	642.6	612.5
30°	330.4	333.4	349.2	381.7	427.1	500.6	611.0	684.0	692.9	679.6	648.5
32.5°	311.2	311.2	328.9	363.5	412.3	490.7	606.6	720.5	737.3	727.4	695.4
35°	290.5	289.0	301.8	339.8	388.6	471.5	605.1	749.6	787.1	787.6	754.0
37.5°	260.9	266.8	283.1	313.2	369.9	452.7	600.7	784.6	851.7	863.0	839.9
40°	241.2	243.6	258.4	291.5	340.8	430.5	594.3	813.2	894.6	933.6	901.5
42.5°	212.6	216.0	227.3	268.3	312.7	399.0	566.1	833.4	955.7	1000.1	973.0
45°	182.5	184.4	201.2	234.7	282.6	361.5	536.1	866.0	1014.9	1105.7	1089.9
47.5°	146.5	147.5	161.8	196.8	246.6	324.0	489.7	864.5	1062.8	1211.2	1255.6
50°	114.4	116.9	127.7	156.3	203.2	278.1	436.0	852.7	1122.9	1331.5	1418.8
52.5°	91.2	91.7	98.6	121.3	156.8	232.3	378.3	815.2	1179.6	1449.4	1619.0
55°	75.5	75.5	79.4	93.2	120.3	176.6	310.7	753.1	1186.5	1579.6	1837.5
56°	72.5	71.5	75.0	86.8	108.5	159.3	279.1	711.1	1196.4	1639.8	1947.0
57°	68.5	69.0	71.0	79.4	97.6	141.0	244.1	670.2	1189.5	1689.1	2027.9
58°	66.6	65.6	69.5	75.0	86.3	125.3	219.9	621.9	1178.7	1729.5	2145.7
59°	63.6	63.1	65.6	70.5	80.4	111.5	190.4	569.6	1157.4	1781.8	2233.5
60°	62.6	62.1	63.1	67.1	74.0	97.6	167.7	508.4	1100.7	1835.5	2342.5
61°	59.7	60.2	62.1	64.6	70.0	87.8	150.9	445.8	1063.7	1880.9	2462.8
62°	60.2	59.2	60.2	62.1	66.1	80.9	132.2	384.2	997.7	1932.2	2553.1
63°	57.2	56.7	58.2	60.7	62.6	73.0	115.4	331.9	922.7	1944.0	2629.5
64°	56.2	55.7	56.2	59.7	60.2	68.5	102.1	283.6	814.2	1964.3	2727.7
65°	53.8	53.8	54.7	56.2	58.2	64.6	91.2	246.1	706.2	1911.0	2757.7
66°	51.8	52.3	52.3	54.7	56.2	60.2	83.8	209.1	602.6	1826.2	2786.8
67°	50.3	50.3	50.8	52.8	54.2	56.7	75.5	181.0	508.4	1725.1	2742.0
67.5°	49.3	49.8	49.8	51.8	53.3	56.7	72.0	171.6	454.7	1614.1	2708.4
68°	47.8	48.3	48.3	50.3	51.8	54.7	69.5	156.8	419.2	1542.1	2646.3
69°	46.9	46.4	46.4	48.3	50.3	52.3	64.6	137.1	333.4	1340.9	2555.6
70°	43.9	43.9	44.9	46.4	47.8	49.8	59.7	120.8	282.1	1110.1	2321.8
71°	42.4	41.9	42.4	43.9	45.4	47.8	54.7	107.0	230.8	921.7	2092.0
72°	39.5	40.4	40.4	41.9	43.4	44.9	51.3	93.2	193.8	736.8	1839.0
72.5°	39.0	39.0	39.5	40.9	41.9	44.4	49.3	89.3	177.0	649.5	1733.0
73°	37.5	37.5	38.0	39.5	40.4	42.9	47.8	80.4	161.3	578.0	1534.7
74°	36.0	35.5	35.5	37.5	38.0	40.4	44.9	71.0	135.1	435.5	1231.9
75°	33.5	33.5	34.0	35.0	35.5	37.5	41.4	63.1	113.9	337.8	963.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	27.6	28.1	28.6	29.6	29.6	31.1	34.0	43.9	69.5	171.1	442.4
80°	20.2	21.2	22.7	24.2	23.7	23.7	26.6	31.6	41.4	76.9	169.6
82.5°	16.3	17.3	15.8	17.8	17.8	16.8	19.2	23.2	28.1	38.0	60.7
85°	10.8	11.3	9.4	10.8	10.4	10.4	12.8	13.8	17.3	21.2	30.1
87.5°	4.9	4.9	3.9	4.4	4.4	4.4	6.4	4.9	7.4	10.4	17.8
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°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2
2.5°	421.2	423.1	423.1	421.2	419.7	421.2	420.2	417.7	420.2	421.2	421.7
5°	427.1	423.1	425.1	420.7	423.6	423.1	422.1	424.6	425.1	425.1	428.6
7.5°	433.5	438.4	432.0	432.5	434.0	428.1	430.0	431.0	429.0	433.0	436.0
10°	444.8	446.8	444.8	437.4	442.4	438.4	436.9	441.4	440.4	441.4	445.8
12.5°	455.2	458.6	453.2	452.7	450.3	446.8	448.8	448.3	455.2	456.2	461.6
15°	476.4	467.5	465.5	465.0	464.1	462.6	463.6	464.1	472.9	474.4	487.2
17.5°	494.6	493.2	482.3	486.3	486.3	480.3	477.9	486.3	493.2	500.6	509.4
20°	513.4	511.9	500.1	500.6	496.1	501.5	498.6	506.5	518.3	520.8	528.7
22.5°	535.6	529.2	520.8	521.8	523.2	519.3	517.3	528.2	540.0	546.9	547.4
25°	570.6	554.3	547.4	548.4	546.4	543.5	544.9	558.7	564.7	579.5	576.5
27.5°	589.3	580.0	575.0	563.7	564.2	559.7	565.7	586.4	598.2	609.5	586.9
30°	612.0	606.1	584.4	580.4	580.0	578.0	588.8	615.5	633.2	639.6	607.1
32.5°	656.4	632.7	627.3	623.8	616.0	618.4	623.8	658.9	687.0	685.5	625.8
35°	707.2	690.9	675.6	672.7	671.7	664.8	674.1	715.1	736.8	730.4	632.7
37.5°	788.6	763.9	743.2	731.8	729.9	724.9	747.1	779.7	807.8	782.6	638.1
40°	828.5	800.9	781.7	774.8	776.2	783.1	804.8	854.6	867.0	820.6	642.6
42.5°	885.7	855.6	817.7	814.2	809.8	813.2	855.1	922.2	932.6	871.9	625.8
45°	987.3	941.9	898.0	878.3	879.3	888.7	953.8	1027.3	1008.0	907.4	599.2
47.5°	1115.5	1048.9	1013.4	986.8	999.6	989.3	1092.8	1151.5	1085.9	952.3	566.6
50°	1308.4	1215.1	1166.8	1134.8	1140.2	1149.1	1254.1	1303.9	1172.2	974.0	516.8
52.5°	1551.5	1431.6	1360.6	1317.7	1321.7	1340.9	1476.5	1461.2	1270.9	992.2	450.3
55°	1842.4	1719.2	1581.6	1563.8	1559.4	1605.2	1754.7	1625.9	1359.6	963.1	381.2
56°	1996.3	1865.1	1722.1	1685.6	1674.8	1706.8	1882.4	1708.3	1390.2	930.6	348.2
57°	2127.0	2001.7	1844.9	1782.8	1796.6	1856.7	2009.1	1785.7	1418.3	897.1	317.1
58°	2306.5	2163.5	1997.8	1950.4	1938.1	1986.0	2145.7	1863.6	1427.7	862.5	288.5
59°	2485.5	2313.9	2164.5	2078.2	2081.6	2168.9	2280.4	1956.4	1442.0	818.6	252.0
60°	2621.6	2535.3	2335.6	2271.0	2262.1	2388.4	2414.5	2018.5	1457.3	759.5	226.4
61°	2814.5	2702.0	2516.1	2432.8	2456.9	2558.0	2559.5	2096.4	1434.6	684.5	194.8
62°	2953.0	2923.4	2728.2	2648.8	2641.4	2775.5	2710.4	2165.0	1414.9	613.5	172.1
63°	3115.3	3115.3	2937.3	2875.1	2878.6	2984.6	2776.0	2233.5	1392.2	535.1	151.4
64°	3199.6	3305.6	3141.4	3054.1	3076.8	3168.5	2892.9	2278.4	1322.2	455.7	133.2
65°	3272.6	3431.9	3340.7	3300.2	3265.7	3319.9	2994.0	2320.3	1215.1	387.6	118.4
66°	3334.2	3550.7	3520.7	3477.3	3473.8	3461.5	3013.7	2318.8	1104.7	327.5	103.6
67°	3303.2	3553.2	3608.0	3626.2	3620.8	3490.6	2979.2	2266.1	963.1	276.7	92.2
67.5°	3275.1	3533.0	3660.2	3649.9	3672.6	3515.2	2985.1	2201.5	862.5	250.5	86.8
68°	3250.4	3505.9	3681.4	3694.7	3683.4	3518.2	2952.5	2150.2	794.0	235.2	81.9
69°	3063.5	3377.2	3647.4	3695.2	3666.1	3405.3	2849.0	2016.5	630.8	200.7	75.5
70°	2876.1	3210.5	3482.2	3570.0	3534.0	3186.8	2718.3	1804.0	520.3	171.6	68.1
71°	2616.7	2900.8	3262.2	3315.0	3271.6	2938.2	2448.0	1579.6	404.9	145.5	60.7
72°	2264.6	2505.7	2851.0	2978.7	2914.6	2580.7	2174.8	1305.4	328.0	122.3	55.2
72.5°	2090.0	2337.1	2670.0	2680.3	2692.6	2425.4	2058.9	1146.6	286.0	113.4	53.8
73°	1924.3	2166.4	2454.5	2490.9	2438.7	2163.5	1885.8	1025.3	261.4	103.6	51.8
74°	1559.4	1697.5	1936.1	1971.7	1925.8	1764.0	1541.1	786.1	208.1	89.3	47.3
75°	1227.0	1302.9	1518.9	1497.2	1428.7	1372.0	1194.9	600.7	168.7	78.4	43.9



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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	551.4	597.2	633.2	633.2	637.2	608.1	550.9	275.7	104.1	56.7	36.0
80°	210.1	235.2	243.1	243.6	247.1	255.9	238.2	135.6	61.6	40.4	29.1
82.5°	152.4	213.0	229.3	217.5	218.5	197.3	91.2	60.2	39.0	28.1	21.2
85°	138.1	185.4	196.3	194.8	195.3	182.5	53.8	29.6	22.7	17.8	14.8
87.5°	67.1	65.6	69.5	78.4	76.4	99.1	45.4	14.8	9.9	7.4	7.4
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):**

	135°	145°	155°	165°	175°	180°
0°	420.2	420.2	420.2	420.2	420.2	420.2
2.5°	417.7	417.2	424.1	417.2	421.2	418.2
5°	422.6	424.6	426.1	429.0	422.1	429.0
7.5°	437.4	439.4	439.9	442.4	439.4	438.9
10°	448.8	453.7	456.7	446.8	452.7	452.2
12.5°	471.0	466.0	465.5	463.6	458.1	456.2
15°	486.7	479.4	474.9	467.0	460.6	458.1
17.5°	508.9	494.6	476.4	460.1	448.8	439.9
20°	522.7	497.1	460.6	441.4	424.1	428.1
22.5°	531.6	494.6	446.3	421.7	404.4	409.3
25°	534.6	482.3	436.4	405.9	389.1	385.7
27.5°	526.2	468.0	417.2	382.7	367.9	370.9
30°	522.3	447.3	399.5	365.4	345.7	348.7
32.5°	511.9	426.1	375.8	341.3	327.0	322.0
35°	497.1	408.3	353.1	320.6	303.3	299.3
37.5°	478.9	386.1	333.4	293.9	278.6	275.7
40°	451.7	359.5	304.8	270.7	253.0	252.5
42.5°	428.1	333.9	278.1	243.1	225.4	226.4
45°	398.0	299.3	247.6	217.5	199.7	200.7
47.5°	359.5	267.3	218.5	184.9	170.1	169.2
50°	314.1	230.8	183.0	154.4	142.0	139.6
52.5°	270.7	193.8	149.9	124.3	113.9	112.9
55°	216.0	150.9	116.9	97.6	89.8	90.2
56°	196.3	139.1	106.5	89.3	83.3	83.3
57°	177.5	123.3	96.7	82.4	76.9	76.9
58°	156.8	108.5	87.8	74.5	72.0	70.0
59°	142.5	98.6	79.4	70.5	66.6	66.1
60°	125.8	88.8	74.0	66.1	63.1	62.6
61°	111.5	79.9	68.1	61.6	60.7	60.7
62°	99.6	74.0	63.1	59.7	59.2	57.7
63°	89.3	68.1	60.7	56.7	55.2	56.7
64°	79.9	62.6	58.7	55.7	53.8	54.7
65°	72.5	60.2	56.2	54.2	52.3	52.8
66°	67.6	56.2	54.2	51.8	50.8	51.3
67°	61.2	54.2	52.3	49.8	49.3	49.8
67.5°	59.2	52.8	51.3	48.8	48.3	48.8
68°	57.7	51.8	50.8	48.3	47.8	47.3
69°	53.8	49.8	48.3	47.3	46.4	45.9
70°	50.3	47.8	46.9	45.4	44.4	43.9
71°	48.3	45.4	44.9	43.4	42.4	41.9
72°	45.9	43.9	42.9	40.9	40.4	40.9
72.5°	45.4	42.9	42.4	40.4	39.9	39.9
73°	43.9	40.9	41.4	39.5	38.5	39.5
74°	40.9	39.9	39.0	37.5	37.0	37.0
75°	38.5	37.5	36.5	35.5	35.5	35.5



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	135°	145°	155°	165°	175°	180°
77.5°	32.5	32.1	32.5	30.6	30.1	29.6
80°	26.1	26.1	26.6	25.2	24.2	23.7
82.5°	19.7	20.2	21.2	19.7	18.7	17.8
85°	12.8	13.3	13.3	11.8	13.8	12.8
87.5°	6.4	6.9	6.4	5.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)