

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: P676097

Luminaire Tested: **CCW-SA-1A-727-U-T1**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676097  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-727-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T1 distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

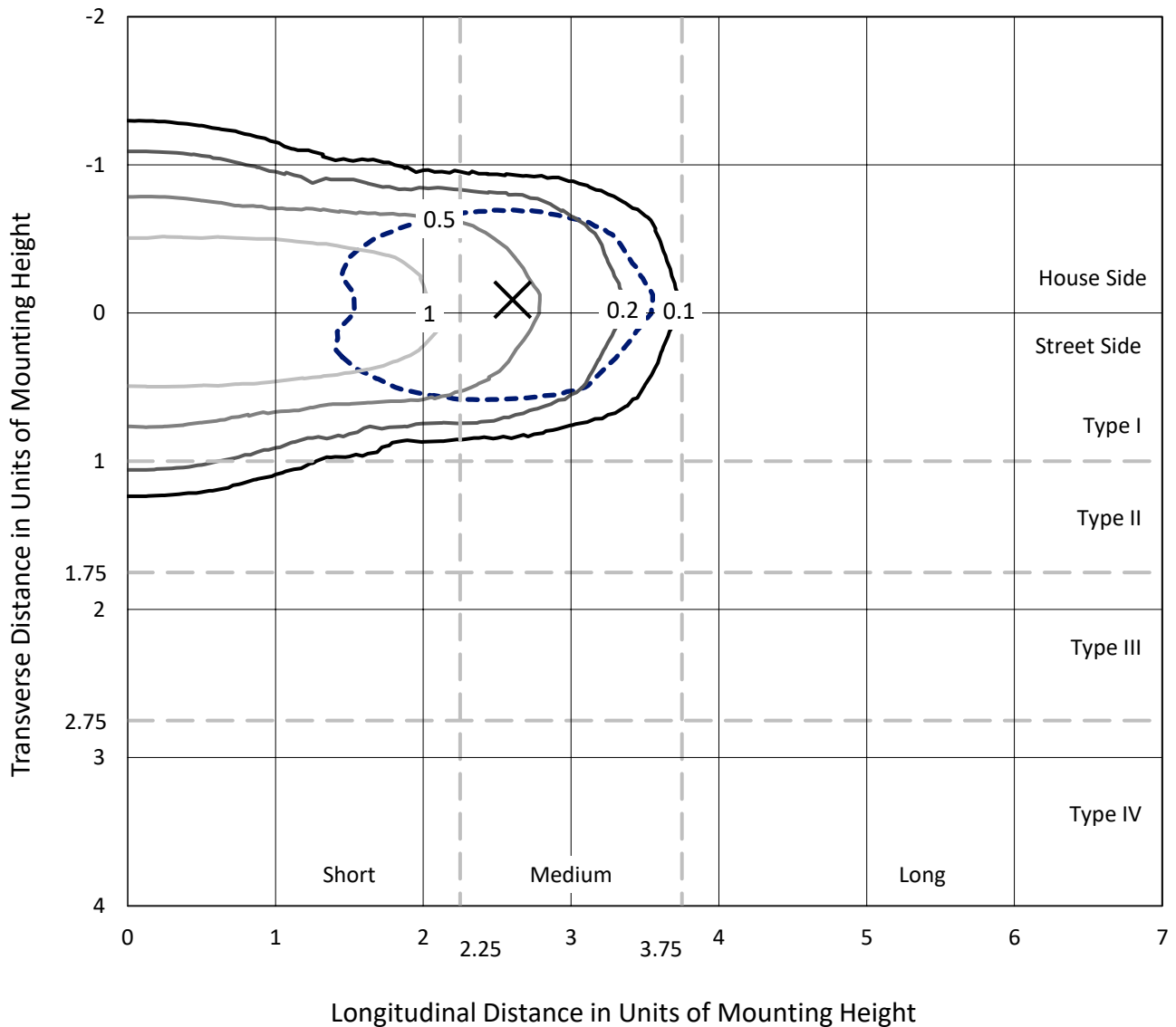
Lumens per Lamp: N/A  
Luminaire Lumens: 2228 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (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

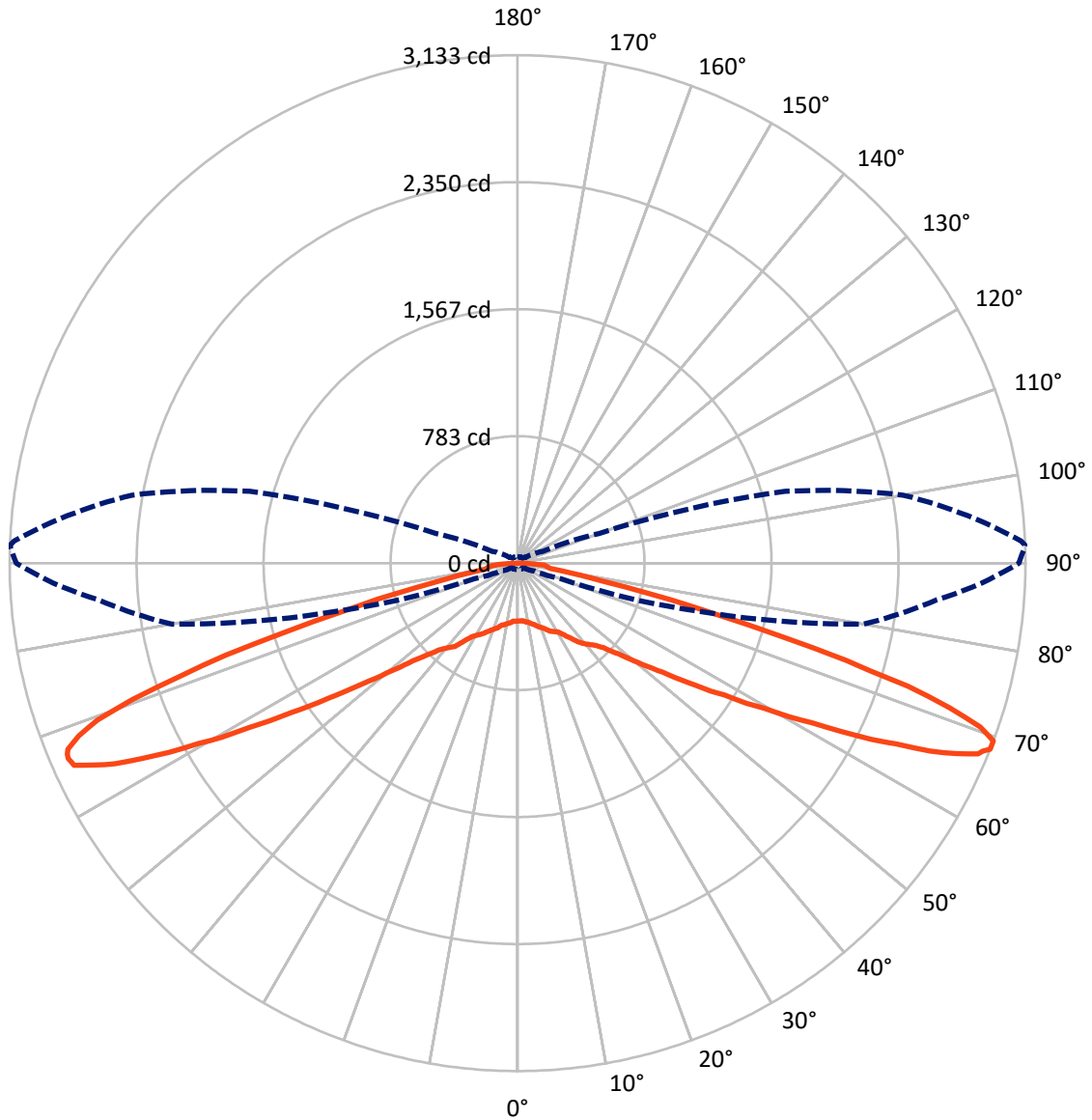
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 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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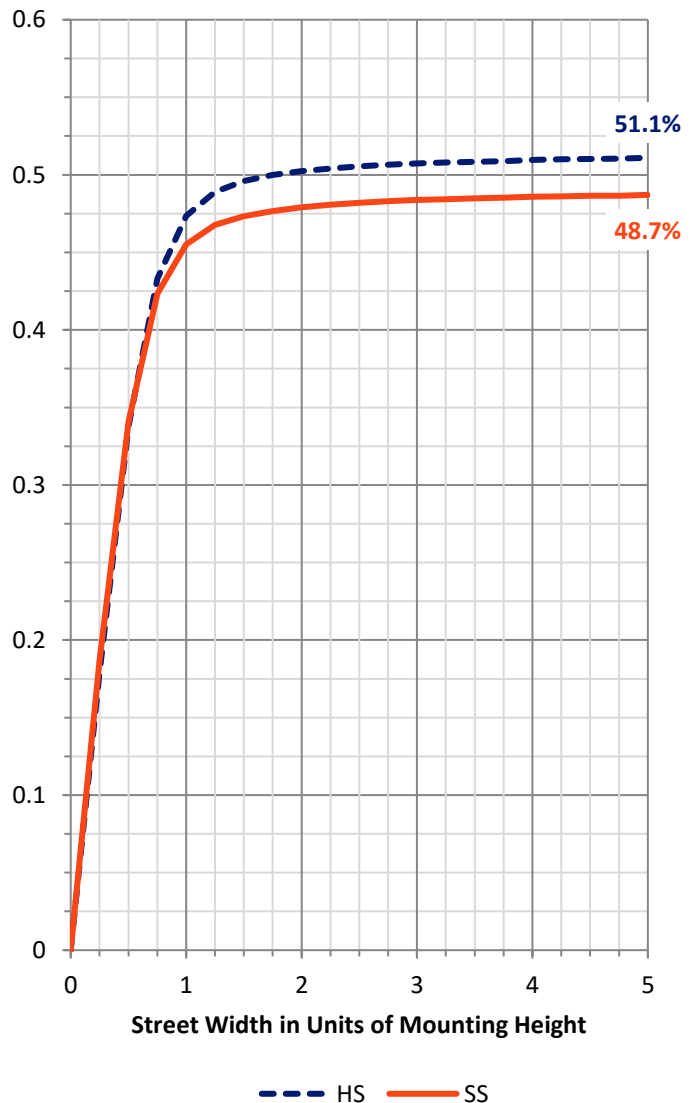
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1147.4	0.0	1147.4
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	1080.6	0.0	1080.6
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	2228.0	0.0	2228.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.7	1.6
10°-20°	115.6	5.2
20°-30°	197.2	8.9
30°-40°	275.4	12.4
40°-50°	350.3	15.7
50°-60°	443.0	19.9
60°-70°	546.3	24.5
70°-80°	238.6	10.7
80°-90°	25.9	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°	2228.0	100.0
0°-180°	2228.0	100.0



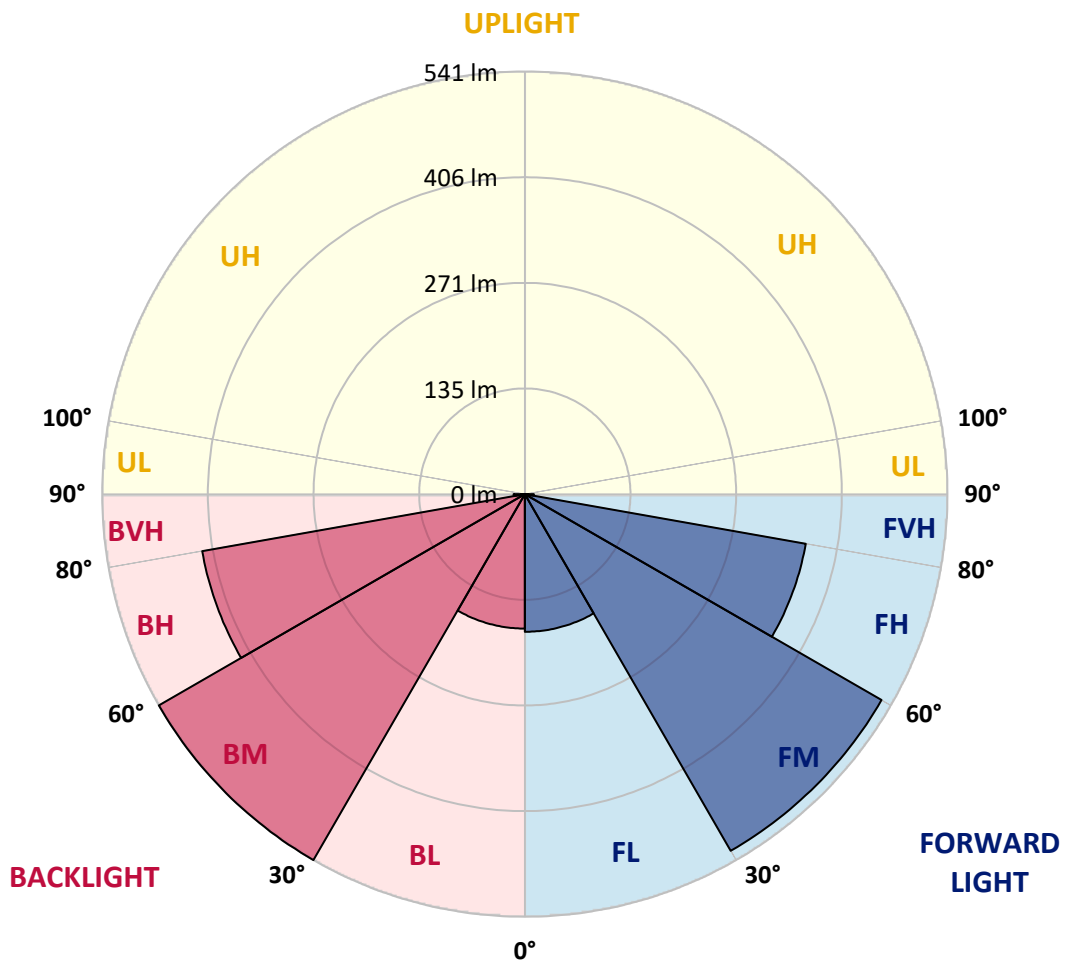
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	176.3	7.9			
FM (30°-60°)	527.5	23.7			
FH (60°-80°)	365.3	16.4			G0/660
FVH (80°-90°)	11.5	0.5			G1/100
BL (0°-30°)	172.2	7.7	B1/500		
BM (30°-60°)	541.2	24.3	B1/1000		
BH (60°-80°)	419.6	18.8	B1/500		G1/500
BVH (80°-90°)	14.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3
2.5°	363.8	363.4	364.6	365.5	361.7	363.0	362.1	361.3	358.4	357.1	354.6
5°	373.8	375.1	379.3	375.5	377.2	375.1	368.4	370.5	366.7	365.9	363.4
7.5°	391.4	388.9	394.7	390.6	391.8	387.6	384.7	380.9	380.1	374.3	374.7
10°	395.2	400.2	402.7	401.8	402.7	404.8	399.3	393.5	385.5	383.9	378.0
12.5°	392.7	397.2	403.9	409.4	413.1	414.0	411.9	410.6	407.3	397.7	397.2
15°	390.1	386.8	391.0	409.8	422.3	430.7	433.6	426.5	427.4	414.8	409.8
17.5°	373.4	368.4	384.7	403.1	418.6	437.0	451.2	449.1	449.1	439.1	432.0
20°	351.3	359.6	368.0	391.4	419.8	447.4	474.6	473.4	468.3	465.4	449.9
22.5°	332.4	336.2	351.7	376.3	411.9	450.4	482.6	505.6	493.8	482.1	472.9
25°	319.5	316.1	335.8	361.3	404.4	445.3	497.6	521.4	527.7	518.9	501.4
27.5°	301.1	301.1	316.5	340.8	380.1	442.8	512.2	548.6	557.8	544.9	519.4
30°	280.2	282.7	296.1	323.7	362.1	424.4	518.1	580.0	587.5	576.2	549.9
32.5°	263.9	263.9	278.9	308.2	349.6	416.1	514.3	610.9	625.1	616.8	589.6
35°	246.3	245.0	255.9	288.1	329.5	399.8	513.1	635.6	667.4	667.8	639.4
37.5°	221.2	226.2	240.0	265.5	313.6	383.9	509.3	665.3	722.2	731.8	712.1
40°	204.5	206.6	219.1	247.1	288.9	365.1	503.9	689.5	758.5	791.6	764.4
42.5°	180.2	183.2	192.8	227.5	265.1	338.3	480.0	706.7	810.4	848.0	825.0
45°	154.7	156.4	170.6	199.0	239.6	306.5	454.5	734.3	860.6	937.5	924.1
47.5°	124.2	125.0	137.2	166.8	209.1	274.7	415.2	733.0	901.1	1027.0	1064.6
50°	97.0	99.1	108.3	132.6	172.3	235.8	369.7	723.0	952.1	1129.0	1203.0
52.5°	77.4	77.8	83.6	102.9	133.0	197.0	320.7	691.2	1000.2	1229.0	1372.8
55°	64.0	64.0	67.3	79.0	102.0	149.7	263.4	638.5	1006.1	1339.4	1558.1
56°	61.5	60.6	63.6	73.6	92.0	135.1	236.7	603.0	1014.5	1390.4	1650.9
57°	58.1	58.5	60.2	67.3	82.8	119.6	207.0	568.3	1008.6	1432.2	1719.5
58°	56.5	55.6	59.0	63.6	73.2	106.2	186.5	527.3	999.4	1466.5	1819.4
59°	53.9	53.5	55.6	59.8	68.2	94.5	161.4	483.0	981.4	1510.8	1893.8
60°	53.1	52.7	53.5	56.9	62.7	82.8	142.2	431.1	933.3	1556.4	1986.2
61°	50.6	51.0	52.7	54.8	59.4	74.4	128.0	378.0	902.0	1594.9	2088.3
62°	51.0	50.2	51.0	52.7	56.0	68.6	112.1	325.7	845.9	1638.3	2164.8
63°	48.5	48.1	49.3	51.4	53.1	61.9	97.8	281.4	782.4	1648.4	2229.6
64°	47.7	47.3	47.7	50.6	51.0	58.1	86.6	240.4	690.4	1665.5	2312.8
65°	45.6	45.6	46.4	47.7	49.3	54.8	77.4	208.7	598.8	1620.4	2338.3
66°	43.9	44.3	44.3	46.4	47.7	51.0	71.1	177.3	511.0	1548.4	2363.0
67°	42.7	42.7	43.1	44.7	46.0	48.1	64.0	153.5	431.1	1462.7	2325.0
67.5°	41.8	42.2	42.2	43.9	45.2	48.1	61.1	145.5	385.5	1368.6	2296.5
68°	40.6	41.0	41.0	42.7	43.9	46.4	59.0	133.0	355.4	1307.6	2243.8
69°	39.7	39.3	39.3	41.0	42.7	44.3	54.8	116.2	282.7	1137.0	2166.9
70°	37.2	37.2	38.1	39.3	40.6	42.2	50.6	102.4	239.2	941.3	1968.7
71°	36.0	35.5	36.0	37.2	38.5	40.6	46.4	90.7	195.7	781.5	1773.8
72°	33.5	34.3	34.3	35.5	36.8	38.1	43.5	79.0	164.3	624.7	1559.3
72.5°	33.0	33.0	33.5	34.7	35.5	37.6	41.8	75.7	150.1	550.7	1469.4
73°	31.8	31.8	32.2	33.5	34.3	36.4	40.6	68.2	136.7	490.1	1301.3
74°	30.5	30.1	30.1	31.8	32.2	34.3	38.1	60.2	114.6	369.2	1044.6
75°	28.4	28.4	28.9	29.7	30.1	31.8	35.1	53.5	96.6	286.4	817.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	23.4	23.8	24.3	25.1	25.1	26.3	28.9	37.2	59.0	145.1	375.1
80°	17.1	18.0	19.2	20.5	20.1	20.1	22.6	26.8	35.1	65.2	143.8
82.5°	13.8	14.6	13.4	15.1	15.1	14.2	16.3	19.7	23.8	32.2	51.4
85°	9.2	9.6	7.9	9.2	8.8	8.8	10.9	11.7	14.6	18.0	25.5
87.5°	4.2	4.2	3.3	3.8	3.8	3.8	5.4	4.2	6.3	8.8	15.1
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):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3
2.5°	357.1	358.8	358.8	357.1	355.9	357.1	356.3	354.2	356.3	357.1	357.5
5°	362.1	358.8	360.5	356.7	359.2	358.8	357.9	360.0	360.5	360.5	363.4
7.5°	367.6	371.7	366.3	366.7	368.0	363.0	364.6	365.5	363.8	367.1	369.7
10°	377.2	378.9	377.2	370.9	375.1	371.7	370.5	374.3	373.4	374.3	378.0
12.5°	386.0	388.9	384.3	383.9	381.8	378.9	380.5	380.1	386.0	386.8	391.4
15°	403.9	396.4	394.7	394.3	393.5	392.2	393.1	393.5	401.0	402.3	413.1
17.5°	419.4	418.2	409.0	412.3	412.3	407.3	405.2	412.3	418.2	424.4	432.0
20°	435.3	434.0	424.0	424.4	420.7	425.3	422.8	429.4	439.5	441.6	448.3
22.5°	454.1	448.7	441.6	442.4	443.7	440.3	438.6	447.8	457.9	463.7	464.2
25°	483.8	470.0	464.2	465.0	463.3	460.8	462.1	473.8	478.8	491.3	488.8
27.5°	499.7	491.8	487.6	478.0	478.4	474.6	479.6	497.2	507.2	516.8	497.6
30°	518.9	513.9	495.5	492.2	491.8	490.1	499.3	521.9	536.9	542.4	514.8
32.5°	556.6	536.5	531.9	529.0	522.3	524.4	529.0	558.7	582.5	581.2	530.6
35°	599.6	585.8	572.9	570.4	569.5	563.7	571.6	606.3	624.7	619.3	536.5
37.5°	668.6	647.7	630.2	620.5	618.9	614.7	633.5	661.1	684.9	663.6	541.1
40°	702.5	679.1	662.8	656.9	658.2	664.0	682.4	724.7	735.1	695.8	544.9
42.5°	751.0	725.5	693.3	690.4	686.6	689.5	725.1	782.0	790.7	739.3	530.6
45°	837.2	798.7	761.5	744.7	745.6	753.5	808.7	871.0	854.7	769.4	508.1
47.5°	945.9	889.4	859.3	836.7	847.6	838.8	926.6	976.4	920.8	807.5	480.5
50°	1109.4	1030.3	989.4	962.2	966.8	974.3	1063.4	1105.6	994.0	825.9	438.2
52.5°	1315.5	1213.9	1153.7	1117.3	1120.7	1137.0	1252.0	1239.0	1077.6	841.3	381.8
55°	1562.2	1457.7	1341.0	1326.0	1322.2	1361.1	1487.8	1378.7	1152.9	816.7	323.2
56°	1692.7	1581.5	1460.2	1429.3	1420.1	1447.2	1596.1	1448.5	1178.8	789.1	295.2
57°	1803.5	1697.3	1564.3	1511.6	1523.3	1574.4	1703.6	1514.1	1202.6	760.6	268.9
58°	1955.7	1834.5	1694.0	1653.8	1643.4	1683.9	1819.4	1580.2	1210.6	731.4	244.6
59°	2107.5	1962.0	1835.3	1762.1	1765.0	1839.1	1933.6	1658.8	1222.7	694.1	213.7
60°	2222.9	2149.7	1980.4	1925.6	1918.1	2025.1	2047.3	1711.5	1235.7	644.0	191.9
61°	2386.4	2291.1	2133.4	2062.8	2083.3	2169.0	2170.2	1777.6	1216.4	580.4	165.2
62°	2503.9	2478.8	2313.2	2245.9	2239.7	2353.4	2298.2	1835.7	1199.7	520.2	145.9
63°	2641.5	2641.5	2490.5	2437.9	2440.8	2530.7	2353.8	1893.8	1180.5	453.7	128.4
64°	2713.0	2802.9	2663.7	2589.7	2608.9	2686.7	2452.9	1931.9	1121.1	386.4	112.9
65°	2774.9	2910.0	2832.6	2798.3	2769.0	2815.0	2538.6	1967.4	1030.3	328.7	100.4
66°	2827.2	3010.7	2985.2	2948.4	2945.5	2935.0	2555.4	1966.2	936.7	277.7	87.8
67°	2800.8	3012.8	3059.2	3074.7	3070.1	2959.7	2526.1	1921.4	816.7	234.6	78.2
67.5°	2777.0	2995.7	3103.6	3094.8	3114.0	2980.6	2531.1	1866.7	731.4	212.4	73.6
68°	2756.1	2972.7	3121.5	3132.8	3123.2	2983.1	2503.5	1823.2	673.2	199.5	69.4
69°	2597.6	2863.5	3092.7	3133.3	3108.6	2887.4	2415.7	1709.8	534.8	170.2	64.0
70°	2438.7	2722.2	2952.6	3027.0	2996.5	2702.1	2304.9	1529.6	441.2	145.5	57.7
71°	2218.7	2459.6	2766.1	2810.9	2774.1	2491.4	2075.7	1339.4	343.3	123.4	51.4
72°	1920.2	2124.7	2417.4	2525.7	2471.3	2188.2	1844.1	1106.9	278.1	103.7	46.8
72.5°	1772.2	1981.6	2263.9	2272.7	2283.1	2056.5	1745.8	972.2	242.5	96.2	45.6
73°	1631.7	1837.0	2081.2	2112.1	2067.8	1834.5	1599.0	869.4	221.6	87.8	43.9
74°	1322.2	1439.3	1641.7	1671.8	1632.9	1495.8	1306.7	666.5	176.5	75.7	40.1
75°	1040.4	1104.8	1287.9	1269.5	1211.4	1163.3	1013.2	509.3	143.0	66.5	37.2



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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	467.5	506.4	536.9	536.9	540.3	515.6	467.1	233.8	88.2	48.1	30.5
80°	178.1	199.5	206.2	206.6	209.5	217.0	202.0	115.0	52.3	34.3	24.7
82.5°	129.2	180.6	194.4	184.4	185.2	167.3	77.4	51.0	33.0	23.8	18.0
85°	117.1	157.2	166.4	165.2	165.6	154.7	45.6	25.1	19.2	15.1	12.5
87.5°	56.9	55.6	59.0	66.5	64.8	84.0	38.5	12.5	8.4	6.3	6.3
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°	356.3	356.3	356.3	356.3	356.3	356.3
2.5°	354.2	353.8	359.6	353.8	357.1	354.6
5°	358.4	360.0	361.3	363.8	357.9	363.8
7.5°	370.9	372.6	373.0	375.1	372.6	372.2
10°	380.5	384.7	387.2	378.9	383.9	383.5
12.5°	399.3	395.2	394.7	393.1	388.5	386.8
15°	412.7	406.4	402.7	396.0	390.6	388.5
17.5°	431.5	419.4	403.9	390.1	380.5	373.0
20°	443.2	421.5	390.6	374.3	359.6	363.0
22.5°	450.8	419.4	378.4	357.5	342.9	347.1
25°	453.3	409.0	370.1	344.1	329.9	327.0
27.5°	446.2	396.8	353.8	324.5	311.9	314.5
30°	442.8	379.3	338.7	309.9	293.1	295.6
32.5°	434.0	361.3	318.6	289.4	277.2	273.1
35°	421.5	346.2	299.4	271.8	257.2	253.8
37.5°	406.0	327.4	282.7	249.2	236.3	233.8
40°	383.0	304.8	258.4	229.6	214.5	214.1
42.5°	363.0	283.1	235.8	206.2	191.1	191.9
45°	337.5	253.8	209.9	184.4	169.4	170.2
47.5°	304.8	226.6	185.2	156.8	144.3	143.4
50°	266.4	195.7	155.1	130.9	120.4	118.3
52.5°	229.6	164.3	127.1	105.4	96.6	95.8
55°	183.2	128.0	99.1	82.8	76.1	76.5
56°	166.4	117.9	90.3	75.7	70.7	70.7
57°	150.5	104.5	82.0	69.8	65.2	65.2
58°	133.0	92.0	74.4	63.1	61.1	59.4
59°	120.8	83.6	67.3	59.8	56.5	56.0
60°	106.6	75.3	62.7	56.0	53.5	53.1
61°	94.5	67.7	57.7	52.3	51.4	51.4
62°	84.5	62.7	53.5	50.6	50.2	48.9
63°	75.7	57.7	51.4	48.1	46.8	48.1
64°	67.7	53.1	49.8	47.3	45.6	46.4
65°	61.5	51.0	47.7	46.0	44.3	44.7
66°	57.3	47.7	46.0	43.9	43.1	43.5
67°	51.9	46.0	44.3	42.2	41.8	42.2
67.5°	50.2	44.7	43.5	41.4	41.0	41.4
68°	48.9	43.9	43.1	41.0	40.6	40.1
69°	45.6	42.2	41.0	40.1	39.3	38.9
70°	42.7	40.6	39.7	38.5	37.6	37.2
71°	41.0	38.5	38.1	36.8	36.0	35.5
72°	38.9	37.2	36.4	34.7	34.3	34.7
72.5°	38.5	36.4	36.0	34.3	33.9	33.9
73°	37.2	34.7	35.1	33.5	32.6	33.5
74°	34.7	33.9	33.0	31.8	31.4	31.4
75°	32.6	31.8	30.9	30.1	30.1	30.1



REPORT NUMBER: P676097  
CATALOG NUMBER: CCW-SA-1A-727-U-T1

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
77.5°	27.6	27.2	27.6	25.9	25.5	25.1
80°	22.2	22.2	22.6	21.3	20.5	20.1
82.5°	16.7	17.1	18.0	16.7	15.9	15.1
85°	10.9	11.3	11.3	10.0	11.7	10.9
87.5°	5.4	5.9	5.4	5.0	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)