

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: P676151

Luminaire Tested: **CCW-SA-2E-750-U-T1**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676151  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-750-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T1 distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

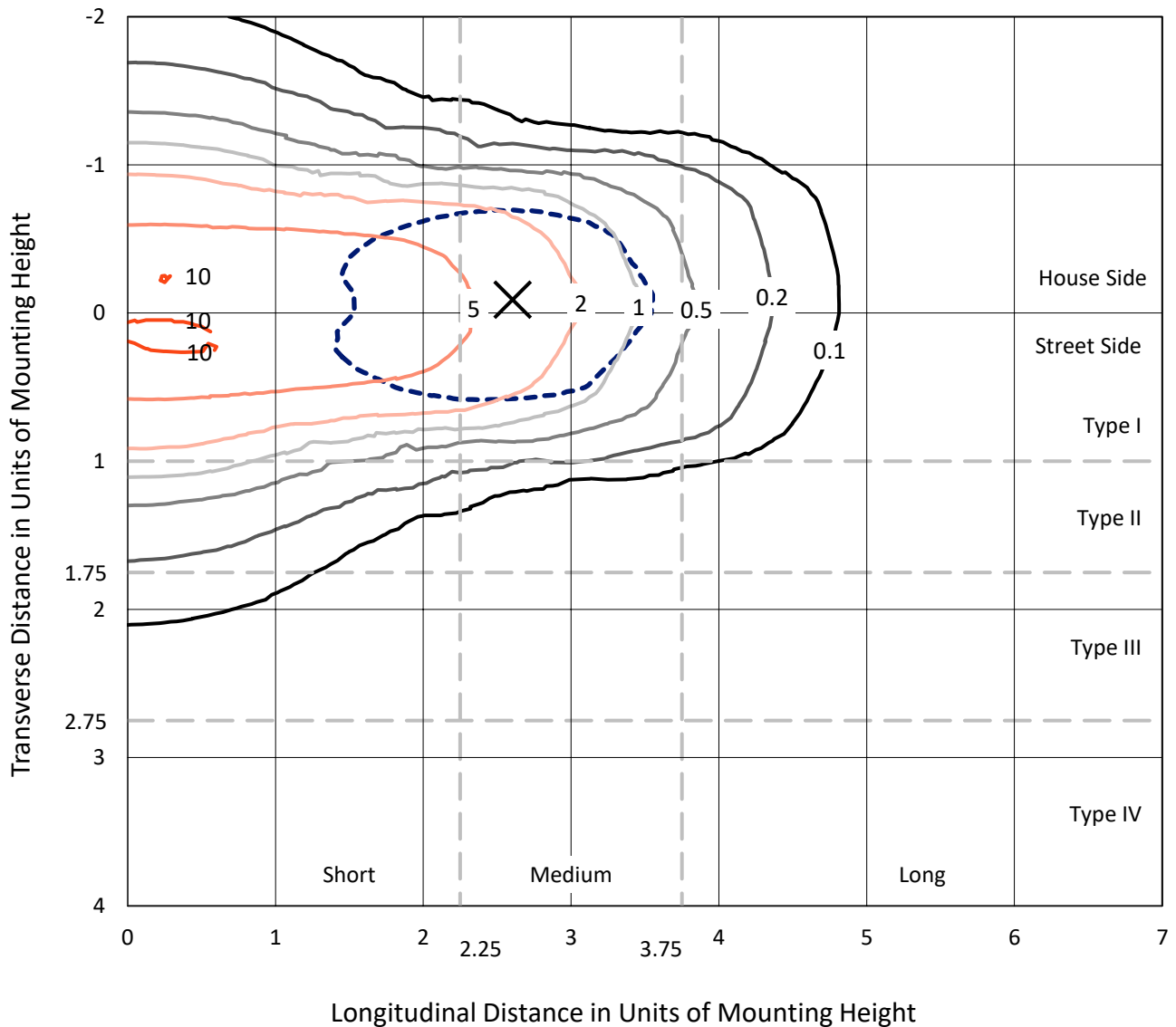
Lumens per Lamp: N/A  
Luminaire Lumens: 13619.4 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 106.6  
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

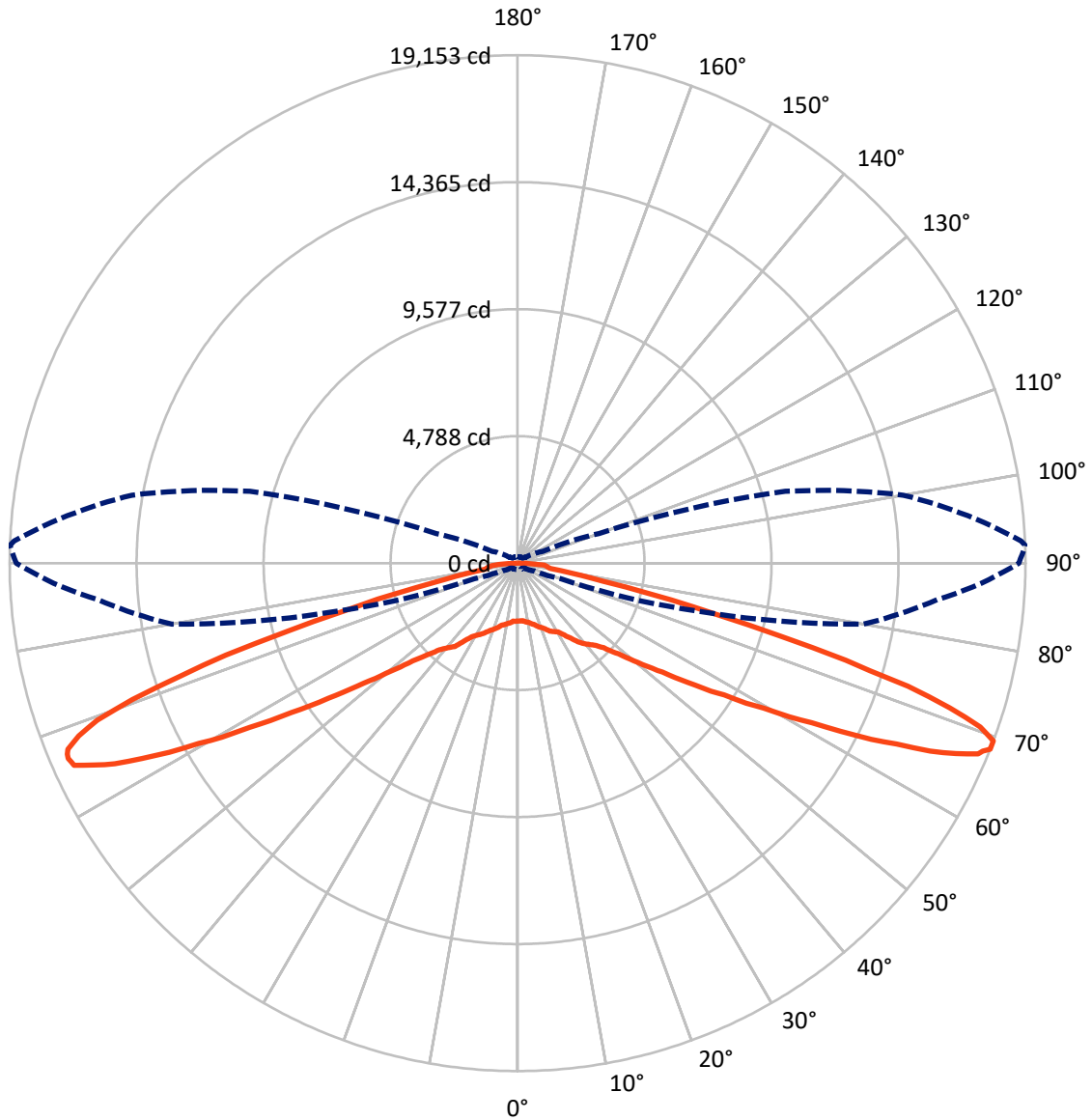
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.5 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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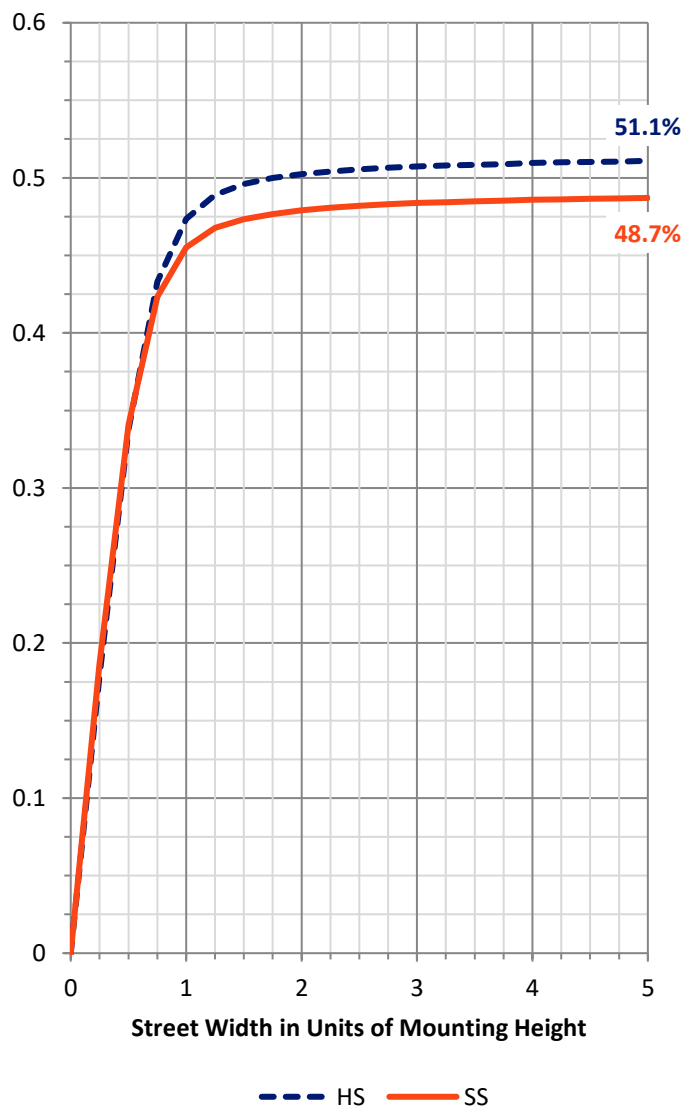
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7013.8	0.0	7013.8
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	6605.6	0.0	6605.6
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	13619.4	0.0	13619.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.2	1.6
10°-20°	706.5	5.2
20°-30°	1205.7	8.9
30°-40°	1683.5	12.4
40°-50°	2141.5	15.7
50°-60°	2707.7	19.9
60°-70°	3339.3	24.5
70°-80°	1458.7	10.7
80°-90°	158.2	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°	13619.4	100.0
0°-180°	13619.4	100.0

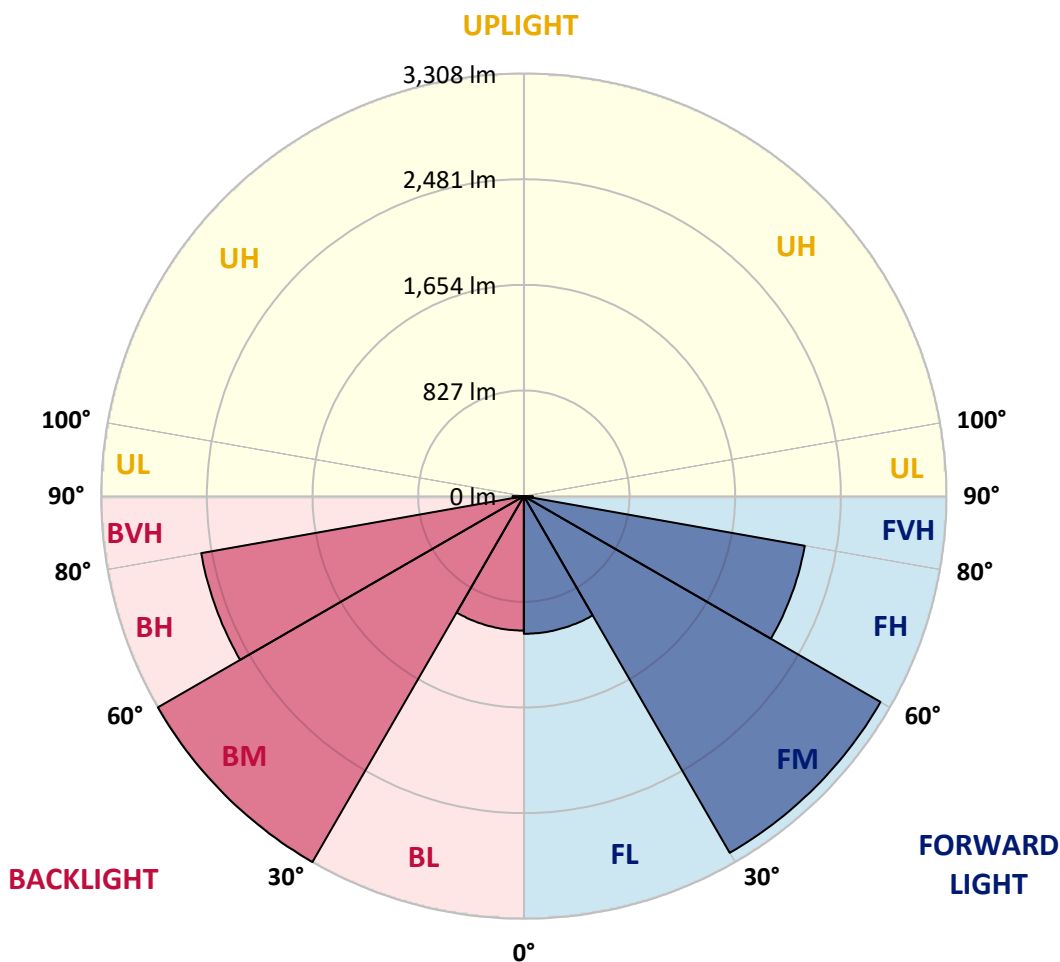


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1077.9	7.9			
FM (30°-60°)	3224.3	23.7			
FH (60°-80°)	2233.3	16.4			G2/5000
FVH (80°-90°)	70.2	0.5			G1/100
BL (0°-30°)	1052.5	7.7	B3/2500		
BM (30°-60°)	3308.4	24.3	B3/5000		
BH (60°-80°)	2564.8	18.8	B4/5000		G4/5000
BVH (80°-90°)	88.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9
2.5°	2223.9	2221.3	2229.0	2234.1	2211.1	2218.8	2213.6	2208.5	2190.6	2183.0	2167.6
5°	2285.2	2292.9	2318.4	2295.4	2305.7	2292.9	2252.0	2264.8	2241.8	2236.7	2221.3
7.5°	2392.6	2377.2	2413.0	2387.5	2395.1	2369.6	2351.7	2328.7	2323.6	2287.8	2290.3
10°	2415.6	2446.3	2461.6	2456.5	2461.6	2474.4	2441.1	2405.4	2356.8	2346.6	2310.8
12.5°	2400.2	2428.4	2469.3	2502.5	2525.5	2530.6	2517.8	2510.2	2489.7	2430.9	2428.4
15°	2384.9	2364.5	2390.0	2505.0	2581.7	2632.9	2650.8	2607.3	2612.4	2535.7	2505.0
17.5°	2282.7	2252.0	2351.7	2464.2	2558.7	2671.2	2758.1	2745.3	2745.3	2684.0	2640.5
20°	2147.2	2198.3	2249.4	2392.6	2566.4	2735.1	2901.3	2893.6	2862.9	2845.0	2750.4
22.5°	2032.2	2055.2	2149.7	2300.6	2517.8	2753.0	2949.8	3090.4	3018.8	2947.3	2891.0
25°	1952.9	1932.5	2052.6	2208.5	2471.8	2722.3	3041.8	3187.5	3225.9	3172.2	3064.9
27.5°	1840.4	1840.4	1935.0	2083.3	2323.6	2707.0	3131.3	3353.7	3409.9	3330.7	3174.8
30°	1712.6	1728.0	1809.8	1978.5	2213.6	2594.5	3167.1	3545.4	3591.4	3522.4	3361.4
32.5°	1612.9	1612.9	1705.0	1883.9	2137.0	2543.4	3144.1	3734.6	3821.5	3770.4	3604.2
35°	1505.6	1497.9	1564.4	1761.2	2014.3	2443.7	3136.4	3885.4	4079.7	4082.2	3908.4
37.5°	1352.2	1382.9	1467.2	1623.2	1917.1	2346.6	3113.4	4066.9	4414.5	4473.3	4353.2
40°	1250.0	1262.7	1339.4	1510.7	1766.3	2231.5	3080.2	4215.1	4636.9	4838.8	4672.7
42.5°	1101.7	1119.6	1178.4	1390.6	1620.6	2067.9	2934.5	4319.9	4953.9	5183.9	5043.3
45°	945.8	956.0	1042.9	1216.7	1464.7	1873.7	2778.6	4488.6	5260.6	5730.9	5649.1
47.5°	759.2	764.3	838.4	1019.9	1278.1	1679.4	2538.3	4481.0	5508.6	6278.0	6508.0
50°	593.0	605.8	662.0	810.3	1053.1	1441.7	2259.7	4419.6	5820.4	6901.7	7354.1
52.5°	472.9	475.4	511.2	628.8	812.9	1204.0	1960.6	4225.4	6114.4	7512.6	8391.9
55°	391.1	391.1	411.5	483.1	623.7	915.1	1610.4	3903.3	6150.2	8187.4	9524.3
56°	375.8	370.6	388.5	449.9	562.4	825.6	1446.8	3686.0	6201.3	8499.3	10091.8
57°	355.3	357.9	368.1	411.5	506.1	731.1	1265.3	3473.8	6165.5	8754.9	10511.0
58°	345.1	340.0	360.4	388.5	447.3	649.3	1140.1	3223.3	6109.3	8964.5	11121.9
59°	329.7	327.2	340.0	365.5	416.7	577.7	986.7	2952.4	5999.3	9235.5	11576.9
60°	324.6	322.1	327.2	347.6	383.4	506.1	869.1	2635.4	5705.4	9514.1	12141.8
61°	309.3	311.9	322.1	334.9	363.0	455.0	782.2	2310.8	5513.7	9749.2	12765.5
62°	311.9	306.7	311.9	322.1	342.5	419.2	685.1	1991.3	5171.1	10015.1	13233.3
63°	296.5	294.0	301.6	314.4	324.6	378.3	598.1	1720.3	4782.6	10076.4	13629.5
64°	291.4	288.8	291.4	309.3	311.9	355.3	529.1	1469.8	4220.2	10181.2	14138.2
65°	278.6	278.6	283.7	291.4	301.6	334.9	472.9	1275.5	3660.4	9905.2	14294.1
66°	268.4	271.0	271.0	283.7	291.4	311.9	434.5	1083.8	3123.6	9465.5	14444.9
67°	260.7	260.7	263.3	273.5	281.2	294.0	391.1	938.1	2635.4	8941.5	14212.3
67.5°	255.6	258.2	258.2	268.4	276.1	294.0	373.2	889.5	2356.8	8366.4	14038.5
68°	247.9	250.5	250.5	260.7	268.4	283.7	360.4	812.9	2172.7	7993.2	13716.4
69°	242.8	240.3	240.3	250.5	260.7	271.0	334.9	710.6	1728.0	6950.2	13246.1
70°	227.5	227.5	232.6	240.3	247.9	258.2	309.3	626.3	1462.1	5753.9	12034.5
71°	219.8	217.3	219.8	227.5	235.2	247.9	283.7	554.7	1196.3	4777.5	10843.3
72°	204.5	209.6	209.6	217.3	224.9	232.6	265.8	483.1	1004.6	3818.9	9532.0
72.5°	201.9	201.9	204.5	212.2	217.3	230.1	255.6	462.7	917.7	3366.5	8982.4
73°	194.3	194.3	196.8	204.5	209.6	222.4	247.9	416.7	835.9	2995.8	7954.8
74°	186.6	184.0	184.0	194.3	196.8	209.6	232.6	368.1	700.4	2257.1	6385.3
75°	173.8	173.8	176.4	181.5	184.0	194.3	214.7	327.2	590.5	1751.0	4994.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	143.1	145.7	148.3	153.4	153.4	161.0	176.4	227.5	360.4	887.0	2292.9
80°	104.8	109.9	117.6	125.3	122.7	122.7	138.0	163.6	214.7	398.8	879.3
82.5°	84.4	89.5	81.8	92.0	92.0	86.9	99.7	120.1	145.7	196.8	314.4
85°	56.2	58.8	48.6	56.2	53.7	53.7	66.5	71.6	89.5	109.9	155.9
87.5°	25.6	25.6	20.4	23.0	23.0	23.0	33.2	25.6	38.3	53.7	92.0
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°	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9
2.5°	2183.0	2193.2	2193.2	2183.0	2175.3	2183.0	2177.9	2165.1	2177.9	2183.0	2185.5
5°	2213.6	2193.2	2203.4	2180.4	2195.8	2193.2	2188.1	2200.9	2203.4	2203.4	2221.3
7.5°	2246.9	2272.4	2239.2	2241.8	2249.4	2218.8	2229.0	2234.1	2223.9	2244.3	2259.7
10°	2305.7	2315.9	2305.7	2267.3	2292.9	2272.4	2264.8	2287.8	2282.7	2287.8	2310.8
12.5°	2359.3	2377.2	2349.1	2346.6	2333.8	2315.9	2326.1	2323.6	2359.3	2364.5	2392.6
15°	2469.3	2423.3	2413.0	2410.5	2405.4	2397.7	2402.8	2405.4	2451.4	2459.0	2525.5
17.5°	2563.8	2556.2	2499.9	2520.4	2520.4	2489.7	2476.9	2520.4	2556.2	2594.5	2640.5
20°	2661.0	2653.3	2592.0	2594.5	2571.5	2599.6	2584.3	2625.2	2686.5	2699.3	2740.2
22.5°	2776.0	2742.8	2699.3	2704.4	2712.1	2691.7	2681.4	2737.7	2799.0	2834.8	2837.4
25°	2957.5	2873.1	2837.4	2842.5	2832.2	2816.9	2824.6	2896.1	2926.8	3003.5	2988.2
27.5°	3054.6	3006.1	2980.5	2921.7	2924.3	2901.3	2931.9	3039.3	3100.6	3159.4	3041.8
30°	3172.2	3141.5	3029.1	3008.6	3006.1	2995.8	3052.1	3190.1	3282.1	3315.4	3146.6
32.5°	3402.3	3279.6	3251.5	3233.6	3192.7	3205.4	3233.6	3415.0	3560.7	3553.1	3243.8
35°	3665.6	3581.2	3502.0	3486.6	3481.5	3445.7	3494.3	3706.5	3818.9	3785.7	3279.6
37.5°	4087.3	3959.5	3852.2	3793.4	3783.1	3757.6	3872.6	4041.3	4187.0	4056.6	3307.7
40°	4294.4	4151.2	4051.5	4015.7	4023.4	4059.2	4171.7	4429.8	4493.8	4253.5	3330.7
42.5°	4590.9	4435.0	4238.1	4220.2	4197.2	4215.1	4432.4	4780.0	4833.7	4519.3	3243.8
45°	5117.5	4882.3	4654.8	4552.5	4557.7	4606.2	4943.6	5324.5	5224.8	4703.4	3105.8
47.5°	5782.1	5437.0	5252.9	5114.9	5181.4	5127.7	5664.5	5968.7	5628.7	4936.0	2937.0
50°	6781.5	6298.4	6047.9	5881.8	5909.9	5955.9	6500.3	6758.5	6076.0	5048.4	2678.9
52.5°	8041.7	7420.6	7052.5	6830.1	6850.5	6950.2	7653.2	7573.9	6587.3	5143.0	2333.8
55°	9549.9	8910.8	8197.6	8105.6	8082.6	8320.3	9094.9	8427.7	7047.4	4992.2	1975.9
56°	10347.4	9667.4	8926.2	8737.0	8680.8	8846.9	9756.9	8854.6	7205.9	4823.5	1804.7
57°	11024.8	10375.5	9562.6	9240.6	9312.1	9624.0	10413.9	9255.9	7351.6	4649.7	1643.6
58°	11955.2	11213.9	10355.1	10109.7	10045.8	10293.7	11121.9	9659.8	7400.1	4470.7	1495.4
59°	12883.1	11993.6	11219.0	10771.7	10789.6	11242.1	11819.7	10140.3	7474.3	4243.2	1306.2
60°	13588.6	13141.3	12106.0	11771.2	11725.2	12379.5	12515.0	10462.4	7553.5	3936.5	1173.3
61°	14588.1	14005.3	13041.6	12609.6	12734.9	13258.9	13266.5	10866.3	7435.9	3548.0	1009.7
62°	15306.4	15153.0	14140.8	13729.2	13690.9	14386.1	14048.7	11221.6	7333.7	3179.9	892.1
63°	16147.3	16147.3	15224.6	14902.5	14920.4	15470.0	14388.7	11576.9	7216.1	2773.4	784.7
64°	16584.5	17134.0	16282.8	15830.4	15948.0	16423.4	14994.5	11809.5	6853.1	2361.9	690.2
65°	16962.8	17788.4	17315.5	17105.9	16927.0	17208.2	15518.5	12026.8	6298.4	2009.2	613.5
66°	17282.3	18404.4	18248.5	18023.6	18005.7	17941.8	15620.8	12019.1	5725.8	1697.3	536.8
67°	17121.2	18417.2	18701.0	18795.5	18767.4	18092.6	15441.8	11745.6	4992.2	1434.0	478.0
67.5°	16975.5	18312.4	18971.9	18918.2	19035.8	18220.4	15472.5	11410.8	4470.7	1298.5	449.9
68°	16847.7	18171.8	19081.8	19150.9	19092.1	18235.7	15303.8	11144.9	4115.4	1219.3	424.3
69°	15878.9	17504.7	18905.5	19153.4	19002.6	17650.4	14767.0	10452.2	3269.3	1040.4	391.1
70°	14907.6	16640.7	18049.1	18504.1	18317.5	16518.0	14089.6	9350.5	2696.8	889.5	352.8
71°	13563.1	15035.4	16909.1	17182.6	16957.7	15229.7	12688.8	8187.4	2098.6	754.1	314.4
72°	11737.9	12987.9	14777.2	15439.3	15107.0	13376.5	11272.7	6766.2	1699.9	633.9	286.3
72.5°	10833.1	12113.7	13839.1	13892.8	13956.7	12571.3	10672.0	5943.1	1482.6	587.9	278.6
73°	9974.2	11229.3	12722.1	12911.2	12640.3	11213.9	9774.8	5314.3	1354.8	536.8	268.4
74°	8082.6	8798.3	10035.5	10219.6	9981.9	9143.4	7988.0	4074.5	1078.7	462.7	245.4
75°	6359.8	6753.4	7873.0	7760.5	7405.2	7111.3	6193.6	3113.4	874.2	406.4	227.5



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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	2857.8	3095.5	3282.1	3282.1	3302.6	3151.8	2855.2	1428.9	539.4	294.0	186.6
80°	1088.9	1219.3	1260.2	1262.7	1280.6	1326.7	1234.6	702.9	319.5	209.6	150.8
82.5°	789.9	1104.3	1188.6	1127.3	1132.4	1022.5	472.9	311.9	201.9	145.7	109.9
85°	715.7	961.1	1017.4	1009.7	1012.2	945.8	278.6	153.4	117.6	92.0	76.7
87.5°	347.6	340.0	360.4	406.4	396.2	513.8	235.2	76.7	51.1	38.3	38.3
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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CATALOG NUMBER: CCW-SA-2E-750-U-T1

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9
2.5°	2165.1	2162.5	2198.3	2162.5	2183.0	2167.6
5°	2190.6	2200.9	2208.5	2223.9	2188.1	2223.9
7.5°	2267.3	2277.6	2280.1	2292.9	2277.6	2275.0
10°	2326.1	2351.7	2367.0	2315.9	2346.6	2344.0
12.5°	2441.1	2415.6	2413.0	2402.8	2374.7	2364.5
15°	2522.9	2484.6	2461.6	2420.7	2387.5	2374.7
17.5°	2638.0	2563.8	2469.3	2384.9	2326.1	2280.1
20°	2709.5	2576.6	2387.5	2287.8	2198.3	2218.8
22.5°	2755.6	2563.8	2313.3	2185.5	2096.1	2121.6
25°	2770.9	2499.9	2262.2	2103.7	2016.8	1998.9
27.5°	2727.4	2425.8	2162.5	1983.6	1906.9	1922.2
30°	2707.0	2318.4	2070.5	1894.1	1791.9	1807.2
32.5°	2653.3	2208.5	1947.8	1768.9	1694.7	1669.2
35°	2576.6	2116.5	1830.2	1661.5	1572.0	1551.6
37.5°	2482.0	2001.5	1728.0	1523.5	1444.2	1428.9
40°	2341.5	1863.5	1579.7	1403.3	1311.3	1308.8
42.5°	2218.8	1730.5	1441.7	1260.2	1168.2	1173.3
45°	2062.8	1551.6	1283.2	1127.3	1035.3	1040.4
47.5°	1863.5	1385.4	1132.4	958.6	881.9	876.8
50°	1628.3	1196.3	948.3	800.1	736.2	723.4
52.5°	1403.3	1004.6	777.1	644.2	590.5	585.4
55°	1119.6	782.2	605.8	506.1	465.2	467.8
56°	1017.4	720.8	552.1	462.7	432.0	432.0
57°	920.2	639.0	501.0	426.9	398.8	398.8
58°	812.9	562.4	455.0	386.0	373.2	363.0
59°	738.7	511.2	411.5	365.5	345.1	342.5
60°	651.8	460.1	383.4	342.5	327.2	324.6
61°	577.7	414.1	352.8	319.5	314.4	314.4
62°	516.3	383.4	327.2	309.3	306.7	299.1
63°	462.7	352.8	314.4	294.0	286.3	294.0
64°	414.1	324.6	304.2	288.8	278.6	283.7
65°	375.8	311.9	291.4	281.2	271.0	273.5
66°	350.2	291.4	281.2	268.4	263.3	265.8
67°	317.0	281.2	271.0	258.2	255.6	258.2
67.5°	306.7	273.5	265.8	253.1	250.5	253.1
68°	299.1	268.4	263.3	250.5	247.9	245.4
69°	278.6	258.2	250.5	245.4	240.3	237.7
70°	260.7	247.9	242.8	235.2	230.1	227.5
71°	250.5	235.2	232.6	224.9	219.8	217.3
72°	237.7	227.5	222.4	212.2	209.6	212.2
72.5°	235.2	222.4	219.8	209.6	207.1	207.1
73°	227.5	212.2	214.7	204.5	199.4	204.5
74°	212.2	207.1	201.9	194.3	191.7	191.7
75°	199.4	194.3	189.2	184.0	184.0	184.0



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**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
77.5°	168.7	166.2	168.7	158.5	155.9	153.4
80°	135.5	135.5	138.0	130.4	125.3	122.7
82.5°	102.2	104.8	109.9	102.2	97.1	92.0
85°	66.5	69.0	69.0	61.3	71.6	66.5
87.5°	33.2	35.8	33.2	30.7	35.8	35.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)