

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: P676129

Luminaire Tested: **CCW-SA-2E-735-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676129
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-735-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T1 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

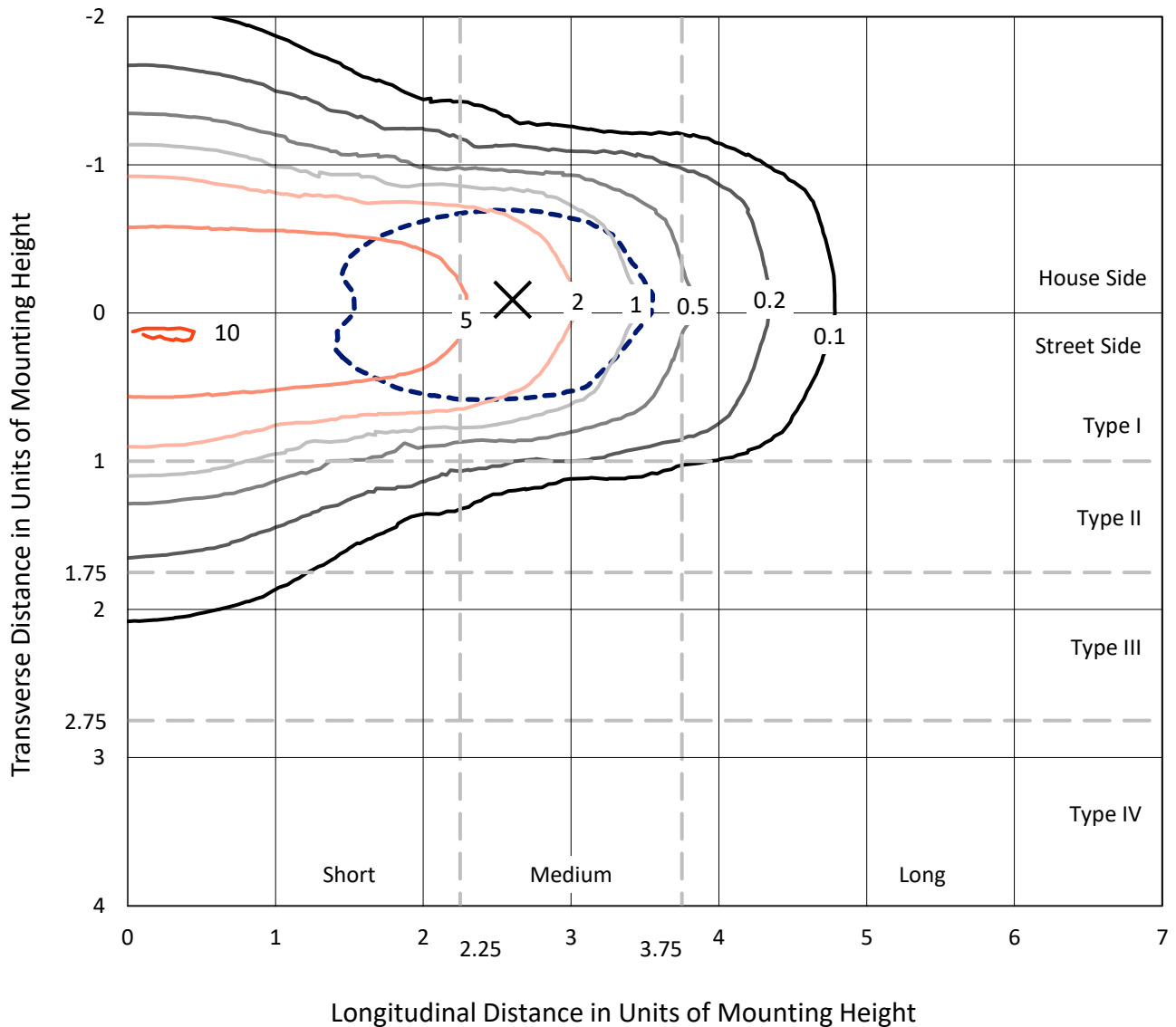
Lumens per Lamp: N/A
Luminaire Lumens: 13132.1 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (A_{in}): 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

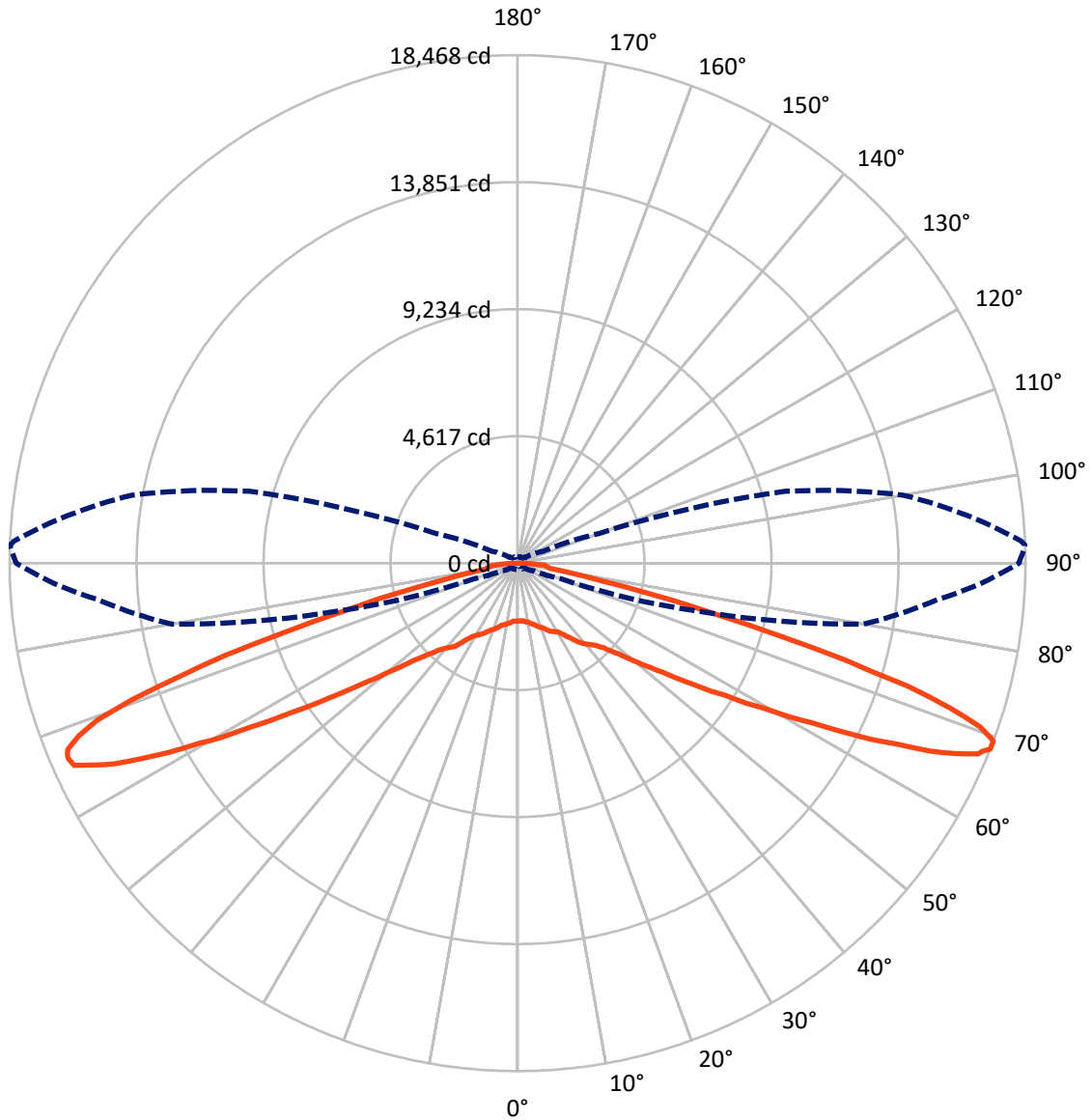
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.1 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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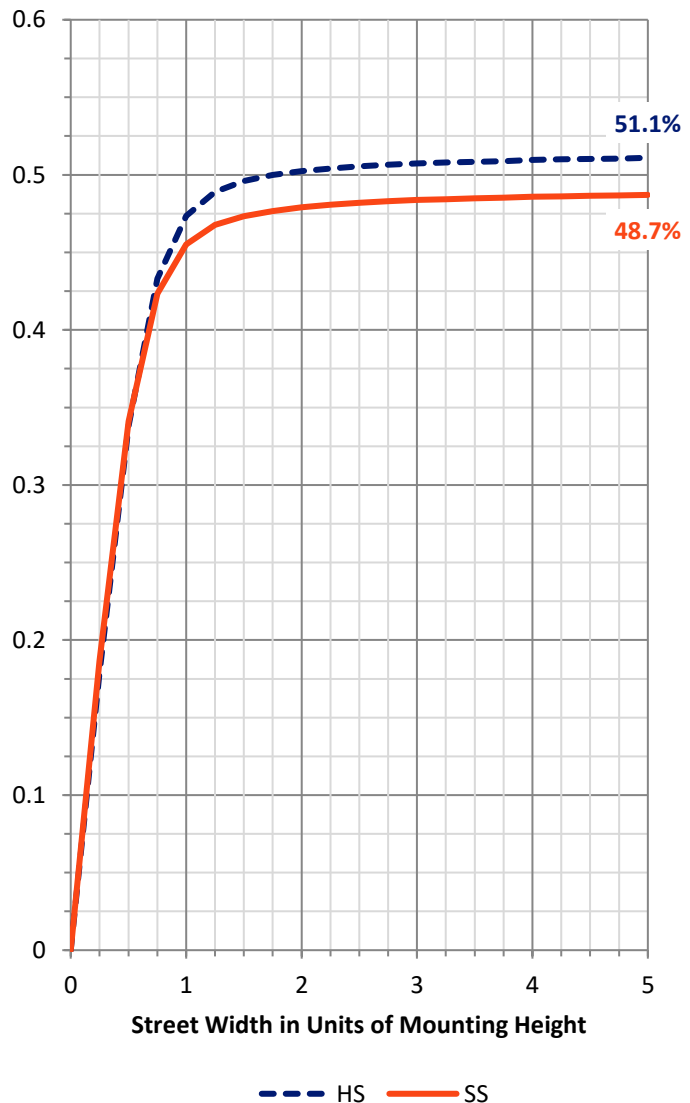
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6762.8	0.0	6762.8
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	6369.3	0.0	6369.3
	% Fixture	48.5	0.0	48.5
Total	Lumens	13132.1	0.0	13132.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	1.6
10°-20°	681.2	5.2
20°-30°	1162.6	8.9
30°-40°	1623.3	12.4
40°-50°	2064.9	15.7
50°-60°	2610.8	19.9
60°-70°	3219.9	24.5
70°-80°	1406.5	10.7
80°-90°	152.6	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°	13132.1	100.0
0°-180°	13132.1	100.0



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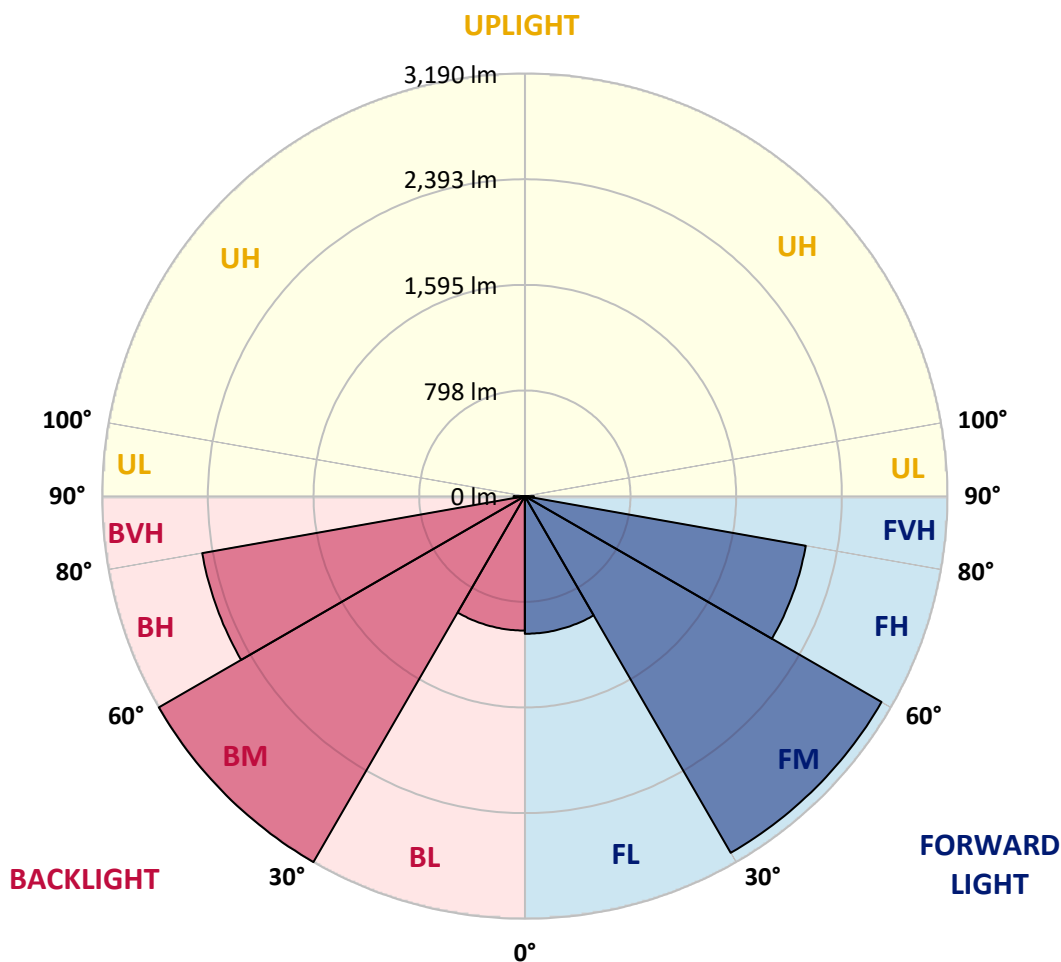
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.3	7.9			
FM (30°-60°)	3108.9	23.7			
FH (60°-80°)	2153.4	16.4			G2/5000
FVH (80°-90°)	67.6	0.5			G1/100
BL (0°-30°)	1014.9	7.7	B3/2500		
BM (30°-60°)	3190.1	24.3	B3/5000		
BH (60°-80°)	2473.0	18.8	B3/2500		G3/2500
BVH (80°-90°)	84.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9
2.5°	2144.3	2141.8	2149.2	2154.2	2132.0	2139.4	2134.4	2129.5	2112.3	2104.9	2090.1
5°	2203.5	2210.8	2235.5	2213.3	2223.2	2210.8	2171.4	2183.7	2161.6	2156.6	2141.8
7.5°	2307.0	2292.2	2326.7	2302.0	2309.4	2284.8	2267.5	2245.4	2240.4	2205.9	2208.4
10°	2329.2	2358.7	2373.5	2368.6	2373.5	2385.8	2353.8	2319.3	2272.5	2262.6	2228.1
12.5°	2314.4	2341.5	2380.9	2413.0	2435.1	2440.1	2427.7	2420.3	2400.6	2343.9	2341.5
15°	2299.6	2279.9	2304.5	2415.4	2489.4	2538.7	2555.9	2514.0	2518.9	2445.0	2415.4
17.5°	2201.0	2171.4	2267.5	2376.0	2467.2	2575.6	2659.4	2647.1	2647.1	2587.9	2546.0
20°	2070.4	2119.7	2168.9	2307.0	2474.6	2637.2	2797.4	2790.1	2760.5	2743.2	2652.0
22.5°	1959.4	1981.6	2072.8	2218.2	2427.7	2654.5	2844.3	2979.8	2910.8	2841.8	2787.6
25°	1883.0	1863.3	1979.2	2129.5	2383.4	2624.9	2933.0	3073.5	3110.5	3058.7	2955.2
27.5°	1774.6	1774.6	1865.8	2008.7	2240.4	2610.1	3019.3	3233.7	3287.9	3211.5	3061.2
30°	1651.4	1666.1	1745.0	1907.7	2134.4	2501.7	3053.8	3418.6	3462.9	3396.4	3241.1
32.5°	1555.2	1555.2	1644.0	1816.5	2060.5	2452.4	3031.6	3600.9	3684.7	3635.4	3475.2
35°	1451.7	1444.3	1508.4	1698.2	1942.2	2356.3	3024.2	3746.4	3933.7	3936.1	3768.5
37.5°	1303.8	1333.4	1414.7	1565.1	1848.5	2262.6	3002.0	3921.4	4256.6	4313.2	4197.4
40°	1205.2	1217.6	1291.5	1456.6	1703.1	2151.7	2970.0	4064.3	4471.0	4665.7	4505.5
42.5°	1062.3	1079.5	1136.2	1340.8	1562.6	1994.0	2829.5	4165.4	4776.6	4998.4	4862.9
45°	911.9	921.8	1005.6	1173.2	1412.3	1806.6	2679.1	4328.0	5072.4	5525.9	5447.0
47.5°	732.0	736.9	808.4	983.4	1232.4	1619.3	2447.5	4320.6	5311.5	6053.3	6275.2
50°	571.8	584.1	638.4	781.3	1015.5	1390.1	2178.8	4261.5	5612.1	6654.7	7091.0
52.5°	456.0	458.4	492.9	606.3	783.8	1160.9	1890.4	4074.2	5895.6	7243.8	8091.6
55°	377.1	377.1	396.8	465.8	601.4	882.4	1552.8	3763.6	5930.1	7894.5	9183.5
56°	362.3	357.4	374.6	433.8	542.2	796.1	1395.0	3554.1	5979.4	8195.2	9730.7
57°	342.6	345.1	354.9	396.8	488.0	704.9	1220.0	3349.5	5944.9	8441.6	10134.9
58°	332.7	327.8	347.5	374.6	431.3	626.0	1099.3	3108.0	5890.7	8643.7	10724.0
59°	317.9	315.5	327.8	352.5	401.7	557.0	951.4	2846.7	5784.7	8905.0	11162.7
60°	313.0	310.6	315.5	335.2	369.7	488.0	838.0	2541.1	5501.2	9173.7	11707.4
61°	298.2	300.7	310.6	322.9	350.0	438.7	754.2	2228.1	5316.4	9400.4	12308.8
62°	300.7	295.8	300.7	310.6	330.3	404.2	660.5	1920.0	4986.1	9656.7	12759.8
63°	285.9	283.4	290.8	303.2	313.0	364.8	576.7	1658.8	4611.5	9715.9	13141.8
64°	281.0	278.5	281.0	298.2	300.7	342.6	510.2	1417.2	4069.2	9816.9	13632.3
65°	268.7	268.7	273.6	281.0	290.8	322.9	456.0	1229.9	3529.5	9550.8	13782.7
66°	258.8	261.3	261.3	273.6	281.0	300.7	419.0	1045.0	3011.9	9126.8	13928.1
67°	251.4	251.4	253.9	263.7	271.1	283.4	377.1	904.5	2541.1	8621.6	13703.8
67.5°	246.5	248.9	248.9	258.8	266.2	283.4	359.8	857.7	2272.5	8067.0	13536.2
68°	239.1	241.5	241.5	251.4	258.8	273.6	347.5	783.8	2095.0	7707.2	13225.6
69°	234.1	231.7	231.7	241.5	251.4	261.3	322.9	685.2	1666.1	6701.6	12772.1
70°	219.4	219.4	224.3	231.7	239.1	248.9	298.2	603.9	1409.8	5548.1	11603.9
71°	212.0	209.5	212.0	219.4	226.8	239.1	273.6	534.8	1153.5	4606.5	10455.3
72°	197.2	202.1	202.1	209.5	216.9	224.3	256.3	465.8	968.6	3682.3	9190.9
72.5°	194.7	194.7	197.2	204.6	209.5	221.8	246.5	446.1	884.8	3246.0	8661.0
73°	187.3	187.3	189.8	197.2	202.1	214.4	239.1	401.7	806.0	2888.6	7670.2
74°	179.9	177.5	177.5	187.3	189.8	202.1	224.3	354.9	675.3	2176.3	6156.9
75°	167.6	167.6	170.1	175.0	177.5	187.3	207.0	315.5	569.3	1688.3	4816.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	138.0	140.5	143.0	147.9	147.9	155.3	170.1	219.4	347.5	855.3	2210.8
80°	101.1	106.0	113.4	120.8	118.3	118.3	133.1	157.7	207.0	384.5	847.9
82.5°	81.3	86.3	78.9	88.7	88.7	83.8	96.1	115.8	140.5	189.8	303.2
85°	54.2	56.7	46.8	54.2	51.8	51.8	64.1	69.0	86.3	106.0	150.3
87.5°	24.6	24.6	19.7	22.2	22.2	22.2	32.0	24.6	37.0	51.8	88.7
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9
2.5°	2104.9	2114.7	2114.7	2104.9	2097.5	2104.9	2099.9	2087.6	2099.9	2104.9	2107.3
5°	2134.4	2114.7	2124.6	2102.4	2117.2	2114.7	2109.8	2122.1	2124.6	2124.6	2141.8
7.5°	2166.5	2191.1	2159.1	2161.6	2168.9	2139.4	2149.2	2154.2	2144.3	2164.0	2178.8
10°	2223.2	2233.0	2223.2	2186.2	2210.8	2191.1	2183.7	2205.9	2201.0	2205.9	2228.1
12.5°	2274.9	2292.2	2265.1	2262.6	2250.3	2233.0	2242.9	2240.4	2274.9	2279.9	2307.0
15°	2380.9	2336.5	2326.7	2324.2	2319.3	2311.9	2316.8	2319.3	2363.7	2371.1	2435.1
17.5°	2472.1	2464.7	2410.5	2430.2	2430.2	2400.6	2388.3	2430.2	2464.7	2501.7	2546.0
20°	2565.8	2558.4	2499.2	2501.7	2479.5	2506.6	2491.8	2531.3	2590.4	2602.7	2642.2
22.5°	2676.7	2644.6	2602.7	2607.7	2615.1	2595.3	2585.5	2639.7	2698.9	2733.4	2735.8
25°	2851.7	2770.3	2735.8	2740.8	2730.9	2716.1	2723.5	2792.5	2822.1	2896.0	2881.2
27.5°	2945.3	2898.5	2873.9	2817.2	2819.6	2797.4	2827.0	2930.5	2989.7	3046.4	2933.0
30°	3058.7	3029.1	2920.7	2901.0	2898.5	2888.6	2942.9	3076.0	3164.7	3196.7	3034.1
32.5°	3280.5	3162.2	3135.1	3117.9	3078.4	3090.7	3117.9	3292.9	3433.3	3425.9	3127.7
35°	3534.4	3453.1	3376.7	3361.9	3356.9	3322.4	3369.3	3573.8	3682.3	3650.2	3162.2
37.5°	3941.1	3817.8	3714.3	3657.6	3647.8	3623.1	3734.0	3896.7	4037.2	3911.5	3189.3
40°	4140.7	4002.7	3906.6	3872.1	3879.5	3914.0	4022.4	4271.3	4333.0	4101.3	3211.5
42.5°	4426.6	4276.3	4086.5	4069.2	4047.1	4064.3	4273.8	4609.0	4660.8	4357.6	3127.7
45°	4934.4	4707.6	4488.2	4389.7	4394.6	4441.4	4766.8	5134.0	5037.9	4535.1	2994.6
47.5°	5575.2	5242.4	5065.0	4931.9	4996.0	4944.2	5461.8	5755.1	5427.3	4759.4	2832.0
50°	6538.9	6073.0	5831.5	5671.3	5698.4	5742.8	6267.8	6516.7	5858.6	4867.8	2583.0
52.5°	7754.0	7155.1	6800.1	6585.7	6605.4	6701.6	7379.3	7302.9	6351.6	4959.0	2250.3
55°	9208.2	8592.0	7904.3	7815.6	7793.4	8022.6	8769.4	8126.2	6795.2	4813.6	1905.2
56°	9977.2	9321.5	8606.8	8424.4	8370.2	8530.4	9407.8	8537.8	6948.0	4650.9	1740.1
57°	10630.3	10004.3	9220.5	8909.9	8978.9	9279.6	10041.2	8924.7	7088.5	4483.3	1584.8
58°	11527.5	10812.7	9984.5	9747.9	9686.3	9925.4	10724.0	9314.1	7135.3	4310.8	1441.9
59°	12422.1	11564.4	10817.6	10386.3	10403.5	10839.8	11396.8	9777.5	7206.8	4091.4	1259.5
60°	13102.4	12671.1	11672.9	11350.0	11305.6	11936.6	12067.2	10088.1	7283.2	3795.7	1131.3
61°	14066.1	13504.2	12575.0	12158.4	12279.2	12784.5	12791.9	10477.5	7169.8	3421.0	973.6
62°	14758.7	14610.8	13634.8	13238.0	13201.0	13871.4	13546.1	10820.1	7071.3	3066.1	860.2
63°	15569.6	15569.6	14679.8	14369.3	14386.5	14916.4	13873.9	11162.7	6957.9	2674.2	756.7
64°	15991.1	16521.0	15700.2	15264.0	15377.3	15835.8	14458.0	11387.0	6607.9	2277.4	665.5
65°	16355.8	17151.9	16696.0	16493.9	16321.3	16592.4	14963.3	11596.5	6073.0	1937.3	591.5
66°	16663.9	17745.9	17595.6	17378.7	17361.4	17299.8	15061.9	11589.1	5521.0	1636.6	517.6
67°	16508.6	17758.2	18031.8	18123.0	18095.9	17445.2	14889.3	11325.4	4813.6	1382.7	460.9
67.5°	16368.2	17657.2	18293.1	18241.3	18354.7	17568.5	14918.9	11002.5	4310.8	1252.1	433.8
68°	16244.9	17521.6	18399.1	18465.6	18408.9	17583.3	14756.2	10746.1	3968.2	1175.7	409.1
69°	15310.8	16878.3	18229.0	18468.1	18322.7	17018.8	14238.6	10078.2	3152.4	1003.1	377.1
70°	14374.2	16045.3	17403.3	17842.0	17662.1	15927.0	13585.5	9015.9	2600.3	857.7	340.1
71°	13077.8	14497.4	16304.1	16567.8	16350.9	14684.8	12234.8	7894.5	2023.5	727.1	303.2
72°	11318.0	12523.2	14248.5	14886.9	14566.4	12897.8	10869.4	6524.1	1639.0	611.2	276.0
72.5°	10445.4	11680.3	13343.9	13395.7	13457.3	12121.5	10290.2	5730.5	1429.5	566.9	268.7
73°	9617.3	10827.5	12266.9	12449.3	12188.0	10812.7	9425.1	5124.1	1306.3	517.6	258.8
74°	7793.4	8483.5	9676.5	9853.9	9624.7	8816.3	7702.2	3928.8	1040.1	446.1	236.6
75°	6132.2	6511.8	7591.3	7482.9	7140.3	6856.8	5972.0	3002.0	842.9	391.9	219.4



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	2755.5	2984.8	3164.7	3164.7	3184.4	3039.0	2753.1	1377.8	520.1	283.4	179.9
80°	1050.0	1175.7	1215.1	1217.6	1234.8	1279.2	1190.5	677.8	308.1	202.1	145.4
82.5°	761.6	1064.8	1146.1	1086.9	1091.9	985.9	456.0	300.7	194.7	140.5	106.0
85°	690.1	926.7	981.0	973.6	976.0	911.9	268.7	147.9	113.4	88.7	73.9
87.5°	335.2	327.8	347.5	391.9	382.0	495.4	226.8	73.9	49.3	37.0	37.0
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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CATALOG NUMBER: CCW-SA-2E-735-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9
2.5°	2087.6	2085.1	2119.7	2085.1	2104.9	2090.1
5°	2112.3	2122.1	2129.5	2144.3	2109.8	2144.3
7.5°	2186.2	2196.1	2198.5	2210.8	2196.1	2193.6
10°	2242.9	2267.5	2282.3	2233.0	2262.6	2260.1
12.5°	2353.8	2329.2	2326.7	2316.8	2289.7	2279.9
15°	2432.7	2395.7	2373.5	2334.1	2302.0	2289.7
17.5°	2543.6	2472.1	2380.9	2299.6	2242.9	2198.5
20°	2612.6	2484.4	2302.0	2205.9	2119.7	2139.4
22.5°	2657.0	2472.1	2230.6	2107.3	2021.1	2045.7
25°	2671.7	2410.5	2181.3	2028.5	1944.7	1927.4
27.5°	2629.8	2339.0	2085.1	1912.6	1838.7	1853.5
30°	2610.1	2235.5	1996.4	1826.4	1727.8	1742.6
32.5°	2558.4	2129.5	1878.1	1705.6	1634.1	1609.5
35°	2484.4	2040.8	1764.7	1602.1	1515.8	1496.1
37.5°	2393.2	1929.9	1666.1	1469.0	1392.6	1377.8
40°	2257.7	1796.8	1523.2	1353.1	1264.4	1261.9
42.5°	2139.4	1668.6	1390.1	1215.1	1126.4	1131.3
45°	1989.0	1496.1	1237.3	1086.9	998.2	1003.1
47.5°	1796.8	1335.9	1091.9	924.3	850.3	845.4
50°	1570.0	1153.5	914.4	771.5	709.8	697.5
52.5°	1353.1	968.6	749.3	621.1	569.3	564.4
55°	1079.5	754.2	584.1	488.0	448.6	451.0
56°	981.0	695.0	532.4	446.1	416.5	416.5
57°	887.3	616.2	483.1	411.6	384.5	384.5
58°	783.8	542.2	438.7	372.2	359.8	350.0
59°	712.3	492.9	396.8	352.5	332.7	330.3
60°	628.5	443.6	369.7	330.3	315.5	313.0
61°	557.0	399.3	340.1	308.1	303.2	303.2
62°	497.9	369.7	315.5	298.2	295.8	288.4
63°	446.1	340.1	303.2	283.4	276.0	283.4
64°	399.3	313.0	293.3	278.5	268.7	273.6
65°	362.3	300.7	281.0	271.1	261.3	263.7
66°	337.7	281.0	271.1	258.8	253.9	256.3
67°	305.6	271.1	261.3	248.9	246.5	248.9
67.5°	295.8	263.7	256.3	244.0	241.5	244.0
68°	288.4	258.8	253.9	241.5	239.1	236.6
69°	268.7	248.9	241.5	236.6	231.7	229.2
70°	251.4	239.1	234.1	226.8	221.8	219.4
71°	241.5	226.8	224.3	216.9	212.0	209.5
72°	229.2	219.4	214.4	204.6	202.1	204.6
72.5°	226.8	214.4	212.0	202.1	199.6	199.6
73°	219.4	204.6	207.0	197.2	192.2	197.2
74°	204.6	199.6	194.7	187.3	184.9	184.9
75°	192.2	187.3	182.4	177.5	177.5	177.5



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	135°	145°	155°	165°	175°	180°
77.5°	162.7	160.2	162.7	152.8	150.3	147.9
80°	130.6	130.6	133.1	125.7	120.8	118.3
82.5°	98.6	101.1	106.0	98.6	93.7	88.7
85°	64.1	66.5	66.5	59.2	69.0	64.1
87.5°	32.0	34.5	32.0	29.6	34.5	34.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)