

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: P676871

Luminaire Tested: **CCW-SA-2E-750-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676871
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-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

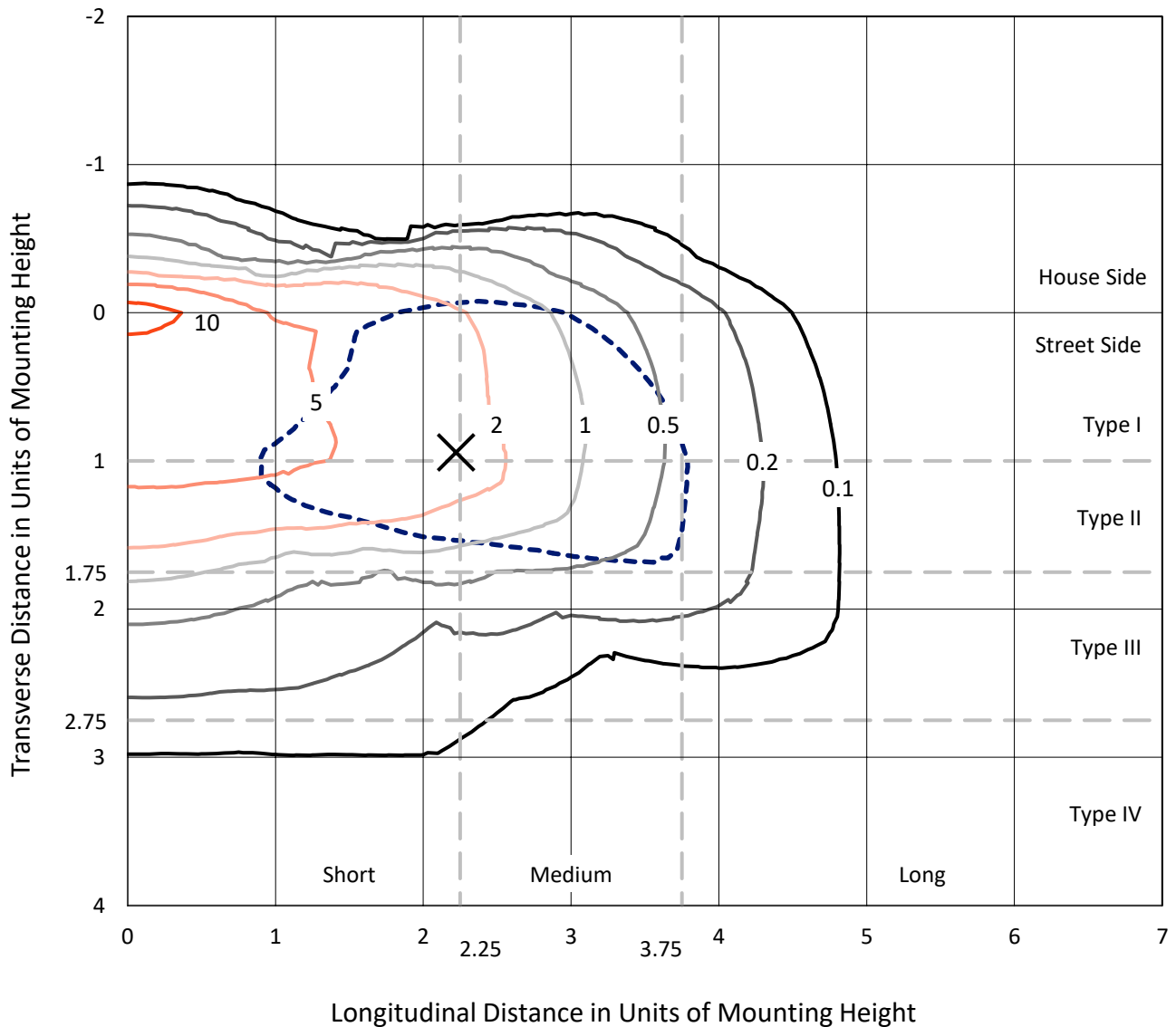
Lumens per Lamp: N/A
Luminaire Lumens: 11247.1 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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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 CATALOG NUMBER: CCW-SA-2E-750-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

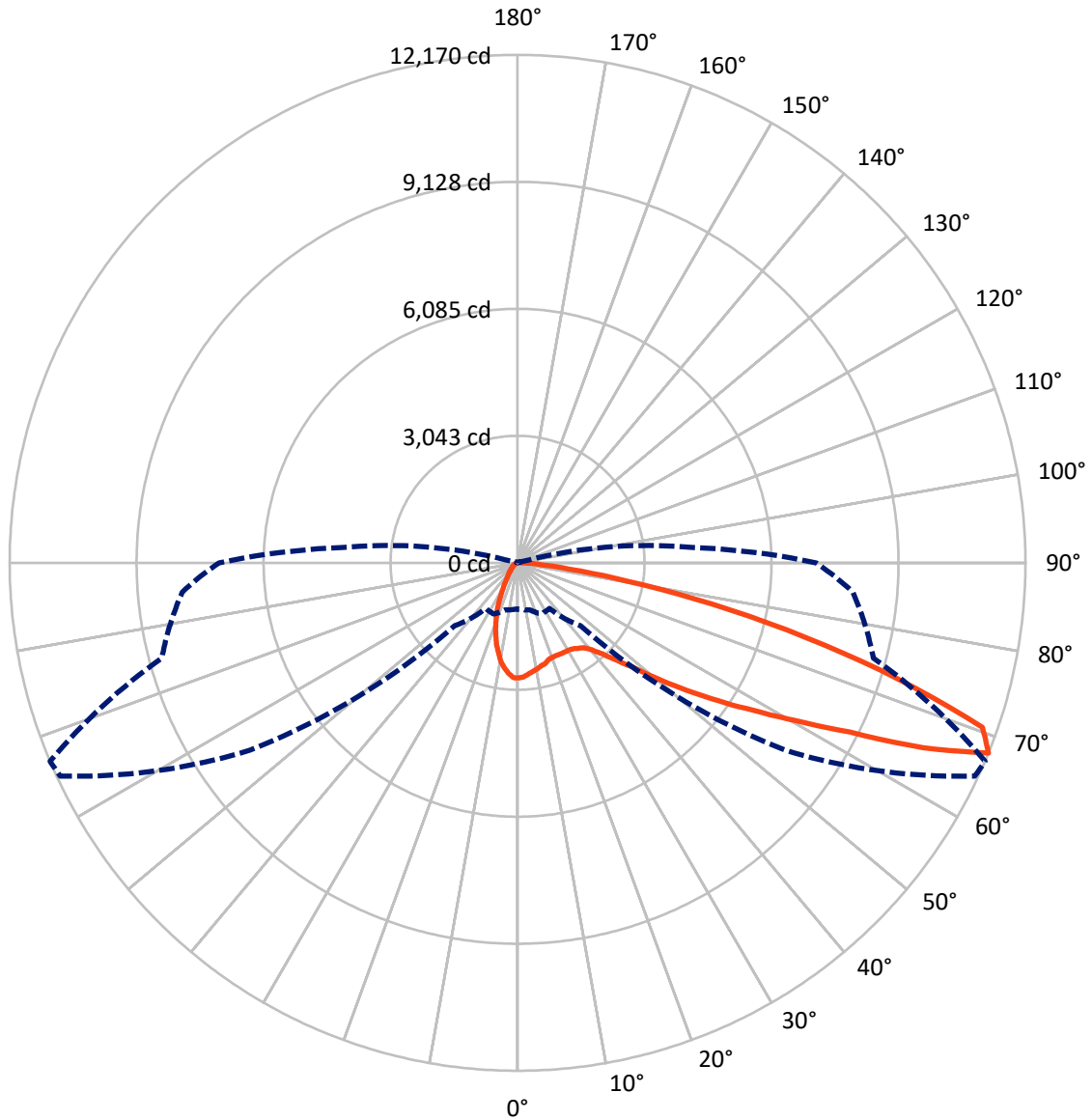
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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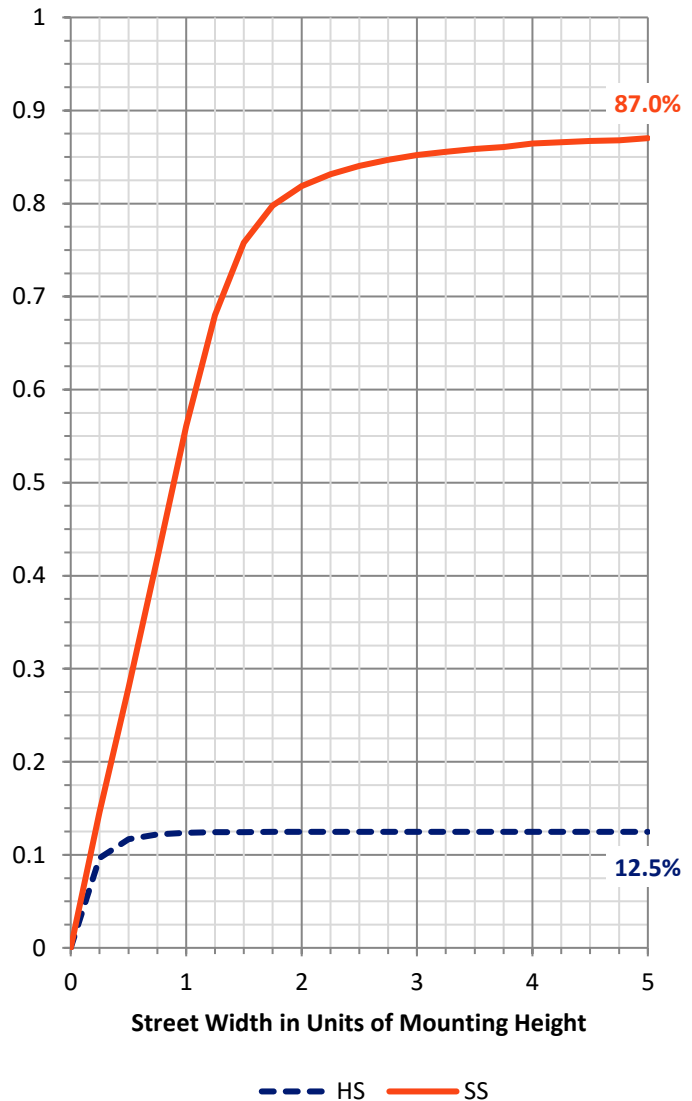
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1415.5 | 0.0 | 1415.5 |
| | % Fixture | 12.6 | 0.0 | 12.6 |
| Street Side | Lumens | 9831.6 | 0.0 | 9831.6 |
| | % Fixture | 87.4 | 0.0 | 87.4 |
| Total | Lumens | 11247.1 | 0.0 | 11247.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 232.4 | 2.1 |
| 10°-20° | 516.3 | 4.6 |
| 20°-30° | 734.2 | 6.5 |
| 30°-40° | 1069.1 | 9.5 |
| 40°-50° | 1654.7 | 14.7 |
| 50°-60° | 2539.4 | 22.6 |
| 60°-70° | 2752.7 | 24.5 |
| 70°-80° | 1553.0 | 13.8 |
| 80°-90° | 195.1 | 1.7 |
| 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° | 11247.1 | 100.0 |
| 0°-180° | 11247.1 | 100.0 |

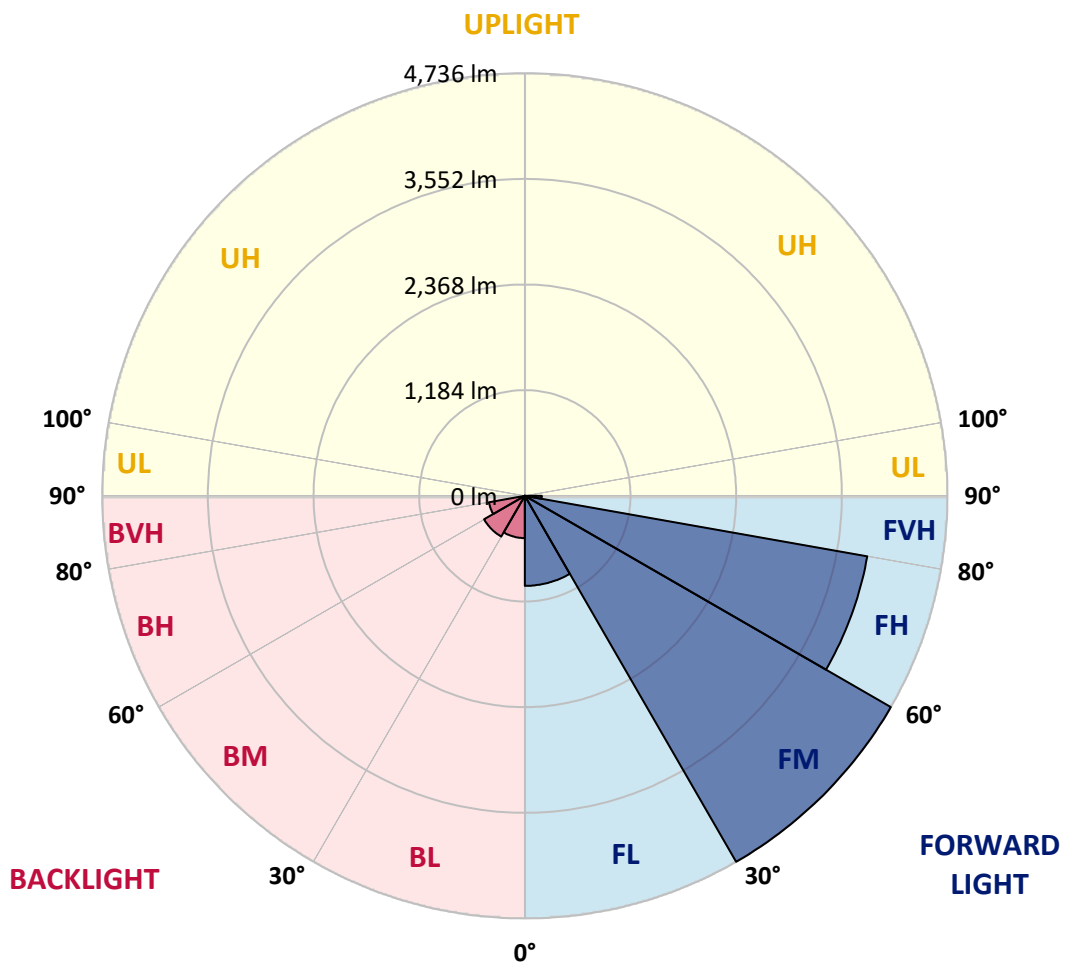


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1009.2 | 9.0 | | | |
| FM (30°-60°) | 4736.0 | 42.1 | | | |
| FH (60°-80°) | 3896.9 | 34.6 | | | G2/5000 |
| FVH (80°-90°) | 189.5 | 1.7 | | | G2/225 |
| BL (0°-30°) | 473.8 | 4.2 | B1/500 | | |
| BM (30°-60°) | 527.2 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 408.9 | 3.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0° | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 |
| 2.5° | 2639.5 | 2653.0 | 2672.0 | 2699.1 | 2718.1 | 2707.2 | 2715.3 | 2761.4 | 2737.0 | 2758.7 | 2747.9 |
| 5° | 2493.1 | 2506.7 | 2533.8 | 2531.1 | 2552.7 | 2593.4 | 2647.6 | 2707.2 | 2680.1 | 2745.1 | 2769.5 |
| 7.5° | 2341.4 | 2336.0 | 2336.0 | 2392.9 | 2438.9 | 2495.8 | 2525.6 | 2623.2 | 2625.9 | 2682.8 | 2742.4 |
| 10° | 2203.2 | 2219.4 | 2246.5 | 2268.2 | 2311.6 | 2392.9 | 2479.6 | 2555.5 | 2585.3 | 2699.1 | 2715.3 |
| 12.5° | 2119.2 | 2127.3 | 2159.8 | 2178.8 | 2235.7 | 2314.3 | 2406.4 | 2504.0 | 2528.4 | 2644.9 | 2723.5 |
| 15° | 2083.9 | 2102.9 | 2113.7 | 2149.0 | 2178.8 | 2251.9 | 2319.7 | 2430.8 | 2501.3 | 2593.4 | 2691.0 |
| 17.5° | 2111.0 | 2102.9 | 2108.3 | 2119.2 | 2154.4 | 2219.4 | 2292.6 | 2403.7 | 2428.1 | 2582.6 | 2728.9 |
| 20° | 2146.3 | 2149.0 | 2132.7 | 2127.3 | 2119.2 | 2181.5 | 2241.1 | 2384.7 | 2411.8 | 2582.6 | 2753.3 |
| 22.5° | 2241.1 | 2211.3 | 2241.1 | 2197.7 | 2154.4 | 2181.5 | 2238.4 | 2387.4 | 2406.4 | 2579.8 | 2777.7 |
| 25° | 2357.6 | 2363.1 | 2371.2 | 2279.0 | 2216.7 | 2197.7 | 2257.4 | 2395.6 | 2411.8 | 2601.5 | 2788.5 |
| 27.5° | 2522.9 | 2547.3 | 2506.7 | 2460.6 | 2336.0 | 2241.1 | 2254.7 | 2390.1 | 2420.0 | 2590.7 | 2815.6 |
| 30° | 2745.1 | 2726.2 | 2731.6 | 2625.9 | 2504.0 | 2354.9 | 2317.0 | 2403.7 | 2425.4 | 2604.2 | 2867.1 |
| 32.5° | 2937.6 | 2915.9 | 2953.8 | 2915.9 | 2723.5 | 2517.5 | 2390.1 | 2430.8 | 2455.2 | 2636.8 | 2910.5 |
| 35° | 3056.8 | 3083.9 | 3143.5 | 3184.2 | 3021.6 | 2728.9 | 2512.1 | 2504.0 | 2514.8 | 2653.0 | 2943.0 |
| 37.5° | 3241.1 | 3289.8 | 3338.6 | 3441.6 | 3300.7 | 2989.0 | 2704.5 | 2598.8 | 2579.8 | 2731.6 | 2959.2 |
| 40° | 3441.6 | 3428.0 | 3571.7 | 3693.6 | 3688.2 | 3354.9 | 2972.8 | 2766.8 | 2739.7 | 2856.3 | 3067.6 |
| 42.5° | 3609.6 | 3596.1 | 3755.9 | 3956.5 | 3978.2 | 3707.2 | 3279.0 | 3005.3 | 2980.9 | 3048.7 | 3200.4 |
| 45° | 3829.1 | 3840.0 | 4029.7 | 4268.1 | 4346.7 | 4173.3 | 3693.6 | 3346.8 | 3333.2 | 3311.5 | 3452.4 |
| 47.5° | 4024.2 | 4083.9 | 4246.4 | 4528.3 | 4812.8 | 4655.6 | 4181.4 | 3845.4 | 3750.5 | 3701.8 | 3842.7 |
| 50° | 4159.7 | 4213.9 | 4411.8 | 4712.6 | 5232.9 | 5333.1 | 4728.8 | 4376.5 | 4379.2 | 4260.0 | 4335.9 |
| 52.5° | 4159.7 | 4157.0 | 4316.9 | 4712.6 | 5525.5 | 6040.4 | 5460.5 | 5045.9 | 5067.6 | 4942.9 | 4948.3 |
| 55° | 3758.7 | 3750.5 | 3945.6 | 4365.7 | 5493.0 | 6720.6 | 6568.8 | 5894.1 | 5839.9 | 5598.7 | 5623.1 |
| 57.5° | 3027.0 | 3046.0 | 3195.0 | 3699.0 | 5070.3 | 7037.7 | 7888.6 | 6848.0 | 6663.7 | 6165.1 | 6165.1 |
| 60° | 2208.6 | 2192.3 | 2303.4 | 2655.7 | 4062.2 | 6918.4 | 8972.5 | 7972.6 | 7682.6 | 6633.9 | 6563.4 |
| 62.5° | 1680.2 | 1677.4 | 1707.2 | 1826.5 | 2577.1 | 6032.3 | 9438.7 | 9403.4 | 8931.9 | 7094.6 | 6994.3 |
| 65° | 1357.7 | 1363.1 | 1403.7 | 1487.7 | 1574.5 | 4113.7 | 9192.0 | 11110.7 | 10679.8 | 7780.2 | 7452.3 |
| 67.5° | 1108.4 | 1121.9 | 1170.7 | 1352.3 | 1333.3 | 2130.0 | 7829.0 | 12089.0 | 12170.3 | 8826.2 | 8067.4 |
| 70° | 853.6 | 875.3 | 932.2 | 1189.7 | 1284.5 | 1417.3 | 5428.0 | 11601.2 | 11818.0 | 9476.6 | 7696.2 |
| 72.5° | 579.9 | 577.2 | 699.2 | 964.7 | 1298.1 | 1298.1 | 3021.6 | 9343.8 | 9549.8 | 8736.8 | 6685.4 |
| 75° | 314.4 | 333.3 | 463.4 | 729.0 | 1189.7 | 1254.7 | 1720.8 | 6837.1 | 7127.1 | 6793.8 | 5170.5 |
| 77.5° | 170.7 | 173.4 | 257.4 | 476.9 | 989.1 | 1197.8 | 1149.0 | 4650.2 | 4764.0 | 4097.4 | 2831.9 |
| 80° | 89.4 | 92.1 | 135.5 | 311.6 | 682.9 | 1111.1 | 956.6 | 2772.2 | 2663.9 | 1571.8 | 934.9 |
| 82.5° | 40.6 | 43.4 | 67.7 | 195.1 | 436.3 | 875.3 | 826.5 | 1338.7 | 1235.7 | 439.0 | 284.5 |
| 85° | 16.3 | 16.3 | 29.8 | 116.5 | 254.7 | 430.9 | 707.3 | 672.1 | 561.0 | 132.8 | 140.9 |
| 87.5° | 5.4 | 5.4 | 8.1 | 46.1 | 103.0 | 257.4 | 376.7 | 355.0 | 243.9 | 48.8 | 75.9 |
| 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-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 | 2758.7 |
| 2.5° | 2737.0 | 2766.8 | 2758.7 | 2753.3 | 2701.8 | 2696.4 | 2691.0 | 2642.2 | 2658.4 | 2617.8 | 2644.9 |
| 5° | 2753.3 | 2769.5 | 2726.2 | 2644.9 | 2571.7 | 2490.4 | 2428.1 | 2384.7 | 2306.1 | 2276.3 | 2270.9 |
| 7.5° | 2737.0 | 2737.0 | 2647.6 | 2517.5 | 2373.9 | 2241.1 | 2073.1 | 1953.9 | 1864.4 | 1796.7 | 1821.1 |
| 10° | 2715.3 | 2682.8 | 2590.7 | 2360.3 | 2100.2 | 1899.7 | 1658.5 | 1482.3 | 1349.5 | 1306.2 | 1279.1 |
| 12.5° | 2715.3 | 2658.4 | 2452.5 | 2138.1 | 1802.1 | 1498.6 | 1211.3 | 981.0 | 853.6 | 777.7 | 766.9 |
| 15° | 2691.0 | 2606.9 | 2352.2 | 1929.5 | 1512.1 | 1100.2 | 772.3 | 574.5 | 466.1 | 436.3 | 425.5 |
| 17.5° | 2696.4 | 2596.1 | 2203.2 | 1682.9 | 1173.4 | 731.7 | 471.5 | 363.1 | 336.0 | 322.5 | 325.2 |
| 20° | 2707.2 | 2596.1 | 2070.4 | 1441.7 | 845.5 | 455.3 | 325.2 | 306.2 | 292.7 | 287.3 | 290.0 |
| 22.5° | 2742.4 | 2544.6 | 1934.9 | 1195.1 | 571.8 | 327.9 | 287.3 | 268.3 | 257.4 | 249.3 | 246.6 |
| 25° | 2747.9 | 2536.5 | 1804.8 | 951.2 | 392.9 | 276.4 | 252.0 | 230.3 | 216.8 | 206.0 | 203.2 |
| 27.5° | 2739.7 | 2501.3 | 1623.2 | 707.3 | 295.4 | 246.6 | 214.1 | 192.4 | 173.4 | 165.3 | 162.6 |
| 30° | 2769.5 | 2436.2 | 1468.8 | 509.5 | 249.3 | 214.1 | 181.6 | 157.2 | 140.9 | 130.1 | 130.1 |
| 32.5° | 2772.2 | 2379.3 | 1298.1 | 363.1 | 227.6 | 189.7 | 154.5 | 127.4 | 111.1 | 105.7 | 105.7 |
| 35° | 2775.0 | 2327.8 | 1108.4 | 276.4 | 203.2 | 162.6 | 127.4 | 105.7 | 94.8 | 86.7 | 86.7 |
| 37.5° | 2783.1 | 2289.9 | 934.9 | 233.1 | 181.6 | 138.2 | 105.7 | 86.7 | 75.9 | 73.2 | 73.2 |
| 40° | 2799.3 | 2238.4 | 753.4 | 206.0 | 157.2 | 116.5 | 89.4 | 73.2 | 62.3 | 59.6 | 56.9 |
| 42.5° | 2842.7 | 2224.8 | 601.6 | 184.3 | 140.9 | 97.6 | 73.2 | 59.6 | 51.5 | 46.1 | 43.4 |
| 45° | 3021.6 | 2260.1 | 466.1 | 170.7 | 119.2 | 81.3 | 62.3 | 48.8 | 37.9 | 35.2 | 32.5 |
| 47.5° | 3314.2 | 2376.6 | 368.5 | 151.8 | 100.3 | 67.7 | 51.5 | 37.9 | 29.8 | 27.1 | 24.4 |
| 50° | 3758.7 | 2642.2 | 300.8 | 135.5 | 84.0 | 56.9 | 40.6 | 29.8 | 21.7 | 19.0 | 19.0 |
| 52.5° | 4341.3 | 2999.9 | 260.2 | 119.2 | 67.7 | 48.8 | 32.5 | 21.7 | 16.3 | 13.5 | 13.5 |
| 55° | 4937.5 | 3422.6 | 243.9 | 103.0 | 56.9 | 40.6 | 24.4 | 16.3 | 10.8 | 8.1 | 8.1 |
| 57.5° | 5484.9 | 3696.3 | 235.8 | 84.0 | 48.8 | 29.8 | 19.0 | 10.8 | 5.4 | 2.7 | 2.7 |
| 60° | 5826.3 | 3896.9 | 211.4 | 67.7 | 37.9 | 24.4 | 13.5 | 5.4 | 2.7 | 0.0 | 0.0 |
| 62.5° | 6276.2 | 4100.1 | 173.4 | 51.5 | 27.1 | 16.3 | 8.1 | 2.7 | 0.0 | 0.0 | 0.0 |
| 65° | 6869.6 | 4327.7 | 135.5 | 40.6 | 21.7 | 10.8 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 |
| 67.5° | 7154.2 | 4208.5 | 92.1 | 29.8 | 13.5 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 6585.1 | 3544.6 | 65.0 | 21.7 | 8.1 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 5536.4 | 2777.7 | 48.8 | 13.5 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 4081.1 | 1737.1 | 37.9 | 10.8 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2165.2 | 647.7 | 27.1 | 8.1 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 639.5 | 189.7 | 19.0 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 211.4 | 56.9 | 10.8 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 108.4 | 21.7 | 5.4 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 62.3 | 8.1 | 5.4 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)