

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: P676283

Luminaire Tested: **CCW-SA-2D-740-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676283
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-740-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

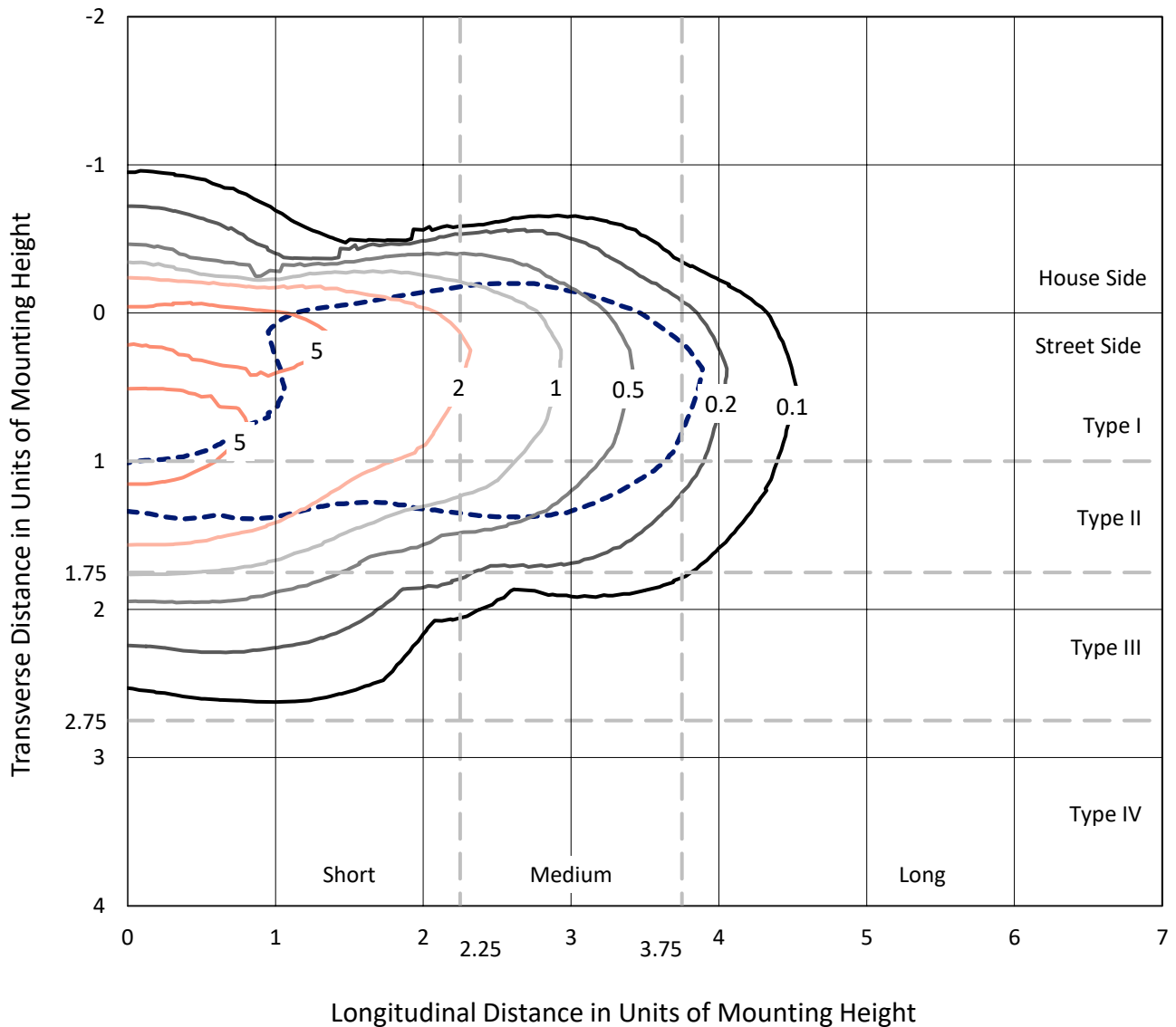
Lumens per Lamp: N/A
Luminaire Lumens: 8610.4 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

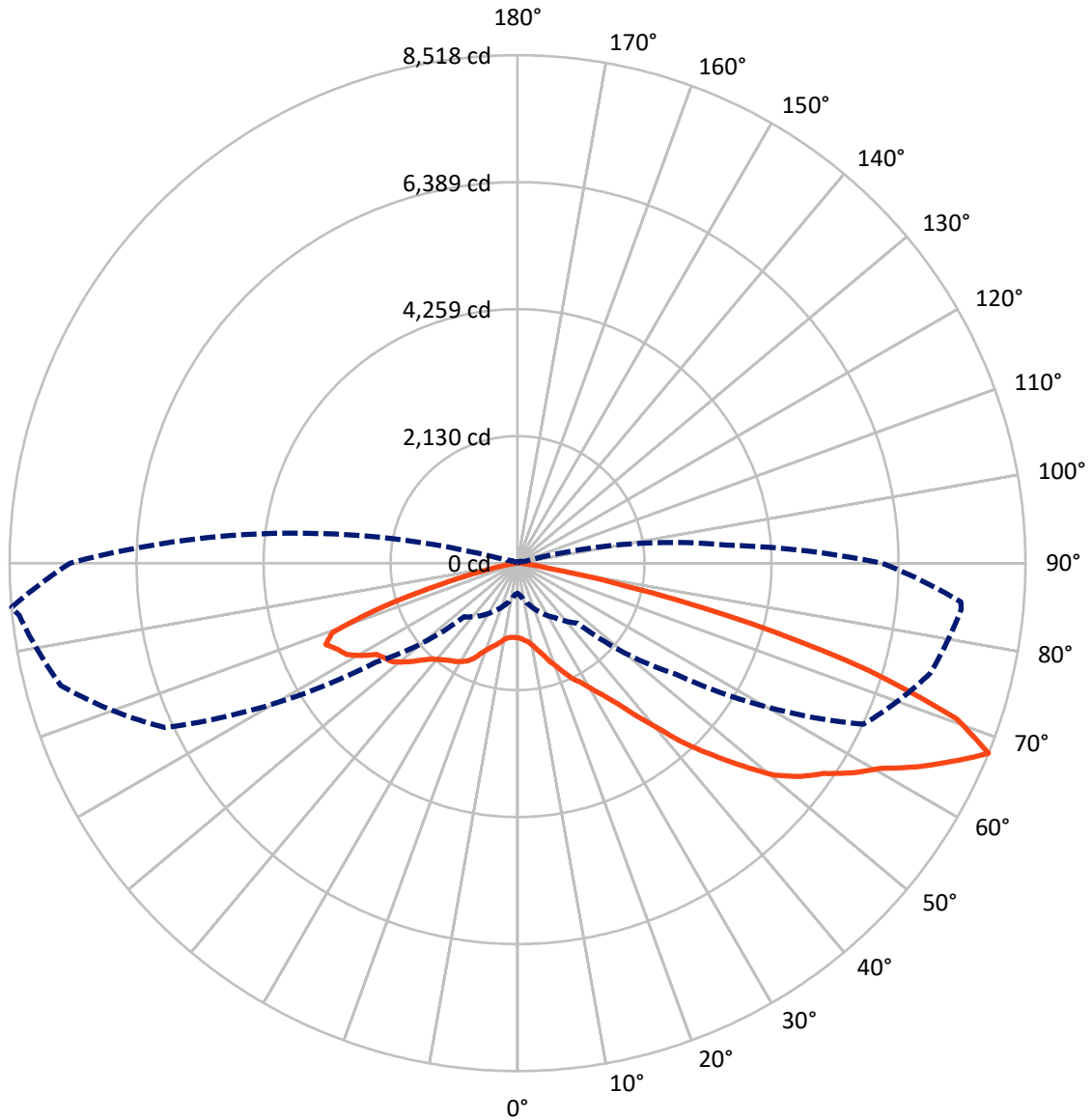
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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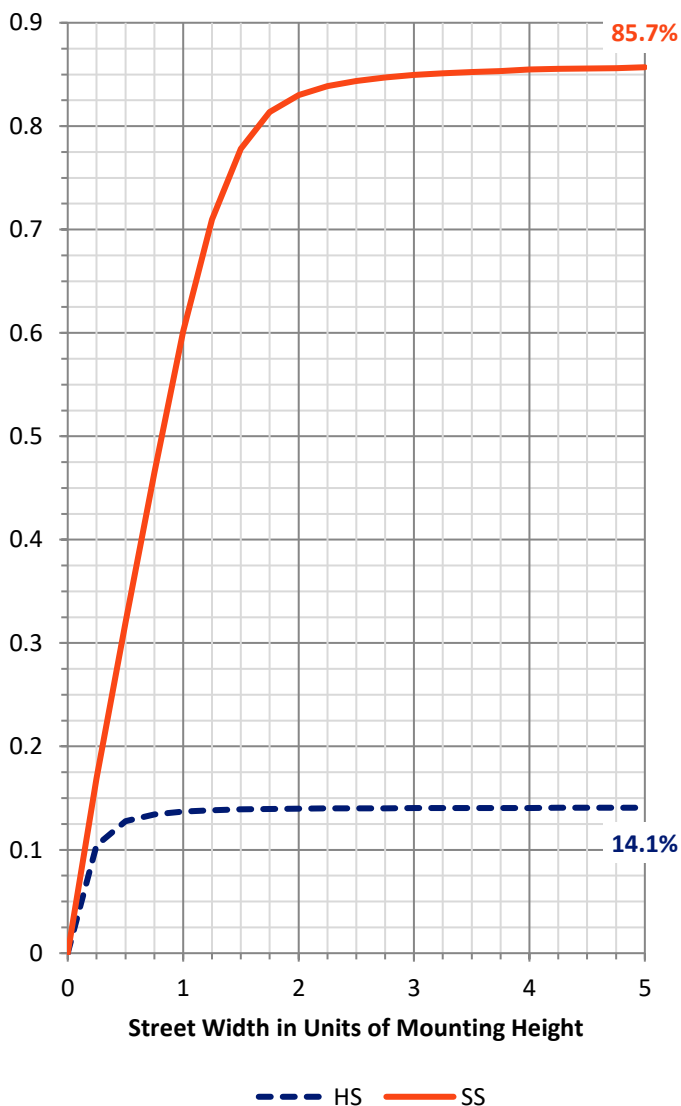
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1223.2 | 0.0 | 1223.2 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 7387.1 | 0.0 | 7387.1 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 8610.4 | 0.0 | 8610.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 114.2 | 1.3 |
| 10°-20° | 307.0 | 3.6 |
| 20°-30° | 509.8 | 5.9 |
| 30°-40° | 877.2 | 10.2 |
| 40°-50° | 1576.3 | 18.3 |
| 50°-60° | 2244.0 | 26.1 |
| 60°-70° | 2045.8 | 23.8 |
| 70°-80° | 871.2 | 10.1 |
| 80°-90° | 64.8 | 0.8 |
| 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° | 8610.4 | 100.0 |
| 0°-180° | 8610.4 | 100.0 |



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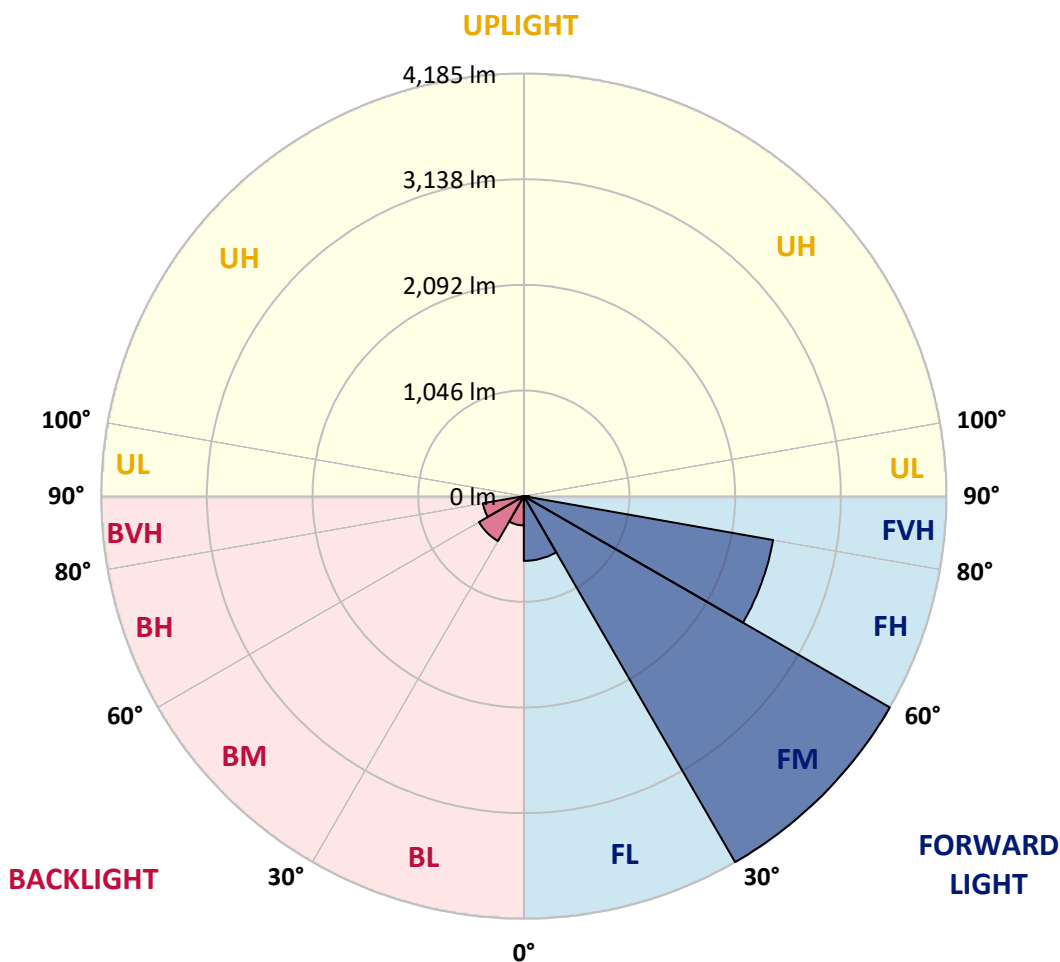
CATALOG NUMBER: CCW-SA-2D-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 641.4 | 7.4 | | | |
| FM (30°-60°) | 4184.7 | 48.6 | | | |
| FH (60°-80°) | 2506.0 | 29.1 | | | G2/5000 |
| FVH (80°-90°) | 55.1 | 0.6 | | | G1/100 |
| BL (0°-30°) | 289.6 | 3.4 | B1/500 | | |
| BM (30°-60°) | 512.9 | 6.0 | B1/1000 | | |
| BH (60°-80°) | 411.0 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.8 | 0.1 | | | 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° | 75° | 84° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 |
| 2.5° | 1297.2 | 1309.5 | 1309.5 | 1305.4 | 1293.1 | 1284.9 | 1280.8 | 1272.6 | 1264.4 | 1264.4 | 1268.5 |
| 5° | 1309.5 | 1297.2 | 1313.7 | 1293.1 | 1293.1 | 1293.1 | 1309.5 | 1301.3 | 1297.2 | 1276.7 | 1276.7 |
| 7.5° | 1309.5 | 1297.2 | 1297.2 | 1309.5 | 1297.2 | 1305.4 | 1326.0 | 1317.8 | 1334.2 | 1297.2 | 1305.4 |
| 10° | 1272.6 | 1268.5 | 1276.7 | 1293.1 | 1297.2 | 1313.7 | 1334.2 | 1375.2 | 1379.3 | 1354.7 | 1350.6 |
| 12.5° | 1198.7 | 1194.6 | 1223.3 | 1231.5 | 1280.8 | 1321.9 | 1383.4 | 1416.3 | 1453.2 | 1440.9 | 1416.3 |
| 15° | 1145.3 | 1153.6 | 1174.1 | 1206.9 | 1252.1 | 1326.0 | 1395.8 | 1469.6 | 1535.3 | 1518.9 | 1510.7 |
| 17.5° | 1165.9 | 1161.8 | 1165.9 | 1186.4 | 1243.9 | 1317.8 | 1436.8 | 1523.0 | 1617.4 | 1617.4 | 1625.6 |
| 20° | 1227.4 | 1239.8 | 1235.7 | 1223.3 | 1252.1 | 1313.7 | 1436.8 | 1588.7 | 1744.7 | 1732.4 | 1732.4 |
| 22.5° | 1334.2 | 1338.3 | 1313.7 | 1305.4 | 1301.3 | 1338.3 | 1461.4 | 1670.8 | 1851.4 | 1876.1 | 1867.8 |
| 25° | 1445.0 | 1449.1 | 1440.9 | 1416.3 | 1383.4 | 1391.6 | 1506.6 | 1736.5 | 1999.2 | 2040.3 | 2032.1 |
| 27.5° | 1629.7 | 1625.6 | 1605.1 | 1576.4 | 1527.1 | 1490.2 | 1576.4 | 1785.7 | 2114.2 | 2183.9 | 2163.4 |
| 30° | 1814.5 | 1802.2 | 1773.4 | 1736.5 | 1691.3 | 1621.5 | 1662.6 | 1880.2 | 2257.8 | 2323.5 | 2278.4 |
| 32.5° | 2040.3 | 2015.6 | 2023.8 | 1966.4 | 1872.0 | 1761.1 | 1752.9 | 1966.4 | 2372.8 | 2467.2 | 2430.3 |
| 35° | 2327.6 | 2298.9 | 2257.8 | 2204.5 | 2114.2 | 1966.4 | 1921.2 | 2105.9 | 2565.7 | 2635.5 | 2635.5 |
| 37.5° | 2705.3 | 2734.0 | 2684.8 | 2463.1 | 2364.6 | 2225.0 | 2130.6 | 2249.6 | 2734.0 | 2902.3 | 2861.3 |
| 40° | 3091.2 | 3115.8 | 3025.5 | 2861.3 | 2647.8 | 2475.4 | 2417.9 | 2483.6 | 2988.6 | 3189.7 | 3111.7 |
| 42.5° | 3403.2 | 3436.0 | 3403.2 | 3189.7 | 3021.4 | 2799.7 | 2697.1 | 2758.7 | 3317.0 | 3559.2 | 3456.5 |
| 45° | 3731.6 | 3764.4 | 3727.5 | 3587.9 | 3423.7 | 3296.4 | 3037.8 | 3115.8 | 3661.8 | 4023.1 | 3908.1 |
| 47.5° | 3977.9 | 4019.0 | 3953.3 | 3924.5 | 3793.2 | 3772.6 | 3333.4 | 3419.6 | 4023.1 | 4491.0 | 4347.4 |
| 50° | 4035.4 | 4080.5 | 4138.0 | 4170.8 | 4125.7 | 4174.9 | 3731.6 | 3805.5 | 4400.7 | 4922.1 | 4782.5 |
| 52.5° | 3899.9 | 3945.1 | 4072.3 | 4224.2 | 4433.6 | 4581.4 | 4133.9 | 4195.5 | 4794.8 | 5279.2 | 5205.3 |
| 55° | 3501.7 | 3542.8 | 3801.4 | 4006.6 | 4507.5 | 4749.7 | 4519.8 | 4778.4 | 5078.1 | 5652.8 | 5472.2 |
| 57.5° | 2832.6 | 2881.8 | 3222.6 | 3538.6 | 4261.2 | 4655.3 | 4749.7 | 5262.8 | 5546.1 | 5927.9 | 5718.5 |
| 60° | 2011.5 | 2040.3 | 2335.8 | 2894.1 | 3579.7 | 4183.2 | 4704.5 | 5624.1 | 5915.5 | 6297.3 | 6186.5 |
| 62.5° | 1157.7 | 1182.3 | 1490.2 | 2015.6 | 2701.2 | 3493.5 | 4503.4 | 5964.8 | 6313.7 | 6703.7 | 6642.2 |
| 65° | 767.7 | 775.9 | 985.2 | 1272.6 | 1757.0 | 2573.9 | 3994.3 | 6268.6 | 6707.8 | 7028.0 | 6958.2 |
| 67.5° | 504.9 | 550.1 | 714.3 | 911.3 | 1124.8 | 1424.5 | 3255.4 | 6395.8 | 7159.4 | 7479.6 | 7463.2 |
| 70° | 361.3 | 377.7 | 513.1 | 702.0 | 845.7 | 800.5 | 1904.8 | 5496.8 | 7138.9 | 7602.8 | 7467.3 |
| 72.5° | 213.5 | 229.9 | 340.7 | 525.5 | 665.0 | 509.0 | 890.8 | 3887.6 | 5915.5 | 6067.4 | 6030.5 |
| 75° | 156.0 | 156.0 | 209.4 | 377.7 | 484.4 | 365.4 | 418.7 | 2459.0 | 3928.6 | 4265.3 | 4261.2 |
| 77.5° | 110.8 | 114.9 | 143.7 | 225.8 | 373.6 | 266.8 | 229.9 | 1367.0 | 2147.0 | 2348.2 | 2237.3 |
| 80° | 65.7 | 69.8 | 98.5 | 135.5 | 270.9 | 192.9 | 151.9 | 624.0 | 825.1 | 833.3 | 792.3 |
| 82.5° | 49.3 | 49.3 | 65.7 | 94.4 | 188.8 | 131.4 | 94.4 | 238.1 | 266.8 | 242.2 | 205.3 |
| 85° | 28.7 | 24.6 | 49.3 | 69.8 | 110.8 | 73.9 | 65.7 | 110.8 | 123.2 | 90.3 | 82.1 |
| 87.5° | 8.2 | 8.2 | 20.5 | 24.6 | 49.3 | 41.1 | 28.7 | 41.1 | 57.5 | 32.8 | 24.6 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 |
| 2.5° | 1260.3 | 1248.0 | 1227.4 | 1219.2 | 1190.5 | 1178.2 | 1170.0 | 1149.4 | 1153.6 | 1141.2 | 1141.2 |
| 5° | 1248.0 | 1248.0 | 1206.9 | 1161.8 | 1116.6 | 1087.9 | 1055.0 | 1014.0 | 1014.0 | 997.6 | 1001.7 |
| 7.5° | 1293.1 | 1260.3 | 1206.9 | 1124.8 | 1050.9 | 985.2 | 956.5 | 915.5 | 890.8 | 878.5 | 878.5 |
| 10° | 1321.9 | 1289.0 | 1198.7 | 1100.2 | 1005.8 | 923.7 | 862.1 | 804.6 | 771.8 | 771.8 | 767.7 |
| 12.5° | 1399.9 | 1350.6 | 1231.5 | 1096.1 | 956.5 | 833.3 | 738.9 | 673.2 | 628.1 | 595.2 | 603.5 |
| 15° | 1465.5 | 1412.2 | 1248.0 | 1063.2 | 870.3 | 697.9 | 582.9 | 459.8 | 398.2 | 365.4 | 353.0 |
| 17.5° | 1568.2 | 1469.6 | 1284.9 | 1005.8 | 738.9 | 546.0 | 377.7 | 275.0 | 250.4 | 246.3 | 246.3 |
| 20° | 1654.4 | 1539.4 | 1289.0 | 894.9 | 607.6 | 348.9 | 242.2 | 225.8 | 213.5 | 209.4 | 205.3 |
| 22.5° | 1773.4 | 1629.7 | 1272.6 | 767.7 | 435.1 | 234.0 | 205.3 | 188.8 | 180.6 | 168.3 | 168.3 |
| 25° | 1896.6 | 1748.8 | 1239.8 | 648.6 | 266.8 | 201.2 | 180.6 | 164.2 | 147.8 | 139.6 | 143.7 |
| 27.5° | 2028.0 | 1839.1 | 1145.3 | 504.9 | 205.3 | 176.5 | 147.8 | 135.5 | 127.3 | 123.2 | 123.2 |
| 30° | 2134.7 | 1896.6 | 1005.8 | 336.6 | 184.7 | 156.0 | 131.4 | 119.0 | 110.8 | 106.7 | 106.7 |
| 32.5° | 2212.7 | 1945.8 | 849.8 | 225.8 | 168.3 | 139.6 | 119.0 | 106.7 | 98.5 | 94.4 | 94.4 |
| 35° | 2344.0 | 1982.8 | 706.1 | 192.9 | 151.9 | 123.2 | 102.6 | 94.4 | 86.2 | 86.2 | 86.2 |
| 37.5° | 2545.2 | 2032.1 | 562.4 | 176.5 | 139.6 | 110.8 | 98.5 | 86.2 | 82.1 | 78.0 | 78.0 |
| 40° | 2721.7 | 2093.6 | 402.3 | 160.1 | 127.3 | 102.6 | 86.2 | 78.0 | 73.9 | 69.8 | 69.8 |
| 42.5° | 2976.2 | 2163.4 | 262.7 | 143.7 | 114.9 | 94.4 | 78.0 | 69.8 | 65.7 | 61.6 | 61.6 |
| 45° | 3300.6 | 2278.4 | 205.3 | 127.3 | 102.6 | 86.2 | 73.9 | 65.7 | 57.5 | 57.5 | 53.4 |
| 47.5° | 3645.4 | 2417.9 | 184.7 | 119.0 | 94.4 | 78.0 | 65.7 | 57.5 | 53.4 | 49.3 | 49.3 |
| 50° | 3965.6 | 2553.4 | 172.4 | 110.8 | 86.2 | 73.9 | 61.6 | 53.4 | 45.2 | 41.1 | 41.1 |
| 52.5° | 4252.9 | 2680.7 | 164.2 | 102.6 | 82.1 | 65.7 | 53.4 | 45.2 | 41.1 | 36.9 | 36.9 |
| 55° | 4404.8 | 2738.1 | 160.1 | 98.5 | 73.9 | 61.6 | 49.3 | 41.1 | 36.9 | 32.8 | 32.8 |
| 57.5° | 4642.9 | 2812.0 | 156.0 | 94.4 | 69.8 | 53.4 | 45.2 | 36.9 | 32.8 | 28.7 | 28.7 |
| 60° | 5028.8 | 3054.2 | 151.9 | 90.3 | 65.7 | 53.4 | 41.1 | 32.8 | 24.6 | 20.5 | 20.5 |
| 62.5° | 5349.0 | 3255.4 | 135.5 | 78.0 | 57.5 | 45.2 | 32.8 | 24.6 | 16.4 | 12.3 | 12.3 |
| 65° | 5714.4 | 3349.8 | 119.0 | 69.8 | 49.3 | 36.9 | 24.6 | 16.4 | 12.3 | 4.1 | 4.1 |
| 67.5° | 6112.6 | 3493.5 | 98.5 | 61.6 | 45.2 | 28.7 | 20.5 | 12.3 | 4.1 | 0.0 | 0.0 |
| 70° | 5903.2 | 3312.9 | 82.1 | 53.4 | 41.1 | 24.6 | 16.4 | 8.2 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4626.5 | 2372.8 | 65.7 | 49.3 | 36.9 | 24.6 | 16.4 | 4.1 | 0.0 | 0.0 | 0.0 |
| 75° | 3091.2 | 1342.4 | 57.5 | 41.1 | 28.7 | 20.5 | 12.3 | 4.1 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1679.0 | 603.5 | 49.3 | 36.9 | 24.6 | 16.4 | 12.3 | 4.1 | 0.0 | 0.0 | 0.0 |
| 80° | 546.0 | 238.1 | 41.1 | 32.8 | 24.6 | 16.4 | 12.3 | 4.1 | 0.0 | 0.0 | 0.0 |
| 82.5° | 147.8 | 73.9 | 41.1 | 32.8 | 24.6 | 16.4 | 12.3 | 4.1 | 0.0 | 0.0 | 0.0 |
| 85° | 61.6 | 49.3 | 41.1 | 32.8 | 24.6 | 16.4 | 12.3 | 4.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 24.6 | 16.4 | 16.4 | 20.5 | 16.4 | 12.3 | 8.2 | 4.1 | 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 |



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 CATALOG NUMBER: CCW-SA-2D-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 |
| 2.5° | 1145.3 | 1153.6 | 1157.7 | 1157.7 | 1178.2 | 1198.7 | 1223.3 | 1243.9 | 1243.9 | 1256.2 | 1268.5 |
| 5° | 1005.8 | 1014.0 | 1026.3 | 1063.2 | 1104.3 | 1149.4 | 1194.6 | 1227.4 | 1272.6 | 1293.1 | 1305.4 |
| 7.5° | 890.8 | 899.0 | 931.9 | 968.8 | 1026.3 | 1104.3 | 1182.3 | 1256.2 | 1301.3 | 1321.9 | 1338.3 |
| 10° | 771.8 | 784.1 | 821.0 | 886.7 | 960.6 | 1055.0 | 1145.3 | 1272.6 | 1346.5 | 1387.5 | 1404.0 |
| 12.5° | 599.4 | 632.2 | 681.5 | 751.2 | 845.7 | 989.3 | 1157.7 | 1289.0 | 1416.3 | 1465.5 | 1498.4 |
| 15° | 377.7 | 406.4 | 484.4 | 595.2 | 722.5 | 890.8 | 1124.8 | 1313.7 | 1490.2 | 1539.4 | 1592.8 |
| 17.5° | 242.2 | 246.3 | 270.9 | 390.0 | 554.2 | 767.7 | 1075.6 | 1350.6 | 1572.3 | 1642.1 | 1724.2 |
| 20° | 205.3 | 213.5 | 217.6 | 234.0 | 369.5 | 632.2 | 972.9 | 1395.8 | 1670.8 | 1765.2 | 1843.2 |
| 22.5° | 172.4 | 176.5 | 184.7 | 197.0 | 221.7 | 459.8 | 833.3 | 1395.8 | 1757.0 | 1896.6 | 1986.9 |
| 25° | 139.6 | 147.8 | 156.0 | 168.3 | 192.9 | 287.4 | 689.7 | 1371.1 | 1859.6 | 2032.1 | 2147.0 |
| 27.5° | 123.2 | 123.2 | 131.4 | 143.7 | 164.2 | 201.2 | 546.0 | 1297.2 | 1937.6 | 2114.2 | 2266.0 |
| 30° | 106.7 | 110.8 | 114.9 | 127.3 | 147.8 | 176.5 | 377.7 | 1178.2 | 2019.7 | 2274.3 | 2446.7 |
| 32.5° | 94.4 | 94.4 | 102.6 | 110.8 | 131.4 | 160.1 | 242.2 | 997.6 | 2126.5 | 2397.4 | 2639.6 |
| 35° | 86.2 | 86.2 | 90.3 | 98.5 | 119.0 | 143.7 | 188.8 | 845.7 | 2253.7 | 2631.4 | 2898.2 |
| 37.5° | 78.0 | 78.0 | 82.1 | 90.3 | 106.7 | 127.3 | 172.4 | 726.6 | 2385.1 | 2865.4 | 3255.4 |
| 40° | 69.8 | 69.8 | 73.9 | 82.1 | 94.4 | 114.9 | 156.0 | 587.0 | 2549.3 | 3210.2 | 3645.4 |
| 42.5° | 61.6 | 61.6 | 65.7 | 73.9 | 86.2 | 102.6 | 135.5 | 439.3 | 2766.9 | 3583.8 | 4150.3 |
| 45° | 53.4 | 53.4 | 57.5 | 65.7 | 73.9 | 94.4 | 123.2 | 336.6 | 3005.0 | 3998.4 | 4593.7 |
| 47.5° | 45.2 | 49.3 | 53.4 | 61.6 | 69.8 | 86.2 | 110.8 | 295.6 | 3239.0 | 4437.7 | 5086.3 |
| 50° | 41.1 | 41.1 | 45.2 | 53.4 | 65.7 | 78.0 | 102.6 | 291.5 | 3477.1 | 4774.3 | 5591.2 |
| 52.5° | 36.9 | 36.9 | 41.1 | 49.3 | 61.6 | 73.9 | 98.5 | 299.7 | 3674.1 | 5086.3 | 5944.3 |
| 55° | 32.8 | 32.8 | 36.9 | 41.1 | 53.4 | 69.8 | 90.3 | 307.9 | 3813.7 | 5402.4 | 6227.5 |
| 57.5° | 28.7 | 28.7 | 32.8 | 41.1 | 49.3 | 61.6 | 82.1 | 316.1 | 4039.5 | 5714.4 | 6638.0 |
| 60° | 20.5 | 20.5 | 28.7 | 36.9 | 45.2 | 53.4 | 78.0 | 324.3 | 4400.7 | 6145.4 | 6987.0 |
| 62.5° | 12.3 | 12.3 | 16.4 | 28.7 | 36.9 | 49.3 | 69.8 | 307.9 | 4737.4 | 6699.6 | 7520.7 |
| 65° | 4.1 | 8.2 | 12.3 | 16.4 | 28.7 | 41.1 | 57.5 | 279.2 | 5020.6 | 7253.8 | 8013.3 |
| 67.5° | 0.0 | 0.0 | 4.1 | 12.3 | 24.6 | 32.8 | 49.3 | 205.3 | 5065.8 | 7504.2 | 8518.2 |
| 70° | 0.0 | 0.0 | 4.1 | 12.3 | 20.5 | 32.8 | 45.2 | 114.9 | 4314.5 | 6703.7 | 7808.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 8.2 | 20.5 | 28.7 | 41.1 | 86.2 | 3181.5 | 5053.5 | 6170.1 |
| 75° | 0.0 | 0.0 | 0.0 | 4.1 | 16.4 | 24.6 | 36.9 | 65.7 | 1933.5 | 3370.3 | 4027.2 |
| 77.5° | 0.0 | 0.0 | 0.0 | 4.1 | 12.3 | 24.6 | 36.9 | 57.5 | 681.5 | 1605.1 | 1892.5 |
| 80° | 0.0 | 0.0 | 0.0 | 8.2 | 16.4 | 24.6 | 32.8 | 49.3 | 164.2 | 402.3 | 541.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 4.1 | 12.3 | 20.5 | 28.7 | 41.1 | 65.7 | 119.0 | 188.8 |
| 85° | 0.0 | 0.0 | 0.0 | 4.1 | 8.2 | 20.5 | 28.7 | 36.9 | 45.2 | 57.5 | 82.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 8.2 | 12.3 | 16.4 | 16.4 | 16.4 | 28.7 |
| 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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| 0° | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 |
| 2.5° | 1264.4 | 1280.8 | 1289.0 | 1305.4 | 1313.7 | 1309.5 | 1305.4 | 1317.8 | 1309.5 | 1297.2 |
| 5° | 1309.5 | 1309.5 | 1321.9 | 1326.0 | 1326.0 | 1313.7 | 1321.9 | 1317.8 | 1309.5 | 1309.5 |
| 7.5° | 1358.8 | 1379.3 | 1379.3 | 1354.7 | 1350.6 | 1342.4 | 1342.4 | 1309.5 | 1297.2 | 1309.5 |
| 10° | 1408.1 | 1424.5 | 1428.6 | 1399.9 | 1362.9 | 1346.5 | 1326.0 | 1284.9 | 1264.4 | 1272.6 |
| 12.5° | 1510.7 | 1510.7 | 1465.5 | 1432.7 | 1383.4 | 1326.0 | 1276.7 | 1219.2 | 1190.5 | 1198.7 |
| 15° | 1584.6 | 1601.0 | 1539.4 | 1465.5 | 1379.3 | 1272.6 | 1219.2 | 1174.1 | 1157.7 | 1145.3 |
| 17.5° | 1728.3 | 1695.4 | 1596.9 | 1490.2 | 1367.0 | 1256.2 | 1219.2 | 1178.2 | 1165.9 | 1165.9 |
| 20° | 1851.4 | 1835.0 | 1687.2 | 1494.3 | 1362.9 | 1289.0 | 1264.4 | 1243.9 | 1239.8 | 1227.4 |
| 22.5° | 2019.7 | 1945.8 | 1757.0 | 1539.4 | 1408.1 | 1342.4 | 1334.2 | 1354.7 | 1342.4 | 1334.2 |
| 25° | 2147.0 | 2085.4 | 1810.4 | 1605.1 | 1477.9 | 1457.3 | 1469.6 | 1490.2 | 1457.3 | 1445.0 |
| 27.5° | 2319.4 | 2204.5 | 1913.0 | 1691.3 | 1572.3 | 1592.8 | 1633.9 | 1638.0 | 1617.4 | 1629.7 |
| 30° | 2479.5 | 2356.4 | 1991.0 | 1789.9 | 1732.4 | 1752.9 | 1814.5 | 1859.6 | 1830.9 | 1814.5 |
| 32.5° | 2709.4 | 2520.6 | 2147.0 | 1954.1 | 1933.5 | 1986.9 | 2056.7 | 2085.4 | 2048.5 | 2040.3 |
| 35° | 2951.6 | 2709.4 | 2307.1 | 2138.8 | 2175.7 | 2249.6 | 2311.2 | 2360.5 | 2303.0 | 2327.6 |
| 37.5° | 3329.3 | 3013.2 | 2578.0 | 2430.3 | 2446.7 | 2475.4 | 2590.4 | 2725.8 | 2754.6 | 2705.3 |
| 40° | 3723.4 | 3341.6 | 2828.5 | 2713.5 | 2750.5 | 2828.5 | 2963.9 | 3091.2 | 3156.9 | 3091.2 |
| 42.5° | 4179.1 | 3657.7 | 3214.3 | 3078.9 | 3115.8 | 3226.7 | 3407.3 | 3509.9 | 3501.7 | 3403.2 |
| 45° | 4741.5 | 4097.0 | 3575.6 | 3407.3 | 3542.8 | 3641.3 | 3821.9 | 3834.2 | 3756.2 | 3731.6 |
| 47.5° | 5172.5 | 4466.4 | 3965.6 | 3858.9 | 4043.6 | 4047.7 | 4088.7 | 4092.8 | 4006.6 | 3977.9 |
| 50° | 5648.7 | 4893.4 | 4400.7 | 4244.7 | 4556.7 | 4413.0 | 4302.2 | 4228.3 | 4097.0 | 4035.4 |
| 52.5° | 6116.7 | 5197.1 | 4803.0 | 4642.9 | 4967.2 | 4585.5 | 4384.3 | 4158.5 | 3965.6 | 3899.9 |
| 55° | 6367.1 | 5698.0 | 5390.1 | 5016.5 | 5057.6 | 4634.7 | 4129.8 | 3846.5 | 3518.1 | 3501.7 |
| 57.5° | 6662.7 | 6034.6 | 5886.8 | 5271.0 | 4905.7 | 4289.9 | 3600.2 | 3226.7 | 2873.6 | 2832.6 |
| 60° | 7011.6 | 6568.3 | 6412.3 | 5230.0 | 4367.9 | 3604.3 | 2853.1 | 2372.8 | 2040.3 | 2011.5 |
| 62.5° | 7401.6 | 7200.5 | 6736.6 | 4827.7 | 3468.9 | 2537.0 | 1884.3 | 1482.0 | 1174.1 | 1157.7 |
| 65° | 8017.4 | 7730.0 | 6909.0 | 4064.1 | 2294.8 | 1625.6 | 1252.1 | 960.6 | 775.9 | 767.7 |
| 67.5° | 8403.3 | 7931.2 | 6523.1 | 2898.2 | 1272.6 | 1075.6 | 878.5 | 697.9 | 537.8 | 504.9 |
| 70° | 7857.3 | 7278.5 | 5160.2 | 1658.5 | 738.9 | 816.9 | 677.4 | 468.0 | 369.5 | 361.3 |
| 72.5° | 6276.8 | 5402.4 | 3473.0 | 780.0 | 459.8 | 640.4 | 492.6 | 316.1 | 221.7 | 213.5 |
| 75° | 4281.7 | 3399.1 | 2179.8 | 361.3 | 324.3 | 468.0 | 361.3 | 184.7 | 156.0 | 156.0 |
| 77.5° | 1913.0 | 1732.4 | 1116.6 | 221.7 | 242.2 | 357.1 | 209.4 | 127.3 | 114.9 | 110.8 |
| 80° | 582.9 | 611.7 | 455.7 | 151.9 | 180.6 | 270.9 | 127.3 | 86.2 | 69.8 | 65.7 |
| 82.5° | 197.0 | 229.9 | 205.3 | 90.3 | 123.2 | 192.9 | 86.2 | 57.5 | 49.3 | 49.3 |
| 85° | 94.4 | 114.9 | 102.6 | 57.5 | 65.7 | 94.4 | 69.8 | 45.2 | 28.7 | 28.7 |
| 87.5° | 36.9 | 53.4 | 36.9 | 24.6 | 36.9 | 49.3 | 28.7 | 20.5 | 8.2 | 8.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)