

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: P675132

Luminaire Tested: **CCW-SA-2E-740-U-T4FT**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P675132  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-740-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T4FT distribution lens  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

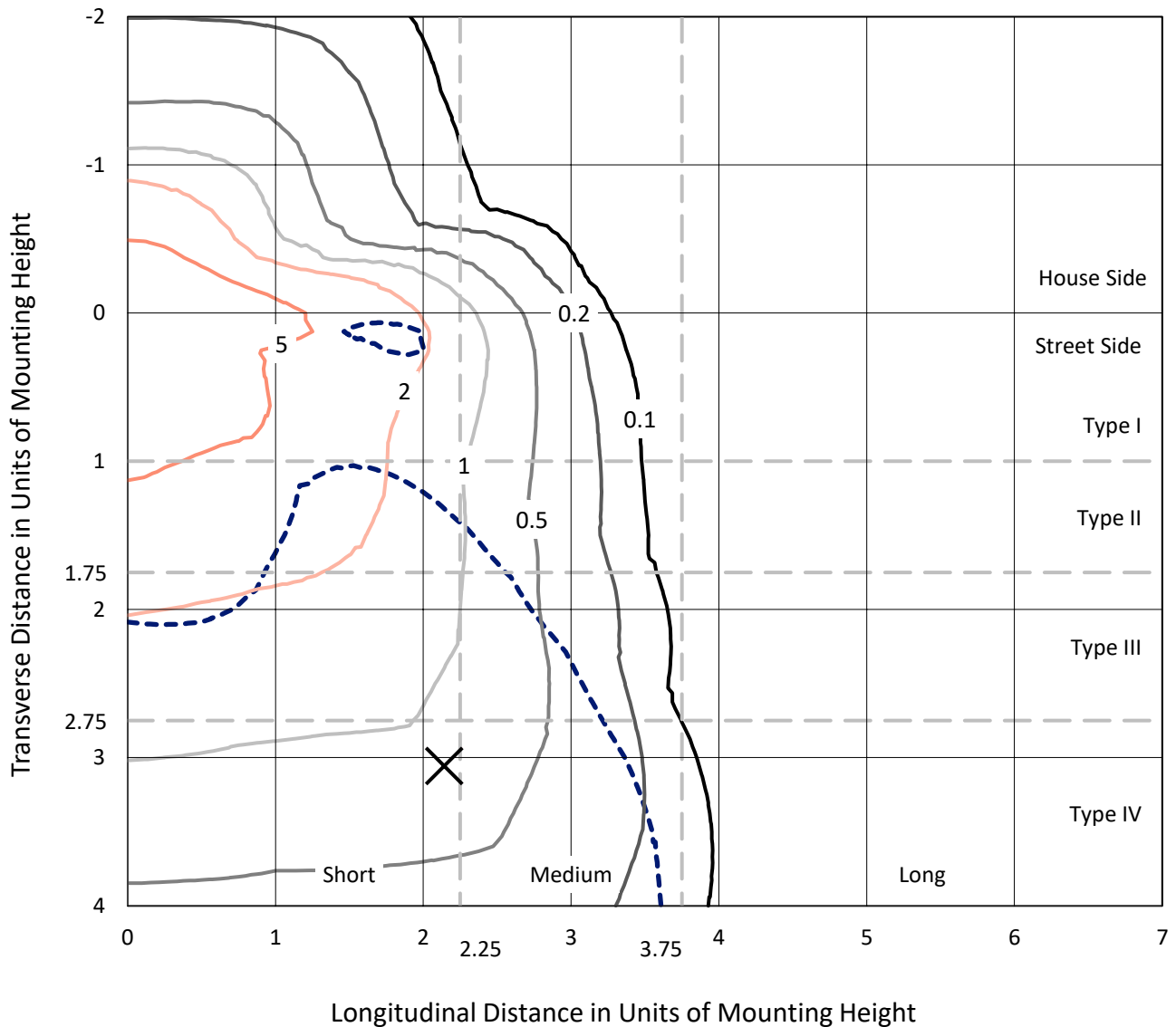
Lumens per Lamp: N/A  
Luminaire Lumens: 13664.6 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6  
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

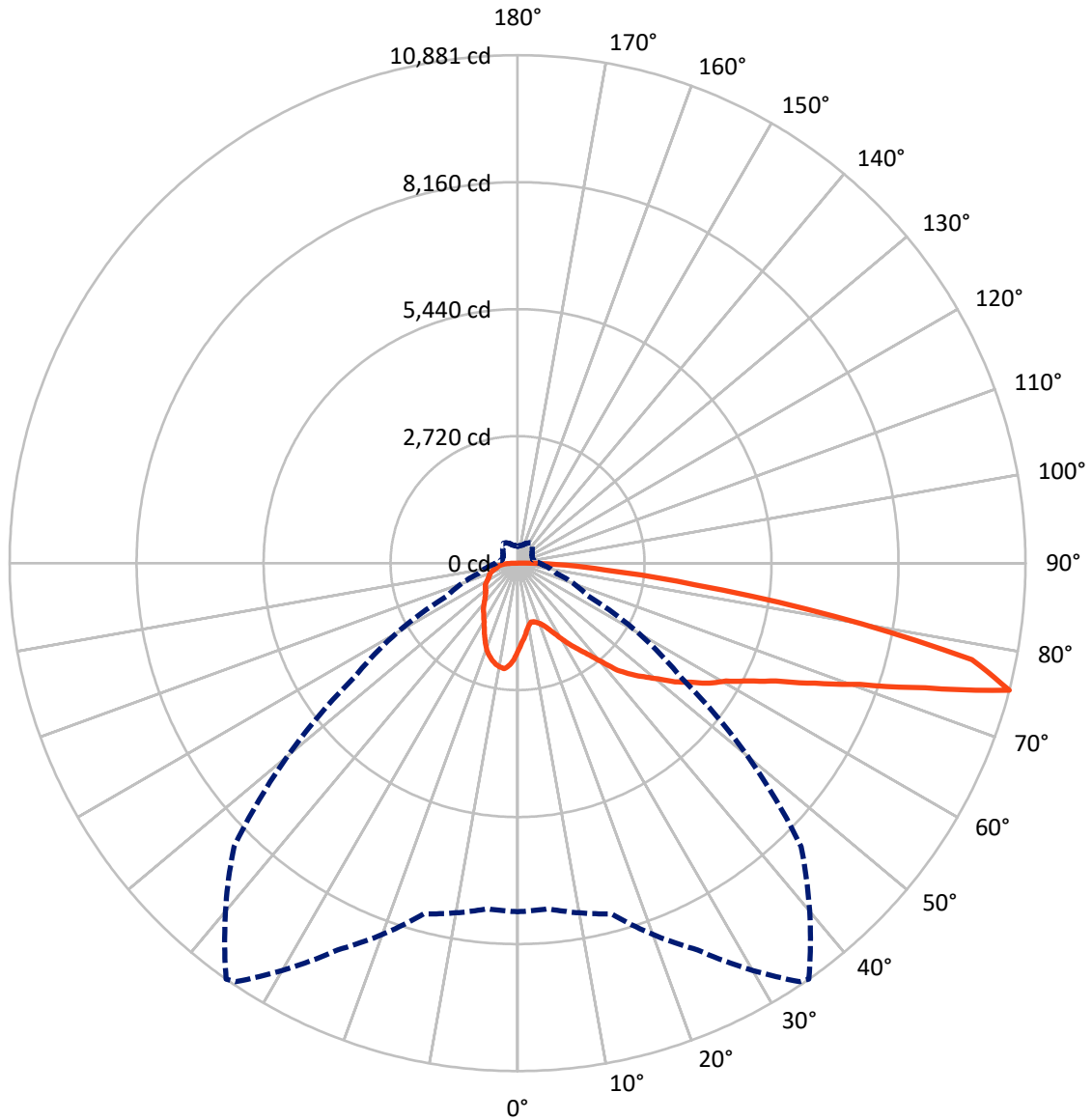
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3140.5   | 0.0    | 3140.5  |
|                    | % Fixture | 23.0     | 0.0    | 23.0    |
| <b>Street Side</b> | Lumens    | 10524.1  | 0.0    | 10524.1 |
|                    | % Fixture | 77.0     | 0.0    | 77.0    |
| <b>Total</b>       | Lumens    | 13664.6  | 0.0    | 13664.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 178.4   | 1.3       |
| 10°-20°   | 517.7   | 3.8       |
| 20°-30°   | 859.1   | 6.3       |
| 30°-40°   | 1273.5  | 9.3       |
| 40°-50°   | 1836.2  | 13.4      |
| 50°-60°   | 2525.0  | 18.5      |
| 60°-70°   | 3119.0  | 22.8      |
| 70°-80°   | 2853.4  | 20.9      |
| 80°-90°   | 502.3   | 3.7       |
| 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°    | 13664.6 | 100.0     |
| 0°-180°   | 13664.6 | 100.0     |



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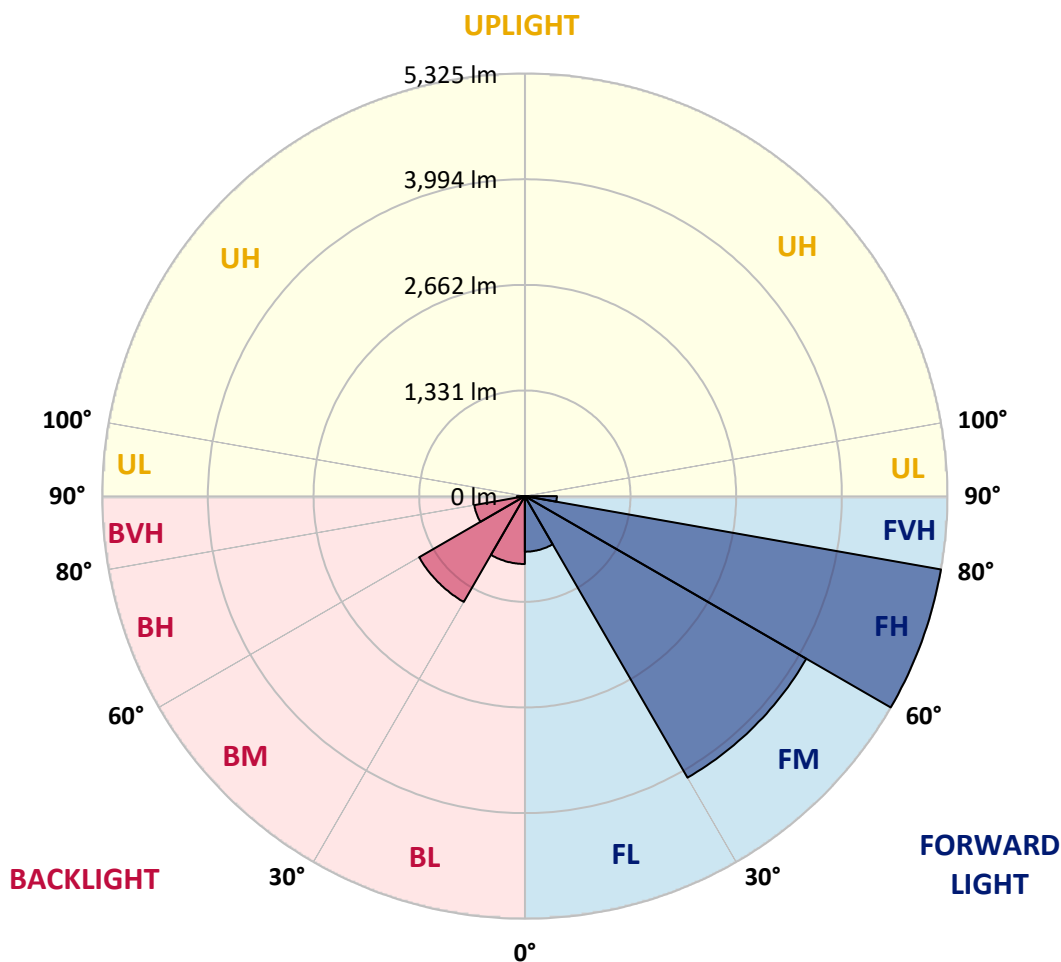
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 700.4  | 5.1       |                         |      |         |
| FM (30°-60°)   | 4095.8 | 30.0      |                         |      |         |
| FH (60°-80°)   | 5324.8 | 39.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 403.1  | 3.0       |                         |      | G3/500  |
| BL (0°-30°)    | 854.8  | 6.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 1538.9 | 11.3      | B2/2500                 |      |         |
| BH (60°-80°)   | 647.6  | 4.7       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 99.2   | 0.7       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°     | 35°     | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 1872.1 | 1872.1 | 1872.1 | 1872.1 | 1872.1  | 1872.1  | 1872.1 | 1872.1 | 1872.1 | 1872.1 | 1872.1 |
| 2.5°  | 1696.0 | 1680.9 | 1696.0 | 1706.1 | 1706.1  | 1706.1  | 1721.2 | 1766.4 | 1796.6 | 1816.8 | 1852.0 |
| 5°    | 1519.8 | 1524.9 | 1534.9 | 1560.1 | 1575.2  | 1585.3  | 1610.4 | 1665.8 | 1711.1 | 1776.5 | 1852.0 |
| 7.5°  | 1363.8 | 1373.9 | 1389.0 | 1414.2 | 1449.4  | 1444.4  | 1499.7 | 1575.2 | 1660.8 | 1746.3 | 1857.0 |
| 10°   | 1283.3 | 1303.4 | 1308.5 | 1313.5 | 1348.7  | 1348.7  | 1424.2 | 1509.8 | 1615.5 | 1726.2 | 1857.0 |
| 12.5° | 1298.4 | 1298.4 | 1283.3 | 1278.3 | 1298.4  | 1293.4  | 1358.8 | 1459.5 | 1575.2 | 1731.2 | 1877.2 |
| 15°   | 1343.7 | 1343.7 | 1313.5 | 1283.3 | 1313.5  | 1303.4  | 1358.8 | 1439.3 | 1575.2 | 1736.3 | 1917.4 |
| 17.5° | 1404.1 | 1409.1 | 1373.9 | 1323.6 | 1333.6  | 1338.7  | 1378.9 | 1454.4 | 1575.2 | 1746.3 | 1972.8 |
| 20°   | 1524.9 | 1499.7 | 1444.4 | 1363.8 | 1399.1  | 1384.0  | 1444.4 | 1509.8 | 1605.4 | 1786.6 | 2053.3 |
| 22.5° | 1630.6 | 1630.6 | 1524.9 | 1454.4 | 1459.5  | 1459.5  | 1514.8 | 1570.2 | 1650.7 | 1841.9 | 2113.7 |
| 25°   | 1801.7 | 1791.6 | 1660.8 | 1555.1 | 1565.1  | 1570.2  | 1600.4 | 1665.8 | 1726.2 | 1872.1 | 2189.2 |
| 27.5° | 2018.1 | 1992.9 | 1862.1 | 1741.3 | 1701.0  | 1716.1  | 1731.2 | 1781.5 | 1796.6 | 1922.5 | 2279.8 |
| 30°   | 2249.6 | 2214.4 | 2103.6 | 1912.4 | 1892.3  | 1897.3  | 1872.1 | 1902.3 | 1882.2 | 2003.0 | 2370.4 |
| 32.5° | 2395.5 | 2395.5 | 2289.8 | 2148.9 | 2093.6  | 2093.6  | 2008.0 | 2028.1 | 2028.1 | 2078.5 | 2531.4 |
| 35°   | 2521.3 | 2511.3 | 2440.8 | 2335.1 | 2299.9  | 2279.8  | 2194.2 | 2224.4 | 2174.1 | 2224.4 | 2757.9 |
| 37.5° | 2712.6 | 2682.4 | 2652.2 | 2581.7 | 2511.3  | 2496.2  | 2450.9 | 2471.0 | 2400.6 | 2375.4 | 3014.5 |
| 40°   | 2934.0 | 2918.9 | 2888.7 | 2858.5 | 2788.1  | 2783.0  | 2732.7 | 2752.8 | 2677.4 | 2581.7 | 3271.2 |
| 42.5° | 3261.1 | 3215.8 | 3120.2 | 3095.1 | 3110.2  | 3130.3  | 3110.2 | 3074.9 | 2939.0 | 2818.3 | 3548.0 |
| 45°   | 3588.3 | 3517.8 | 3336.6 | 3296.4 | 3412.1  | 3397.0  | 3482.6 | 3467.5 | 3246.0 | 3054.8 | 3839.9 |
| 47.5° | 3799.6 | 3739.2 | 3593.3 | 3568.1 | 3618.5  | 3638.6  | 3895.2 | 3850.0 | 3497.7 | 3271.2 | 4121.7 |
| 50°   | 3950.6 | 3955.6 | 3764.4 | 3829.8 | 3895.2  | 3895.2  | 4217.3 | 4212.3 | 3804.7 | 3537.9 | 4489.1 |
| 52.5° | 4172.0 | 4101.6 | 4021.1 | 4081.5 | 4172.0  | 4222.4  | 4619.9 | 4509.2 | 3995.9 | 3764.4 | 4901.8 |
| 55°   | 4287.8 | 4257.6 | 4187.1 | 4292.8 | 4484.1  | 4509.2  | 4932.0 | 4846.4 | 4212.3 | 4031.1 | 5324.5 |
| 57.5° | 4333.1 | 4358.2 | 4474.0 | 4519.3 | 4786.0  | 4851.4  | 5213.8 | 5093.0 | 4413.6 | 4363.3 | 5651.6 |
| 60°   | 4534.4 | 4499.2 | 4655.2 | 4836.3 | 5093.0  | 5128.2  | 5566.1 | 5304.4 | 4609.9 | 4579.7 | 5757.3 |
| 62.5° | 4942.0 | 4851.4 | 4937.0 | 5153.4 | 5510.7  | 5556.0  | 5938.5 | 5586.2 | 4695.4 | 4725.6 | 5752.3 |
| 65°   | 5535.9 | 5470.5 | 5344.6 | 5515.7 | 6019.0  | 6084.4  | 6376.3 | 5827.8 | 4670.3 | 4675.3 | 5344.6 |
| 67.5° | 6235.4 | 6129.7 | 5998.9 | 6104.6 | 6718.5  | 6869.5  | 6909.8 | 5933.5 | 4494.1 | 4393.5 | 4348.2 |
| 70°   | 6849.4 | 6778.9 | 6693.4 | 6874.6 | 7730.1  | 7785.5  | 7574.1 | 5868.0 | 4006.0 | 3527.9 | 2898.8 |
| 72.5° | 7423.1 | 7387.9 | 7438.2 | 8117.6 | 9099.0  | 9134.2  | 8198.1 | 5455.4 | 3165.5 | 2138.9 | 1348.7 |
| 75°   | 7468.4 | 7433.2 | 7780.4 | 9144.3 | 10815.1 | 10880.5 | 8585.6 | 4277.7 | 1670.8 | 870.6  | 568.7  |
| 77.5° | 5057.8 | 5163.5 | 5812.7 | 8006.9 | 9934.4  | 9949.5  | 7020.5 | 1987.9 | 689.5  | 513.3  | 397.6  |
| 80°   | 1243.1 | 1378.9 | 2189.2 | 4141.8 | 6698.4  | 6864.5  | 3844.9 | 669.3  | 452.9  | 392.5  | 296.9  |
| 82.5° | 452.9  | 493.2  | 890.8  | 1872.1 | 3764.4  | 3829.8  | 1343.7 | 362.3  | 327.1  | 302.0  | 216.4  |
| 85°   | 216.4  | 221.4  | 422.7  | 921.0  | 1902.3  | 1882.2  | 483.1  | 216.4  | 236.5  | 206.3  | 130.8  |
| 87.5° | 90.6   | 90.6   | 186.2  | 427.8  | 840.4   | 815.3   | 156.0  | 100.7  | 135.9  | 120.8  | 65.4   |
| 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°    | 1872.1 | 1872.1 | 1872.1 | 1872.1 | 1872.1 | 1872.1 | 1872.1 | 1872.1 | 1872.1 | 1872.1 | 1872.1 |
| 2.5°  | 1877.2 | 1887.2 | 1927.5 | 1957.7 | 1987.9 | 2013.0 | 2053.3 | 2053.3 | 2078.5 | 2078.5 | 2078.5 |
| 5°    | 1872.1 | 1927.5 | 1992.9 | 2063.4 | 2108.7 | 2154.0 | 2194.2 | 2199.3 | 2214.4 | 2234.5 | 2239.5 |
| 7.5°  | 1892.3 | 1947.6 | 2053.3 | 2154.0 | 2209.3 | 2229.4 | 2279.8 | 2264.7 | 2264.7 | 2264.7 | 2279.8 |
| 10°   | 1932.5 | 1992.9 | 2138.9 | 2229.4 | 2269.7 | 2274.7 | 2259.6 | 2249.6 | 2219.4 | 2209.3 | 2194.2 |
| 12.5° | 1962.7 | 2068.4 | 2214.4 | 2284.8 | 2269.7 | 2254.6 | 2219.4 | 2169.1 | 2133.8 | 2123.8 | 2123.8 |
| 15°   | 2038.2 | 2143.9 | 2279.8 | 2304.9 | 2279.8 | 2199.3 | 2154.0 | 2098.6 | 2068.4 | 2023.1 | 2043.2 |
| 17.5° | 2103.6 | 2224.4 | 2345.2 | 2315.0 | 2264.7 | 2138.9 | 2073.4 | 1992.9 | 1952.7 | 1902.3 | 1902.3 |
| 20°   | 2189.2 | 2299.9 | 2405.6 | 2325.1 | 2214.4 | 2078.5 | 1972.8 | 1872.1 | 1816.8 | 1766.4 | 1776.5 |
| 22.5° | 2284.8 | 2385.5 | 2440.8 | 2284.8 | 2138.9 | 1982.9 | 1836.9 | 1741.3 | 1670.8 | 1640.6 | 1650.7 |
| 25°   | 2360.3 | 2471.0 | 2460.9 | 2219.4 | 2048.3 | 1862.1 | 1701.0 | 1610.4 | 1595.3 | 1565.1 | 1565.1 |
| 27.5° | 2455.9 | 2571.7 | 2445.9 | 2138.9 | 1897.3 | 1670.8 | 1570.2 | 1534.9 | 1534.9 | 1519.8 | 1529.9 |
| 30°   | 2581.7 | 2662.3 | 2410.6 | 2023.1 | 1706.1 | 1499.7 | 1449.4 | 1469.5 | 1504.8 | 1489.7 | 1494.7 |
| 32.5° | 2788.1 | 2778.0 | 2380.4 | 1892.3 | 1504.8 | 1333.6 | 1368.9 | 1409.1 | 1439.3 | 1454.4 | 1464.5 |
| 35°   | 2989.4 | 2923.9 | 2345.2 | 1716.1 | 1318.5 | 1253.1 | 1283.3 | 1328.6 | 1384.0 | 1399.1 | 1404.1 |
| 37.5° | 3190.7 | 3074.9 | 2284.8 | 1499.7 | 1202.8 | 1182.7 | 1212.9 | 1238.0 | 1283.3 | 1293.4 | 1303.4 |
| 40°   | 3402.0 | 3175.6 | 2179.1 | 1288.3 | 1107.2 | 1107.2 | 1127.3 | 1132.3 | 1157.5 | 1172.6 | 1182.7 |
| 42.5° | 3588.3 | 3271.2 | 1987.9 | 1092.1 | 1006.5 | 1041.8 | 1046.8 | 1036.7 | 1016.6 | 1026.7 | 1031.7 |
| 45°   | 3814.7 | 3376.9 | 1766.4 | 951.2  | 931.0  | 976.3  | 986.4  | 946.1  | 910.9  | 890.8  | 880.7  |
| 47.5° | 4036.2 | 3487.6 | 1575.2 | 835.4  | 860.6  | 931.0  | 931.0  | 885.7  | 825.3  | 775.0  | 754.9  |
| 50°   | 4237.5 | 3598.3 | 1419.2 | 765.0  | 790.1  | 895.8  | 905.9  | 820.3  | 754.9  | 694.5  | 684.4  |
| 52.5° | 4574.6 | 3784.5 | 1258.2 | 709.6  | 749.9  | 870.6  | 865.6  | 790.1  | 704.6  | 639.1  | 634.1  |
| 55°   | 4871.6 | 3970.7 | 1046.8 | 654.2  | 709.6  | 835.4  | 850.5  | 759.9  | 644.2  | 583.8  | 573.7  |
| 57.5° | 5088.0 | 4016.0 | 835.4  | 598.9  | 669.3  | 795.2  | 815.3  | 699.5  | 603.9  | 553.6  | 548.6  |
| 60°   | 5128.2 | 3839.9 | 679.4  | 553.6  | 614.0  | 739.8  | 754.9  | 664.3  | 573.7  | 533.5  | 523.4  |
| 62.5° | 4942.0 | 3502.7 | 578.8  | 513.3  | 568.7  | 684.4  | 714.6  | 624.0  | 543.5  | 508.3  | 503.3  |
| 65°   | 4519.3 | 3009.5 | 508.3  | 478.1  | 538.5  | 644.2  | 679.4  | 593.8  | 518.4  | 488.2  | 483.1  |
| 67.5° | 3578.2 | 2310.0 | 452.9  | 452.9  | 498.2  | 603.9  | 654.2  | 573.7  | 493.2  | 473.1  | 468.0  |
| 70°   | 2340.2 | 1389.0 | 412.7  | 417.7  | 468.0  | 568.7  | 624.0  | 548.6  | 463.0  | 458.0  | 447.9  |
| 72.5° | 1006.5 | 639.1  | 367.4  | 382.5  | 422.7  | 508.3  | 578.8  | 513.3  | 427.8  | 412.7  | 397.6  |
| 75°   | 463.0  | 387.5  | 332.2  | 342.2  | 377.4  | 447.9  | 523.4  | 473.1  | 397.6  | 372.4  | 357.3  |
| 77.5° | 327.1  | 281.8  | 276.8  | 296.9  | 322.1  | 387.5  | 463.0  | 442.9  | 367.4  | 347.3  | 337.2  |
| 80°   | 241.6  | 216.4  | 231.5  | 251.6  | 266.7  | 357.3  | 437.8  | 407.6  | 337.2  | 307.0  | 291.9  |
| 82.5° | 171.1  | 161.0  | 181.2  | 201.3  | 216.4  | 312.0  | 402.6  | 357.3  | 281.8  | 256.7  | 231.5  |
| 85°   | 100.7  | 105.7  | 125.8  | 135.9  | 151.0  | 231.5  | 337.2  | 286.9  | 216.4  | 166.1  | 161.0  |
| 87.5° | 45.3   | 45.3   | 60.4   | 65.4   | 75.5   | 135.9  | 226.5  | 181.2  | 135.9  | 105.7  | 100.7  |
| 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)