

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: P675412

Luminaire Tested: **CCW-SA-1C-740-U-SL2**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P675412  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-740-U-SL2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
SL2 distribution lens  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

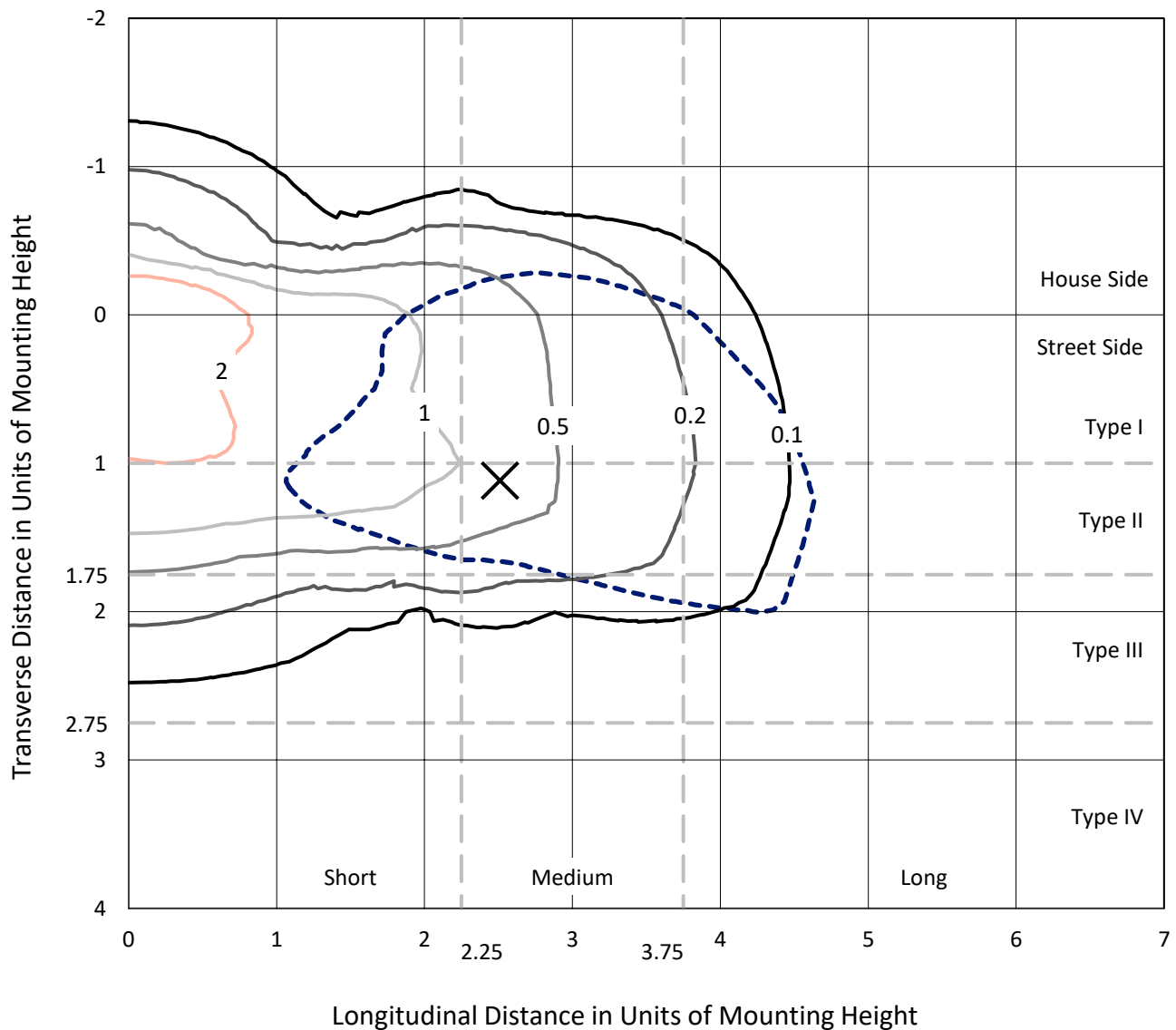
Lumens per Lamp: N/A  
Luminaire Lumens: 4474.7 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 32  
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

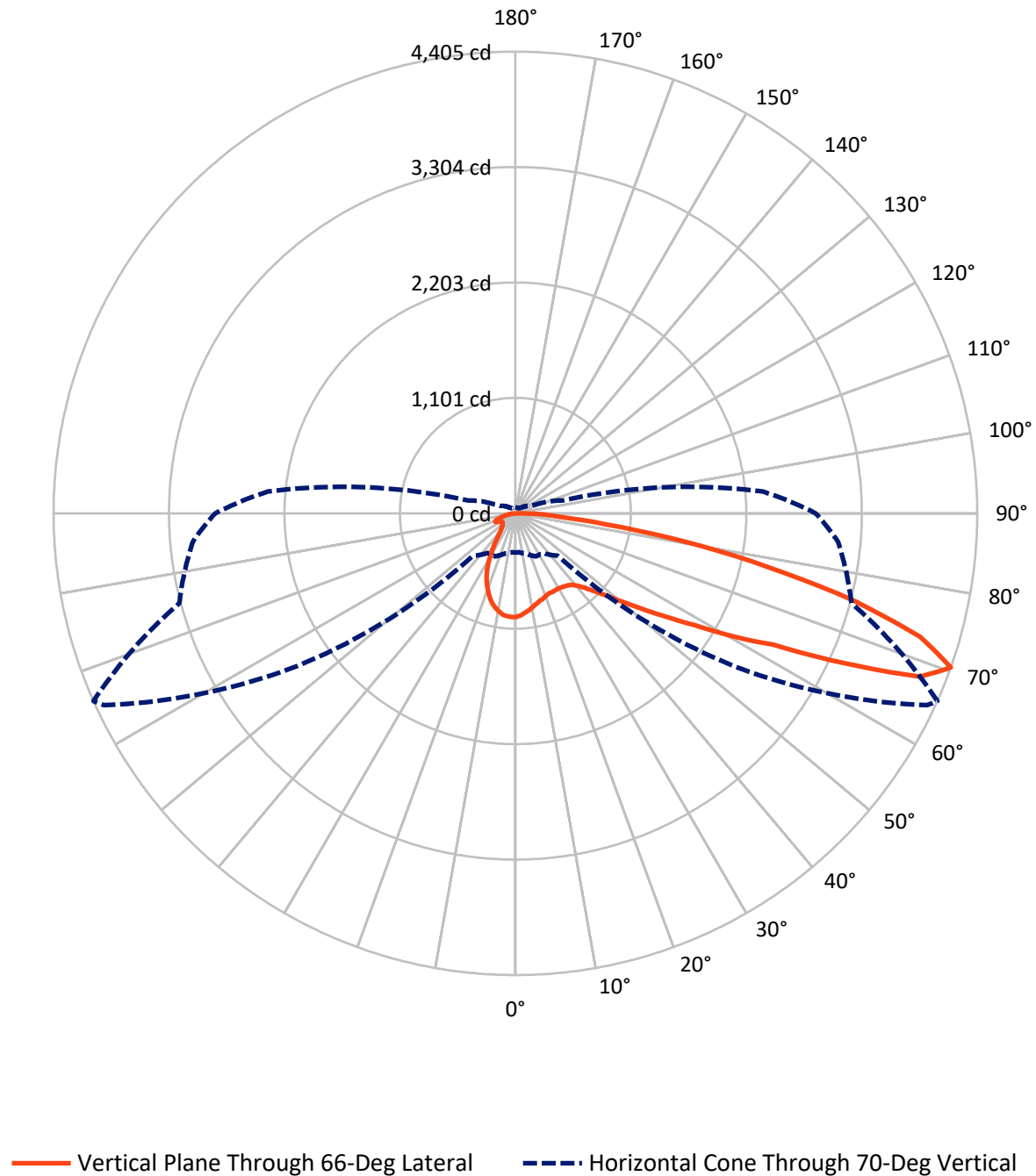
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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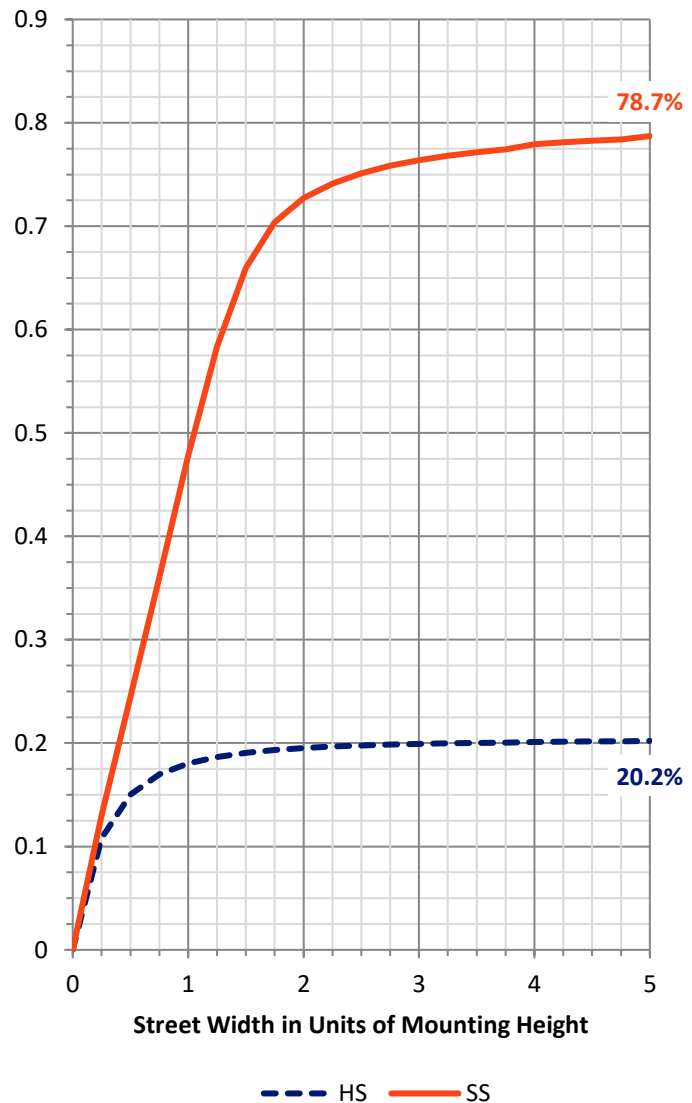
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 915.9    | 0.0    | 915.9  |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 3558.8   | 0.0    | 3558.8 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 4474.7   | 0.0    | 4474.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.4   | 2.0       |
| 10°-20°   | 215.2  | 4.8       |
| 20°-30°   | 295.5  | 6.6       |
| 30°-40°   | 396.2  | 8.9       |
| 40°-50°   | 574.9  | 12.8      |
| 50°-60°   | 873.9  | 19.5      |
| 60°-70°   | 1079.3 | 24.1      |
| 70°-80°   | 802.6  | 17.9      |
| 80°-90°   | 149.7  | 3.3       |
| 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°    | 4474.7 | 100.0     |
| 0°-180°   | 4474.7 | 100.0     |

**Coefficient of Utilization**



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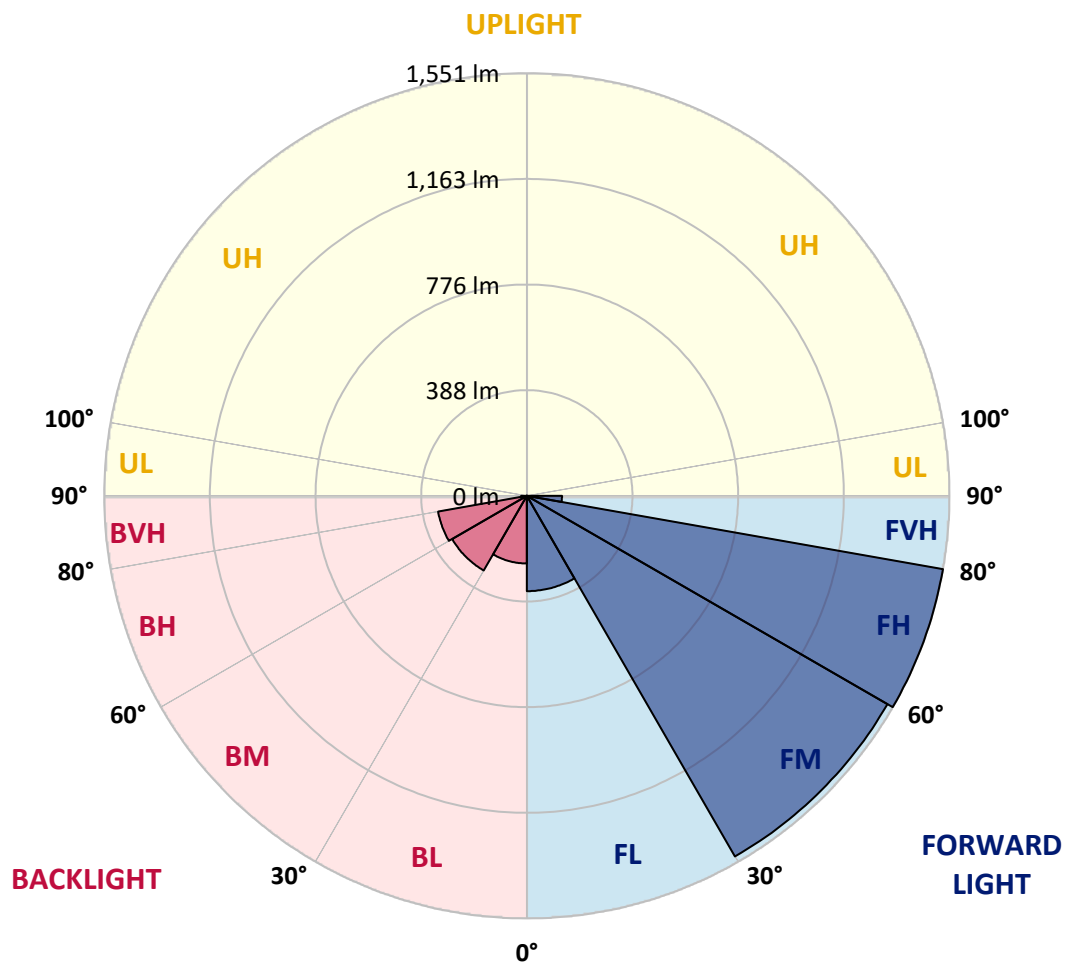
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 349.9  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 1528.6 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 1551.2 | 34.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 129.0  | 2.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 248.2  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 316.4  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 330.6  | 7.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 20.7   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 988.6  | 988.6  | 988.6  | 988.6  | 988.6  | 988.6  | 988.6  | 988.6  | 988.6  | 988.6  | 988.6  |
| 2.5°  | 940.3  | 945.3  | 947.0  | 950.3  | 958.6  | 965.3  | 975.3  | 980.3  | 975.3  | 981.9  | 981.9  |
| 5°    | 875.4  | 868.8  | 885.4  | 892.1  | 902.0  | 915.4  | 938.7  | 957.0  | 952.0  | 971.9  | 988.6  |
| 7.5°  | 820.5  | 820.5  | 825.5  | 840.5  | 852.1  | 872.1  | 897.1  | 925.3  | 933.7  | 960.3  | 985.3  |
| 10°   | 770.6  | 777.2  | 777.2  | 800.5  | 807.2  | 830.5  | 872.1  | 907.0  | 908.7  | 953.6  | 988.6  |
| 12.5° | 743.9  | 740.6  | 757.3  | 763.9  | 783.9  | 807.2  | 840.5  | 883.7  | 885.4  | 933.7  | 981.9  |
| 15°   | 722.3  | 725.6  | 734.0  | 750.6  | 768.9  | 787.2  | 818.8  | 858.8  | 867.1  | 923.7  | 978.6  |
| 17.5° | 724.0  | 725.6  | 725.6  | 737.3  | 752.3  | 773.9  | 803.9  | 850.5  | 855.4  | 910.4  | 973.6  |
| 20°   | 734.0  | 727.3  | 732.3  | 737.3  | 747.3  | 767.2  | 792.2  | 832.1  | 837.1  | 908.7  | 985.3  |
| 22.5° | 755.6  | 750.6  | 748.9  | 747.3  | 745.6  | 757.3  | 788.9  | 822.2  | 827.2  | 900.4  | 990.3  |
| 25°   | 790.5  | 788.9  | 777.2  | 765.6  | 757.3  | 757.3  | 782.2  | 830.5  | 828.8  | 900.4  | 993.6  |
| 27.5° | 832.1  | 832.1  | 830.5  | 808.8  | 783.9  | 770.6  | 787.2  | 827.2  | 825.5  | 900.4  | 1001.9 |
| 30°   | 888.7  | 888.7  | 883.7  | 863.8  | 818.8  | 780.6  | 790.5  | 823.8  | 828.8  | 893.7  | 995.2  |
| 32.5° | 950.3  | 948.6  | 953.6  | 935.3  | 888.7  | 827.2  | 810.5  | 830.5  | 835.5  | 900.4  | 996.9  |
| 35°   | 995.2  | 1005.2 | 1021.9 | 1005.2 | 958.6  | 875.4  | 838.8  | 843.8  | 847.1  | 902.0  | 1003.6 |
| 37.5° | 1046.8 | 1058.5 | 1081.8 | 1095.1 | 1045.2 | 948.6  | 883.7  | 865.4  | 865.4  | 923.7  | 1005.2 |
| 40°   | 1121.7 | 1110.1 | 1150.0 | 1173.3 | 1153.4 | 1038.5 | 953.6  | 905.4  | 907.0  | 952.0  | 1026.9 |
| 42.5° | 1176.7 | 1188.3 | 1229.9 | 1271.5 | 1246.6 | 1148.4 | 1030.2 | 970.3  | 970.3  | 993.6  | 1060.2 |
| 45°   | 1238.2 | 1251.5 | 1309.8 | 1359.7 | 1378.0 | 1279.8 | 1135.0 | 1063.5 | 1060.2 | 1075.1 | 1120.1 |
| 47.5° | 1306.5 | 1324.8 | 1391.3 | 1449.6 | 1497.9 | 1416.3 | 1269.9 | 1176.7 | 1175.0 | 1186.6 | 1219.9 |
| 50°   | 1384.7 | 1391.3 | 1446.3 | 1552.8 | 1649.3 | 1597.7 | 1434.6 | 1336.4 | 1328.1 | 1333.1 | 1378.0 |
| 52.5° | 1408.0 | 1403.0 | 1466.2 | 1581.1 | 1757.5 | 1819.1 | 1659.3 | 1517.8 | 1514.5 | 1502.9 | 1561.1 |
| 55°   | 1323.1 | 1339.8 | 1401.3 | 1547.8 | 1845.7 | 2080.4 | 1905.6 | 1765.8 | 1735.9 | 1704.2 | 1774.1 |
| 57.5° | 1153.4 | 1155.0 | 1224.9 | 1398.0 | 1777.5 | 2296.7 | 2323.3 | 2008.8 | 2010.5 | 1925.6 | 2005.5 |
| 60°   | 897.1  | 892.1  | 947.0  | 1103.4 | 1582.7 | 2363.3 | 2779.4 | 2396.6 | 2379.9 | 2146.9 | 2220.2 |
| 62.5° | 647.4  | 637.4  | 649.1  | 740.6  | 1183.3 | 2261.8 | 3227.1 | 2831.0 | 2761.1 | 2373.3 | 2429.9 |
| 65°   | 532.6  | 537.6  | 542.6  | 547.6  | 664.1  | 1865.7 | 3365.2 | 3539.9 | 3446.7 | 2637.9 | 2661.2 |
| 67.5° | 441.0  | 444.4  | 466.0  | 496.0  | 492.6  | 1101.8 | 3205.4 | 4195.7 | 4160.7 | 2965.8 | 2860.9 |
| 70°   | 374.5  | 372.8  | 397.8  | 452.7  | 461.0  | 572.5  | 2538.0 | 4330.5 | 4405.4 | 3318.6 | 3087.3 |
| 72.5° | 299.6  | 302.9  | 324.5  | 397.8  | 452.7  | 482.6  | 1461.2 | 4040.9 | 4039.2 | 3589.9 | 2965.8 |
| 75°   | 214.7  | 214.7  | 244.7  | 329.5  | 437.7  | 477.7  | 808.8  | 3280.3 | 3341.9 | 3373.5 | 2573.0 |
| 77.5° | 141.5  | 148.1  | 171.4  | 246.3  | 411.1  | 467.7  | 512.6  | 2384.9 | 2461.5 | 2523.1 | 1968.9 |
| 80°   | 96.5   | 99.9   | 114.8  | 171.4  | 347.8  | 471.0  | 419.4  | 1604.4 | 1634.3 | 1393.0 | 798.9  |
| 82.5° | 58.3   | 59.9   | 76.6   | 119.8  | 249.6  | 447.7  | 394.4  | 885.4  | 867.1  | 421.1  | 229.7  |
| 85°   | 31.6   | 33.3   | 48.3   | 79.9   | 164.8  | 391.1  | 387.8  | 434.4  | 404.4  | 154.8  | 96.5   |
| 87.5° | 11.7   | 11.7   | 21.6   | 39.9   | 94.9   | 268.0  | 337.9  | 258.0  | 241.3  | 78.2   | 44.9   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 988.6  | 988.6  | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 |
| 2.5°  | 990.3  | 990.3  | 990.3 | 990.3 | 988.6 | 981.9 | 986.9 | 985.3 | 975.3 | 976.9 | 970.3 |
| 5°    | 986.9  | 995.2  | 990.3 | 983.6 | 975.3 | 955.3 | 948.6 | 943.7 | 930.3 | 925.3 | 930.3 |
| 7.5°  | 995.2  | 988.6  | 985.3 | 973.6 | 940.3 | 922.0 | 898.7 | 870.4 | 850.5 | 845.5 | 850.5 |
| 10°   | 993.6  | 993.6  | 978.6 | 945.3 | 913.7 | 860.4 | 830.5 | 780.6 | 752.3 | 743.9 | 745.6 |
| 12.5° | 986.9  | 991.9  | 968.6 | 915.4 | 855.4 | 790.5 | 735.6 | 682.4 | 632.4 | 612.5 | 609.1 |
| 15°   | 993.6  | 988.6  | 947.0 | 878.7 | 795.5 | 705.7 | 625.8 | 547.6 | 501.0 | 471.0 | 464.3 |
| 17.5° | 983.6  | 978.6  | 918.7 | 828.8 | 717.3 | 602.5 | 502.6 | 417.7 | 371.1 | 359.5 | 359.5 |
| 20°   | 995.2  | 963.6  | 885.4 | 768.9 | 635.8 | 489.3 | 376.1 | 312.9 | 301.2 | 301.2 | 304.6 |
| 22.5° | 993.6  | 960.3  | 857.1 | 710.7 | 537.6 | 369.5 | 279.6 | 261.3 | 263.0 | 276.3 | 274.6 |
| 25°   | 983.6  | 953.6  | 817.2 | 645.7 | 434.4 | 277.9 | 231.3 | 226.3 | 238.0 | 253.0 | 251.3 |
| 27.5° | 981.9  | 935.3  | 780.6 | 569.2 | 331.2 | 219.7 | 201.4 | 201.4 | 213.0 | 226.3 | 224.7 |
| 30°   | 971.9  | 920.4  | 735.6 | 482.6 | 249.6 | 191.4 | 184.7 | 184.7 | 189.7 | 196.4 | 196.4 |
| 32.5° | 970.3  | 900.4  | 685.7 | 392.8 | 199.7 | 173.1 | 169.8 | 171.4 | 171.4 | 174.8 | 173.1 |
| 35°   | 957.0  | 873.8  | 634.1 | 304.6 | 173.1 | 163.1 | 159.8 | 158.1 | 158.1 | 156.4 | 156.4 |
| 37.5° | 952.0  | 857.1  | 580.8 | 236.3 | 161.4 | 154.8 | 151.5 | 146.5 | 144.8 | 144.8 | 143.1 |
| 40°   | 957.0  | 840.5  | 529.2 | 191.4 | 151.5 | 148.1 | 143.1 | 136.5 | 134.8 | 134.8 | 134.8 |
| 42.5° | 975.3  | 838.8  | 476.0 | 166.4 | 146.5 | 141.5 | 134.8 | 128.2 | 126.5 | 128.2 | 126.5 |
| 45°   | 1016.9 | 852.1  | 424.4 | 154.8 | 139.8 | 134.8 | 126.5 | 121.5 | 119.8 | 121.5 | 121.5 |
| 47.5° | 1085.1 | 888.7  | 377.8 | 148.1 | 134.8 | 128.2 | 119.8 | 114.8 | 114.8 | 114.8 | 114.8 |
| 50°   | 1198.3 | 958.6  | 332.9 | 143.1 | 131.5 | 123.2 | 114.8 | 108.2 | 106.5 | 106.5 | 108.2 |
| 52.5° | 1368.0 | 1078.5 | 296.2 | 139.8 | 126.5 | 116.5 | 108.2 | 103.2 | 99.9  | 98.2  | 99.9  |
| 55°   | 1572.8 | 1253.2 | 284.6 | 136.5 | 119.8 | 111.5 | 103.2 | 96.5  | 93.2  | 93.2  | 91.5  |
| 57.5° | 1792.4 | 1446.3 | 304.6 | 133.1 | 114.8 | 104.9 | 96.5  | 89.9  | 86.5  | 84.9  | 84.9  |
| 60°   | 2030.4 | 1674.3 | 377.8 | 131.5 | 109.8 | 98.2  | 89.9  | 84.9  | 79.9  | 78.2  | 78.2  |
| 62.5° | 2246.8 | 1880.6 | 509.3 | 129.8 | 106.5 | 91.5  | 83.2  | 76.6  | 73.2  | 71.6  | 71.6  |
| 65°   | 2493.1 | 2110.3 | 637.4 | 136.5 | 104.9 | 86.5  | 76.6  | 69.9  | 66.6  | 64.9  | 64.9  |
| 67.5° | 2707.8 | 2310.0 | 712.3 | 153.1 | 109.8 | 79.9  | 68.2  | 63.2  | 61.6  | 59.9  | 59.9  |
| 70°   | 2864.2 | 2371.6 | 477.7 | 168.1 | 118.2 | 74.9  | 61.6  | 58.3  | 54.9  | 54.9  | 54.9  |
| 72.5° | 2654.5 | 2117.0 | 282.9 | 158.1 | 111.5 | 69.9  | 54.9  | 51.6  | 49.9  | 49.9  | 48.3  |
| 75°   | 2270.1 | 1802.4 | 218.0 | 128.2 | 89.9  | 59.9  | 48.3  | 44.9  | 43.3  | 43.3  | 41.6  |
| 77.5° | 1675.9 | 1291.5 | 161.4 | 101.5 | 69.9  | 48.3  | 41.6  | 39.9  | 38.3  | 36.6  | 36.6  |
| 80°   | 655.7  | 565.9  | 109.8 | 74.9  | 51.6  | 38.3  | 35.0  | 33.3  | 31.6  | 30.0  | 30.0  |
| 82.5° | 203.0  | 171.4  | 63.2  | 49.9  | 36.6  | 30.0  | 28.3  | 26.6  | 25.0  | 23.3  | 23.3  |
| 85°   | 88.2   | 84.9   | 41.6  | 31.6  | 25.0  | 20.0  | 20.0  | 18.3  | 16.6  | 15.0  | 15.0  |
| 87.5° | 43.3   | 41.6   | 23.3  | 15.0  | 13.3  | 10.0  | 10.0  | 8.3   | 6.7   | 6.7   | 6.7   |
| 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)