

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: P180081

Luminaire Tested: **ICM-F03-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180081  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-F03-LED-E1-5WQ-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6190.6 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

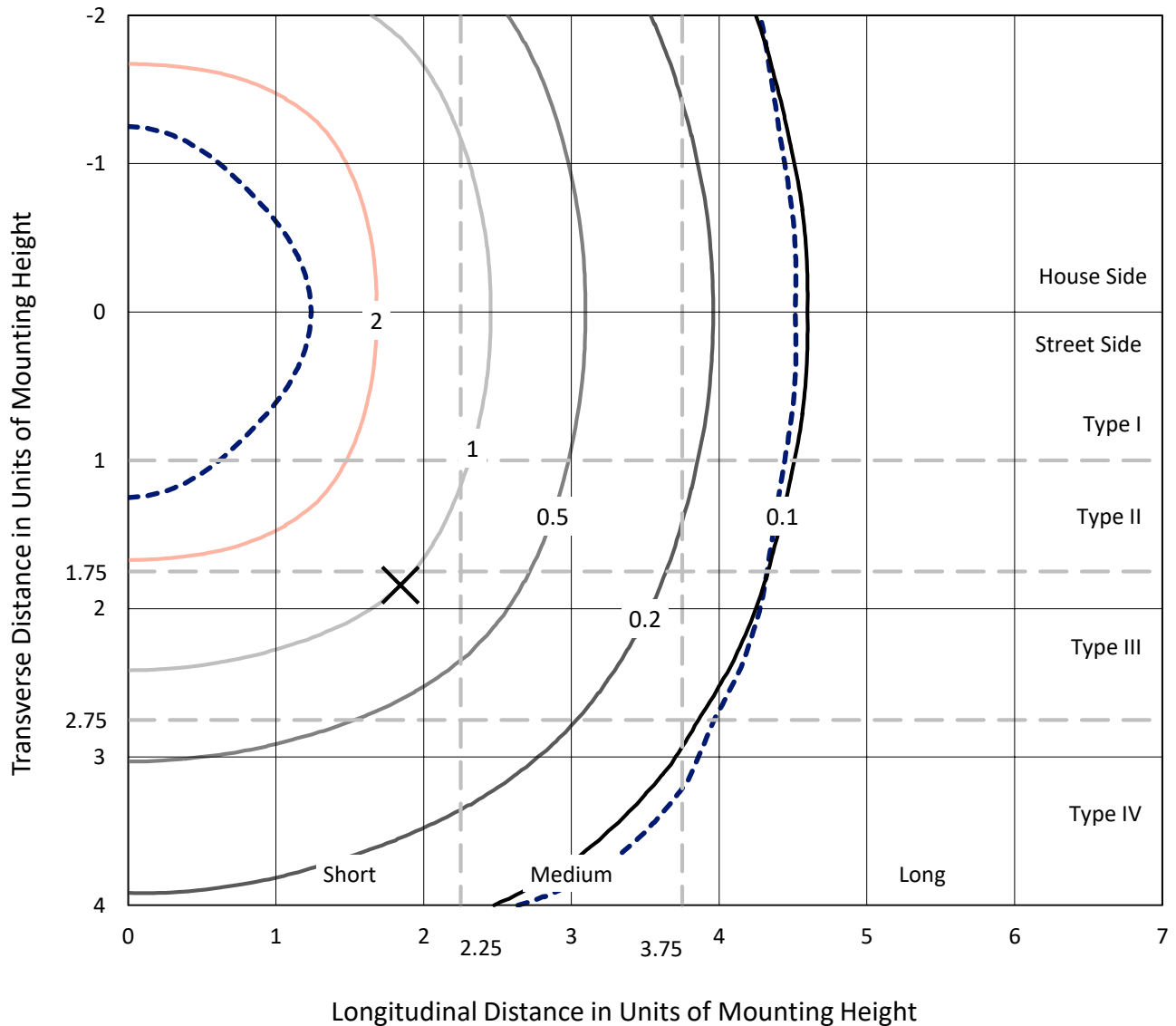
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

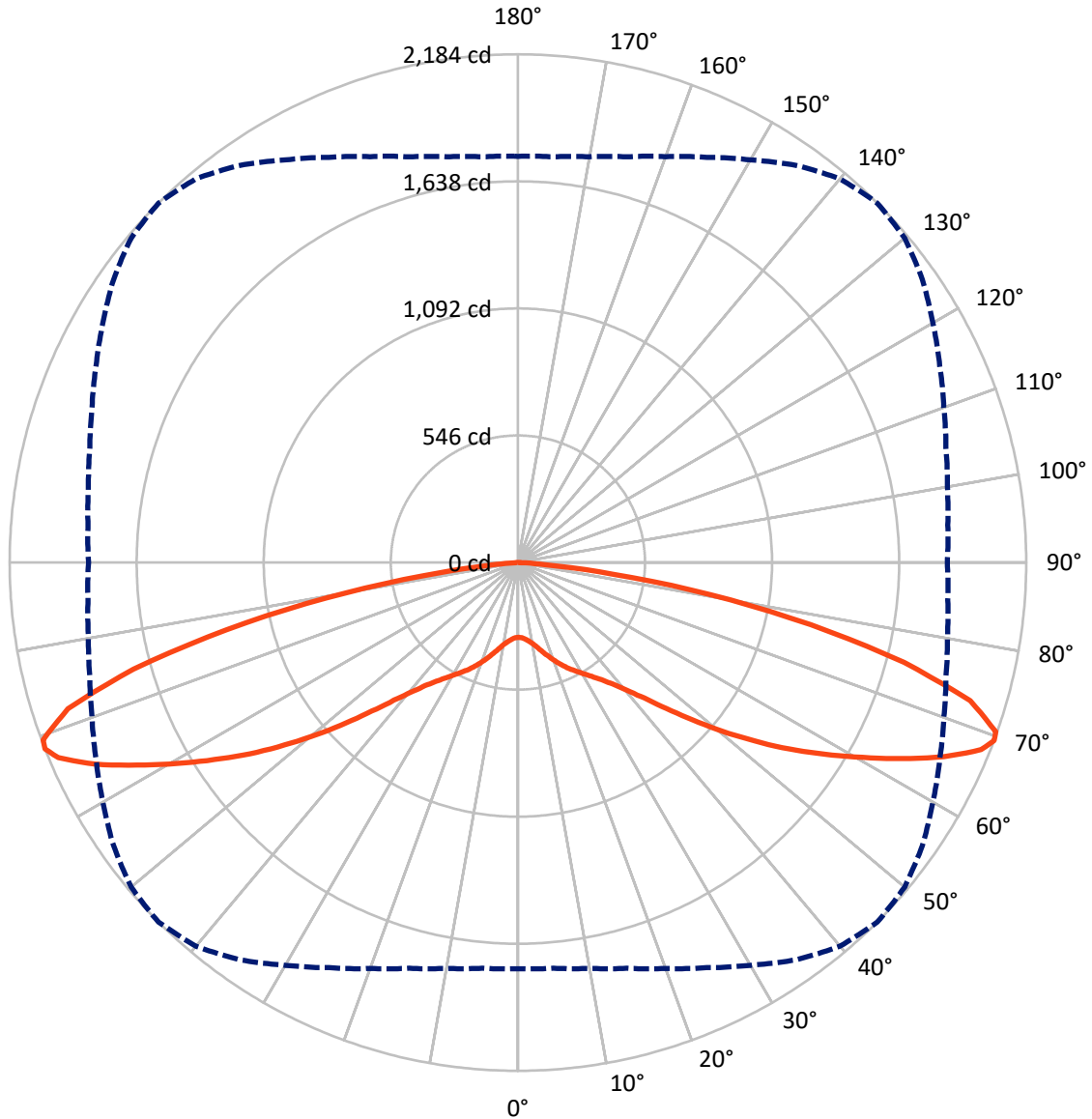
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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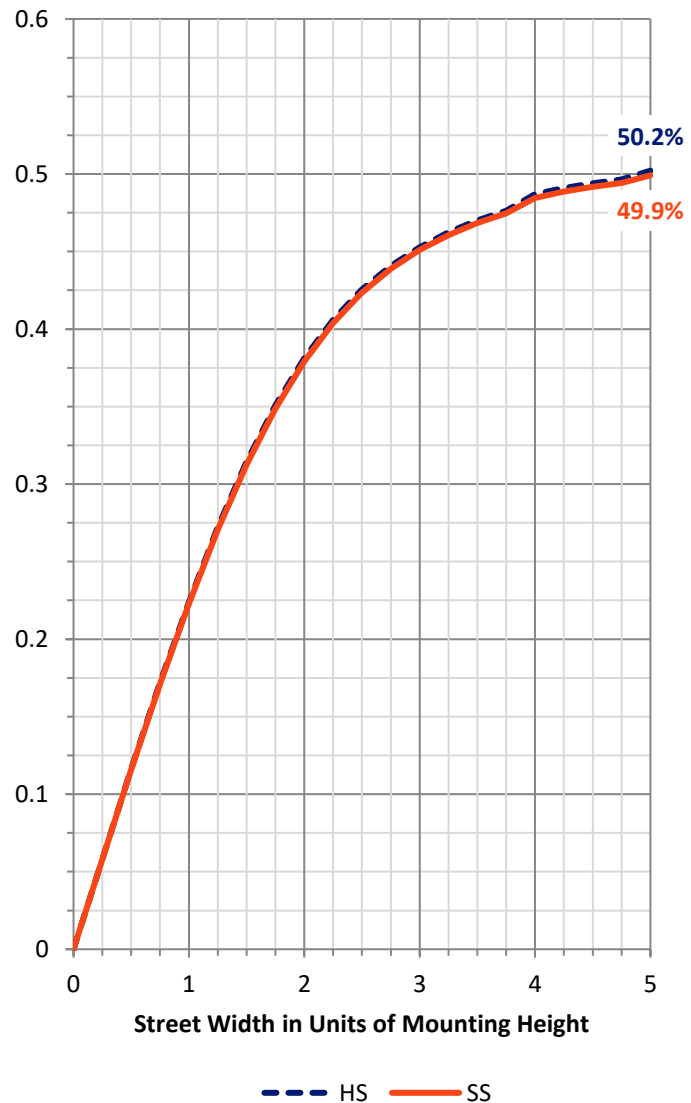
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3095.3   | 0.0    | 3095.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3095.3   | 0.0    | 3095.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6190.6   | 0.0    | 6190.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 32.3   | 0.5       |
| 10°-20°   | 114.0  | 1.8       |
| 20°-30°   | 230.8  | 3.7       |
| 30°-40°   | 387.0  | 6.3       |
| 40°-50°   | 682.6  | 11.0      |
| 50°-60°   | 1203.7 | 19.4      |
| 60°-70°   | 1837.7 | 29.7      |
| 70°-80°   | 1535.6 | 24.8      |
| 80°-90°   | 166.9  | 2.7       |
| 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°    | 6190.6 | 100.0     |
| 0°-180°   | 6190.6 | 100.0     |

**Coefficient of Utilization**



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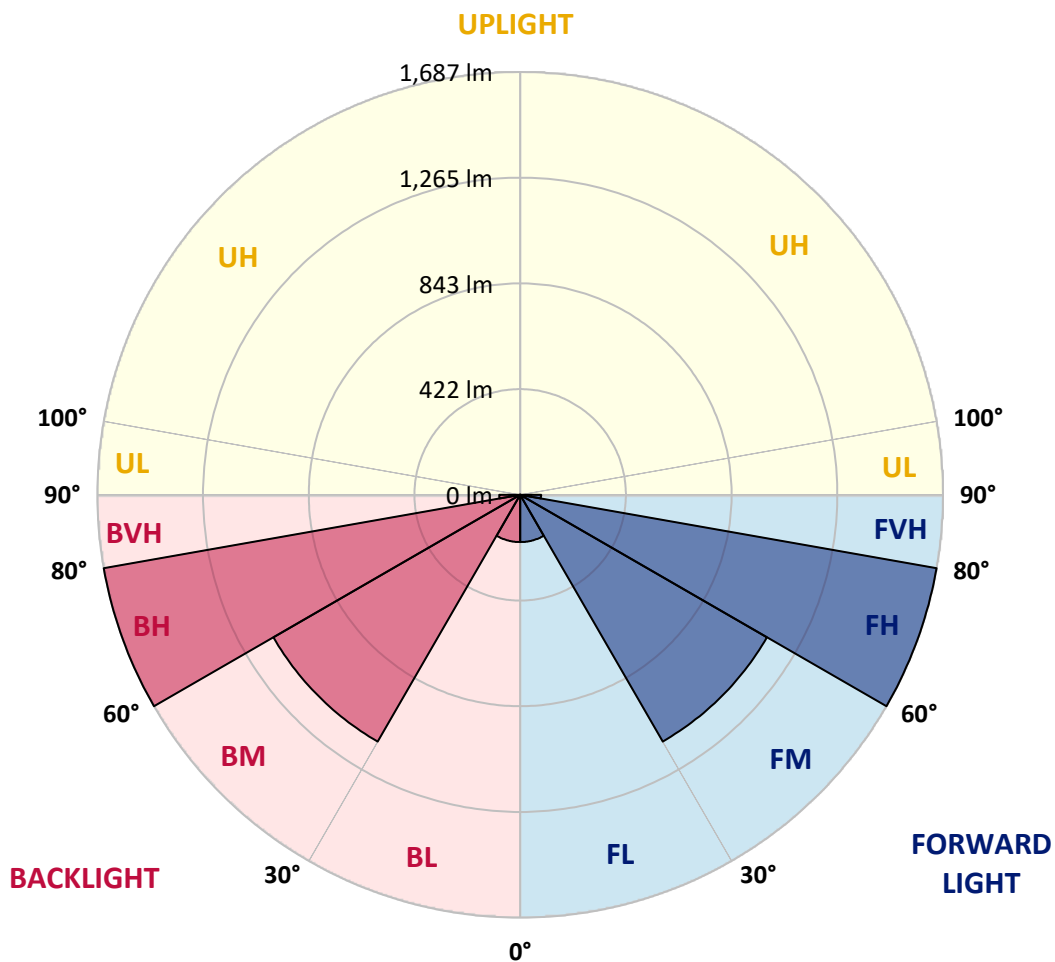
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 188.5  | 3.0       |                         |      |         |
| FM (30°-60°)   | 1136.6 | 18.4      |                         |      |         |
| FH (60°-80°)   | 1686.7 | 27.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 83.4   | 1.3       |                         |      | G1/100  |
| BL (0°-30°)    | 188.5  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 1136.6 | 18.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 1686.7 | 27.2      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 83.4   | 1.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 321.5  | 321.5  | 321.5  | 321.5  | 321.5  | 321.5  | 321.5  | 321.5  | 321.5  | 321.5  | 321.5  |
| 2.5°  | 324.1  | 324.7  | 324.1  | 324.1  | 324.1  | 324.1  | 324.1  | 323.4  | 323.4  | 323.4  | 324.1  |
| 5°    | 330.5  | 331.2  | 330.5  | 331.2  | 331.2  | 331.2  | 331.2  | 330.5  | 330.5  | 330.5  | 330.5  |
| 7.5°  | 340.9  | 340.9  | 340.9  | 341.6  | 340.9  | 340.9  | 341.6  | 340.9  | 340.9  | 340.9  | 340.9  |
| 10°   | 355.8  | 355.2  | 355.2  | 355.2  | 355.2  | 355.2  | 355.8  | 355.8  | 355.8  | 355.2  | 355.2  |
| 12.5° | 374.0  | 373.3  | 374.0  | 374.0  | 374.6  | 374.6  | 374.6  | 374.6  | 374.6  | 374.6  | 374.0  |
| 15°   | 396.0  | 396.0  | 396.0  | 396.7  | 398.0  | 398.0  | 397.3  | 398.0  | 398.0  | 398.0  | 398.0  |
| 17.5° | 420.7  | 422.0  | 420.7  | 421.3  | 422.0  | 421.3  | 422.6  | 423.3  | 423.9  | 423.3  | 421.3  |
| 20°   | 446.0  | 446.6  | 446.6  | 446.6  | 446.6  | 447.8  | 448.5  | 448.5  | 450.4  | 449.8  | 449.1  |
| 22.5° | 469.9  | 471.2  | 471.2  | 471.8  | 471.8  | 473.8  | 473.8  | 473.8  | 475.1  | 476.4  | 475.1  |
| 25°   | 495.2  | 494.5  | 494.5  | 495.8  | 496.5  | 499.1  | 499.1  | 500.4  | 502.3  | 503.0  | 501.7  |
| 27.5° | 517.9  | 517.2  | 517.2  | 519.2  | 519.8  | 523.1  | 523.1  | 525.7  | 526.9  | 527.5  | 526.2  |
| 30°   | 541.9  | 541.9  | 541.2  | 543.2  | 545.1  | 547.6  | 548.9  | 551.5  | 553.5  | 554.1  | 552.8  |
| 32.5° | 570.3  | 569.0  | 569.7  | 571.0  | 572.3  | 574.9  | 576.8  | 580.1  | 582.7  | 583.4  | 582.1  |
| 35°   | 602.8  | 600.8  | 601.5  | 602.8  | 604.7  | 608.6  | 611.8  | 613.8  | 617.7  | 619.0  | 616.4  |
| 37.5° | 638.4  | 639.1  | 638.4  | 641.7  | 644.9  | 649.4  | 653.3  | 655.9  | 659.8  | 661.8  | 659.8  |
| 40°   | 688.9  | 687.0  | 688.9  | 692.2  | 697.4  | 703.3  | 711.0  | 712.9  | 716.8  | 720.7  | 716.2  |
| 42.5° | 754.4  | 753.1  | 757.7  | 760.3  | 766.1  | 772.6  | 782.3  | 787.4  | 793.3  | 795.9  | 792.0  |
| 45°   | 840.0  | 840.0  | 845.1  | 845.8  | 854.9  | 863.4  | 876.9  | 883.4  | 894.4  | 894.4  | 894.4  |
| 47.5° | 934.6  | 938.5  | 941.8  | 948.2  | 954.7  | 970.2  | 983.8  | 998.1  | 1008.5 | 1009.8 | 1007.8 |
| 50°   | 1032.5 | 1036.4 | 1046.1 | 1055.2 | 1069.4 | 1088.8 | 1103.7 | 1122.5 | 1131.6 | 1139.4 | 1136.8 |
| 52.5° | 1140.8 | 1141.4 | 1153.0 | 1164.7 | 1185.4 | 1206.8 | 1230.8 | 1250.2 | 1266.4 | 1273.6 | 1267.7 |
| 55°   | 1259.4 | 1260.7 | 1271.0 | 1283.3 | 1306.6 | 1331.3 | 1361.0 | 1381.1 | 1401.9 | 1414.9 | 1405.1 |
| 57.5° | 1387.6 | 1388.3 | 1398.7 | 1413.6 | 1441.4 | 1466.1 | 1494.6 | 1523.1 | 1542.5 | 1554.2 | 1547.7 |
| 60°   | 1529.6 | 1532.8 | 1540.6 | 1559.4 | 1586.0 | 1611.9 | 1640.4 | 1665.7 | 1688.4 | 1700.7 | 1694.2 |
| 62.5° | 1681.2 | 1684.5 | 1695.5 | 1710.4 | 1733.8 | 1762.2 | 1789.5 | 1821.9 | 1840.7 | 1854.3 | 1844.6 |
| 65°   | 1783.0 | 1788.8 | 1806.3 | 1826.4 | 1860.8 | 1897.7 | 1929.5 | 1973.6 | 1996.2 | 2012.5 | 2003.4 |
| 67.5° | 1789.5 | 1792.8 | 1814.2 | 1844.6 | 1890.6 | 1946.3 | 2011.2 | 2079.8 | 2124.6 | 2146.0 | 2130.4 |
| 69°   | 1745.4 | 1750.0 | 1770.7 | 1805.0 | 1856.3 | 1921.0 | 1998.2 | 2083.7 | 2152.5 | 2184.2 | 2169.3 |
| 70°   | 1695.5 | 1705.2 | 1727.9 | 1765.5 | 1815.5 | 1883.5 | 1963.2 | 2054.6 | 2134.9 | 2178.3 | 2167.4 |
| 72.5° | 1590.5 | 1593.1 | 1608.0 | 1637.9 | 1676.1 | 1732.5 | 1807.6 | 1893.9 | 1970.3 | 2032.6 | 2041.6 |
| 75°   | 1411.6 | 1420.0 | 1431.1 | 1451.2 | 1470.6 | 1511.5 | 1562.0 | 1620.9 | 1665.7 | 1713.7 | 1715.6 |
| 77.5° | 1066.8 | 1092.1 | 1100.6 | 1105.0 | 1113.5 | 1145.9 | 1190.0 | 1241.1 | 1278.1 | 1285.9 | 1284.6 |
| 80°   | 479.0  | 512.7  | 520.5  | 557.4  | 580.1  | 633.9  | 701.3  | 779.7  | 832.2  | 838.1  | 823.8  |
| 82.5° | 94.0   | 100.5  | 117.3  | 146.5  | 199.6  | 231.4  | 275.4  | 330.5  | 381.1  | 410.2  | 392.7  |
| 85°   | 31.1   | 33.0   | 38.2   | 42.1   | 48.7   | 55.1   | 66.8   | 83.0   | 103.1  | 114.0  | 101.8  |
| 87.5° | 12.3   | 12.3   | 14.2   | 15.5   | 16.8   | 16.8   | 16.8   | 15.5   | 14.9   | 12.3   | 11.0   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 321.5  | 321.5  | 321.5  | 321.5  | 321.5  | 321.5  | 321.5  | 321.5  |
| 2.5°  | 323.4  | 323.4  | 323.4  | 323.4  | 323.4  | 323.4  | 323.4  | 323.4  |
| 5°    | 330.5  | 329.9  | 329.9  | 329.2  | 329.2  | 329.2  | 329.2  | 329.2  |
| 7.5°  | 340.3  | 339.6  | 339.0  | 339.6  | 339.0  | 339.0  | 339.0  | 339.0  |
| 10°   | 355.2  | 353.9  | 353.2  | 352.6  | 352.6  | 352.6  | 351.9  | 351.9  |
| 12.5° | 372.7  | 372.7  | 372.0  | 371.4  | 370.0  | 370.7  | 370.0  | 368.7  |
| 15°   | 396.7  | 395.4  | 394.7  | 394.0  | 392.7  | 392.7  | 392.7  | 392.1  |
| 17.5° | 420.7  | 419.4  | 419.4  | 417.4  | 416.7  | 416.7  | 416.7  | 417.4  |
| 20°   | 447.2  | 445.3  | 444.0  | 442.7  | 441.4  | 442.0  | 440.7  | 442.0  |
| 22.5° | 473.8  | 471.2  | 469.9  | 467.9  | 466.0  | 466.0  | 465.4  | 464.1  |
| 25°   | 499.7  | 496.5  | 495.2  | 493.2  | 490.6  | 490.6  | 489.3  | 488.0  |
| 27.5° | 524.4  | 521.1  | 519.8  | 515.9  | 513.3  | 512.7  | 511.4  | 510.7  |
| 30°   | 551.5  | 547.6  | 545.8  | 541.9  | 538.0  | 537.3  | 535.4  | 535.4  |
| 32.5° | 580.1  | 576.2  | 574.9  | 569.0  | 565.9  | 565.9  | 564.6  | 563.3  |
| 35°   | 615.7  | 609.9  | 608.6  | 602.8  | 598.2  | 598.2  | 596.9  | 597.6  |
| 37.5° | 657.9  | 653.3  | 648.7  | 644.3  | 639.1  | 638.4  | 637.1  | 635.8  |
| 40°   | 714.2  | 709.0  | 703.9  | 697.4  | 692.8  | 691.5  | 689.6  | 688.9  |
| 42.5° | 789.4  | 784.3  | 773.9  | 768.7  | 764.2  | 760.3  | 759.6  | 759.0  |
| 45°   | 885.3  | 878.9  | 871.7  | 862.1  | 856.2  | 847.7  | 846.4  | 843.3  |
| 47.5° | 1000.8 | 988.4  | 976.1  | 967.6  | 958.6  | 948.8  | 946.9  | 941.8  |
| 50°   | 1123.2 | 1113.5 | 1092.8 | 1079.2 | 1064.8 | 1055.2 | 1048.7 | 1046.7 |
| 52.5° | 1254.8 | 1236.7 | 1215.9 | 1197.8 | 1177.0 | 1164.0 | 1152.4 | 1149.1 |
| 55°   | 1392.2 | 1366.2 | 1340.3 | 1319.0 | 1298.2 | 1282.6 | 1271.6 | 1266.4 |
| 57.5° | 1529.6 | 1501.0 | 1472.6 | 1449.2 | 1431.7 | 1411.6 | 1400.6 | 1398.1 |
| 60°   | 1672.8 | 1645.6 | 1616.5 | 1593.1 | 1571.7 | 1554.2 | 1547.7 | 1535.5 |
| 62.5° | 1824.5 | 1796.0 | 1768.8 | 1746.1 | 1718.8 | 1706.5 | 1695.5 | 1688.4 |
| 65°   | 1973.6 | 1940.5 | 1906.2 | 1882.2 | 1855.0 | 1837.4 | 1823.8 | 1814.2 |
| 67.5° | 2088.9 | 2039.0 | 1993.0 | 1952.8 | 1915.9 | 1888.7 | 1871.2 | 1862.1 |
| 69°   | 2121.3 | 2059.1 | 2000.1 | 1947.6 | 1904.2 | 1873.8 | 1854.3 | 1845.2 |
| 70°   | 2117.4 | 2048.8 | 1983.9 | 1926.2 | 1878.9 | 1846.5 | 1827.7 | 1810.9 |
| 72.5° | 1997.5 | 1934.7 | 1862.7 | 1799.8 | 1757.1 | 1726.0 | 1707.2 | 1698.1 |
| 75°   | 1704.6 | 1662.4 | 1610.6 | 1562.0 | 1530.9 | 1512.8 | 1489.4 | 1490.1 |
| 77.5° | 1241.1 | 1242.4 | 1207.4 | 1157.6 | 1122.5 | 1116.1 | 1105.7 | 1095.4 |
| 80°   | 770.0  | 708.4  | 668.2  | 614.4  | 574.9  | 540.6  | 525.7  | 493.2  |
| 82.5° | 355.2  | 277.4  | 215.2  | 162.7  | 125.1  | 97.9   | 85.6   | 70.0   |
| 85°   | 79.1   | 60.3   | 49.9   | 40.2   | 34.3   | 31.7   | 26.0   | 24.0   |
| 87.5° | 11.0   | 9.8    | 9.1    | 8.5    | 7.2    | 5.2    | 3.9    | 3.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)