

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: P401285

Luminaire Tested: **ENC-SA1C-730-U-T4W-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENC-SA1C-730-U-T4W-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3064 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B0 - U0 - G1

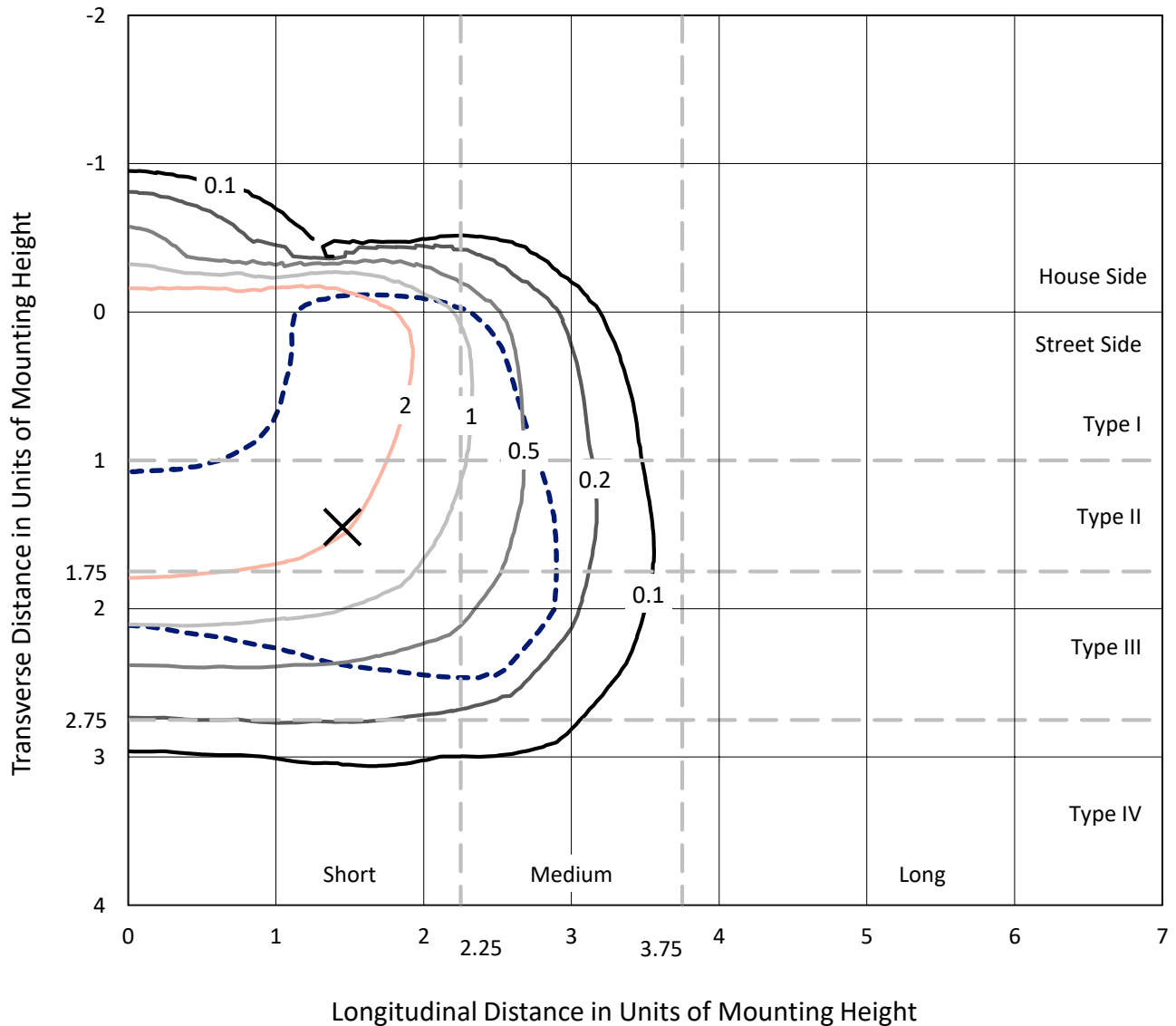
Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

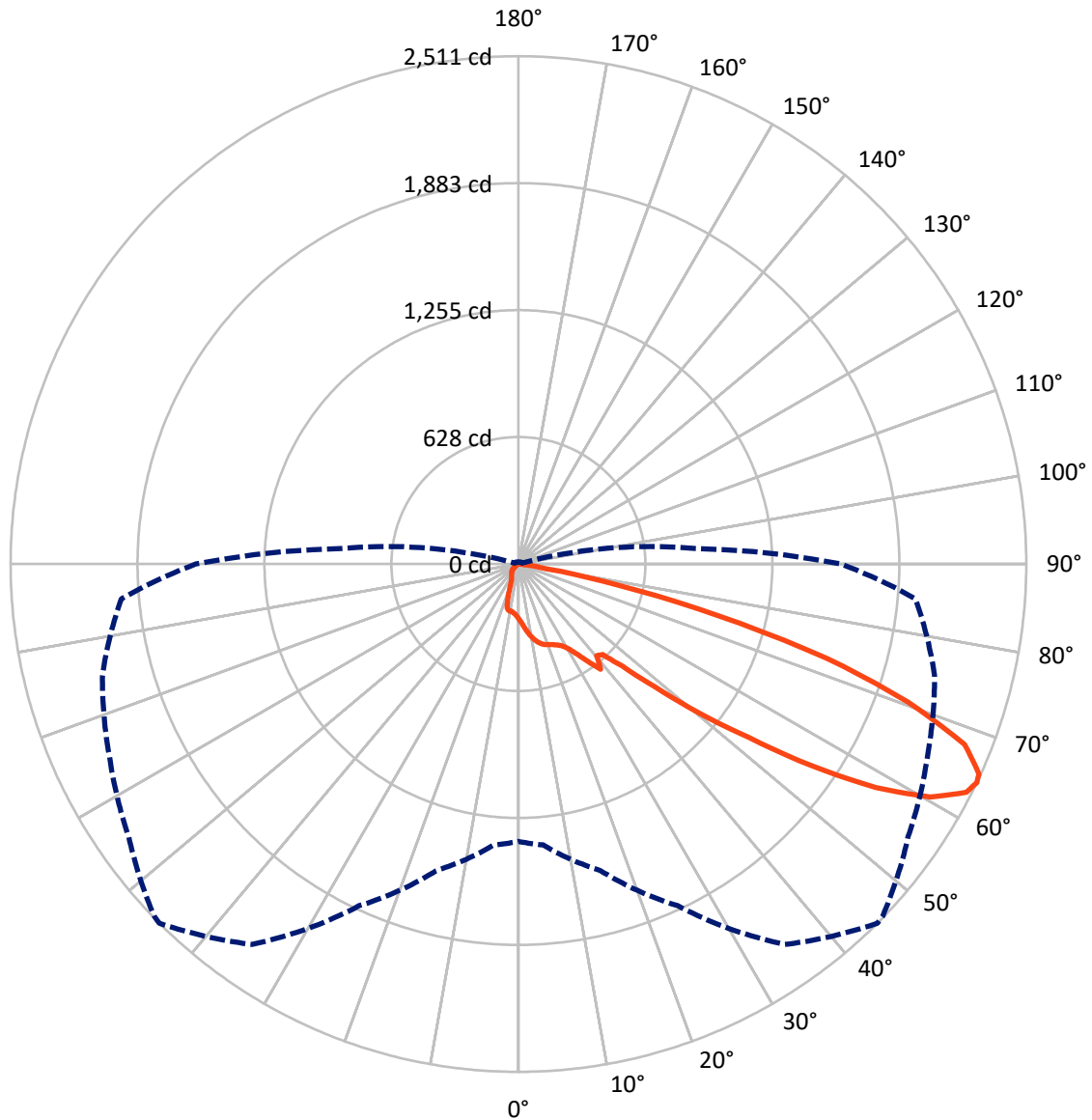
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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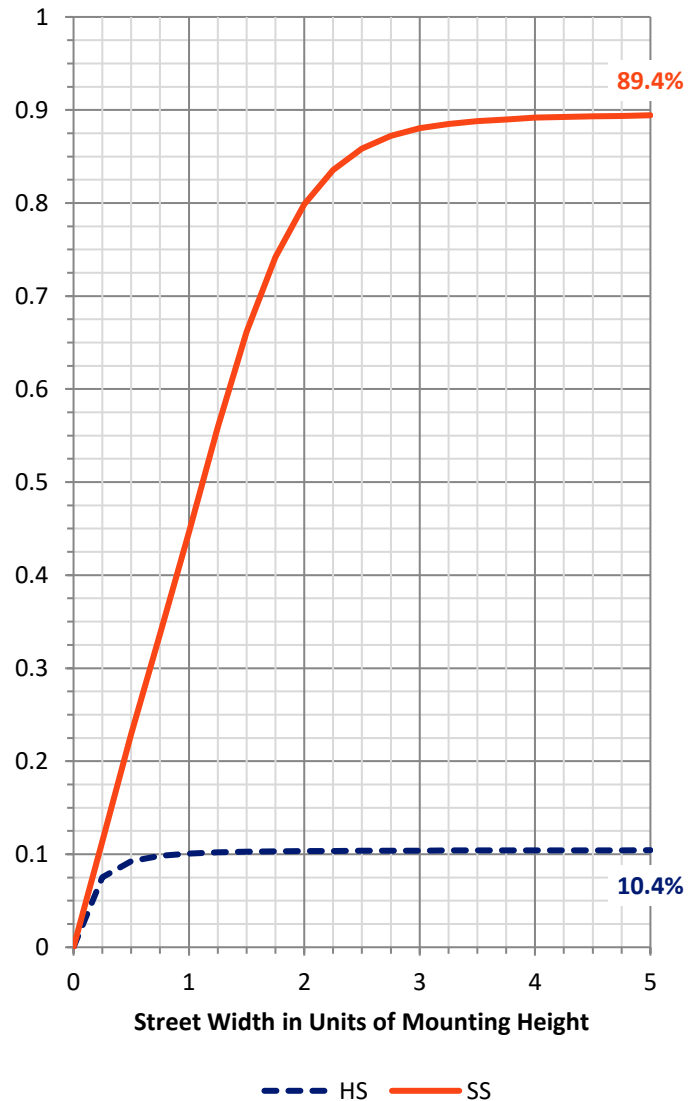
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 323.3    | 0.0    | 323.3  |
|                    | % Fixture | 10.6     | 0.0    | 10.6   |
| <b>Street Side</b> | Lumens    | 2740.7   | 0.0    | 2740.7 |
|                    | % Fixture | 89.4     | 0.0    | 89.4   |
| <b>Total</b>       | Lumens    | 3064.0   | 0.0    | 3064.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 27.5   | 0.9       |
| 10°-20°   | 85.9   | 2.8       |
| 20°-30°   | 139.8  | 4.6       |
| 30°-40°   | 222.1  | 7.2       |
| 40°-50°   | 423.1  | 13.8      |
| 50°-60°   | 871.8  | 28.5      |
| 60°-70°   | 973.7  | 31.8      |
| 70°-80°   | 307.5  | 10.0      |
| 80°-90°   | 12.5   | 0.4       |
| 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°    | 3064.0 | 100.0     |
| 0°-180°   | 3064.0 | 100.0     |



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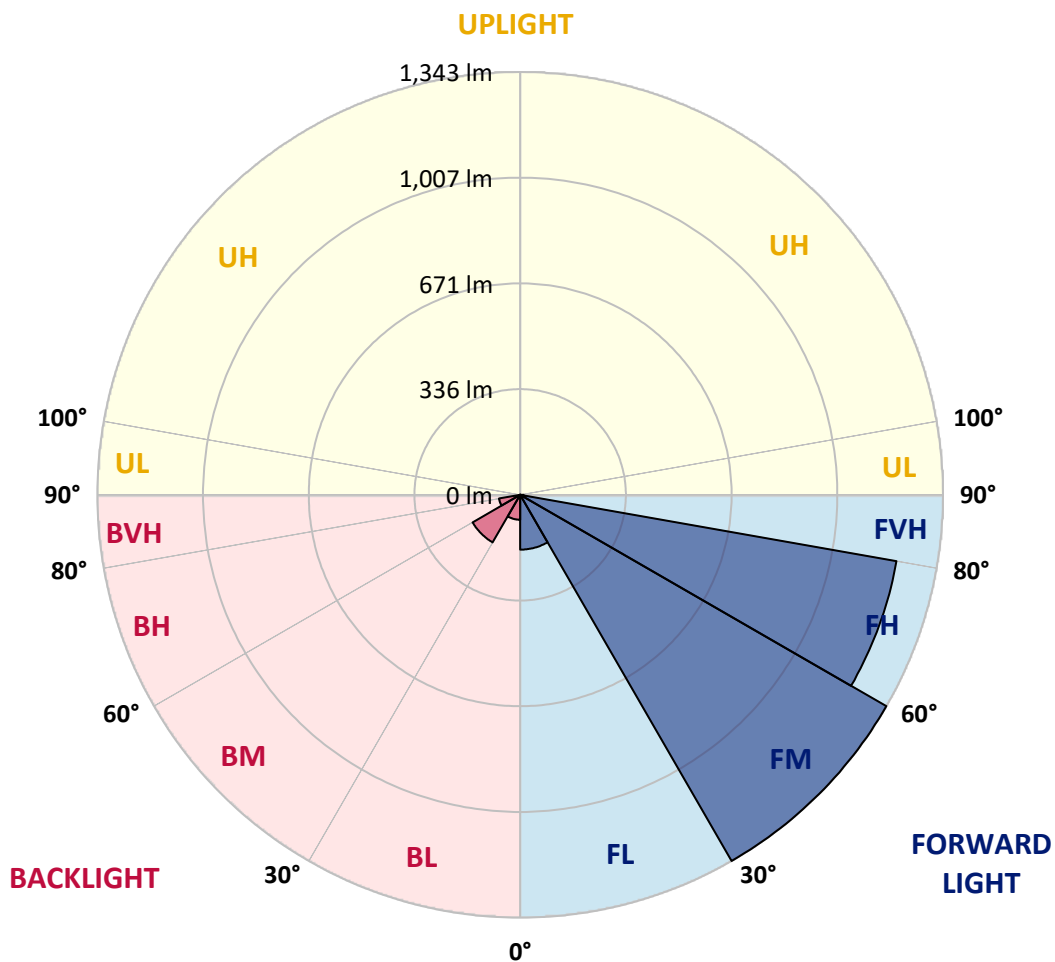
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 174.1  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 1342.5 | 43.8      |                         |      |         |
| FH   | (60°-80°)   | 1213.1 | 39.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 11.0   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 79.2   | 2.6       | B0/110                  |      |         |
| BM   | (30°-60°)   | 174.5  | 5.7       | B0/220                  |      |         |
| BH   | (60°-80°)   | 68.1   | 2.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.5    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 271.6  | 271.6  | 271.6  | 271.6  | 271.6  | 271.6  | 271.6  | 271.6  | 271.6  | 271.6  | 271.6  |
| 2.5°  | 299.6  | 300.8  | 299.0  | 296.7  | 294.4  | 290.3  | 290.9  | 285.6  | 281.5  | 278.6  | 273.9  |
| 5°    | 337.6  | 337.0  | 333.5  | 328.2  | 323.0  | 315.4  | 314.2  | 306.0  | 297.3  | 287.9  | 279.2  |
| 7.5°  | 376.1  | 374.4  | 370.9  | 363.9  | 353.9  | 344.0  | 341.1  | 329.4  | 316.6  | 302.5  | 287.4  |
| 10°   | 407.7  | 406.5  | 402.4  | 394.8  | 383.1  | 368.0  | 368.0  | 351.6  | 334.7  | 317.7  | 299.6  |
| 12.5° | 433.4  | 432.2  | 427.5  | 418.2  | 404.2  | 390.7  | 389.0  | 374.4  | 355.7  | 335.8  | 313.6  |
| 15°   | 449.1  | 448.0  | 442.7  | 432.2  | 419.9  | 407.7  | 405.9  | 391.9  | 375.0  | 352.2  | 326.5  |
| 17.5° | 453.2  | 452.1  | 448.0  | 438.6  | 429.3  | 418.8  | 416.4  | 404.2  | 389.6  | 366.2  | 339.9  |
| 20°   | 451.5  | 449.1  | 446.8  | 439.2  | 431.6  | 424.6  | 423.4  | 414.7  | 401.8  | 382.0  | 353.9  |
| 22.5° | 446.8  | 444.5  | 442.7  | 437.5  | 433.4  | 432.8  | 431.6  | 426.4  | 418.2  | 401.2  | 375.0  |
| 25°   | 445.0  | 443.3  | 441.5  | 438.0  | 437.5  | 443.3  | 442.7  | 442.1  | 438.6  | 424.0  | 396.6  |
| 27.5° | 455.0  | 454.4  | 450.3  | 444.5  | 447.4  | 457.3  | 457.9  | 460.8  | 458.5  | 449.1  | 428.1  |
| 30°   | 490.0  | 487.1  | 477.8  | 464.9  | 472.5  | 485.3  | 487.7  | 497.0  | 497.6  | 498.8  | 470.2  |
| 32.5° | 537.3  | 532.7  | 516.9  | 500.5  | 505.2  | 529.2  | 529.7  | 544.3  | 575.3  | 556.0  | 492.9  |
| 35°   | 570.0  | 564.2  | 540.2  | 531.5  | 554.9  | 592.8  | 598.1  | 627.9  | 630.2  | 560.1  | 491.2  |
| 37.5° | 661.7  | 653.0  | 609.2  | 556.0  | 578.8  | 660.6  | 666.4  | 661.1  | 612.1  | 554.3  | 516.3  |
| 40°   | 784.4  | 776.2  | 737.1  | 647.7  | 583.5  | 595.7  | 598.7  | 614.4  | 623.8  | 595.1  | 596.9  |
| 42.5° | 943.8  | 933.3  | 893.0  | 783.8  | 656.5  | 611.5  | 617.3  | 649.5  | 710.8  | 724.2  | 793.1  |
| 45°   | 1106.8 | 1100.9 | 1060.1 | 942.1  | 789.6  | 719.0  | 721.9  | 761.0  | 870.8  | 955.5  | 1013.9 |
| 47.5° | 1266.2 | 1267.4 | 1232.4 | 1132.5 | 983.5  | 905.3  | 901.8  | 952.6  | 1091.6 | 1151.8 | 1211.3 |
| 50°   | 1491.1 | 1489.9 | 1427.4 | 1365.5 | 1249.3 | 1156.4 | 1150.6 | 1179.2 | 1313.0 | 1335.1 | 1427.4 |
| 52.5° | 1746.9 | 1745.7 | 1651.7 | 1622.5 | 1573.4 | 1423.9 | 1439.7 | 1415.2 | 1511.5 | 1551.2 | 1682.1 |
| 55°   | 1868.4 | 1857.9 | 1818.2 | 1855.0 | 1913.4 | 1763.3 | 1760.9 | 1667.5 | 1742.8 | 1776.7 | 1898.8 |
| 57.5° | 1856.1 | 1860.2 | 1898.2 | 2020.2 | 2211.8 | 2086.2 | 2089.7 | 1916.3 | 1960.1 | 1981.1 | 2070.5 |
| 60°   | 1786.6 | 1789.5 | 1877.7 | 2081.0 | 2360.7 | 2339.1 | 2326.9 | 2148.7 | 2120.1 | 2111.4 | 2154.0 |
| 62.5° | 1588.0 | 1589.2 | 1732.3 | 1993.4 | 2359.6 | 2485.1 | 2473.5 | 2312.3 | 2222.9 | 2166.8 | 2089.2 |
| 64°   | 1371.9 | 1394.1 | 1569.3 | 1864.3 | 2295.9 | 2510.8 | 2504.4 | 2352.0 | 2232.2 | 2129.5 | 1970.0 |
| 65°   | 1194.4 | 1227.7 | 1439.7 | 1749.8 | 2224.1 | 2502.1 | 2494.5 | 2345.0 | 2219.4 | 2059.4 | 1846.8 |
| 67.5° | 814.8  | 832.3  | 1022.7 | 1377.2 | 1950.2 | 2378.8 | 2376.5 | 2255.0 | 2079.8 | 1779.0 | 1449.0 |
| 70°   | 480.7  | 493.5  | 634.3  | 961.4  | 1498.7 | 2043.6 | 2074.6 | 2030.8 | 1726.5 | 1277.9 | 922.8  |
| 72.5° | 149.5  | 157.1  | 279.8  | 533.8  | 982.4  | 1592.1 | 1632.4 | 1600.9 | 1256.9 | 798.4  | 511.6  |
| 75°   | 56.1   | 58.4   | 92.3   | 231.9  | 488.9  | 1018.0 | 1030.3 | 1067.1 | 765.7  | 421.7  | 223.7  |
| 77.5° | 31.0   | 31.5   | 45.6   | 87.0   | 214.9  | 499.9  | 511.6  | 507.0  | 407.1  | 199.2  | 71.3   |
| 80°   | 15.2   | 15.8   | 22.2   | 38.5   | 83.5   | 141.3  | 167.6  | 221.4  | 143.7  | 98.1   | 22.8   |
| 82.5° | 5.3    | 4.7    | 9.9    | 17.5   | 28.0   | 38.0   | 42.6   | 61.3   | 60.2   | 53.7   | 8.2    |
| 85°   | 0.0    | 0.0    | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    | 7.6    | 15.2   | 17.5   | 2.3    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    |
| 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°    | 271.6  | 271.6  | 271.6 | 271.6 | 271.6 | 271.6 | 271.6 | 271.6 | 271.6 | 271.6 | 271.6 |
| 2.5°  | 271.6  | 270.4  | 266.3 | 262.2 | 259.3 | 255.8 | 255.2 | 252.9 | 252.3 | 252.3 | 252.3 |
| 5°    | 274.5  | 271.0  | 263.4 | 257.0 | 251.1 | 245.9 | 243.5 | 241.2 | 239.5 | 238.9 | 238.9 |
| 7.5°  | 280.9  | 275.7  | 263.4 | 254.1 | 245.3 | 238.9 | 235.4 | 233.0 | 231.3 | 231.3 | 231.3 |
| 10°   | 290.3  | 282.1  | 266.9 | 254.1 | 243.5 | 235.4 | 230.1 | 226.6 | 224.3 | 223.7 | 224.3 |
| 12.5° | 302.0  | 291.4  | 272.8 | 257.0 | 244.7 | 234.2 | 223.1 | 202.7 | 189.2 | 181.6 | 180.5 |
| 15°   | 313.1  | 300.8  | 279.2 | 261.1 | 246.5 | 223.1 | 182.8 | 151.3 | 130.2 | 123.8 | 122.7 |
| 17.5° | 325.3  | 312.5  | 287.9 | 266.9 | 240.0 | 179.9 | 130.2 | 104.0 | 99.9  | 101.0 | 101.0 |
| 20°   | 340.5  | 325.3  | 297.3 | 272.8 | 206.8 | 127.9 | 95.2  | 91.7  | 92.9  | 95.2  | 95.2  |
| 22.5° | 358.0  | 341.7  | 310.1 | 269.2 | 157.7 | 93.4  | 87.0  | 87.6  | 88.8  | 91.1  | 91.1  |
| 25°   | 380.8  | 363.9  | 324.1 | 243.0 | 109.8 | 81.8  | 82.4  | 82.9  | 84.7  | 87.0  | 87.6  |
| 27.5° | 414.7  | 394.2  | 341.1 | 203.8 | 82.9  | 75.9  | 76.5  | 78.3  | 80.0  | 82.9  | 82.9  |
| 30°   | 450.9  | 425.8  | 356.3 | 157.1 | 72.4  | 69.5  | 70.1  | 71.8  | 74.8  | 77.1  | 78.3  |
| 32.5° | 466.7  | 444.5  | 359.2 | 107.5 | 67.2  | 64.2  | 63.1  | 64.8  | 67.2  | 69.5  | 70.1  |
| 35°   | 475.4  | 466.1  | 345.2 | 77.7  | 63.1  | 59.6  | 57.2  | 56.7  | 57.2  | 59.0  | 59.0  |
| 37.5° | 518.6  | 512.2  | 317.1 | 66.6  | 59.0  | 55.5  | 52.0  | 49.1  | 47.9  | 47.3  | 47.9  |
| 40°   | 601.6  | 587.6  | 280.3 | 61.3  | 55.5  | 51.4  | 46.7  | 42.1  | 38.0  | 36.2  | 36.2  |
| 42.5° | 784.4  | 713.7  | 227.8 | 57.8  | 52.0  | 47.3  | 40.3  | 33.9  | 29.2  | 28.0  | 28.0  |
| 45°   | 981.2  | 870.2  | 171.1 | 54.9  | 48.5  | 42.6  | 33.9  | 26.9  | 22.8  | 21.6  | 21.6  |
| 47.5° | 1170.4 | 985.9  | 119.7 | 51.4  | 44.4  | 37.4  | 28.0  | 21.6  | 18.7  | 18.1  | 18.1  |
| 50°   | 1369.0 | 1086.3 | 83.5  | 47.3  | 40.3  | 32.1  | 22.8  | 17.5  | 15.8  | 15.8  | 15.8  |
| 52.5° | 1562.3 | 1160.5 | 61.3  | 43.2  | 35.0  | 26.9  | 19.3  | 15.8  | 14.6  | 14.6  | 14.6  |
| 55°   | 1708.4 | 1189.1 | 46.7  | 38.0  | 29.8  | 22.8  | 17.5  | 15.2  | 14.0  | 13.4  | 13.4  |
| 57.5° | 1805.9 | 1165.2 | 38.0  | 31.5  | 25.1  | 19.9  | 15.8  | 14.0  | 12.8  | 12.3  | 12.3  |
| 60°   | 1803.6 | 1085.8 | 30.4  | 25.7  | 20.4  | 16.9  | 14.6  | 12.8  | 11.7  | 11.1  | 11.1  |
| 62.5° | 1697.8 | 956.7  | 23.9  | 20.4  | 16.9  | 14.6  | 12.8  | 11.7  | 10.5  | 9.9   | 9.3   |
| 64°   | 1594.5 | 876.7  | 20.4  | 17.5  | 15.2  | 13.4  | 11.7  | 10.5  | 9.3   | 8.2   | 8.2   |
| 65°   | 1482.3 | 800.7  | 18.7  | 15.8  | 13.4  | 12.3  | 11.1  | 9.9   | 8.2   | 7.0   | 7.0   |
| 67.5° | 1127.2 | 592.8  | 15.2  | 12.3  | 10.5  | 9.9   | 8.8   | 7.6   | 5.8   | 4.7   | 4.7   |
| 70°   | 731.8  | 383.7  | 12.8  | 9.9   | 8.8   | 8.8   | 8.2   | 6.4   | 4.7   | 4.1   | 3.5   |
| 72.5° | 375.0  | 191.0  | 10.5  | 8.2   | 7.6   | 7.6   | 7.0   | 5.3   | 4.1   | 3.5   | 2.9   |
| 75°   | 158.9  | 77.7   | 8.8   | 7.0   | 6.4   | 5.8   | 5.3   | 4.7   | 3.5   | 2.9   | 2.9   |
| 77.5° | 55.5   | 29.2   | 8.2   | 7.0   | 5.3   | 4.7   | 4.7   | 4.7   | 4.7   | 4.1   | 3.5   |
| 80°   | 18.7   | 11.1   | 5.3   | 5.3   | 5.8   | 6.4   | 6.4   | 5.8   | 6.4   | 5.3   | 4.1   |
| 82.5° | 7.6    | 4.1    | 1.8   | 2.3   | 4.1   | 4.7   | 5.3   | 5.3   | 5.3   | 4.1   | 3.5   |
| 85°   | 1.8    | 1.2    | 1.2   | 1.8   | 1.8   | 2.3   | 2.3   | 2.9   | 2.9   | 2.3   | 2.3   |
| 87.5° | 1.2    | 1.2    | 1.2   | 1.2   | 1.2   | 1.2   | 1.8   | 1.2   | 1.8   | 1.8   | 1.8   |
| 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)