

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: P401376

Luminaire Tested: **ENC-SA1C-760-U-T4W**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401376  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENC-SA1C-760-U-T4W  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4511 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - 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

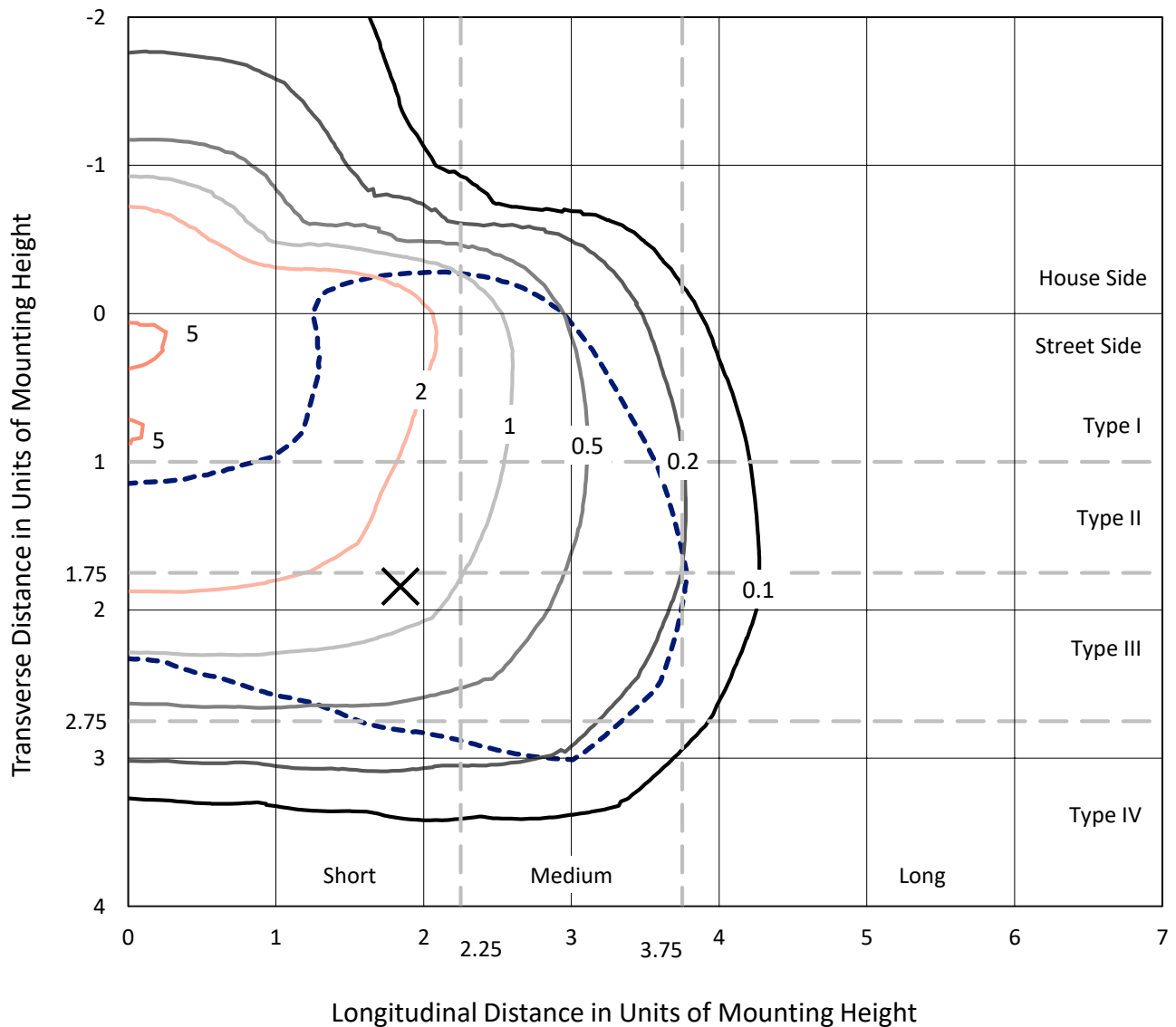


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

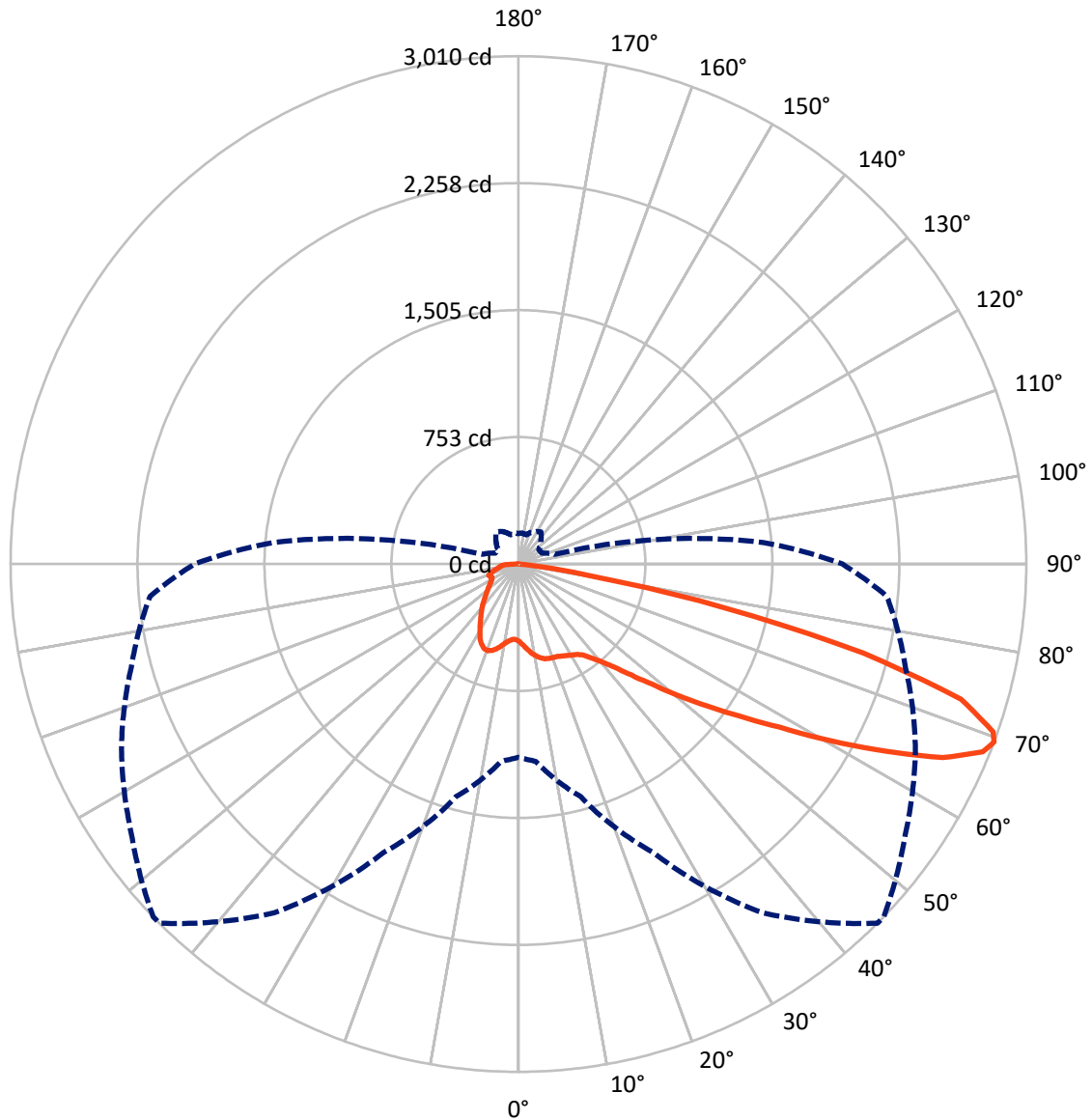


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - Semi-Cutoff

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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    | 1062.1   | 0.0    | 1062.1 |
|                    | % Fixture | 23.5     | 0.0    | 23.5   |
| <b>Street Side</b> | Lumens    | 3448.9   | 0.0    | 3448.9 |
|                    | % Fixture | 76.5     | 0.0    | 76.5   |
| <b>Total</b>       | Lumens    | 4511.0   | 0.0    | 4511.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.6   | 1.0       |
| 10°-20°   | 154.6  | 3.4       |
| 20°-30°   | 261.2  | 5.8       |
| 30°-40°   | 378.0  | 8.4       |
| 40°-50°   | 570.7  | 12.7      |
| 50°-60°   | 962.4  | 21.3      |
| 60°-70°   | 1323.9 | 29.3      |
| 70°-80°   | 733.7  | 16.3      |
| 80°-90°   | 79.9   | 1.8       |
| 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°    | 4511.0 | 100.0     |
| 0°-180°   | 4511.0 | 100.0     |

**Coefficient of Utilization**



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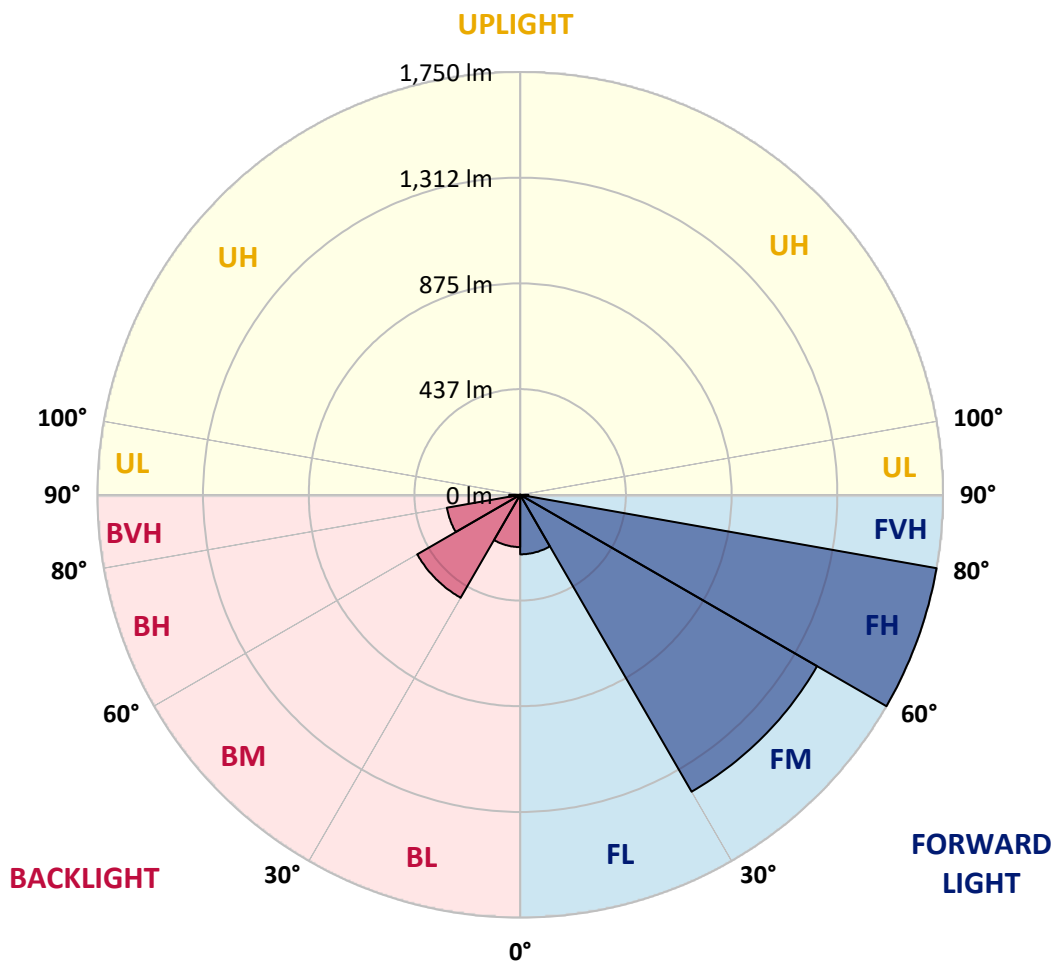
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 246.2  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 1418.8 | 31.5      |                         |      |         |
| FH   | (60°-80°)   | 1749.8 | 38.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 34.2   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 216.2  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 492.3  | 10.9      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 307.8  | 6.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 45.7   | 1.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 457.9  | 457.9  | 457.9  | 457.9  | 457.9  | 457.9  | 457.9  | 457.9  | 457.9  | 457.9  | 457.9  |
| 2.5°  | 486.7  | 486.1  | 486.7  | 484.2  | 481.6  | 477.8  | 476.5  | 472.0  | 468.8  | 464.3  | 460.4  |
| 5°    | 522.6  | 524.6  | 523.9  | 520.7  | 510.5  | 502.8  | 502.8  | 493.1  | 482.9  | 473.3  | 464.3  |
| 7.5°  | 561.8  | 561.8  | 557.9  | 551.5  | 541.2  | 529.7  | 528.4  | 515.6  | 500.8  | 487.4  | 473.3  |
| 10°   | 590.0  | 591.3  | 585.5  | 576.5  | 563.7  | 551.5  | 550.2  | 535.5  | 521.4  | 504.0  | 486.7  |
| 12.5° | 609.9  | 609.9  | 604.7  | 596.4  | 581.0  | 569.5  | 568.2  | 554.7  | 540.0  | 522.0  | 502.1  |
| 15°   | 620.1  | 618.8  | 614.4  | 605.4  | 591.9  | 582.3  | 580.4  | 568.8  | 556.6  | 538.7  | 517.5  |
| 17.5° | 618.2  | 618.2  | 614.4  | 605.4  | 595.8  | 588.1  | 586.8  | 578.4  | 569.5  | 552.1  | 531.0  |
| 20°   | 609.9  | 609.2  | 607.9  | 600.9  | 594.5  | 591.3  | 590.0  | 586.1  | 580.4  | 565.6  | 545.7  |
| 22.5° | 602.2  | 601.5  | 599.6  | 595.1  | 592.5  | 594.5  | 594.5  | 593.8  | 593.2  | 581.6  | 562.4  |
| 25°   | 606.7  | 606.0  | 602.2  | 595.8  | 595.1  | 604.1  | 604.7  | 606.7  | 607.9  | 598.3  | 578.4  |
| 27.5° | 638.1  | 636.2  | 625.3  | 608.6  | 602.8  | 614.4  | 615.6  | 621.4  | 620.1  | 609.9  | 592.5  |
| 30°   | 699.6  | 700.3  | 675.9  | 640.0  | 620.8  | 625.9  | 626.5  | 632.9  | 631.0  | 622.7  | 608.6  |
| 32.5° | 792.6  | 792.6  | 752.9  | 698.4  | 649.6  | 639.4  | 637.4  | 643.2  | 650.9  | 640.0  | 625.9  |
| 35°   | 910.6  | 907.4  | 859.3  | 775.3  | 699.0  | 662.4  | 661.2  | 658.6  | 672.1  | 661.8  | 641.3  |
| 37.5° | 1029.3 | 1017.7 | 970.9  | 878.6  | 768.3  | 707.3  | 702.2  | 694.5  | 702.2  | 680.4  | 662.4  |
| 40°   | 1124.8 | 1122.9 | 1084.4 | 990.8  | 850.3  | 761.8  | 758.0  | 724.0  | 729.1  | 711.8  | 704.8  |
| 42.5° | 1230.0 | 1231.3 | 1205.6 | 1111.3 | 948.5  | 835.6  | 825.3  | 772.7  | 787.5  | 781.1  | 777.9  |
| 45°   | 1345.4 | 1344.1 | 1324.9 | 1226.1 | 1068.4 | 938.2  | 925.4  | 860.6  | 890.7  | 886.9  | 904.9  |
| 47.5° | 1433.9 | 1441.0 | 1430.1 | 1360.2 | 1210.7 | 1062.6 | 1053.0 | 974.1  | 1019.6 | 1050.4 | 1084.4 |
| 50°   | 1554.5 | 1553.8 | 1524.3 | 1495.5 | 1376.2 | 1221.6 | 1212.0 | 1124.2 | 1189.6 | 1234.5 | 1296.7 |
| 52.5° | 1703.9 | 1698.8 | 1637.8 | 1627.6 | 1577.6 | 1395.4 | 1387.1 | 1295.4 | 1389.0 | 1428.1 | 1554.5 |
| 55°   | 1797.5 | 1796.9 | 1765.5 | 1783.4 | 1784.7 | 1589.1 | 1578.8 | 1497.4 | 1603.2 | 1648.1 | 1839.2 |
| 57.5° | 1875.8 | 1876.4 | 1902.7 | 1965.5 | 2007.9 | 1824.5 | 1820.6 | 1721.2 | 1828.3 | 1891.1 | 2116.9 |
| 60°   | 1936.0 | 1948.9 | 2022.6 | 2166.3 | 2236.8 | 2124.6 | 2107.9 | 2002.7 | 2074.6 | 2099.6 | 2329.1 |
| 62.5° | 1911.7 | 1928.3 | 2073.3 | 2284.9 | 2466.4 | 2442.7 | 2436.9 | 2284.9 | 2284.3 | 2271.4 | 2487.5 |
| 65°   | 1719.3 | 1755.2 | 1983.5 | 2280.4 | 2617.7 | 2765.9 | 2757.5 | 2551.0 | 2479.2 | 2415.1 | 2535.0 |
| 67.5° | 1407.0 | 1414.7 | 1689.8 | 2106.0 | 2616.4 | 2969.1 | 2960.2 | 2744.7 | 2600.4 | 2443.3 | 2395.8 |
| 69°   | 1145.3 | 1173.6 | 1428.1 | 1885.4 | 2524.1 | 3010.2 | 3010.2 | 2798.6 | 2595.9 | 2376.0 | 2191.9 |
| 70°   | 990.8  | 992.1  | 1237.7 | 1709.7 | 2398.4 | 2985.8 | 2991.6 | 2798.6 | 2559.4 | 2288.1 | 2011.1 |
| 72.5° | 464.3  | 493.1  | 648.3  | 1115.8 | 1937.3 | 2744.7 | 2758.8 | 2613.9 | 2347.1 | 1971.3 | 1508.9 |
| 75°   | 139.2  | 144.3  | 216.1  | 529.1  | 1110.1 | 2114.3 | 2145.7 | 2174.6 | 1911.7 | 1451.2 | 929.2  |
| 77.5° | 82.7   | 82.1   | 104.5  | 179.6  | 513.7  | 1253.7 | 1267.8 | 1390.9 | 1240.2 | 806.7  | 422.0  |
| 80°   | 40.4   | 41.7   | 55.8   | 87.2   | 192.4  | 455.3  | 500.8  | 650.3  | 549.6  | 315.5  | 154.5  |
| 82.5° | 13.5   | 14.7   | 23.1   | 35.3   | 81.4   | 146.9  | 162.2  | 203.9  | 175.7  | 114.8  | 66.1   |
| 85°   | 0.0    | 0.0    | 0.6    | 1.3    | 4.5    | 10.9   | 10.9   | 24.4   | 36.6   | 40.4   | 21.8   |
| 87.5° | 0.0    | 0.0    | 0.6    | 0.6    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.9    |
| 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°    | 457.9  | 457.9  | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 |
| 2.5°  | 458.5  | 457.2  | 454.7 | 452.1 | 450.8 | 447.6 | 448.3 | 447.0 | 446.3 | 446.3 | 447.0 |
| 5°    | 459.8  | 457.9  | 454.0 | 451.5 | 448.9 | 447.6 | 450.8 | 452.1 | 453.4 | 453.4 | 454.0 |
| 7.5°  | 467.5  | 463.6  | 459.2 | 456.0 | 456.6 | 458.5 | 463.6 | 467.5 | 469.4 | 470.7 | 472.0 |
| 10°   | 480.3  | 475.8  | 469.4 | 468.8 | 470.1 | 475.2 | 482.2 | 488.0 | 493.1 | 496.4 | 496.4 |
| 12.5° | 493.8  | 488.0  | 482.9 | 484.2 | 489.9 | 497.6 | 504.7 | 511.1 | 515.6 | 518.8 | 519.4 |
| 15°   | 508.5  | 502.8  | 497.6 | 500.8 | 510.5 | 519.4 | 525.9 | 528.4 | 530.3 | 533.5 | 534.2 |
| 17.5° | 522.0  | 516.9  | 512.4 | 520.7 | 529.1 | 536.1 | 538.0 | 536.8 | 534.2 | 536.1 | 537.4 |
| 20°   | 536.1  | 531.6  | 529.1 | 538.0 | 543.8 | 544.5 | 539.3 | 533.5 | 527.1 | 527.1 | 527.8 |
| 22.5° | 553.4  | 547.7  | 546.4 | 550.9 | 548.9 | 541.2 | 528.4 | 519.4 | 510.5 | 509.2 | 511.1 |
| 25°   | 570.1  | 564.3  | 563.7 | 560.5 | 543.8 | 523.9 | 506.6 | 496.4 | 489.3 | 489.9 | 493.8 |
| 27.5° | 586.8  | 582.9  | 583.6 | 566.3 | 529.1 | 498.9 | 475.8 | 467.5 | 469.4 | 470.7 | 474.6 |
| 30°   | 603.4  | 603.4  | 606.0 | 566.3 | 508.5 | 463.6 | 441.8 | 441.2 | 446.3 | 450.2 | 454.7 |
| 32.5° | 622.7  | 628.5  | 624.0 | 559.2 | 481.0 | 427.7 | 410.4 | 411.7 | 417.5 | 423.9 | 427.7 |
| 35°   | 641.3  | 654.8  | 641.9 | 543.2 | 443.1 | 395.0 | 380.9 | 379.0 | 383.5 | 389.3 | 391.2 |
| 37.5° | 670.8  | 692.6  | 657.3 | 518.2 | 404.0 | 366.2 | 352.1 | 346.9 | 342.4 | 346.9 | 346.3 |
| 40°   | 722.1  | 748.4  | 668.9 | 476.5 | 366.2 | 339.2 | 324.5 | 314.9 | 304.0 | 294.3 | 294.3 |
| 42.5° | 804.2  | 821.5  | 675.3 | 425.8 | 328.3 | 312.3 | 297.6 | 283.4 | 266.8 | 249.5 | 249.5 |
| 45°   | 938.2  | 942.0  | 677.8 | 371.9 | 293.7 | 285.4 | 270.0 | 256.5 | 234.7 | 217.4 | 213.5 |
| 47.5° | 1117.1 | 1100.4 | 684.3 | 320.0 | 263.6 | 261.6 | 248.8 | 233.4 | 209.7 | 193.7 | 191.7 |
| 50°   | 1357.6 | 1285.8 | 712.5 | 278.3 | 239.2 | 241.1 | 231.5 | 213.5 | 191.1 | 179.6 | 177.0 |
| 52.5° | 1628.2 | 1519.8 | 734.3 | 245.0 | 218.0 | 223.8 | 216.8 | 199.4 | 180.2 | 170.6 | 168.7 |
| 55°   | 1923.9 | 1744.9 | 729.1 | 222.5 | 202.0 | 208.4 | 205.9 | 191.1 | 173.8 | 165.5 | 163.5 |
| 57.5° | 2165.0 | 1903.3 | 684.3 | 202.6 | 186.0 | 195.0 | 197.5 | 186.0 | 169.9 | 162.2 | 160.3 |
| 60°   | 2345.8 | 1989.9 | 591.9 | 186.0 | 173.1 | 184.0 | 191.1 | 182.8 | 169.3 | 164.8 | 162.9 |
| 62.5° | 2427.9 | 1982.2 | 472.0 | 173.1 | 163.5 | 176.4 | 191.7 | 187.9 | 178.9 | 182.1 | 182.8 |
| 65°   | 2381.7 | 1885.4 | 354.0 | 163.5 | 157.8 | 177.6 | 202.6 | 202.6 | 189.2 | 195.0 | 195.6 |
| 67.5° | 2145.1 | 1632.1 | 257.8 | 156.5 | 152.0 | 184.0 | 223.2 | 210.3 | 184.7 | 189.2 | 187.3 |
| 69°   | 1920.0 | 1460.2 | 221.2 | 152.6 | 147.5 | 187.3 | 232.1 | 211.6 | 179.6 | 184.7 | 179.6 |
| 70°   | 1754.6 | 1305.0 | 198.8 | 149.4 | 145.6 | 187.3 | 234.7 | 210.3 | 177.0 | 180.8 | 175.1 |
| 72.5° | 1248.6 | 906.1  | 163.5 | 143.0 | 138.5 | 173.1 | 230.2 | 203.3 | 169.9 | 165.5 | 154.5 |
| 75°   | 725.9  | 500.8  | 139.2 | 136.0 | 122.5 | 152.0 | 218.7 | 195.6 | 162.9 | 154.5 | 146.9 |
| 77.5° | 304.6  | 223.8  | 118.6 | 123.8 | 108.4 | 135.3 | 204.6 | 187.9 | 154.5 | 143.0 | 139.2 |
| 80°   | 123.8  | 111.6  | 98.8  | 107.1 | 94.3  | 119.3 | 188.5 | 175.1 | 142.4 | 130.8 | 125.1 |
| 82.5° | 64.8   | 61.6   | 75.7  | 86.6  | 78.2  | 109.7 | 177.6 | 166.1 | 132.1 | 120.6 | 113.5 |
| 85°   | 19.2   | 25.7   | 43.0  | 59.0  | 59.6  | 98.8  | 172.5 | 153.9 | 114.8 | 99.4  | 98.1  |
| 87.5° | 1.3    | 5.1    | 14.7  | 30.8  | 39.1  | 75.7  | 139.8 | 126.3 | 93.0  | 78.2  | 78.9  |
| 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)