

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: STREETWORKS

Report Number: P691117

Luminaire Tested: **CRTK2-C013-D-U-T2-7040-U0-HSS-CRTK2**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C013-D-U-T2-7040-U0-HSS-CRTK2  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K LED WITH TYPE II OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2654 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 20.4  
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: 24 FT



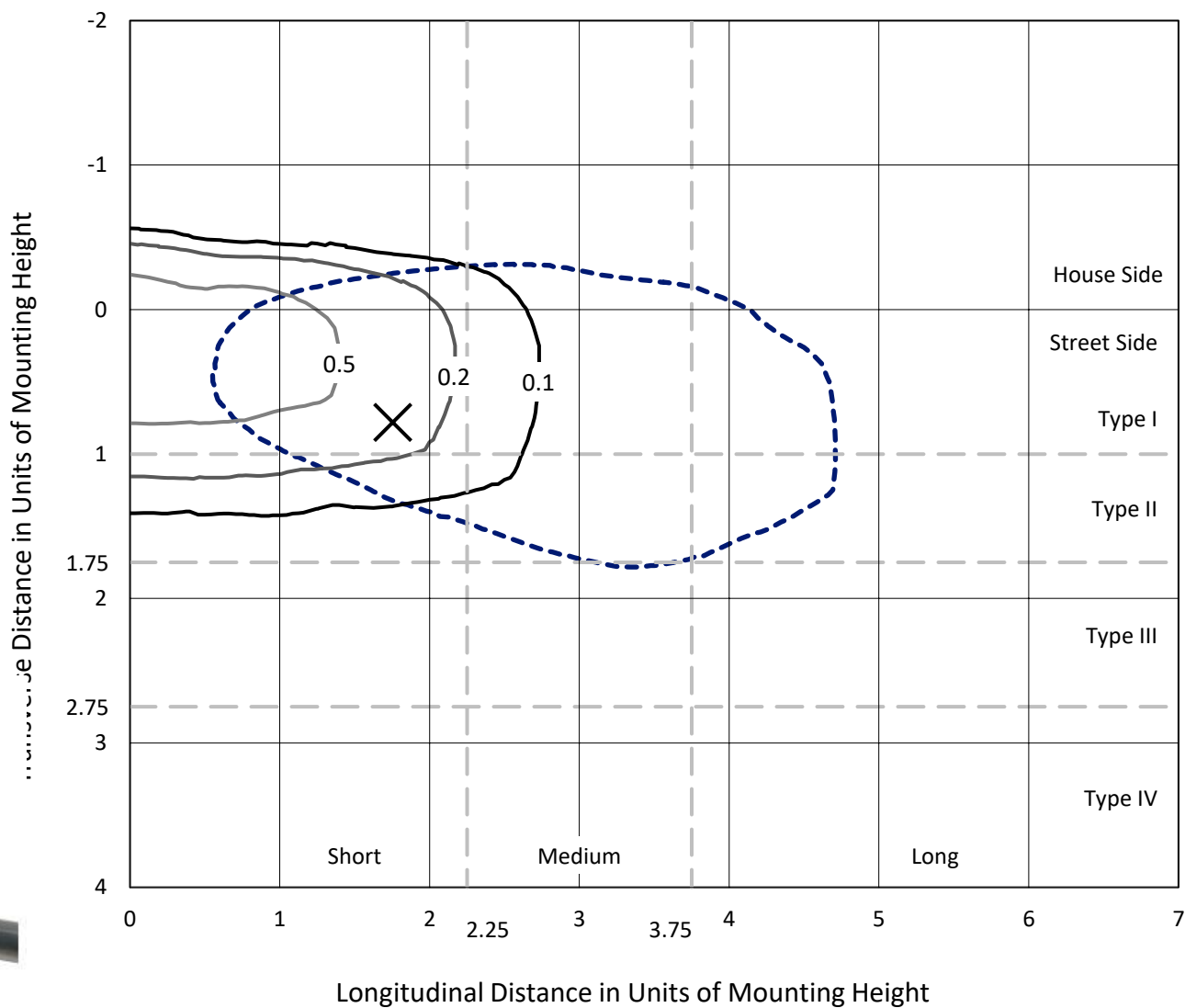
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

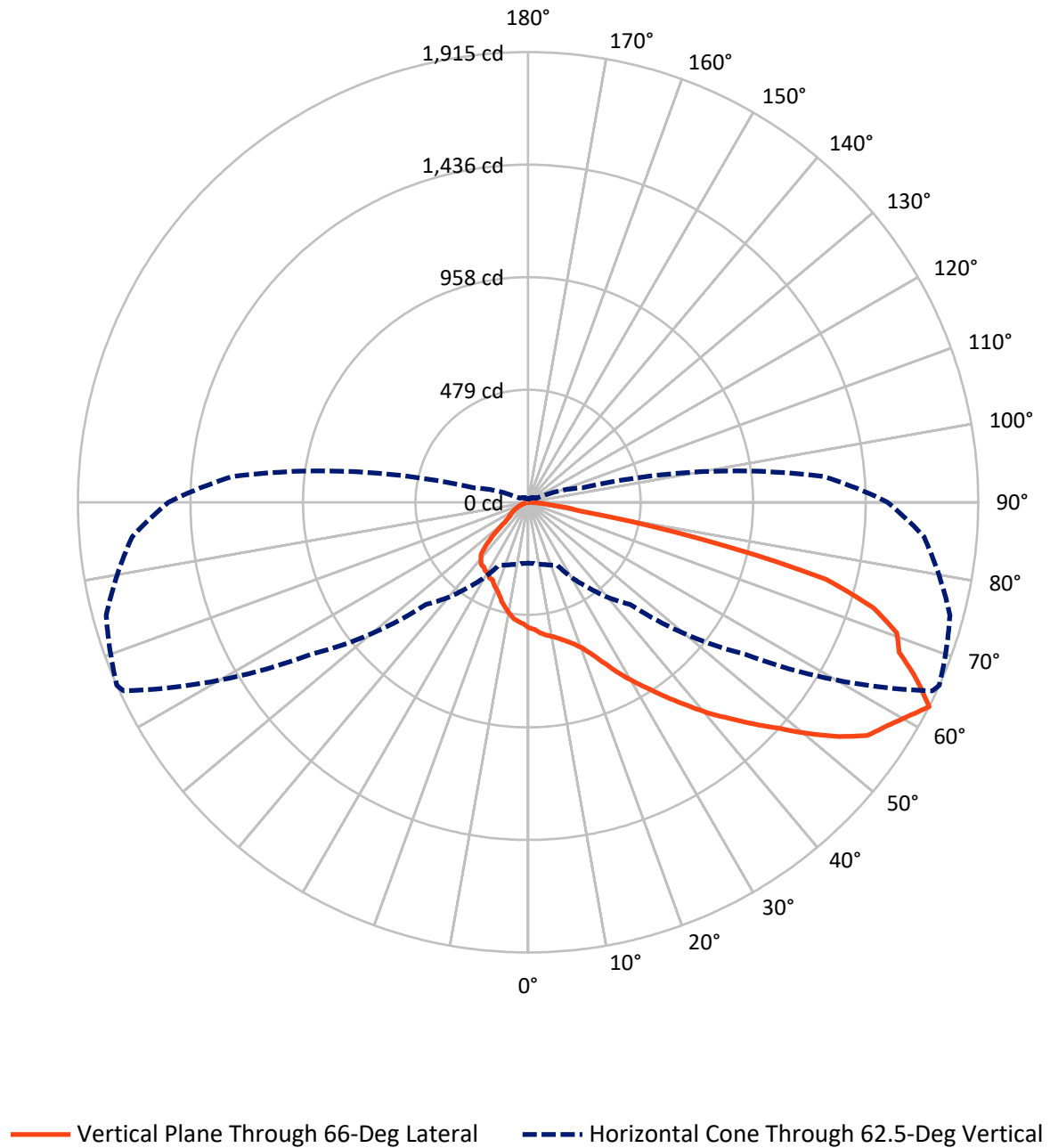


Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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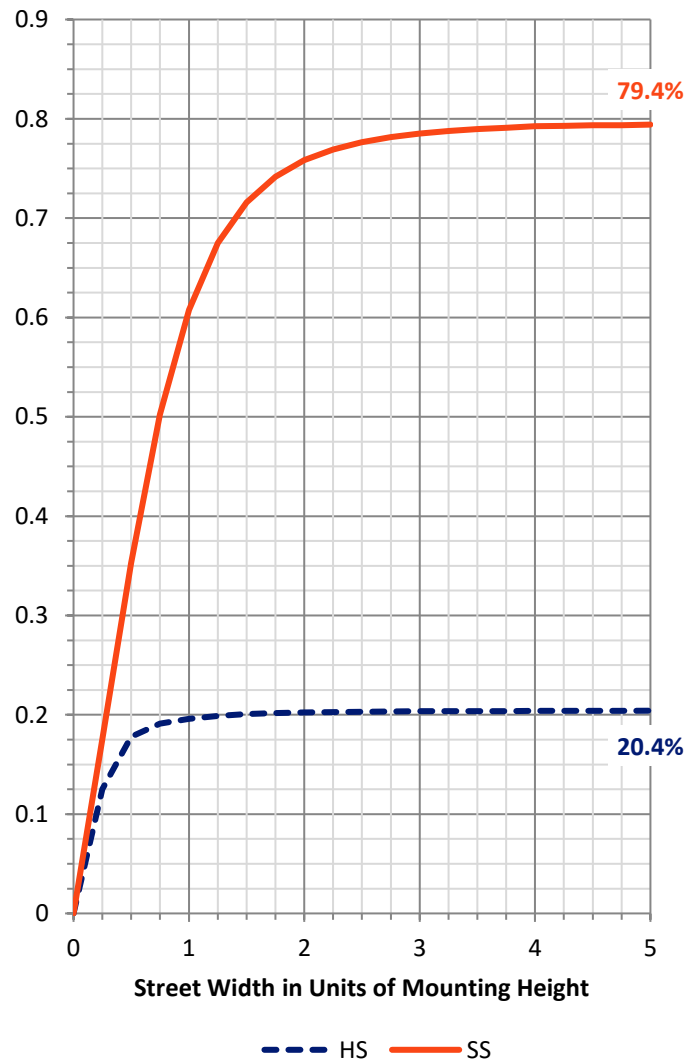
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 548.2    | 0.0    | 548.2  |
|                    | % Fixture | 20.7     | 0.0    | 20.7   |
| <b>Street Side</b> | Lumens    | 2105.7   | 0.0    | 2105.7 |
|                    | % Fixture | 79.3     | 0.0    | 79.3   |
| <b>Total</b>       | Lumens    | 2654.0   | 0.0    | 2654.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 50.4   | 1.9       |
| 10°-20°   | 143.7  | 5.4       |
| 20°-30°   | 235.7  | 8.9       |
| 30°-40°   | 346.8  | 13.1      |
| 40°-50°   | 457.4  | 17.2      |
| 50°-60°   | 532.4  | 20.1      |
| 60°-70°   | 529.1  | 19.9      |
| 70°-80°   | 327.3  | 12.3      |
| 80°-90°   | 31.3   | 1.2       |
| 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°    | 2654.0 | 100.0     |
| 0°-180°   | 2654.0 | 100.0     |

**Coefficient of Utilization**



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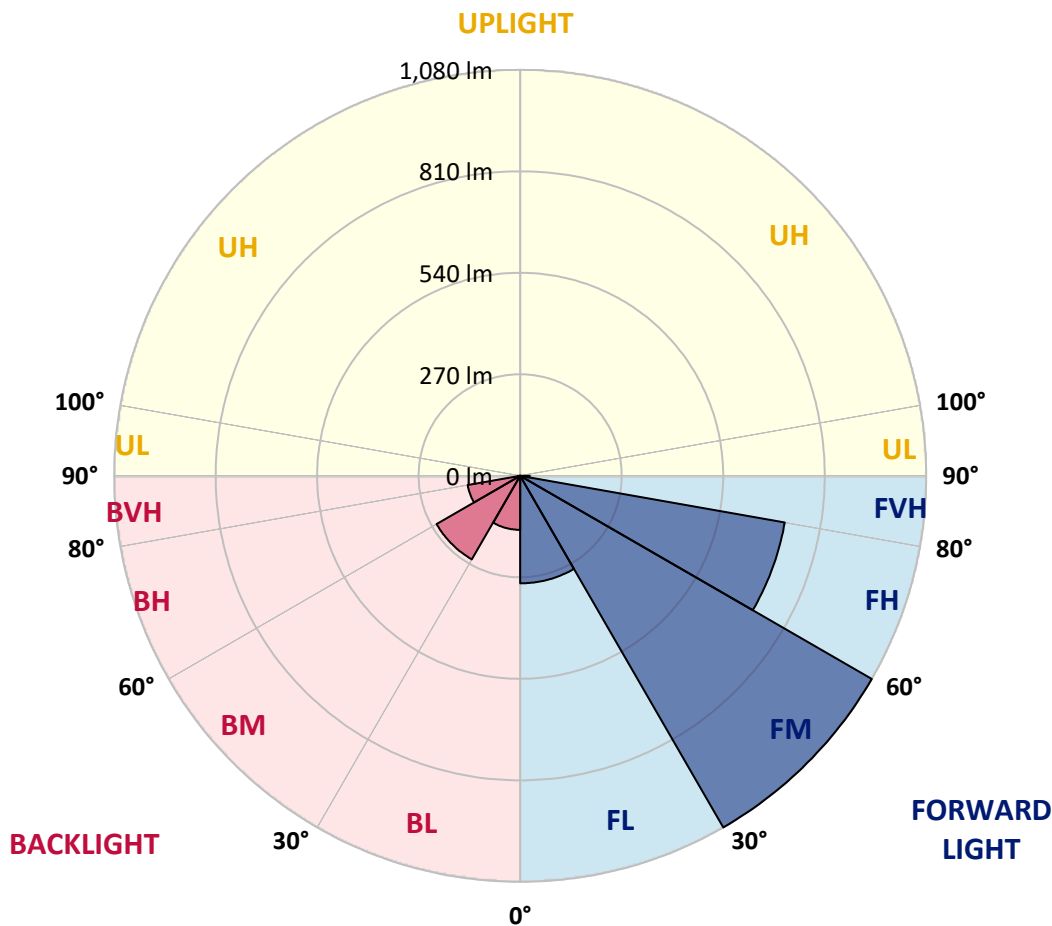
CATALOG NUMBER: CRTK2-C013-D-U-T2-7040-U0-HSS-CRTK2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 286.0  | 10.8      |                         |      |         |
| FM   | (30°-60°)   | 1079.9 | 40.7      |                         |      |         |
| FH   | (60°-80°)   | 714.6  | 26.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 25.3   | 1.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 143.8  | 5.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 256.7  | 9.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 141.7  | 5.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 6.0    | 0.2       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 534.1 | 534.1 | 534.1 | 534.1 | 534.1 | 534.1  | 534.1  | 534.1  | 534.1  | 534.1  | 534.1  |
| 2.5°  | 564.1 | 564.1 | 563.1 | 556.1 | 553.1 | 549.1  | 546.1  | 543.1  | 542.1  | 539.1  | 534.1  |
| 5°    | 597.1 | 596.1 | 596.1 | 590.1 | 584.1 | 576.1  | 568.1  | 560.1  | 559.1  | 551.1  | 540.1  |
| 7.5°  | 616.1 | 616.1 | 614.1 | 610.1 | 606.1 | 601.1  | 589.1  | 572.1  | 571.1  | 560.1  | 545.1  |
| 10°   | 621.1 | 622.1 | 626.1 | 616.1 | 613.1 | 608.1  | 602.1  | 584.1  | 581.1  | 565.1  | 541.1  |
| 12.5° | 639.1 | 639.1 | 638.1 | 629.1 | 626.1 | 622.1  | 612.1  | 598.1  | 595.1  | 575.1  | 542.1  |
| 15°   | 661.1 | 662.1 | 659.1 | 651.1 | 647.1 | 642.1  | 629.1  | 614.1  | 613.1  | 587.1  | 550.1  |
| 17.5° | 672.1 | 672.1 | 674.1 | 663.1 | 664.1 | 662.1  | 656.1  | 635.1  | 634.1  | 610.1  | 564.1  |
| 20°   | 676.1 | 677.1 | 678.1 | 678.1 | 679.1 | 677.1  | 683.1  | 665.1  | 662.1  | 635.1  | 583.1  |
| 22.5° | 694.1 | 696.1 | 701.1 | 698.1 | 703.1 | 706.1  | 708.1  | 709.1  | 705.1  | 677.1  | 615.1  |
| 25°   | 702.1 | 707.1 | 714.1 | 725.1 | 733.1 | 739.1  | 754.1  | 761.1  | 760.1  | 736.1  | 668.1  |
| 27.5° | 690.1 | 696.1 | 720.1 | 739.1 | 767.1 | 783.1  | 811.1  | 820.1  | 823.1  | 801.1  | 725.1  |
| 30°   | 706.1 | 708.1 | 719.1 | 743.1 | 778.1 | 826.1  | 864.1  | 884.1  | 884.1  | 867.1  | 781.1  |
| 32.5° | 681.1 | 687.1 | 719.1 | 763.1 | 817.1 | 869.1  | 905.1  | 948.1  | 948.1  | 940.1  | 861.1  |
| 35°   | 678.1 | 681.1 | 700.1 | 749.1 | 818.1 | 913.1  | 961.1  | 1012.1 | 1019.1 | 1020.1 | 940.1  |
| 37.5° | 650.1 | 656.1 | 690.1 | 753.1 | 848.1 | 940.1  | 1007.1 | 1086.2 | 1094.2 | 1105.2 | 1006.1 |
| 40°   | 619.1 | 621.1 | 651.1 | 717.1 | 841.1 | 975.1  | 1051.2 | 1169.2 | 1178.2 | 1193.2 | 1094.2 |
| 42.5° | 573.1 | 581.1 | 631.1 | 703.1 | 838.1 | 986.1  | 1100.2 | 1247.2 | 1257.2 | 1278.2 | 1167.2 |
| 45°   | 532.1 | 535.1 | 572.1 | 652.1 | 805.1 | 1002.1 | 1138.2 | 1339.2 | 1345.2 | 1358.2 | 1228.2 |
| 47.5° | 499.1 | 501.1 | 538.1 | 607.1 | 774.1 | 998.1  | 1175.2 | 1422.2 | 1436.2 | 1456.2 | 1300.2 |
| 50°   | 400.1 | 411.1 | 503.1 | 570.1 | 720.1 | 991.1  | 1204.2 | 1526.2 | 1547.2 | 1555.2 | 1383.2 |
| 52.5° | 341.0 | 343.0 | 391.1 | 533.1 | 664.1 | 961.1  | 1232.2 | 1632.2 | 1656.2 | 1634.2 | 1483.2 |
| 55°   | 316.0 | 318.0 | 340.0 | 459.1 | 617.1 | 903.1  | 1253.2 | 1734.3 | 1751.3 | 1697.2 | 1558.2 |
| 57.5° | 300.0 | 304.0 | 314.0 | 373.1 | 561.1 | 806.1  | 1257.2 | 1790.3 | 1797.3 | 1747.3 | 1596.2 |
| 60°   | 278.0 | 278.0 | 298.0 | 326.0 | 500.1 | 702.1  | 1224.2 | 1818.3 | 1852.3 | 1804.3 | 1666.2 |
| 62.5° | 259.0 | 261.0 | 274.0 | 295.0 | 440.1 | 614.1  | 1127.2 | 1898.3 | 1915.3 | 1858.3 | 1691.2 |
| 65°   | 237.0 | 239.0 | 251.0 | 272.0 | 400.1 | 565.1  | 1075.2 | 1866.3 | 1816.3 | 1844.3 | 1722.2 |
| 67.5° | 212.0 | 213.0 | 225.0 | 244.0 | 336.0 | 521.1  | 950.1  | 1744.3 | 1703.2 | 1778.3 | 1636.2 |
| 70°   | 187.0 | 187.0 | 197.0 | 212.0 | 274.0 | 457.1  | 785.1  | 1633.2 | 1664.2 | 1668.2 | 1551.2 |
| 72.5° | 156.0 | 157.0 | 167.0 | 180.0 | 220.0 | 382.1  | 621.1  | 1522.2 | 1536.2 | 1483.2 | 1364.2 |
| 75°   | 112.0 | 116.0 | 127.0 | 140.0 | 174.0 | 303.0  | 441.1  | 1237.2 | 1310.2 | 1404.2 | 1172.2 |
| 77.5° | 17.0  | 17.0  | 21.0  | 32.0  | 57.0  | 152.0  | 204.0  | 683.1  | 758.1  | 1175.2 | 1024.1 |
| 80°   | 14.0  | 14.0  | 15.0  | 21.0  | 33.0  | 85.0   | 66.0   | 214.0  | 230.0  | 540.1  | 577.1  |
| 82.5° | 7.0   | 7.0   | 11.0  | 15.0  | 20.0  | 25.0   | 28.0   | 103.0  | 119.0  | 184.0  | 230.0  |
| 85°   | 4.0   | 4.0   | 5.0   | 7.0   | 8.0   | 8.0    | 9.0    | 49.0   | 51.0   | 100.0  | 104.0  |
| 87.5° | 1.0   | 1.0   | 2.0   | 2.0   | 2.0   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 534.1  | 534.1  | 534.1 | 534.1 | 534.1 | 534.1 | 534.1 | 534.1 | 534.1 | 534.1 | 534.1 |
| 2.5°  | 532.1  | 529.1  | 523.1 | 518.1 | 515.1 | 509.1 | 504.1 | 500.1 | 498.1 | 503.1 | 504.1 |
| 5°    | 533.1  | 526.1  | 515.1 | 508.1 | 500.1 | 490.1 | 478.1 | 471.1 | 468.1 | 469.1 | 472.1 |
| 7.5°  | 535.1  | 525.1  | 512.1 | 497.1 | 476.1 | 456.1 | 442.1 | 434.1 | 430.1 | 435.1 | 435.1 |
| 10°   | 529.1  | 518.1  | 500.1 | 477.1 | 450.1 | 430.1 | 414.1 | 400.1 | 395.1 | 397.1 | 398.1 |
| 12.5° | 529.1  | 514.1  | 484.1 | 456.1 | 431.1 | 398.1 | 374.1 | 361.1 | 356.1 | 357.1 | 359.1 |
| 15°   | 532.1  | 512.1  | 470.1 | 436.1 | 399.1 | 364.1 | 343.0 | 327.0 | 322.0 | 317.0 | 319.0 |
| 17.5° | 542.1  | 509.1  | 463.1 | 409.1 | 368.1 | 335.0 | 306.0 | 288.0 | 284.0 | 284.0 | 285.0 |
| 20°   | 552.1  | 513.1  | 451.1 | 389.1 | 340.0 | 299.0 | 269.0 | 256.0 | 247.0 | 243.0 | 247.0 |
| 22.5° | 573.1  | 527.1  | 443.1 | 376.1 | 311.0 | 272.0 | 244.0 | 215.0 | 199.0 | 192.0 | 194.0 |
| 25°   | 611.1  | 552.1  | 449.1 | 353.1 | 295.0 | 247.0 | 208.0 | 173.0 | 151.0 | 144.0 | 146.0 |
| 27.5° | 670.1  | 593.1  | 456.1 | 351.1 | 266.0 | 222.0 | 169.0 | 131.0 | 114.0 | 107.0 | 109.0 |
| 30°   | 728.1  | 649.1  | 479.1 | 331.0 | 255.0 | 182.0 | 128.0 | 101.0 | 84.0  | 77.0  | 79.0  |
| 32.5° | 778.1  | 703.1  | 508.1 | 326.0 | 226.0 | 137.0 | 96.0  | 75.0  | 62.0  | 56.0  | 57.0  |
| 35°   | 852.1  | 749.1  | 533.1 | 311.0 | 192.0 | 103.0 | 70.0  | 54.0  | 47.0  | 45.0  | 45.0  |
| 37.5° | 918.1  | 803.1  | 557.1 | 306.0 | 144.0 | 77.0  | 50.0  | 44.0  | 43.0  | 40.0  | 40.0  |
| 40°   | 987.1  | 860.1  | 568.1 | 288.0 | 105.0 | 54.0  | 41.0  | 41.0  | 40.0  | 37.0  | 37.0  |
| 42.5° | 1068.2 | 918.1  | 578.1 | 267.0 | 75.0  | 41.0  | 38.0  | 39.0  | 38.0  | 35.0  | 34.0  |
| 45°   | 1126.2 | 954.1  | 581.1 | 214.0 | 52.0  | 39.0  | 36.0  | 37.0  | 36.0  | 34.0  | 33.0  |
| 47.5° | 1179.2 | 1006.1 | 568.1 | 150.0 | 42.0  | 37.0  | 35.0  | 35.0  | 35.0  | 32.0  | 31.0  |
| 50°   | 1234.2 | 1049.2 | 557.1 | 81.0  | 41.0  | 36.0  | 33.0  | 32.0  | 33.0  | 31.0  | 30.0  |
| 52.5° | 1307.2 | 1082.2 | 528.1 | 55.0  | 40.0  | 35.0  | 32.0  | 30.0  | 31.0  | 29.0  | 30.0  |
| 55°   | 1404.2 | 1169.2 | 475.1 | 52.0  | 40.0  | 34.0  | 31.0  | 28.0  | 28.0  | 27.0  | 27.0  |
| 57.5° | 1448.2 | 1202.2 | 390.1 | 50.0  | 39.0  | 34.0  | 29.0  | 26.0  | 24.0  | 23.0  | 22.0  |
| 60°   | 1502.2 | 1250.2 | 301.0 | 46.0  | 36.0  | 32.0  | 26.0  | 23.0  | 20.0  | 19.0  | 19.0  |
| 62.5° | 1530.2 | 1261.2 | 238.0 | 41.0  | 33.0  | 28.0  | 23.0  | 19.0  | 16.0  | 14.0  | 14.0  |
| 65°   | 1546.2 | 1255.2 | 166.0 | 37.0  | 29.0  | 25.0  | 20.0  | 16.0  | 12.0  | 11.0  | 10.0  |
| 67.5° | 1492.2 | 1219.2 | 97.0  | 32.0  | 25.0  | 22.0  | 17.0  | 13.0  | 10.0  | 9.0   | 8.0   |
| 70°   | 1384.2 | 1109.2 | 61.0  | 28.0  | 22.0  | 19.0  | 15.0  | 11.0  | 8.0   | 7.0   | 7.0   |
| 72.5° | 1268.2 | 894.1  | 42.0  | 22.0  | 17.0  | 15.0  | 11.0  | 9.0   | 7.0   | 5.0   | 5.0   |
| 75°   | 1141.2 | 776.1  | 31.0  | 16.0  | 12.0  | 11.0  | 9.0   | 7.0   | 6.0   | 4.0   | 4.0   |
| 77.5° | 809.1  | 514.1  | 25.0  | 12.0  | 8.0   | 7.0   | 6.0   | 5.0   | 4.0   | 4.0   | 3.0   |
| 80°   | 478.1  | 251.0  | 19.0  | 8.0   | 6.0   | 5.0   | 4.0   | 4.0   | 3.0   | 3.0   | 3.0   |
| 82.5° | 179.0  | 96.0   | 13.0  | 6.0   | 4.0   | 4.0   | 3.0   | 3.0   | 2.0   | 2.0   | 2.0   |
| 85°   | 65.0   | 24.0   | 6.0   | 3.0   | 3.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| 87.5° | 1.0    | 1.0    | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 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)