

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: P691042

Luminaire Tested: **CRTK2-C013-5TLD-U-T2-8027-U0**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C013-5TLD-U-T2-8027-U0  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K LED WITH TYPE II OPTIC AND U0 SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3017 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 23.2  
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



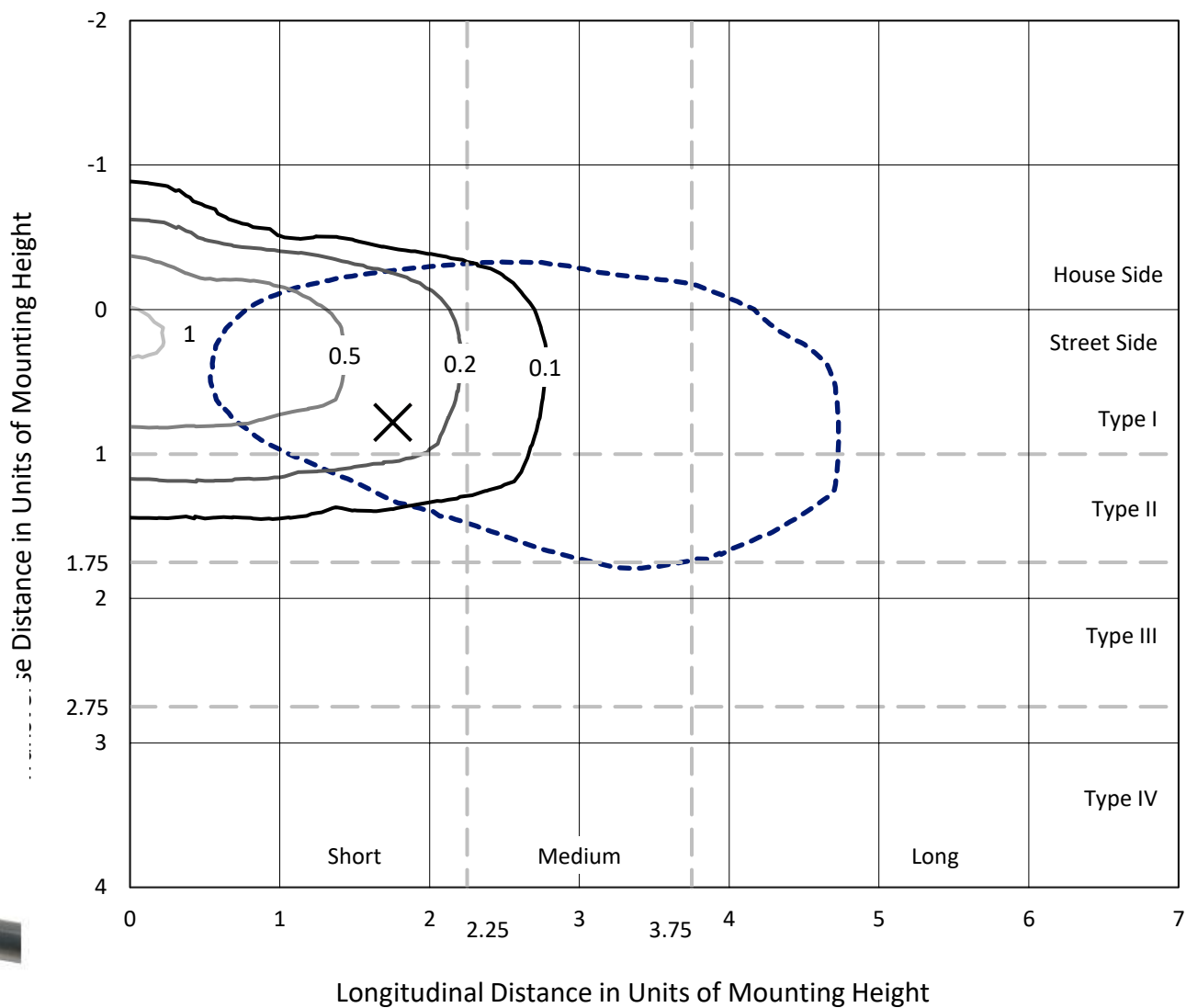
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

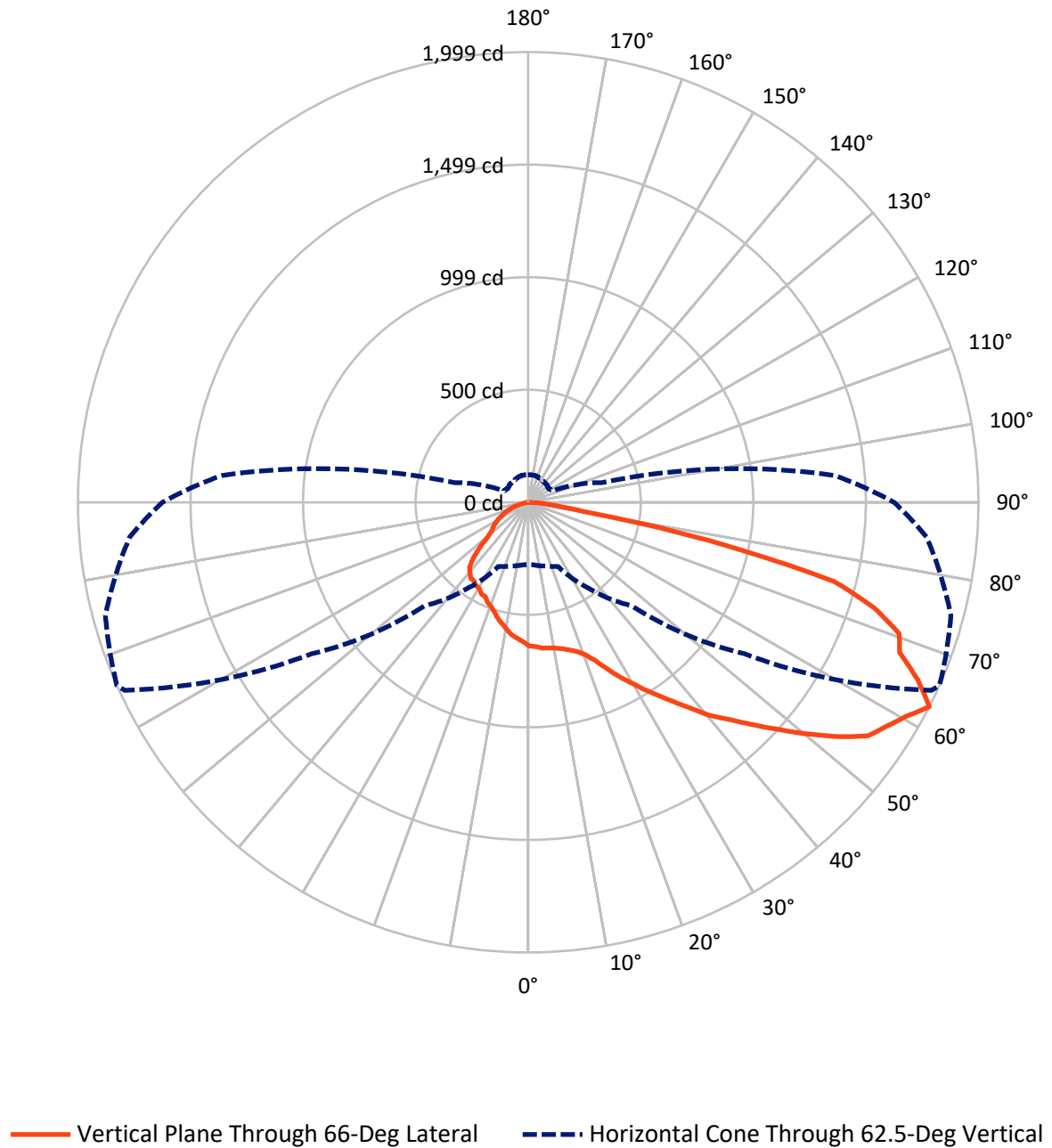


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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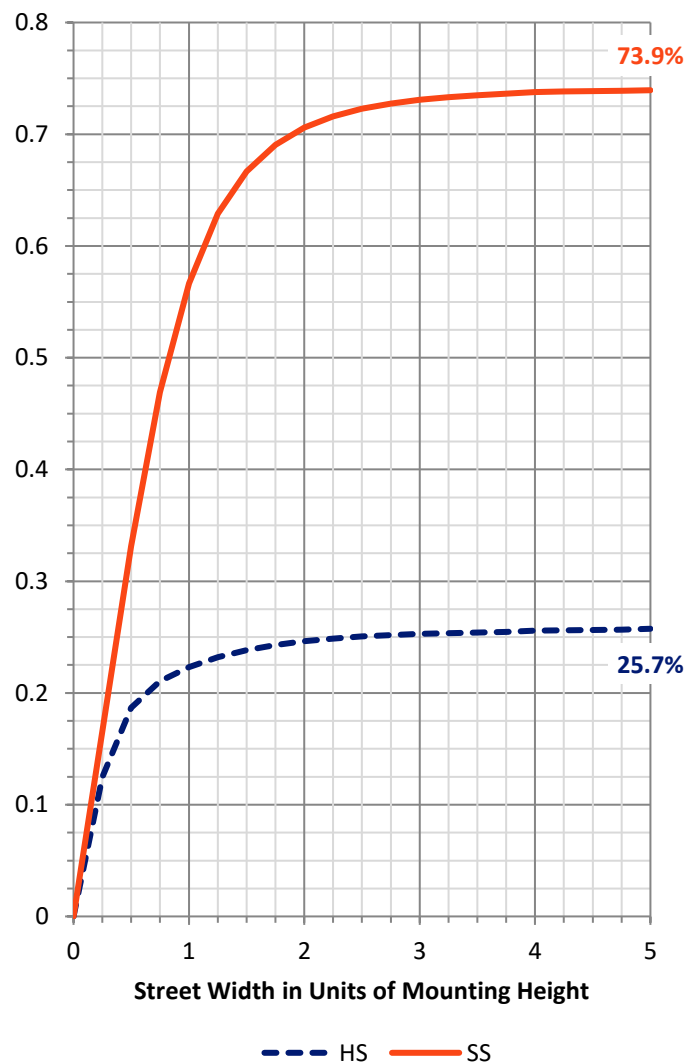
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 788.3    | 0.0    | 788.3  |
|                    | % Fixture | 26.1     | 0.0    | 26.1   |
| <b>Street Side</b> | Lumens    | 2228.7   | 0.0    | 2228.7 |
|                    | % Fixture | 73.9     | 0.0    | 73.9   |
| <b>Total</b>       | Lumens    | 3017.0   | 0.0    | 3017.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.7   | 2.0       |
| 10°-20°   | 169.4  | 5.6       |
| 20°-30°   | 275.1  | 9.1       |
| 30°-40°   | 396.8  | 13.2      |
| 40°-50°   | 516.1  | 17.1      |
| 50°-60°   | 599.5  | 19.9      |
| 60°-70°   | 593.1  | 19.7      |
| 70°-80°   | 367.4  | 12.2      |
| 80°-90°   | 39.9   | 1.3       |
| 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°    | 3017.0 | 100.0     |
| 0°-180°   | 3017.0 | 100.0     |

**Coefficient of Utilization**



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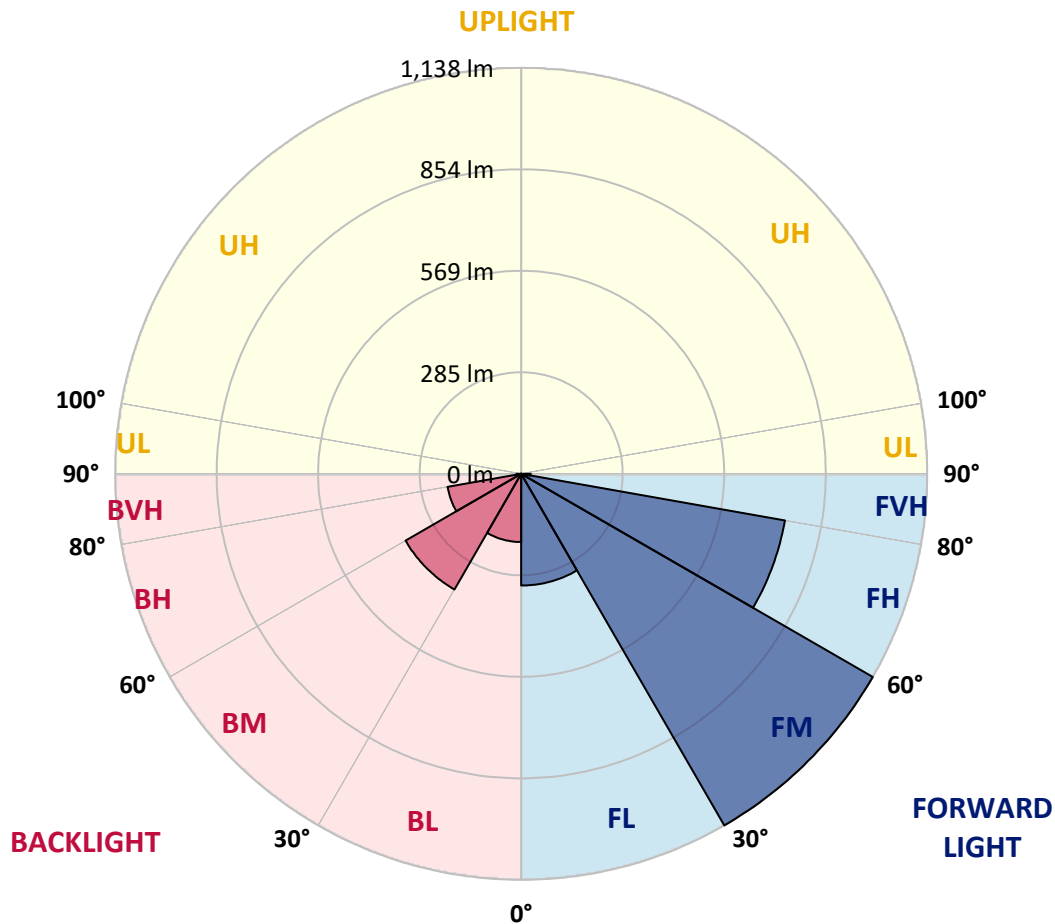
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 313.0  | 10.4      |                         |      |         |
| FM   | (30°-60°)   | 1138.1 | 37.7      |                         |      |         |
| FH   | (60°-80°)   | 750.8  | 24.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 26.8   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 191.2  | 6.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 374.3  | 12.4      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 209.6  | 6.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 13.1   | 0.4       |                         |      | 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 II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 638.2 | 638.2 | 638.2 | 638.2 | 638.2 | 638.2  | 638.2  | 638.2  | 638.2  | 638.2  | 638.2  |
| 2.5°  | 661.0 | 661.0 | 663.1 | 655.8 | 651.7 | 648.5  | 645.4  | 642.3  | 641.3  | 638.2  | 634.0  |
| 5°    | 690.1 | 690.1 | 691.1 | 683.8 | 675.5 | 666.2  | 656.8  | 650.6  | 650.6  | 643.4  | 633.0  |
| 7.5°  | 705.6 | 705.6 | 705.6 | 697.3 | 692.1 | 685.9  | 671.4  | 653.7  | 652.7  | 645.4  | 630.9  |
| 10°   | 705.6 | 705.6 | 709.8 | 697.3 | 693.2 | 686.9  | 678.6  | 660.0  | 657.9  | 641.3  | 621.6  |
| 12.5° | 718.1 | 720.1 | 718.1 | 704.6 | 700.4 | 695.2  | 683.8  | 668.3  | 667.2  | 645.4  | 617.4  |
| 15°   | 735.7 | 736.7 | 733.6 | 724.3 | 720.1 | 711.8  | 698.4  | 681.8  | 679.7  | 653.7  | 620.5  |
| 17.5° | 739.9 | 740.9 | 743.0 | 731.6 | 731.6 | 728.4  | 721.2  | 701.5  | 696.3  | 673.4  | 629.9  |
| 20°   | 737.8 | 738.8 | 741.9 | 739.9 | 740.9 | 738.8  | 744.0  | 727.4  | 721.2  | 696.3  | 644.4  |
| 22.5° | 747.1 | 749.2 | 755.4 | 756.5 | 760.6 | 764.8  | 766.8  | 767.9  | 763.7  | 734.7  | 674.5  |
| 25°   | 750.2 | 756.5 | 764.8 | 776.2 | 790.7 | 799.0  | 810.4  | 821.8  | 820.8  | 791.7  | 724.3  |
| 27.5° | 735.7 | 743.0 | 768.9 | 786.6 | 818.7 | 841.6  | 867.5  | 883.1  | 883.1  | 859.2  | 781.4  |
| 30°   | 749.2 | 752.3 | 765.8 | 790.7 | 828.1 | 879.9  | 920.4  | 940.1  | 942.2  | 926.6  | 837.4  |
| 32.5° | 721.2 | 728.4 | 761.7 | 809.4 | 866.5 | 923.5  | 964.0  | 1006.5 | 1008.6 | 1003.4 | 919.4  |
| 35°   | 718.1 | 722.2 | 740.9 | 791.7 | 865.4 | 964.0  | 1018.0 | 1071.9 | 1077.1 | 1083.3 | 999.3  |
| 37.5° | 685.9 | 694.2 | 730.5 | 793.8 | 894.5 | 991.0  | 1063.6 | 1146.6 | 1154.9 | 1174.6 | 1067.8 |
| 40°   | 651.7 | 657.9 | 688.0 | 756.5 | 885.1 | 1025.2 | 1108.2 | 1234.8 | 1245.2 | 1261.8 | 1162.2 |
| 42.5° | 605.0 | 617.4 | 669.3 | 740.9 | 881.0 | 1035.6 | 1158.0 | 1315.8 | 1319.9 | 1349.0 | 1236.9 |
| 45°   | 561.4 | 565.5 | 605.0 | 686.9 | 844.7 | 1051.2 | 1195.4 | 1407.1 | 1410.2 | 1428.9 | 1299.2 |
| 47.5° | 526.1 | 531.3 | 571.8 | 641.3 | 811.5 | 1047.0 | 1232.8 | 1495.3 | 1509.8 | 1530.6 | 1374.9 |
| 50°   | 417.1 | 428.6 | 535.4 | 601.9 | 754.4 | 1039.7 | 1262.8 | 1601.1 | 1617.7 | 1637.4 | 1455.9 |
| 52.5° | 360.1 | 365.3 | 419.2 | 562.4 | 698.4 | 1008.6 | 1290.9 | 1709.0 | 1728.8 | 1718.4 | 1558.6 |
| 55°   | 335.2 | 338.3 | 363.2 | 484.6 | 648.5 | 949.5  | 1311.6 | 1809.7 | 1830.5 | 1780.6 | 1639.5 |
| 57.5° | 317.5 | 321.7 | 336.2 | 396.4 | 592.5 | 845.7  | 1313.7 | 1868.8 | 1876.1 | 1832.5 | 1672.7 |
| 60°   | 293.7 | 296.8 | 317.5 | 346.6 | 527.1 | 736.7  | 1276.3 | 1894.8 | 1929.0 | 1887.5 | 1747.4 |
| 62.5° | 276.0 | 279.1 | 292.6 | 314.4 | 463.8 | 649.6  | 1172.6 | 1975.7 | 1998.6 | 1942.5 | 1775.5 |
| 65°   | 255.3 | 255.3 | 268.8 | 290.5 | 423.4 | 596.7  | 1118.6 | 1949.8 | 1900.0 | 1927.0 | 1809.7 |
| 67.5° | 225.2 | 227.3 | 240.7 | 258.4 | 354.9 | 545.8  | 985.8  | 1829.4 | 1777.5 | 1852.2 | 1719.4 |
| 70°   | 200.3 | 198.2 | 212.7 | 226.2 | 290.5 | 481.5  | 816.6  | 1704.9 | 1747.4 | 1739.1 | 1636.4 |
| 72.5° | 167.1 | 165.0 | 177.4 | 192.0 | 234.5 | 399.5  | 645.4  | 1582.5 | 1607.4 | 1555.5 | 1451.7 |
| 75°   | 129.7 | 117.3 | 134.9 | 153.6 | 184.7 | 316.5  | 457.6  | 1310.6 | 1404.0 | 1466.2 | 1237.9 |
| 77.5° | 20.8  | 20.8  | 25.9  | 36.3  | 60.2  | 160.8  | 204.4  | 720.1  | 826.0  | 1248.3 | 1085.4 |
| 80°   | 16.6  | 16.6  | 18.7  | 24.9  | 36.3  | 88.2   | 68.5   | 223.1  | 249.0  | 538.6  | 624.7  |
| 82.5° | 9.3   | 9.3   | 13.5  | 16.6  | 22.8  | 27.0   | 30.1   | 109.0  | 121.4  | 190.9  | 241.8  |
| 85°   | 5.2   | 5.2   | 7.3   | 8.3   | 9.3   | 9.3    | 9.3    | 49.8   | 56.0   | 101.7  | 110.0  |
| 87.5° | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 2.1    | 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°    | 638.2  | 638.2  | 638.2 | 638.2 | 638.2 | 638.2 | 638.2 | 638.2 | 638.2 | 638.2 | 638.2 |
| 2.5°  | 631.9  | 628.8  | 623.6 | 619.5 | 616.4 | 613.3 | 608.1 | 605.0 | 605.0 | 610.2 | 611.2 |
| 5°    | 626.8  | 619.5  | 610.2 | 606.0 | 600.8 | 595.6 | 587.3 | 583.2 | 582.1 | 585.2 | 587.3 |
| 7.5°  | 622.6  | 612.2  | 602.9 | 592.5 | 576.9 | 563.5 | 556.2 | 551.0 | 553.1 | 558.3 | 556.2 |
| 10°   | 610.2  | 600.8  | 586.3 | 570.7 | 552.0 | 540.6 | 529.2 | 523.0 | 524.0 | 527.1 | 524.0 |
| 12.5° | 605.0  | 592.5  | 568.6 | 550.0 | 533.4 | 511.6 | 497.0 | 487.7 | 487.7 | 492.9 | 492.9 |
| 15°   | 605.0  | 586.3  | 554.1 | 531.3 | 505.3 | 483.6 | 467.0 | 458.7 | 463.8 | 460.7 | 458.7 |
| 17.5° | 610.2  | 581.1  | 544.8 | 506.4 | 475.3 | 453.5 | 433.7 | 422.3 | 425.4 | 427.5 | 425.4 |
| 20°   | 616.4  | 581.1  | 533.4 | 486.7 | 450.4 | 419.2 | 397.4 | 385.0 | 383.9 | 385.0 | 387.1 |
| 22.5° | 637.1  | 594.6  | 526.1 | 474.2 | 419.2 | 389.1 | 367.3 | 345.5 | 344.5 | 343.5 | 345.5 |
| 25°   | 672.4  | 619.5  | 531.3 | 451.4 | 401.6 | 357.0 | 330.0 | 311.3 | 305.1 | 304.0 | 306.1 |
| 27.5° | 730.5  | 663.1  | 539.6 | 448.3 | 369.4 | 328.9 | 295.7 | 275.0 | 268.8 | 270.8 | 269.8 |
| 30°   | 793.8  | 719.1  | 563.5 | 426.5 | 350.7 | 287.4 | 256.3 | 238.7 | 232.4 | 228.3 | 229.3 |
| 32.5° | 840.5  | 775.1  | 593.5 | 419.2 | 314.4 | 242.8 | 220.0 | 209.6 | 202.3 | 197.2 | 196.1 |
| 35°   | 914.2  | 822.9  | 620.5 | 402.6 | 282.2 | 213.8 | 195.1 | 183.7 | 179.5 | 176.4 | 176.4 |
| 37.5° | 984.8  | 881.0  | 647.5 | 397.4 | 240.7 | 194.0 | 171.2 | 164.0 | 161.9 | 159.8 | 159.8 |
| 40°   | 1055.3 | 940.1  | 663.1 | 376.7 | 207.5 | 170.2 | 148.4 | 147.3 | 150.5 | 148.4 | 149.4 |
| 42.5° | 1142.5 | 1001.4 | 678.6 | 357.0 | 183.7 | 145.3 | 132.8 | 141.1 | 147.3 | 148.4 | 148.4 |
| 45°   | 1202.7 | 1042.9 | 684.9 | 309.2 | 158.8 | 126.6 | 129.7 | 139.0 | 146.3 | 149.4 | 148.4 |
| 47.5° | 1257.7 | 1098.9 | 675.5 | 251.1 | 138.0 | 123.5 | 128.7 | 134.9 | 145.3 | 149.4 | 149.4 |
| 50°   | 1311.6 | 1145.6 | 667.2 | 185.7 | 130.7 | 124.5 | 128.7 | 131.8 | 143.2 | 147.3 | 147.3 |
| 52.5° | 1387.4 | 1182.9 | 639.2 | 155.7 | 124.5 | 125.6 | 131.8 | 130.7 | 140.1 | 146.3 | 148.4 |
| 55°   | 1492.2 | 1270.1 | 585.2 | 147.3 | 123.5 | 124.5 | 131.8 | 131.8 | 138.0 | 143.2 | 146.3 |
| 57.5° | 1538.9 | 1307.5 | 493.9 | 139.0 | 120.4 | 123.5 | 128.7 | 129.7 | 137.0 | 140.1 | 139.0 |
| 60°   | 1591.8 | 1354.2 | 404.7 | 129.7 | 115.2 | 121.4 | 123.5 | 127.6 | 132.8 | 132.8 | 131.8 |
| 62.5° | 1624.0 | 1365.6 | 337.2 | 119.3 | 109.0 | 114.1 | 114.1 | 118.3 | 122.4 | 122.4 | 122.4 |
| 65°   | 1639.5 | 1354.2 | 252.2 | 110.0 | 101.7 | 105.8 | 104.8 | 106.9 | 110.0 | 104.8 | 104.8 |
| 67.5° | 1578.3 | 1311.6 | 174.3 | 97.5  | 93.4  | 97.5  | 96.5  | 97.5  | 96.5  | 92.4  | 93.4  |
| 70°   | 1473.5 | 1192.3 | 120.4 | 83.0  | 82.0  | 89.2  | 90.3  | 88.2  | 82.0  | 78.9  | 78.9  |
| 72.5° | 1341.7 | 956.7  | 83.0  | 66.4  | 69.5  | 78.9  | 80.9  | 76.8  | 70.6  | 67.4  | 67.4  |
| 75°   | 1217.2 | 827.0  | 59.1  | 45.7  | 46.7  | 60.2  | 64.3  | 64.3  | 62.3  | 83.0  | 88.2  |
| 77.5° | 846.7  | 535.4  | 34.2  | 23.9  | 22.8  | 34.2  | 39.4  | 40.5  | 77.8  | 84.1  | 82.0  |
| 80°   | 502.2  | 252.2  | 24.9  | 14.5  | 14.5  | 19.7  | 27.0  | 52.9  | 89.2  | 60.2  | 54.0  |
| 82.5° | 192.0  | 96.5   | 15.6  | 9.3   | 8.3   | 10.4  | 15.6  | 82.0  | 51.9  | 34.2  | 31.1  |
| 85°   | 69.5   | 23.9   | 7.3   | 5.2   | 5.2   | 6.2   | 9.3   | 69.5  | 36.3  | 25.9  | 24.9  |
| 87.5° | 1.0    | 1.0    | 2.1   | 2.1   | 2.1   | 1.0   | 1.0   | 2.1   | 2.1   | 2.1   | 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)