

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: P156941

Luminaire Tested: **UTLD-E01-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P156941  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33665)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-E01-LED-E-U-5WQ-7050  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (21) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 2899.2 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G1

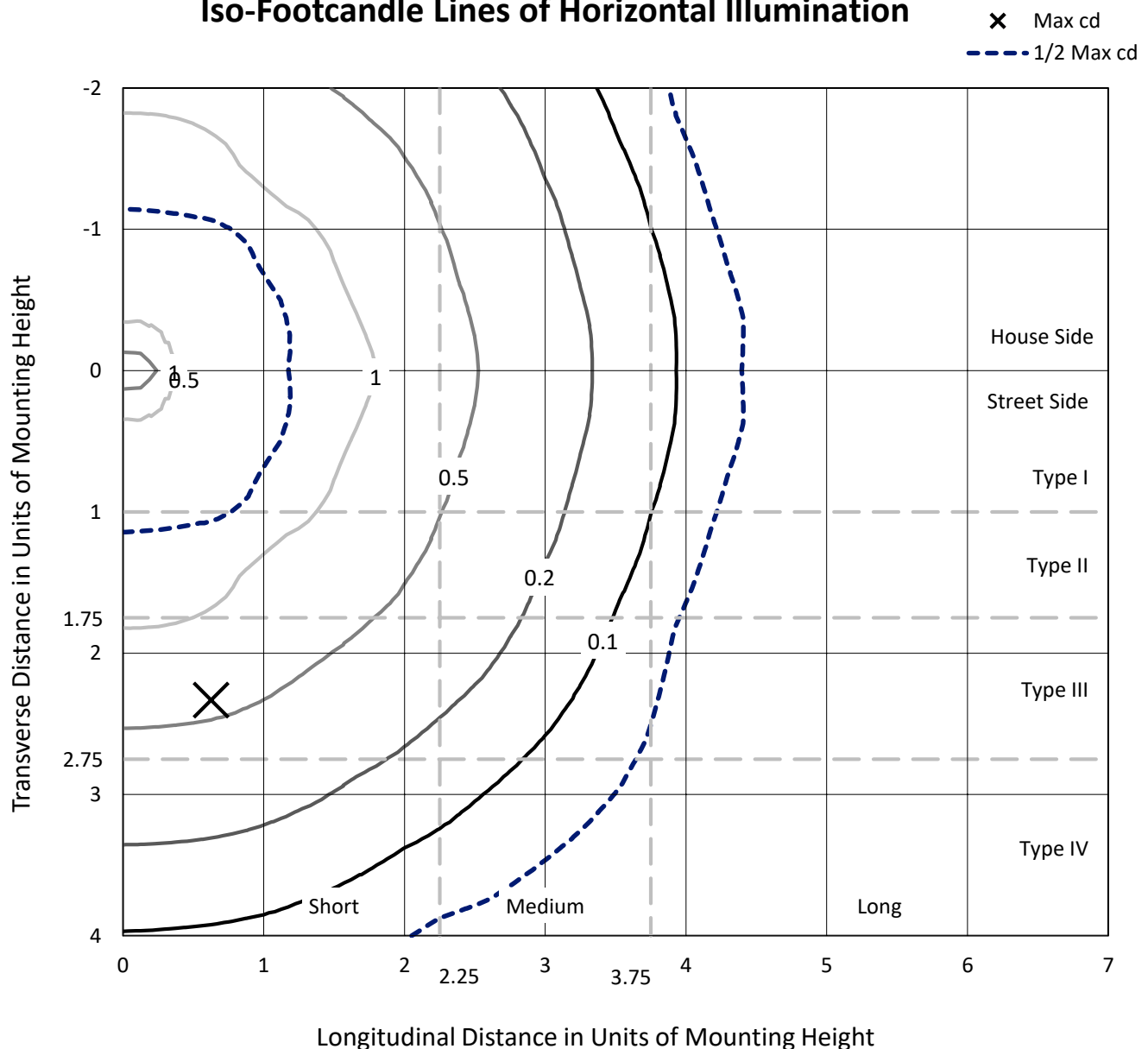
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

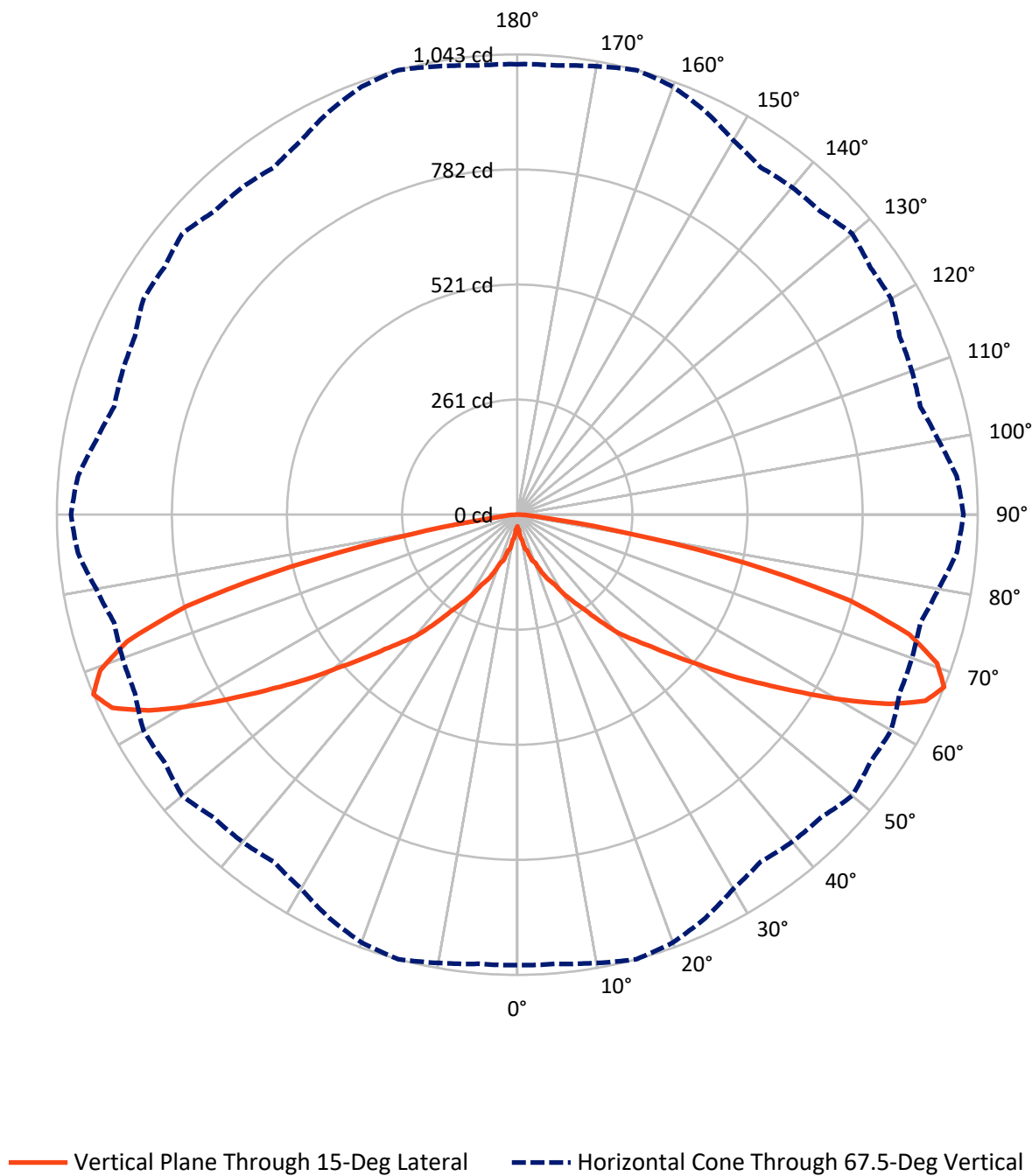


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc  
Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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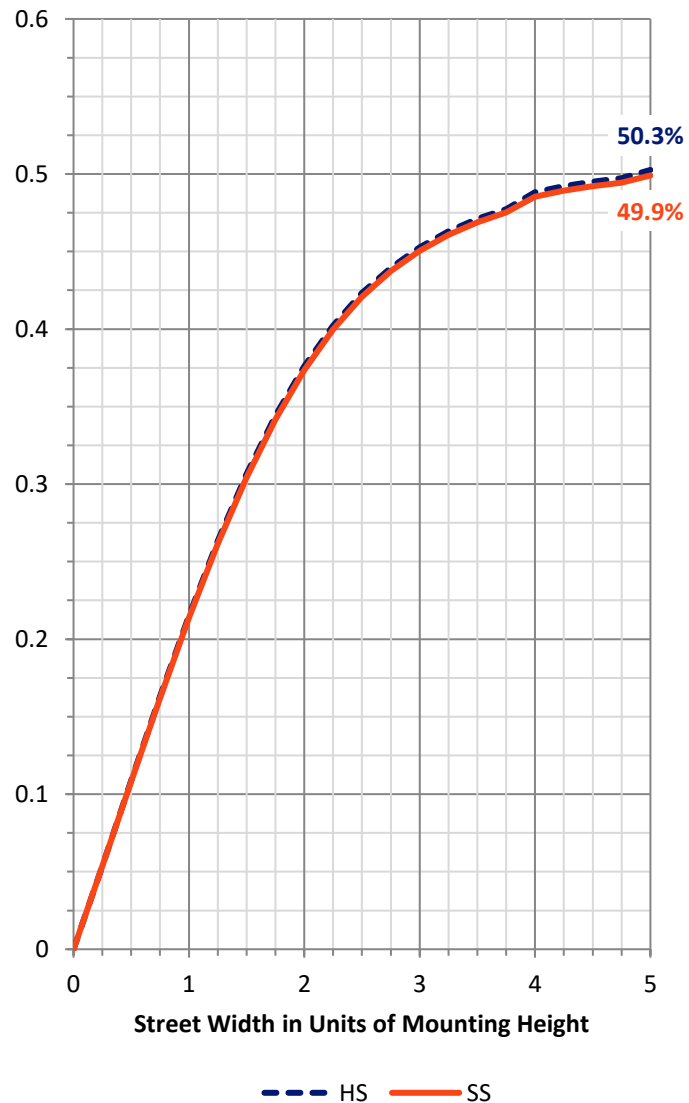
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1449.6   | 0.0    | 1449.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1449.6   | 0.0    | 1449.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2899.2   | 0.0    | 2899.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.9    | 0.1       |
| 10°-20°   | 24.0   | 0.8       |
| 20°-30°   | 79.3   | 2.7       |
| 30°-40°   | 171.6  | 5.9       |
| 40°-50°   | 321.0  | 11.1      |
| 50°-60°   | 582.4  | 20.1      |
| 60°-70°   | 921.2  | 31.8      |
| 70°-80°   | 724.3  | 25.0      |
| 80°-90°   | 71.6   | 2.5       |
| 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°    | 2899.2 | 100.0     |
| 0°-180°   | 2899.2 | 100.0     |

**Coefficient of Utilization**



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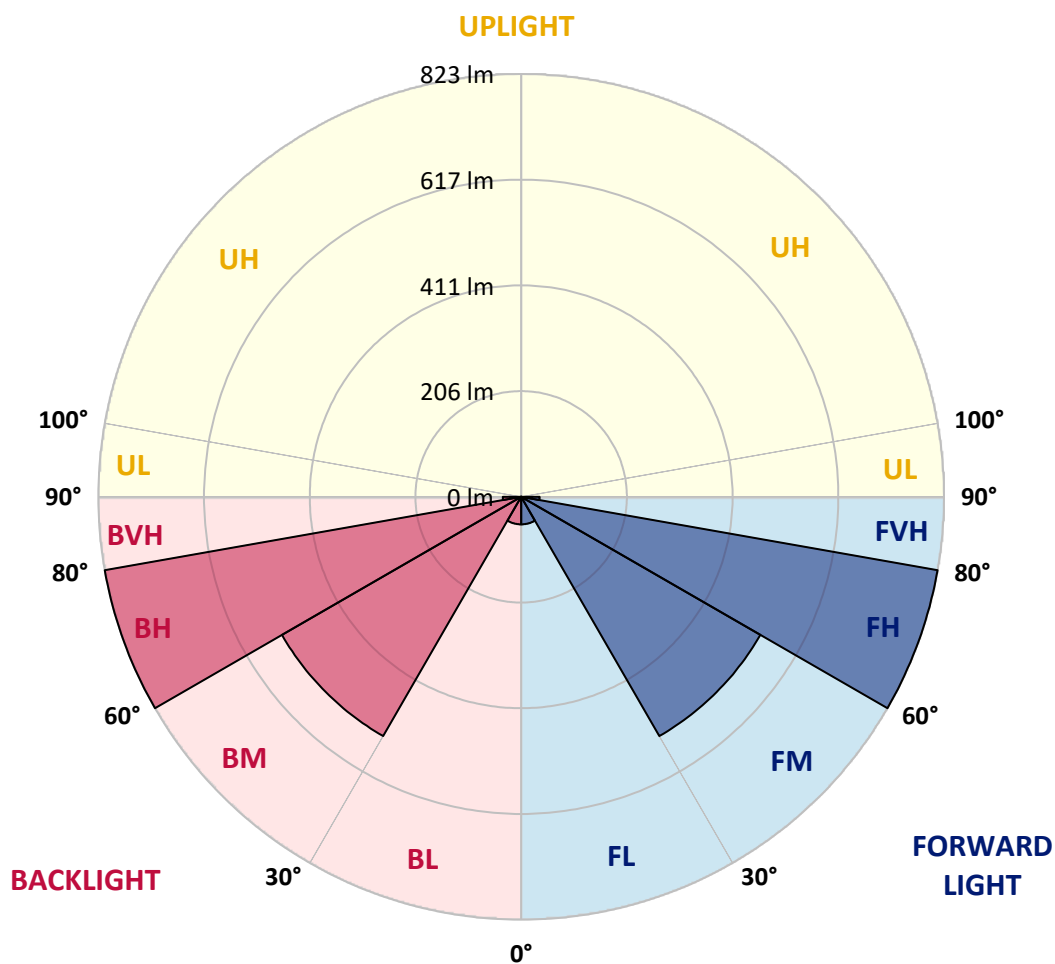
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 53.6   | 1.8       |                         |      |         |
| FM   | (30°-60°)   | 537.5  | 18.5      |                         |      |         |
| FH   | (60°-80°)   | 822.8  | 28.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 35.8   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 53.6   | 1.8       | B0/110                  |      |         |
| BM   | (30°-60°)   | 537.5  | 18.5      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 822.8  | 28.4      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 35.8   | 1.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0°    | 26.7   | 26.7   | 26.7   | 26.7   | 26.7   | 26.7   | 26.7  | 26.7  | 26.7  | 26.7  | 26.7  |
| 2.5°  | 41.8   | 41.7   | 41.7   | 41.7   | 42.2   | 40.9   | 39.0  | 37.6  | 36.7  | 36.6  | 35.6  |
| 5°    | 33.1   | 33.0   | 33.0   | 33.1   | 33.0   | 33.3   | 33.2  | 34.1  | 34.0  | 36.3  | 39.4  |
| 7.5°  | 53.1   | 53.4   | 53.2   | 52.6   | 51.3   | 47.6   | 44.8  | 42.5  | 35.6  | 34.8  | 33.7  |
| 10°   | 57.4   | 57.4   | 57.5   | 56.6   | 56.7   | 56.7   | 56.2  | 55.2  | 54.4  | 52.7  | 44.9  |
| 12.5° | 79.5   | 79.8   | 79.9   | 79.4   | 77.7   | 70.0   | 67.9  | 60.4  | 58.8  | 68.9  | 71.0  |
| 15°   | 86.0   | 86.3   | 86.1   | 84.6   | 84.2   | 83.2   | 81.8  | 88.0  | 89.9  | 82.1  | 76.3  |
| 17.5° | 110.0  | 110.4  | 109.9  | 109.0  | 106.8  | 100.2  | 102.2 | 100.3 | 99.2  | 97.4  | 103.1 |
| 20°   | 126.8  | 127.5  | 121.8  | 116.6  | 113.4  | 118.5  | 124.6 | 122.1 | 115.3 | 116.1 | 119.4 |
| 22.5° | 144.7  | 144.7  | 144.2  | 141.5  | 141.5  | 148.3  | 137.0 | 134.7 | 143.0 | 133.1 | 129.4 |
| 25°   | 174.7  | 173.9  | 172.4  | 162.0  | 158.6  | 157.9  | 155.7 | 160.4 | 153.9 | 167.0 | 174.7 |
| 27.5° | 185.8  | 185.0  | 181.1  | 177.9  | 186.2  | 183.5  | 180.3 | 168.1 | 193.6 | 181.1 | 185.2 |
| 30°   | 214.4  | 214.4  | 211.1  | 209.0  | 210.9  | 198.7  | 194.6 | 209.0 | 204.8 | 206.5 | 225.0 |
| 32.5° | 251.9  | 252.2  | 247.8  | 235.6  | 224.5  | 226.6  | 224.7 | 225.7 | 232.2 | 230.5 | 241.3 |
| 35°   | 293.2  | 282.8  | 275.8  | 266.5  | 260.2  | 257.4  | 253.7 | 245.6 | 255.0 | 252.9 | 264.1 |
| 37.5° | 317.4  | 318.4  | 312.6  | 307.2  | 303.1  | 285.1  | 277.4 | 280.6 | 281.0 | 275.8 | 295.1 |
| 40°   | 367.0  | 367.6  | 359.2  | 352.8  | 346.2  | 323.4  | 311.0 | 307.9 | 308.8 | 309.5 | 323.1 |
| 42.5° | 399.9  | 399.9  | 393.3  | 387.6  | 376.1  | 361.1  | 348.5 | 342.2 | 343.6 | 342.1 | 356.7 |
| 45°   | 438.6  | 439.4  | 434.2  | 427.1  | 414.7  | 406.1  | 387.5 | 383.1 | 383.6 | 381.2 | 397.3 |
| 47.5° | 488.0  | 487.8  | 485.7  | 477.9  | 467.6  | 452.8  | 439.8 | 429.0 | 430.2 | 428.6 | 445.5 |
| 50°   | 545.6  | 545.6  | 544.3  | 534.5  | 528.4  | 512.7  | 495.8 | 482.5 | 481.9 | 482.0 | 501.1 |
| 52.5° | 610.0  | 610.8  | 612.7  | 605.9  | 596.8  | 575.0  | 554.9 | 540.9 | 540.1 | 541.5 | 564.0 |
| 55°   | 681.8  | 685.4  | 684.9  | 677.4  | 671.6  | 647.1  | 620.3 | 607.1 | 603.5 | 606.3 | 628.6 |
| 57.5° | 762.4  | 764.2  | 766.2  | 760.3  | 746.2  | 724.3  | 687.9 | 677.0 | 671.1 | 676.8 | 700.3 |
| 60°   | 851.6  | 855.9  | 855.4  | 852.6  | 836.5  | 812.4  | 762.6 | 752.3 | 748.9 | 751.8 | 777.5 |
| 62.5° | 945.6  | 945.7  | 951.1  | 944.9  | 929.6  | 905.7  | 849.1 | 830.9 | 826.1 | 828.4 | 856.2 |
| 65°   | 1011.2 | 1012.0 | 1018.0 | 1016.6 | 1004.8 | 979.0  | 937.4 | 907.1 | 907.6 | 910.5 | 936.2 |
| 67.5° | 1020.7 | 1021.6 | 1031.5 | 1042.9 | 1031.6 | 1008.3 | 978.9 | 960.6 | 968.4 | 971.4 | 990.6 |
| 70°   | 982.5  | 984.4  | 996.2  | 1008.6 | 1006.2 | 988.4  | 962.2 | 955.8 | 963.6 | 970.2 | 988.3 |
| 72.5° | 907.6  | 908.6  | 917.3  | 928.6  | 919.6  | 904.1  | 874.2 | 885.0 | 883.9 | 892.4 | 910.3 |
| 75°   | 770.4  | 766.8  | 775.6  | 778.6  | 763.3  | 747.3  | 722.7 | 740.2 | 732.6 | 740.0 | 749.1 |
| 77.5° | 517.6  | 514.0  | 517.5  | 530.2  | 519.5  | 517.9  | 511.5 | 531.1 | 534.4 | 539.0 | 539.6 |
| 80°   | 200.1  | 207.2  | 225.3  | 245.4  | 251.2  | 266.4  | 278.7 | 301.2 | 316.2 | 328.5 | 322.2 |
| 82.5° | 39.5   | 43.3   | 52.4   | 63.6   | 76.2   | 91.6   | 110.2 | 129.3 | 147.9 | 157.6 | 149.9 |
| 85°   | 14.4   | 17.3   | 21.9   | 25.8   | 27.2   | 29.2   | 32.7  | 39.4  | 45.9  | 47.2  | 47.7  |
| 87.5° | 3.8    | 6.7    | 12.4   | 16.8   | 16.9   | 15.3   | 16.2  | 16.9  | 14.9  | 11.8  | 16.0  |
| 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°    | 26.7  | 26.7  | 26.7  | 26.7  | 26.7  | 26.7  | 26.7  | 26.7   |
| 2.5°  | 34.6  | 32.1  | 29.5  | 28.1  | 27.6  | 27.1  | 26.7  | 26.4   |
| 5°    | 40.0  | 41.6  | 39.8  | 36.5  | 32.1  | 29.5  | 27.7  | 27.2   |
| 7.5°  | 34.1  | 34.1  | 39.4  | 41.2  | 36.6  | 32.7  | 28.8  | 28.2   |
| 10°   | 38.5  | 42.1  | 45.9  | 50.2  | 56.7  | 51.3  | 43.2  | 41.8   |
| 12.5° | 69.9  | 59.4  | 50.9  | 50.9  | 57.7  | 58.3  | 46.8  | 45.4   |
| 15°   | 74.2  | 74.6  | 78.0  | 70.8  | 69.4  | 75.3  | 67.2  | 64.6   |
| 17.5° | 94.0  | 92.7  | 90.4  | 79.8  | 74.4  | 76.3  | 77.2  | 74.6   |
| 20°   | 109.3 | 103.8 | 129.2 | 131.6 | 120.2 | 120.6 | 118.6 | 116.4  |
| 22.5° | 150.7 | 151.9 | 142.6 | 142.4 | 133.7 | 148.8 | 163.8 | 157.2  |
| 25°   | 159.2 | 167.4 | 195.4 | 190.9 | 185.4 | 177.7 | 181.6 | 172.4  |
| 27.5° | 207.3 | 202.1 | 207.5 | 202.1 | 216.6 | 209.5 | 205.1 | 202.9  |
| 30°   | 217.8 | 227.2 | 232.7 | 228.4 | 229.5 | 228.4 | 221.0 | 224.7  |
| 32.5° | 249.1 | 244.9 | 253.3 | 260.2 | 264.9 | 265.9 | 253.3 | 260.6  |
| 35°   | 269.9 | 280.8 | 279.8 | 277.4 | 279.6 | 283.7 | 277.1 | 277.3  |
| 37.5° | 298.6 | 301.3 | 299.1 | 298.5 | 299.6 | 301.9 | 303.0 | 299.1  |
| 40°   | 324.9 | 326.8 | 325.2 | 327.4 | 329.2 | 330.3 | 339.0 | 325.6  |
| 42.5° | 361.8 | 359.0 | 361.4 | 364.6 | 363.9 | 363.8 | 371.7 | 364.5  |
| 45°   | 403.4 | 402.7 | 400.8 | 402.9 | 407.9 | 400.4 | 413.0 | 411.0  |
| 47.5° | 451.6 | 451.6 | 448.3 | 450.2 | 458.3 | 452.6 | 463.7 | 467.1  |
| 50°   | 507.7 | 509.1 | 499.8 | 505.0 | 507.0 | 508.3 | 519.0 | 528.4  |
| 52.5° | 570.4 | 571.7 | 558.8 | 561.8 | 560.2 | 570.0 | 581.6 | 596.4  |
| 55°   | 638.6 | 636.4 | 620.4 | 625.8 | 626.4 | 643.2 | 650.4 | 674.6  |
| 57.5° | 706.6 | 706.0 | 694.9 | 694.8 | 704.7 | 722.3 | 728.3 | 755.4  |
| 60°   | 781.5 | 781.6 | 768.0 | 771.1 | 780.2 | 797.4 | 820.3 | 843.0  |
| 62.5° | 859.0 | 864.7 | 853.0 | 844.1 | 854.1 | 876.3 | 910.7 | 928.1  |
| 65°   | 928.4 | 940.0 | 920.9 | 920.8 | 909.4 | 945.8 | 972.5 | 994.0  |
| 67.5° | 976.4 | 977.8 | 955.6 | 951.3 | 945.2 | 968.6 | 998.9 | 1010.8 |
| 70°   | 976.3 | 960.7 | 938.9 | 935.7 | 925.4 | 934.5 | 971.2 | 978.2  |
| 72.5° | 898.8 | 881.8 | 852.0 | 857.2 | 845.5 | 858.3 | 887.3 | 890.6  |
| 75°   | 737.2 | 714.5 | 694.3 | 702.5 | 696.1 | 719.3 | 744.3 | 738.8  |
| 77.5° | 525.8 | 497.8 | 471.4 | 471.1 | 471.8 | 477.5 | 494.8 | 486.8  |
| 80°   | 303.4 | 276.6 | 251.2 | 235.4 | 219.2 | 206.1 | 198.4 | 188.3  |
| 82.5° | 133.5 | 107.5 | 87.8  | 70.8  | 60.2  | 48.7  | 42.7  | 36.7   |
| 85°   | 42.2  | 34.5  | 29.5  | 26.9  | 24.6  | 23.0  | 20.0  | 17.2   |
| 87.5° | 19.0  | 18.6  | 17.4  | 17.9  | 18.0  | 15.5  | 10.8  | 8.7    |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |

(END OF REPORT)