

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: P161551

Luminaire Tested: **OVF-F01-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P161551  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33697)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: OVF-F01-LED-E-U-5MQ-7030  
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (7) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2343.2 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

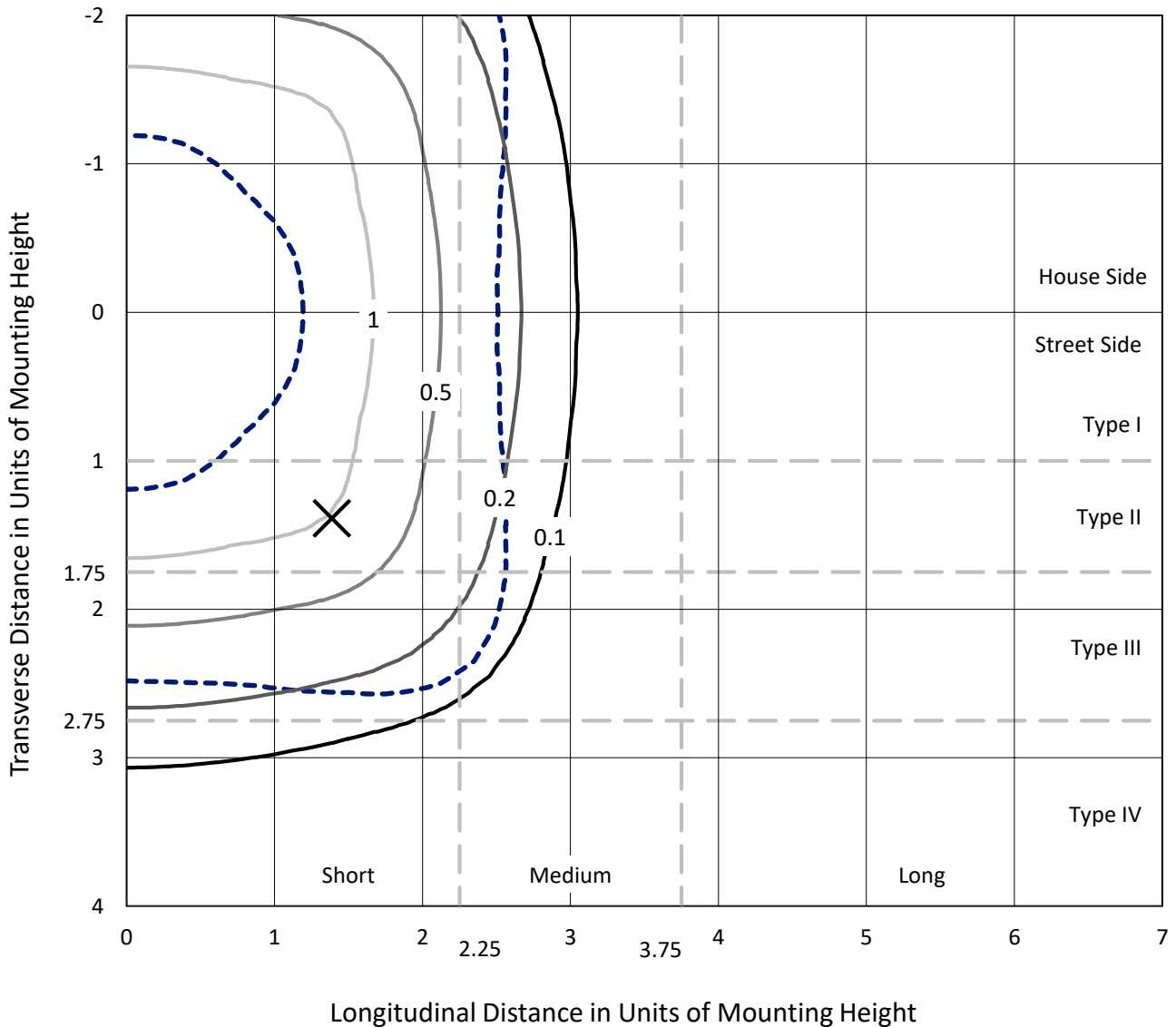
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

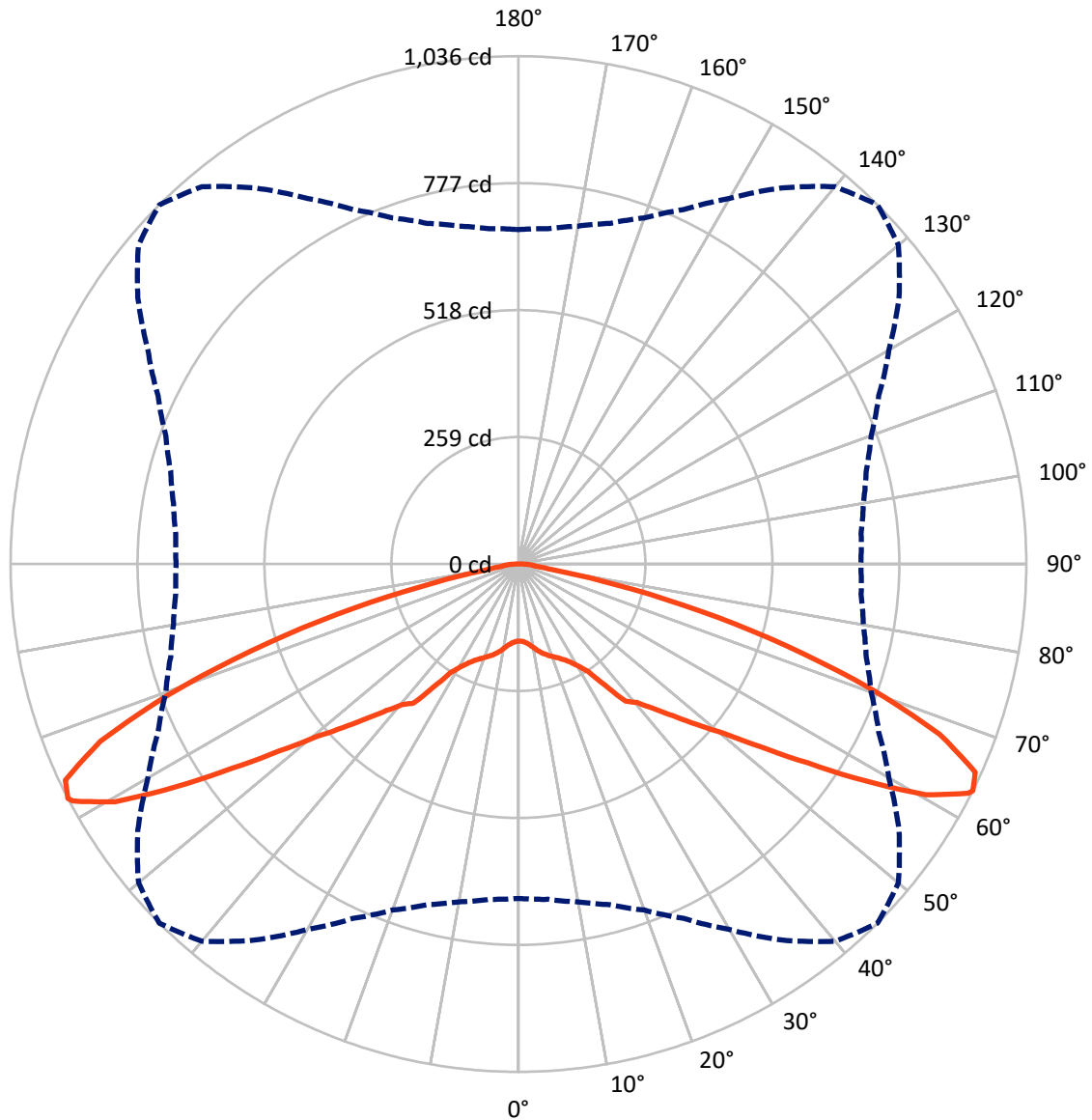
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1171.6   | 0.0    | 1171.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1171.6   | 0.0    | 1171.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2343.2   | 0.0    | 2343.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.8   | 0.7       |
| 10°-20°   | 54.1   | 2.3       |
| 20°-30°   | 103.3  | 4.4       |
| 30°-40°   | 196.8  | 8.4       |
| 40°-50°   | 339.0  | 14.5      |
| 50°-60°   | 605.7  | 25.8      |
| 60°-70°   | 737.8  | 31.5      |
| 70°-80°   | 262.8  | 11.2      |
| 80°-90°   | 27.9   | 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°    | 2343.2 | 100.0     |
| 0°-180°   | 2343.2 | 100.0     |



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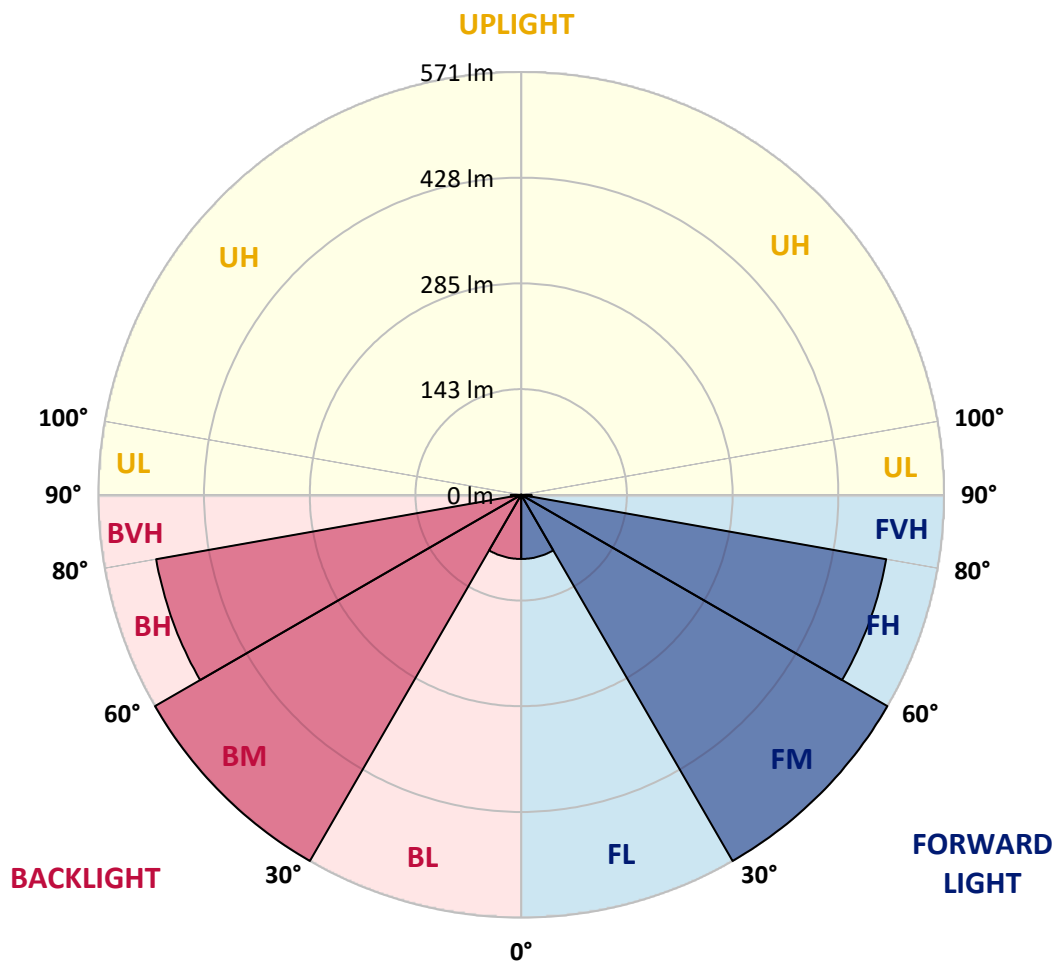
CATALOG NUMBER: OVF-F01-LED-E-U-5MQ-7030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 86.6   | 3.7       |                         |      |        |
| FM   | (30°-60°)   | 570.7  | 24.4      |                         |      |        |
| FH   | (60°-80°)   | 500.3  | 21.4      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 13.9   | 0.6       |                         |      | G1/100 |
| BL   | (0°-30°)    | 86.6   | 3.7       | B0/110                  |      |        |
| BM   | (30°-60°)   | 570.7  | 24.4      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 500.3  | 21.4      | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 13.9   | 0.6       |                         |      | 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°    | 157.3 | 157.3 | 157.3 | 157.3 | 157.3 | 157.3 | 157.3 | 157.3 | 157.3  | 157.3  | 157.3  |
| 2.5°  | 158.5 | 158.3 | 158.5 | 158.2 | 158.2 | 158.0 | 158.0 | 158.0 | 157.7  | 158.0  | 157.7  |
| 5°    | 161.8 | 161.7 | 161.8 | 161.5 | 161.5 | 161.2 | 161.2 | 161.2 | 160.9  | 161.2  | 161.1  |
| 7.5°  | 167.5 | 167.8 | 167.5 | 167.2 | 167.2 | 166.9 | 166.8 | 166.8 | 166.6  | 166.5  | 166.8  |
| 10°   | 175.5 | 175.8 | 175.4 | 175.1 | 174.9 | 174.8 | 174.5 | 174.3 | 174.3  | 173.7  | 173.9  |
| 12.5° | 184.0 | 184.0 | 183.5 | 183.4 | 183.4 | 183.1 | 182.5 | 182.3 | 182.3  | 182.0  | 181.7  |
| 15°   | 191.5 | 191.5 | 191.2 | 190.6 | 190.8 | 190.3 | 189.9 | 189.6 | 189.6  | 189.3  | 189.0  |
| 17.5° | 198.5 | 198.5 | 198.0 | 197.4 | 197.1 | 196.9 | 196.3 | 196.0 | 196.0  | 195.7  | 195.4  |
| 20°   | 205.4 | 205.7 | 204.9 | 204.3 | 203.7 | 203.1 | 202.5 | 202.2 | 201.8  | 201.9  | 201.8  |
| 22.5° | 213.7 | 213.8 | 212.6 | 211.9 | 210.7 | 209.9 | 209.0 | 208.7 | 208.1  | 208.1  | 208.4  |
| 25°   | 224.2 | 224.1 | 222.7 | 221.4 | 220.0 | 218.5 | 217.2 | 216.8 | 216.2  | 216.1  | 216.2  |
| 27.5° | 238.1 | 238.0 | 236.3 | 234.5 | 232.7 | 230.4 | 228.8 | 227.9 | 227.4  | 226.8  | 227.1  |
| 30°   | 255.2 | 255.5 | 253.5 | 251.4 | 249.1 | 246.4 | 244.3 | 243.1 | 242.2  | 241.6  | 241.9  |
| 32.5° | 289.8 | 289.5 | 286.5 | 282.0 | 277.2 | 270.8 | 265.7 | 263.6 | 261.9  | 261.3  | 261.8  |
| 35°   | 324.7 | 324.4 | 323.2 | 321.8 | 320.6 | 316.5 | 312.8 | 308.4 | 304.8  | 302.5  | 303.1  |
| 37.5° | 341.1 | 341.1 | 340.2 | 339.9 | 339.9 | 342.3 | 345.3 | 350.8 | 355.0  | 355.3  | 353.9  |
| 40°   | 366.7 | 366.7 | 365.2 | 364.5 | 364.0 | 364.8 | 366.7 | 368.7 | 370.8  | 371.3  | 369.8  |
| 42.5° | 396.9 | 395.5 | 394.5 | 393.0 | 392.8 | 393.6 | 395.7 | 398.1 | 400.2  | 402.0  | 398.9  |
| 45°   | 429.5 | 428.3 | 427.2 | 426.3 | 426.9 | 428.9 | 431.7 | 436.0 | 439.0  | 441.7  | 439.1  |
| 47.5° | 465.8 | 463.3 | 464.3 | 463.4 | 464.9 | 468.8 | 474.0 | 480.3 | 483.5  | 488.3  | 484.2  |
| 50°   | 511.1 | 511.7 | 511.1 | 511.1 | 512.9 | 518.0 | 525.5 | 534.1 | 539.6  | 542.3  | 539.9  |
| 52.5° | 578.3 | 576.5 | 572.4 | 573.6 | 576.1 | 584.2 | 594.0 | 606.1 | 613.0  | 619.5  | 611.9  |
| 55°   | 651.9 | 652.2 | 651.6 | 653.3 | 657.9 | 666.2 | 678.6 | 696.8 | 705.6  | 716.9  | 707.8  |
| 57.5° | 712.8 | 714.9 | 718.6 | 723.5 | 733.6 | 747.5 | 771.8 | 799.7 | 822.9  | 835.1  | 820.9  |
| 60°   | 732.6 | 734.7 | 743.4 | 757.3 | 776.3 | 804.7 | 844.0 | 891.8 | 933.6  | 955.3  | 936.8  |
| 62.5° | 694.6 | 698.5 | 711.5 | 730.6 | 762.0 | 806.3 | 864.8 | 935.6 | 999.9  | 1029.7 | 1007.2 |
| 63°   | 682.2 | 686.6 | 699.9 | 719.3 | 751.3 | 797.6 | 860.8 | 936.5 | 1004.6 | 1036.0 | 1011.7 |
| 65°   | 627.3 | 630.2 | 644.2 | 666.4 | 702.0 | 750.2 | 820.5 | 910.1 | 987.7  | 1024.1 | 998.3  |
| 67.5° | 540.9 | 544.7 | 557.5 | 576.7 | 611.2 | 662.3 | 731.4 | 820.6 | 897.1  | 926.2  | 904.2  |
| 70°   | 433.8 | 438.1 | 448.6 | 466.4 | 493.6 | 540.9 | 600.0 | 683.4 | 740.9  | 763.6  | 740.1  |
| 72.5° | 304.9 | 306.7 | 314.4 | 333.1 | 353.5 | 391.2 | 438.1 | 502.9 | 558.1  | 573.0  | 550.4  |
| 75°   | 129.1 | 129.2 | 139.3 | 151.3 | 176.7 | 214.3 | 255.2 | 310.9 | 360.6  | 383.8  | 355.1  |
| 77.5° | 41.3  | 41.8  | 44.6  | 49.0  | 57.5  | 74.2  | 104.4 | 135.0 | 180.5  | 202.5  | 175.7  |
| 80°   | 34.5  | 35.1  | 36.3  | 37.2  | 37.9  | 38.8  | 42.2  | 47.0  | 59.3   | 68.9   | 55.6   |
| 82.5° | 29.7  | 30.8  | 33.5  | 34.5  | 35.1  | 35.4  | 35.9  | 35.7  | 35.0   | 34.7   | 34.8   |
| 85°   | 22.6  | 25.2  | 28.2  | 30.6  | 30.9  | 31.1  | 32.0  | 32.3  | 29.9   | 27.4   | 29.9   |
| 87.5° | 9.8   | 12.7  | 19.5  | 21.6  | 21.1  | 19.6  | 21.0  | 22.2  | 20.2   | 14.8   | 19.8   |
| 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°    | 157.3 | 157.3 | 157.3 | 157.3 | 157.3 | 157.3 | 157.3 | 157.3 |
| 2.5°  | 157.9 | 158.2 | 158.2 | 158.2 | 158.2 | 158.3 | 158.5 | 158.3 |
| 5°    | 161.2 | 161.5 | 161.4 | 161.5 | 161.5 | 161.7 | 161.8 | 161.7 |
| 7.5°  | 166.9 | 166.9 | 166.9 | 167.2 | 167.2 | 167.5 | 167.5 | 167.5 |
| 10°   | 174.0 | 173.9 | 173.9 | 174.2 | 174.5 | 174.6 | 174.9 | 174.8 |
| 12.5° | 181.7 | 181.4 | 181.6 | 181.9 | 182.2 | 182.3 | 182.6 | 182.5 |
| 15°   | 188.6 | 188.5 | 188.5 | 189.0 | 189.1 | 189.3 | 189.9 | 189.9 |
| 17.5° | 195.3 | 195.3 | 195.3 | 195.9 | 196.0 | 196.6 | 197.1 | 197.1 |
| 20°   | 201.9 | 201.9 | 201.9 | 202.5 | 203.0 | 203.9 | 204.8 | 204.6 |
| 22.5° | 208.7 | 208.9 | 209.2 | 209.8 | 210.8 | 212.2 | 212.9 | 212.9 |
| 25°   | 217.2 | 217.8 | 218.4 | 219.3 | 220.8 | 222.6 | 223.8 | 224.2 |
| 27.5° | 228.0 | 229.4 | 230.9 | 232.2 | 233.9 | 236.2 | 237.8 | 238.1 |
| 30°   | 242.8 | 244.7 | 247.2 | 249.0 | 251.1 | 253.6 | 255.6 | 256.7 |
| 32.5° | 263.7 | 268.6 | 271.7 | 278.2 | 282.1 | 286.5 | 290.1 | 291.6 |
| 35°   | 306.9 | 311.7 | 315.9 | 320.3 | 321.2 | 322.7 | 324.7 | 325.1 |
| 37.5° | 349.6 | 345.6 | 341.9 | 341.7 | 340.7 | 341.0 | 341.6 | 342.3 |
| 40°   | 368.1 | 366.9 | 364.9 | 365.7 | 365.8 | 365.8 | 367.0 | 367.2 |
| 42.5° | 398.0 | 395.1 | 392.8 | 394.6 | 394.9 | 395.2 | 396.4 | 397.8 |
| 45°   | 436.0 | 431.6 | 428.7 | 427.7 | 428.7 | 428.4 | 430.1 | 430.4 |
| 47.5° | 479.4 | 473.7 | 467.2 | 465.1 | 464.5 | 463.1 | 466.0 | 465.7 |
| 50°   | 532.6 | 523.4 | 515.6 | 512.6 | 511.1 | 510.3 | 511.1 | 511.1 |
| 52.5° | 600.0 | 590.8 | 580.1 | 576.7 | 575.4 | 577.1 | 574.7 | 577.3 |
| 55°   | 692.8 | 677.8 | 663.2 | 658.5 | 657.8 | 657.0 | 657.3 | 658.4 |
| 57.5° | 797.1 | 770.6 | 751.0 | 739.5 | 732.1 | 728.5 | 724.6 | 724.0 |
| 60°   | 897.9 | 849.6 | 812.4 | 787.0 | 769.1 | 755.5 | 748.6 | 746.2 |
| 62.5° | 946.4 | 875.8 | 817.9 | 774.8 | 748.1 | 725.9 | 713.7 | 710.6 |
| 63°   | 947.8 | 872.5 | 811.1 | 765.6 | 734.5 | 714.6 | 701.7 | 698.3 |
| 65°   | 922.6 | 836.9 | 765.0 | 714.9 | 682.1 | 661.3 | 645.3 | 641.8 |
| 67.5° | 830.9 | 747.8 | 674.2 | 623.4 | 587.8 | 571.1 | 553.4 | 553.0 |
| 70°   | 681.9 | 607.7 | 545.7 | 499.0 | 469.3 | 452.7 | 434.8 | 435.2 |
| 72.5° | 498.5 | 432.6 | 390.0 | 353.5 | 322.1 | 306.4 | 289.5 | 291.2 |
| 75°   | 300.1 | 241.3 | 202.8 | 171.2 | 138.9 | 119.6 | 106.6 | 99.2  |
| 77.5° | 128.3 | 87.8  | 63.0  | 50.1  | 42.2  | 39.1  | 37.5  | 37.1  |
| 80°   | 44.6  | 39.5  | 37.2  | 36.6  | 36.2  | 35.6  | 34.5  | 33.5  |
| 82.5° | 36.2  | 36.2  | 35.0  | 34.8  | 33.5  | 32.4  | 29.7  | 28.4  |
| 85°   | 32.1  | 31.5  | 30.5  | 30.0  | 29.7  | 27.4  | 24.0  | 22.2  |
| 87.5° | 21.3  | 19.8  | 18.8  | 19.3  | 18.7  | 16.7  | 10.3  | 8.1   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)