

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: P148206

Luminaire Tested: **VXS-F01-LED-E1-5XQ-7050**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148206  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-F01-LED-E1-5XQ-7050  
Description: VISION SITE SMALL LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (7) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2694 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-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: 25 FT



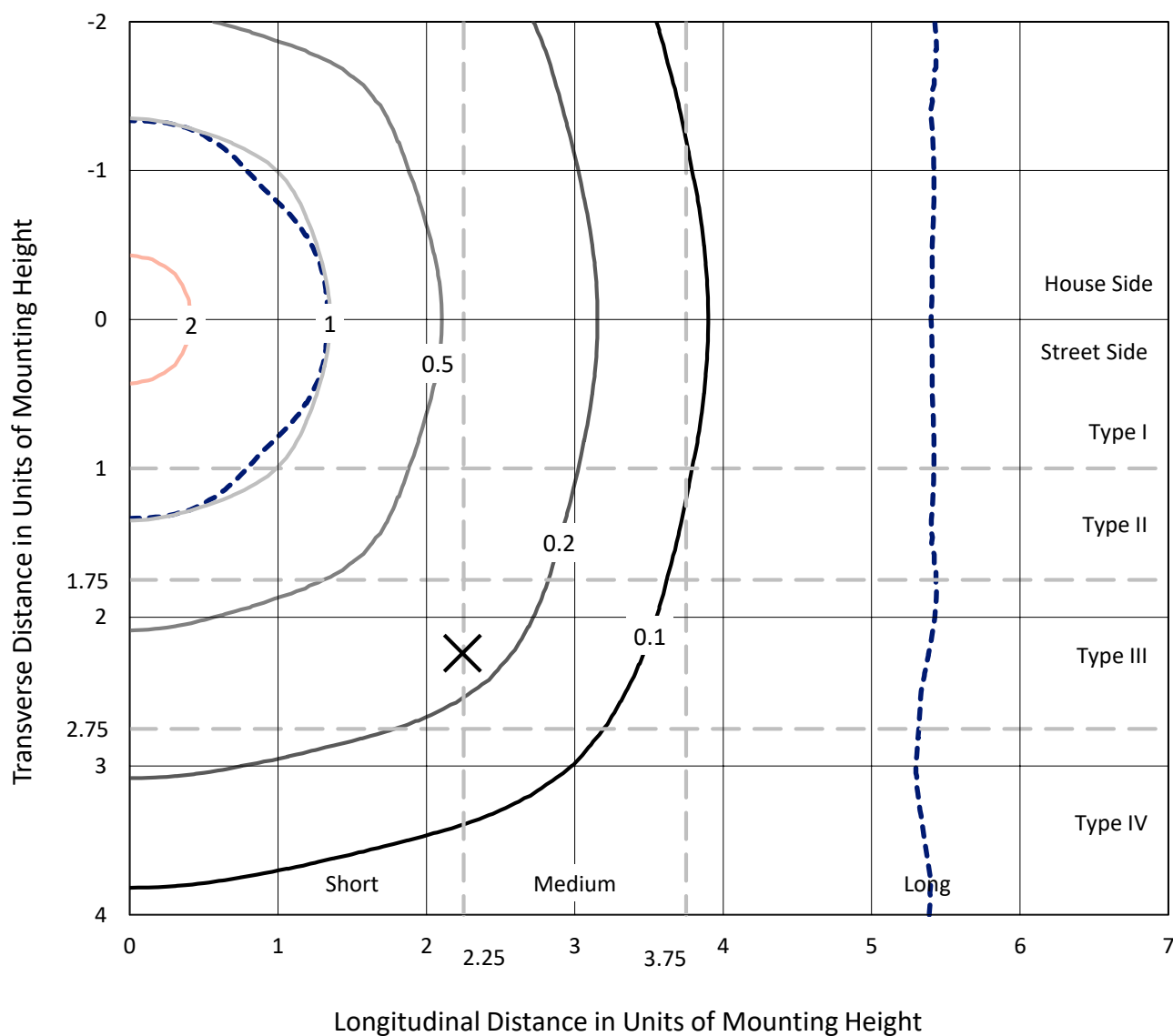
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

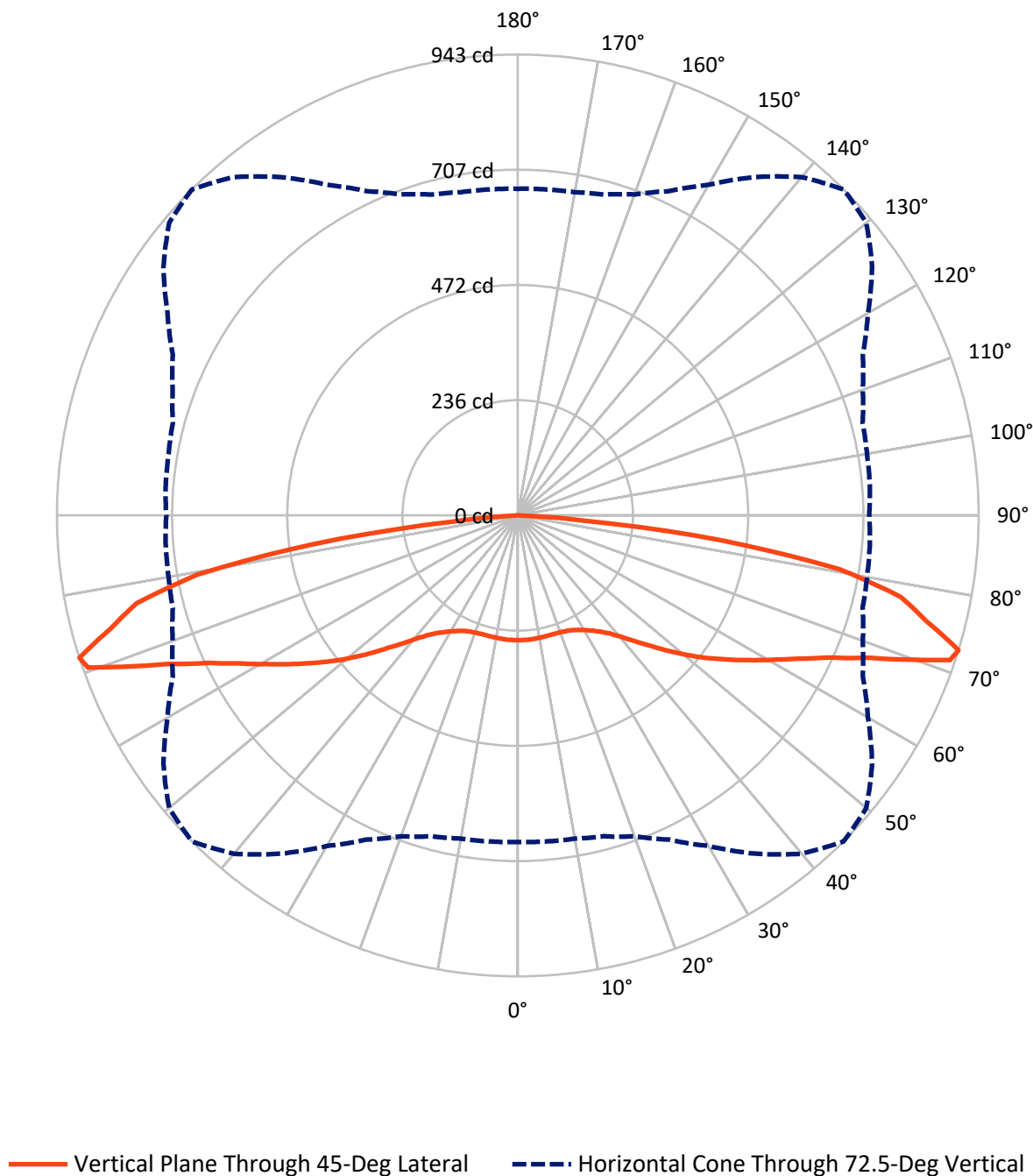


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc  
Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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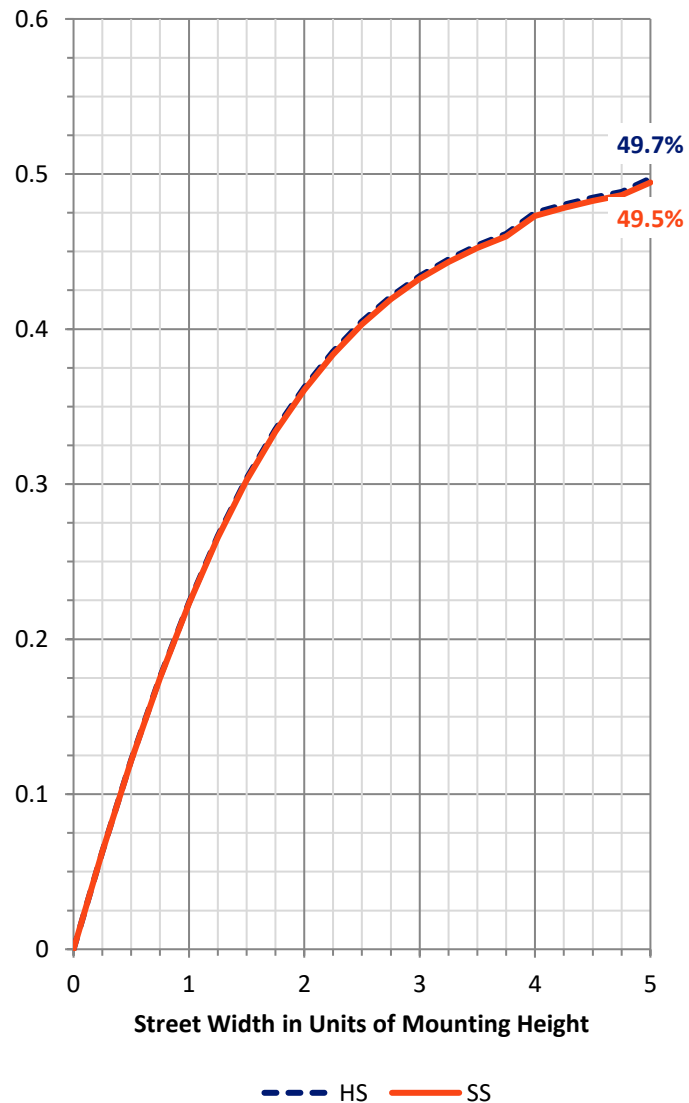
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1347.0   | 0.0    | 1347.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1347.0   | 0.0    | 1347.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2694.0   | 0.0    | 2694.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 24.3   | 0.9       |
| 10°-20°   | 72.0   | 2.7       |
| 20°-30°   | 120.5  | 4.5       |
| 30°-40°   | 183.7  | 6.8       |
| 40°-50°   | 293.3  | 10.9      |
| 50°-60°   | 451.0  | 16.7      |
| 60°-70°   | 656.7  | 24.4      |
| 70°-80°   | 739.8  | 27.5      |
| 80°-90°   | 152.7  | 5.7       |
| 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°    | 2694.0 | 100.0     |
| 0°-180°   | 2694.0 | 100.0     |

**Coefficient of Utilization**



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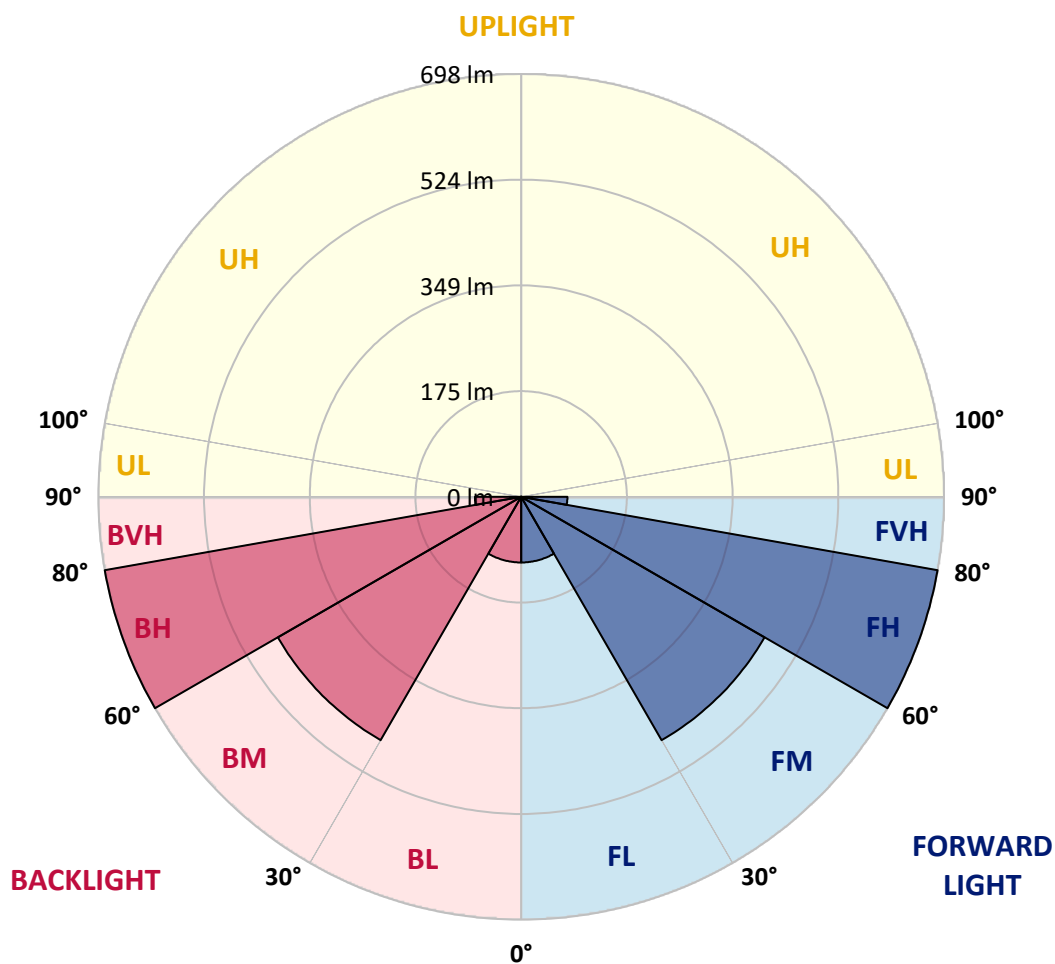
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 108.4  | 4.0       |                         |      |         |
| FM   | (30°-60°)   | 464.0  | 17.2      |                         |      |         |
| FH   | (60°-80°)   | 698.2  | 25.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 76.4   | 2.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 108.4  | 4.0       | B0/110                  |      |         |
| BM   | (30°-60°)   | 464.0  | 17.2      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 698.2  | 25.9      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 76.4   | 2.8       |                         |      | 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°    | 255.2 | 255.2 | 255.2 | 255.2 | 255.2 | 255.2 | 255.2 | 255.2 | 255.2 | 255.2 | 255.2 |
| 2.5°  | 255.6 | 255.8 | 255.8 | 255.6 | 255.8 | 255.6 | 255.4 | 255.4 | 254.9 | 255.1 | 255.5 |
| 5°    | 255.8 | 255.5 | 255.5 | 255.4 | 255.3 | 255.5 | 255.3 | 255.1 | 255.1 | 255.2 | 255.0 |
| 7.5°  | 255.5 | 255.2 | 255.1 | 255.0 | 255.1 | 255.1 | 254.9 | 254.7 | 254.9 | 254.7 | 254.4 |
| 10°   | 255.1 | 254.9 | 255.0 | 254.7 | 254.7 | 254.7 | 254.4 | 254.2 | 254.3 | 254.1 | 253.8 |
| 12.5° | 255.2 | 254.9 | 254.8 | 254.7 | 254.6 | 254.5 | 254.2 | 253.8 | 253.9 | 253.8 | 253.5 |
| 15°   | 255.2 | 255.0 | 254.9 | 254.7 | 254.6 | 254.5 | 254.1 | 253.9 | 253.9 | 253.7 | 253.3 |
| 17.5° | 255.3 | 255.2 | 255.2 | 254.9 | 254.7 | 254.7 | 254.2 | 254.0 | 254.2 | 253.8 | 253.5 |
| 20°   | 255.9 | 255.8 | 255.8 | 255.5 | 255.2 | 255.2 | 254.9 | 254.7 | 254.8 | 254.7 | 254.0 |
| 22.5° | 256.7 | 256.7 | 256.8 | 256.8 | 256.7 | 256.8 | 256.5 | 256.5 | 256.5 | 256.6 | 255.9 |
| 25°   | 259.1 | 259.1 | 259.2 | 259.2 | 259.3 | 259.7 | 259.5 | 259.5 | 259.8 | 259.8 | 259.1 |
| 27.5° | 263.6 | 263.4 | 263.6 | 263.7 | 264.0 | 264.7 | 264.6 | 264.8 | 265.3 | 265.2 | 264.7 |
| 30°   | 268.8 | 268.6 | 269.0 | 269.4 | 269.7 | 270.7 | 270.3 | 271.3 | 271.9 | 272.2 | 271.9 |
| 32.5° | 276.5 | 276.5 | 277.1 | 277.4 | 277.9 | 279.0 | 279.1 | 280.0 | 280.6 | 281.2 | 280.8 |
| 35°   | 286.6 | 286.4 | 286.9 | 287.5 | 288.2 | 289.1 | 289.5 | 290.6 | 291.6 | 292.1 | 291.2 |
| 37.5° | 302.1 | 301.3 | 302.3 | 302.6 | 303.2 | 303.4 | 304.4 | 305.8 | 306.9 | 306.7 | 306.1 |
| 40°   | 323.1 | 323.0 | 322.7 | 322.3 | 323.2 | 323.5 | 323.6 | 325.5 | 327.2 | 326.8 | 326.8 |
| 42.5° | 347.7 | 347.2 | 346.7 | 346.6 | 347.3 | 347.4 | 349.5 | 351.0 | 352.1 | 352.4 | 352.1 |
| 45°   | 374.1 | 373.5 | 373.7 | 373.3 | 373.5 | 374.5 | 375.8 | 378.3 | 380.6 | 380.7 | 379.5 |
| 47.5° | 402.5 | 400.5 | 402.1 | 399.9 | 401.2 | 402.0 | 405.1 | 408.9 | 412.8 | 413.6 | 412.5 |
| 50°   | 431.3 | 431.1 | 431.0 | 430.5 | 431.1 | 432.7 | 436.6 | 442.6 | 446.4 | 448.9 | 447.3 |
| 52.5° | 462.8 | 461.8 | 461.2 | 460.5 | 461.1 | 464.2 | 469.6 | 474.8 | 481.7 | 484.6 | 482.3 |
| 55°   | 493.5 | 493.1 | 491.3 | 491.2 | 492.4 | 497.2 | 503.1 | 509.5 | 517.0 | 520.2 | 519.4 |
| 57.5° | 524.9 | 522.9 | 522.3 | 521.5 | 524.1 | 528.6 | 535.9 | 547.4 | 555.1 | 558.8 | 556.7 |
| 60°   | 555.6 | 554.1 | 553.0 | 552.6 | 554.5 | 560.7 | 571.2 | 585.1 | 594.6 | 599.4 | 596.1 |
| 62.5° | 588.8 | 587.8 | 586.3 | 584.7 | 588.6 | 596.5 | 609.5 | 624.9 | 639.0 | 644.9 | 639.8 |
| 65°   | 629.8 | 627.8 | 626.2 | 624.1 | 627.3 | 637.4 | 653.7 | 675.3 | 694.2 | 701.1 | 697.4 |
| 67.5° | 673.2 | 671.3 | 671.4 | 670.2 | 675.8 | 689.6 | 710.7 | 740.1 | 765.4 | 777.2 | 770.3 |
| 70°   | 711.0 | 712.0 | 712.3 | 717.5 | 727.3 | 748.4 | 783.4 | 829.4 | 867.8 | 885.8 | 878.4 |
| 71°   | 699.8 | 702.2 | 705.7 | 711.1 | 727.9 | 753.0 | 800.8 | 856.6 | 902.4 | 932.8 | 922.6 |
| 72.5° | 668.2 | 669.6 | 671.5 | 679.6 | 698.7 | 731.8 | 781.0 | 844.8 | 903.6 | 943.1 | 931.2 |
| 75°   | 622.5 | 623.8 | 624.5 | 630.2 | 647.5 | 676.4 | 721.5 | 778.0 | 829.9 | 863.5 | 860.2 |
| 77.5° | 553.4 | 553.6 | 558.5 | 567.5 | 586.8 | 619.9 | 667.4 | 726.1 | 774.9 | 801.0 | 784.4 |
| 80°   | 397.4 | 394.7 | 399.8 | 411.2 | 435.1 | 473.2 | 521.8 | 588.8 | 642.9 | 667.4 | 641.7 |
| 82.5° | 151.3 | 159.4 | 172.3 | 191.1 | 199.2 | 241.5 | 286.7 | 326.1 | 371.7 | 422.7 | 409.9 |
| 85°   | 16.3  | 18.2  | 23.0  | 28.4  | 36.0  | 49.7  | 68.7  | 93.7  | 115.5 | 135.8 | 120.6 |
| 87.5° | 6.0   | 6.2   | 6.9   | 8.0   | 8.1   | 8.4   | 9.0   | 10.5  | 9.8   | 8.5   | 6.8   |
| 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°    | 255.2 | 255.2 | 255.2 | 255.2 | 255.2 | 255.2 | 255.2 | 255.2 |
| 2.5°  | 255.2 | 255.3 | 255.2 | 255.3 | 255.3 | 255.0 | 255.1 | 254.9 |
| 5°    | 255.1 | 254.9 | 255.0 | 255.1 | 255.0 | 255.2 | 254.9 | 255.1 |
| 7.5°  | 254.8 | 254.4 | 254.5 | 254.5 | 254.4 | 254.6 | 254.5 | 254.4 |
| 10°   | 254.1 | 253.6 | 253.9 | 253.7 | 253.6 | 253.7 | 253.7 | 253.7 |
| 12.5° | 253.5 | 253.1 | 253.3 | 253.2 | 253.1 | 253.3 | 253.2 | 253.3 |
| 15°   | 253.4 | 252.8 | 252.6 | 252.5 | 252.6 | 252.7 | 252.8 | 253.1 |
| 17.5° | 253.3 | 252.4 | 252.4 | 252.3 | 252.4 | 252.6 | 252.6 | 252.5 |
| 20°   | 253.7 | 253.1 | 252.8 | 252.8 | 252.7 | 253.1 | 253.0 | 253.1 |
| 22.5° | 255.5 | 254.9 | 254.8 | 254.3 | 254.1 | 254.3 | 254.1 | 254.1 |
| 25°   | 258.9 | 257.9 | 257.6 | 256.9 | 256.4 | 256.3 | 256.2 | 256.0 |
| 27.5° | 264.5 | 263.2 | 263.0 | 262.4 | 261.6 | 261.7 | 261.2 | 261.1 |
| 30°   | 271.1 | 269.9 | 269.0 | 268.1 | 267.2 | 266.8 | 266.3 | 266.3 |
| 32.5° | 279.8 | 278.5 | 277.3 | 276.3 | 274.9 | 274.4 | 273.6 | 273.2 |
| 35°   | 290.5 | 288.8 | 287.4 | 286.6 | 285.3 | 284.7 | 284.1 | 284.8 |
| 37.5° | 305.4 | 303.3 | 302.6 | 301.7 | 300.8 | 299.9 | 300.1 | 299.9 |
| 40°   | 326.0 | 324.1 | 323.4 | 321.9 | 321.7 | 320.5 | 321.1 | 320.4 |
| 42.5° | 351.5 | 348.1 | 347.6 | 346.3 | 345.9 | 345.3 | 345.5 | 345.1 |
| 45°   | 379.3 | 376.2 | 375.5 | 373.6 | 373.7 | 372.1 | 372.6 | 372.7 |
| 47.5° | 410.4 | 407.3 | 404.6 | 403.1 | 402.6 | 401.7 | 402.2 | 402.1 |
| 50°   | 442.6 | 438.3 | 435.4 | 432.5 | 431.2 | 431.6 | 430.6 | 432.3 |
| 52.5° | 477.2 | 470.8 | 466.7 | 463.9 | 461.6 | 462.0 | 462.2 | 462.6 |
| 55°   | 513.0 | 504.8 | 498.9 | 495.2 | 493.1 | 493.3 | 493.9 | 494.4 |
| 57.5° | 549.0 | 538.8 | 530.7 | 525.4 | 523.9 | 524.6 | 524.6 | 524.6 |
| 60°   | 586.3 | 574.1 | 563.6 | 557.6 | 556.3 | 556.0 | 558.8 | 557.7 |
| 62.5° | 626.4 | 611.6 | 600.9 | 593.2 | 591.3 | 592.6 | 595.1 | 594.5 |
| 65°   | 679.6 | 659.2 | 645.4 | 637.6 | 634.5 | 635.8 | 639.1 | 639.0 |
| 67.5° | 748.1 | 719.6 | 701.3 | 691.4 | 689.1 | 690.8 | 692.5 | 694.3 |
| 70°   | 850.6 | 809.9 | 783.7 | 762.4 | 753.2 | 751.5 | 753.3 | 753.4 |
| 71°   | 886.6 | 839.9 | 798.3 | 772.2 | 757.1 | 750.8 | 751.3 | 748.2 |
| 72.5° | 885.2 | 827.6 | 778.9 | 751.5 | 730.7 | 725.6 | 723.1 | 719.3 |
| 75°   | 825.6 | 773.6 | 731.4 | 701.6 | 681.5 | 675.4 | 671.1 | 670.9 |
| 77.5° | 748.7 | 710.4 | 663.8 | 632.3 | 607.8 | 597.8 | 593.4 | 593.3 |
| 80°   | 601.9 | 544.5 | 510.5 | 491.4 | 461.9 | 453.4 | 444.4 | 440.8 |
| 82.5° | 363.9 | 284.4 | 231.3 | 205.5 | 191.2 | 157.5 | 141.3 | 133.7 |
| 85°   | 84.8  | 60.2  | 41.5  | 27.3  | 19.6  | 15.5  | 12.0  | 10.6  |
| 87.5° | 5.7   | 4.6   | 4.0   | 3.2   | 2.5   | 2.4   | 1.5   | 1.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)