

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: P147678

Luminaire Tested: **VXS-E01-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147678  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-E01-LED-E1-5WQ-8030  
Description: VISION SITE SMALL LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2687.1 lumens  
Efficiency: N/A  
Efficacy: 108.8 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: 25 FT

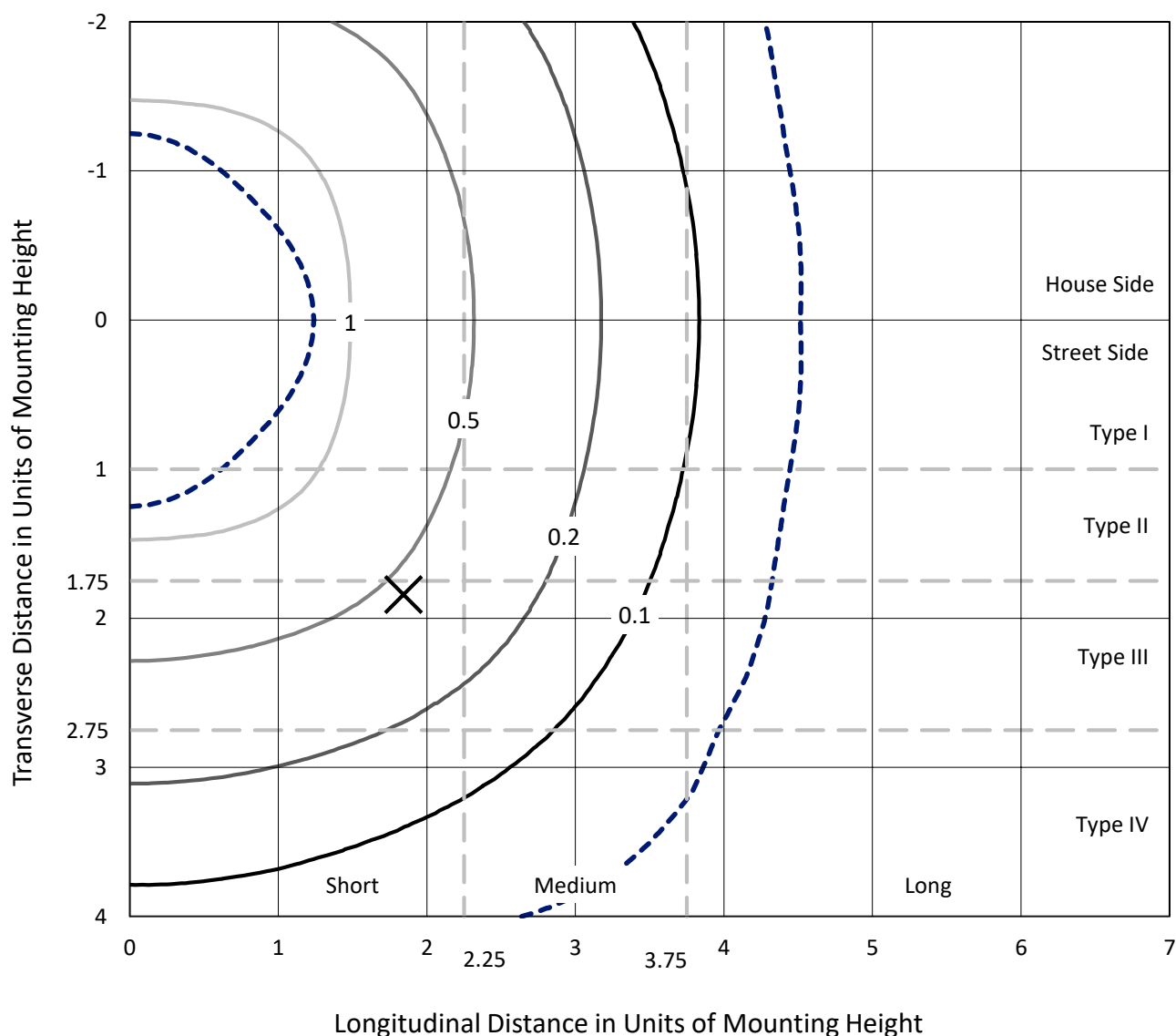


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

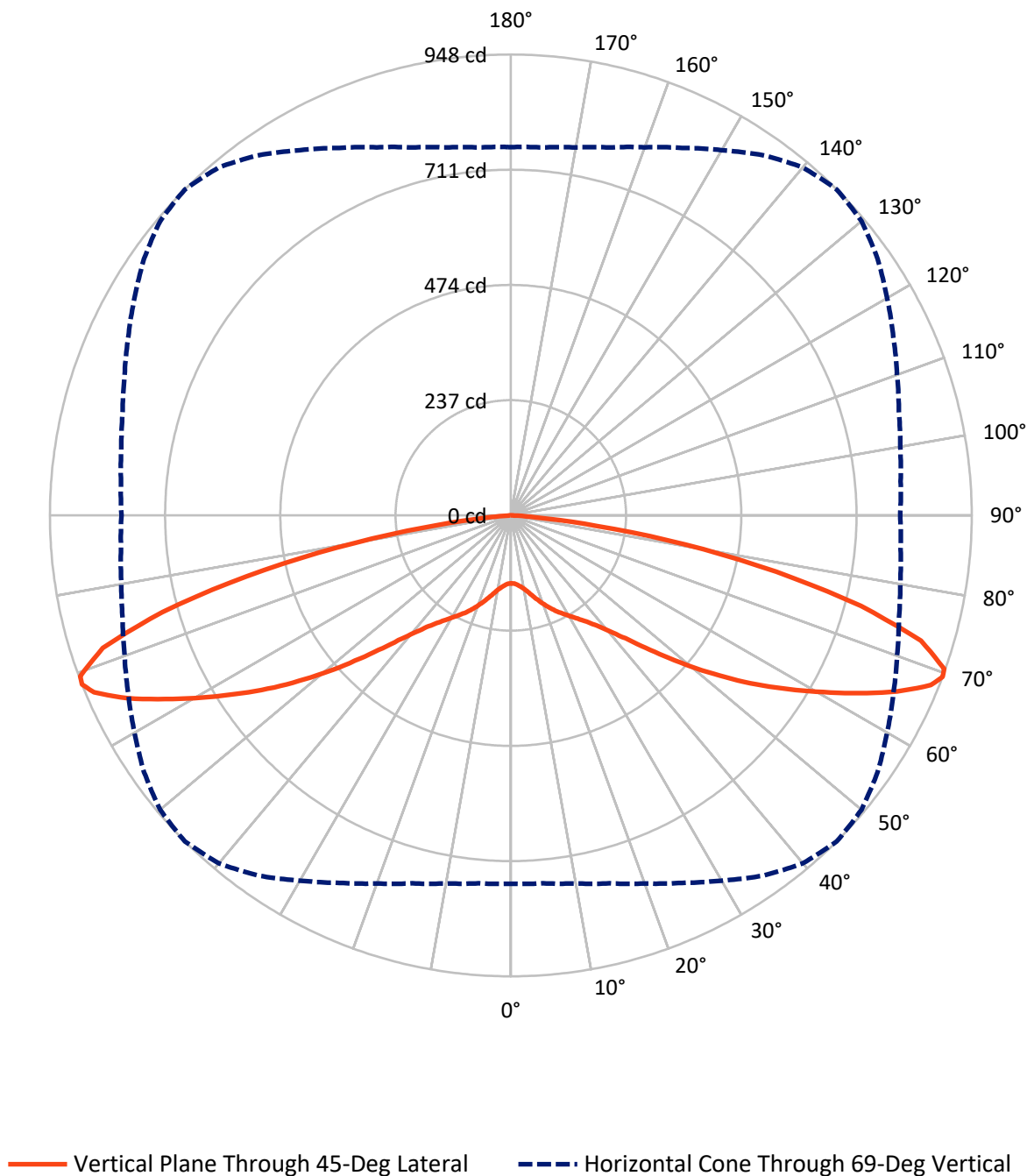


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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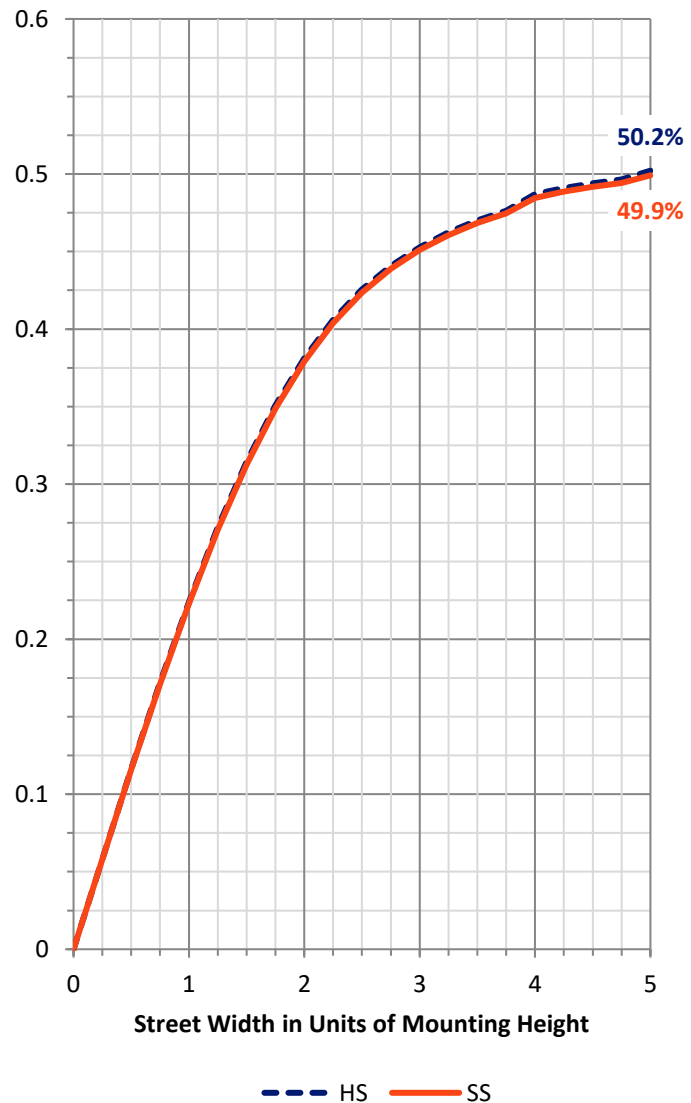
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1343.6   | 0.0    | 1343.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1343.6   | 0.0    | 1343.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2687.1   | 0.0    | 2687.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.0   | 0.5       |
| 10°-20°   | 49.5   | 1.8       |
| 20°-30°   | 100.2  | 3.7       |
| 30°-40°   | 168.0  | 6.3       |
| 40°-50°   | 296.3  | 11.0      |
| 50°-60°   | 522.5  | 19.4      |
| 60°-70°   | 797.7  | 29.7      |
| 70°-80°   | 666.6  | 24.8      |
| 80°-90°   | 72.4   | 2.7       |
| 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°    | 2687.1 | 100.0     |
| 0°-180°   | 2687.1 | 100.0     |

**Coefficient of Utilization**



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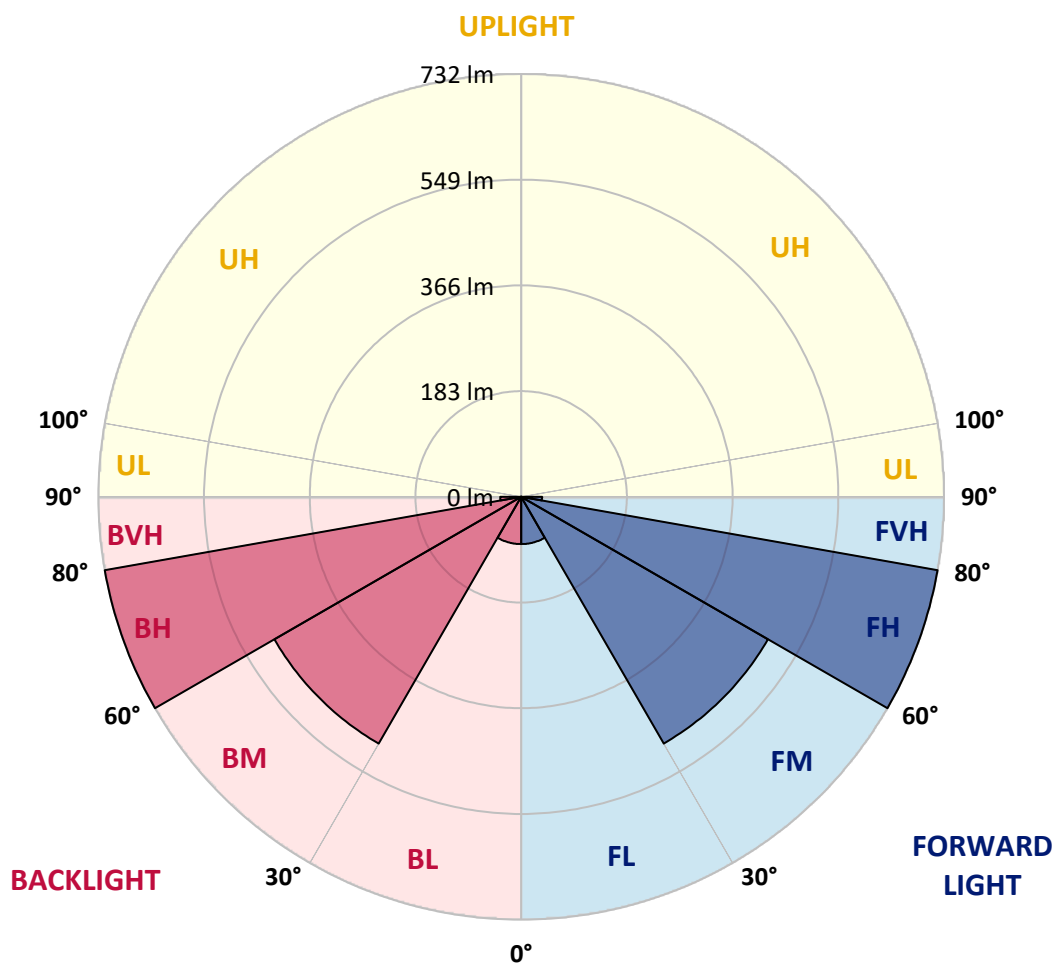
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 81.8   | 3.0       |                         |      |         |
| FM   | (30°-60°)   | 493.4  | 18.4      |                         |      |         |
| FH   | (60°-80°)   | 732.1  | 27.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 36.2   | 1.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 81.8   | 3.0       | B0/110                  |      |         |
| BM   | (30°-60°)   | 493.4  | 18.4      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 732.1  | 27.2      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 36.2   | 1.3       |                         |      | 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°    | 139.6 | 139.6 | 139.6 | 139.6 | 139.6 | 139.6 | 139.6 | 139.6 | 139.6 | 139.6 | 139.6 |
| 2.5°  | 140.6 | 140.9 | 140.6 | 140.6 | 140.6 | 140.6 | 140.6 | 140.4 | 140.4 | 140.4 | 140.6 |
| 5°    | 143.5 | 143.7 | 143.5 | 143.7 | 143.7 | 143.7 | 143.7 | 143.5 | 143.5 | 143.5 | 143.5 |
| 7.5°  | 148.0 | 148.0 | 148.0 | 148.3 | 148.0 | 148.0 | 148.3 | 148.0 | 148.0 | 148.0 | 148.0 |
| 10°   | 154.4 | 154.2 | 154.2 | 154.2 | 154.2 | 154.2 | 154.4 | 154.4 | 154.4 | 154.4 | 154.2 |
| 12.5° | 162.3 | 162.1 | 162.3 | 162.3 | 162.6 | 162.6 | 162.6 | 162.6 | 162.6 | 162.6 | 162.3 |
| 15°   | 171.9 | 171.9 | 171.9 | 172.1 | 172.7 | 172.7 | 172.4 | 172.7 | 172.7 | 172.7 | 172.7 |
| 17.5° | 182.6 | 183.1 | 182.6 | 182.9 | 183.1 | 182.9 | 183.4 | 183.7 | 184.0 | 183.7 | 182.9 |
| 20°   | 193.6 | 193.9 | 193.9 | 193.9 | 193.9 | 194.4 | 194.7 | 194.7 | 195.5 | 195.2 | 194.9 |
| 22.5° | 203.9 | 204.6 | 204.6 | 204.8 | 204.8 | 205.7 | 205.7 | 205.7 | 206.2 | 206.7 | 206.2 |
| 25°   | 214.9 | 214.6 | 214.6 | 215.2 | 215.5 | 216.6 | 216.6 | 217.2 | 218.0 | 218.3 | 217.7 |
| 27.5° | 224.8 | 224.5 | 224.5 | 225.4 | 225.6 | 227.0 | 227.0 | 228.2 | 228.7 | 229.0 | 228.4 |
| 30°   | 235.2 | 235.2 | 234.9 | 235.8 | 236.6 | 237.7 | 238.2 | 239.4 | 240.2 | 240.5 | 240.0 |
| 32.5° | 247.6 | 247.0 | 247.3 | 247.9 | 248.4 | 249.5 | 250.4 | 251.8 | 253.0 | 253.2 | 252.6 |
| 35°   | 261.7 | 260.8 | 261.0 | 261.7 | 262.5 | 264.1 | 265.6 | 266.4 | 268.1 | 268.7 | 267.6 |
| 37.5° | 277.1 | 277.4 | 277.1 | 278.5 | 279.9 | 281.9 | 283.6 | 284.7 | 286.4 | 287.3 | 286.4 |
| 40°   | 299.1 | 298.2 | 299.1 | 300.4 | 302.7 | 305.3 | 308.6 | 309.4 | 311.2 | 312.8 | 310.9 |
| 42.5° | 327.5 | 326.9 | 328.9 | 330.1 | 332.5 | 335.3 | 339.6 | 341.9 | 344.4 | 345.5 | 343.8 |
| 45°   | 364.6 | 364.6 | 366.8 | 367.2 | 371.1 | 374.7 | 380.6 | 383.4 | 388.2 | 388.2 | 388.2 |
| 47.5° | 405.7 | 407.4 | 408.8 | 411.6 | 414.4 | 421.1 | 427.0 | 433.3 | 437.7 | 438.3 | 437.5 |
| 50°   | 448.2 | 449.8 | 454.1 | 458.0 | 464.1 | 472.6 | 479.1 | 487.3 | 491.2 | 494.6 | 493.5 |
| 52.5° | 495.1 | 495.4 | 500.5 | 505.6 | 514.5 | 523.8 | 534.2 | 542.7 | 549.7 | 552.8 | 550.3 |
| 55°   | 546.6 | 547.2 | 551.7 | 557.0 | 567.2 | 577.8 | 590.8 | 599.5 | 608.5 | 614.1 | 609.9 |
| 57.5° | 602.3 | 602.6 | 607.2 | 613.6 | 625.7 | 636.4 | 648.7 | 661.1 | 669.5 | 674.6 | 671.8 |
| 60°   | 663.9 | 665.4 | 668.7 | 676.9 | 688.4 | 699.7 | 712.0 | 723.0 | 732.8 | 738.2 | 735.4 |
| 62.5° | 729.7 | 731.2 | 736.0 | 742.4 | 752.5 | 765.0 | 776.8 | 790.8 | 799.0 | 804.9 | 800.6 |
| 65°   | 774.0 | 776.5 | 784.0 | 792.7 | 807.7 | 823.7 | 837.5 | 856.7 | 866.5 | 873.6 | 869.6 |
| 67.5° | 776.8 | 778.1 | 787.5 | 800.6 | 820.6 | 844.9 | 873.0 | 902.8 | 922.2 | 931.5 | 924.8 |
| 69°   | 757.6 | 759.6 | 768.6 | 783.5 | 805.7 | 833.9 | 867.4 | 904.5 | 934.3 | 948.1 | 941.7 |
| 70°   | 736.0 | 740.2 | 750.1 | 766.3 | 788.0 | 817.5 | 852.1 | 891.8 | 926.7 | 945.6 | 940.7 |
| 72.5° | 690.4 | 691.5 | 698.0 | 710.9 | 727.6 | 752.0 | 784.7 | 822.1 | 855.2 | 882.3 | 886.2 |
| 75°   | 612.7 | 616.4 | 621.1 | 629.9 | 638.3 | 656.1 | 678.0 | 703.6 | 723.0 | 743.8 | 744.7 |
| 77.5° | 463.1 | 474.1 | 477.7 | 479.7 | 483.3 | 497.4 | 516.5 | 538.8 | 554.8 | 558.1 | 557.6 |
| 80°   | 207.9 | 222.5 | 225.9 | 242.0 | 251.8 | 275.1 | 304.4 | 338.4 | 361.2 | 363.7 | 357.6 |
| 82.5° | 40.8  | 43.6  | 50.9  | 63.6  | 86.6  | 100.4 | 119.6 | 143.5 | 165.4 | 178.0 | 170.5 |
| 85°   | 13.5  | 14.3  | 16.6  | 18.2  | 21.1  | 23.9  | 29.0  | 36.0  | 44.8  | 49.5  | 44.1  |
| 87.5° | 5.4   | 5.4   | 6.2   | 6.7   | 7.4   | 7.4   | 7.4   | 6.7   | 6.4   | 5.4   | 4.8   |
| 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°    | 139.6 | 139.6 | 139.6 | 139.6 | 139.6 | 139.6 | 139.6 | 139.6 |
| 2.5°  | 140.4 | 140.4 | 140.4 | 140.4 | 140.4 | 140.4 | 140.4 | 140.4 |
| 5°    | 143.5 | 143.2 | 143.2 | 142.9 | 142.9 | 142.9 | 142.9 | 142.9 |
| 7.5°  | 147.7 | 147.5 | 147.2 | 147.5 | 147.2 | 147.2 | 147.2 | 147.2 |
| 10°   | 154.2 | 153.6 | 153.4 | 153.1 | 153.1 | 153.1 | 152.7 | 152.7 |
| 12.5° | 161.8 | 161.8 | 161.5 | 161.2 | 160.6 | 160.9 | 160.6 | 160.1 |
| 15°   | 172.1 | 171.6 | 171.3 | 171.1 | 170.5 | 170.5 | 170.5 | 170.2 |
| 17.5° | 182.6 | 182.0 | 182.0 | 181.1 | 180.9 | 180.9 | 180.9 | 181.1 |
| 20°   | 194.1 | 193.3 | 192.7 | 192.1 | 191.6 | 191.9 | 191.3 | 191.9 |
| 22.5° | 205.7 | 204.6 | 203.9 | 203.1 | 202.3 | 202.3 | 202.0 | 201.5 |
| 25°   | 216.9 | 215.5 | 214.9 | 214.1 | 213.0 | 213.0 | 212.4 | 211.8 |
| 27.5° | 227.6 | 226.2 | 225.6 | 223.9 | 222.8 | 222.5 | 222.0 | 221.7 |
| 30°   | 239.4 | 237.7 | 236.9 | 235.2 | 233.5 | 233.3 | 232.3 | 232.3 |
| 32.5° | 251.8 | 250.1 | 249.5 | 247.0 | 245.6 | 245.6 | 245.1 | 244.5 |
| 35°   | 267.3 | 264.8 | 264.1 | 261.7 | 259.7 | 259.7 | 259.1 | 259.4 |
| 37.5° | 285.6 | 283.6 | 281.7 | 279.7 | 277.4 | 277.1 | 276.6 | 276.0 |
| 40°   | 310.1 | 307.8 | 305.5 | 302.7 | 300.7 | 300.2 | 299.4 | 299.1 |
| 42.5° | 342.7 | 340.4 | 336.0 | 333.7 | 331.7 | 330.1 | 329.7 | 329.4 |
| 45°   | 384.2 | 381.5 | 378.3 | 374.2 | 371.6 | 368.0 | 367.5 | 366.0 |
| 47.5° | 434.4 | 429.0 | 423.7 | 420.0 | 416.1 | 411.9 | 411.0 | 408.8 |
| 50°   | 487.6 | 483.3 | 474.3 | 468.4 | 462.2 | 458.0 | 455.2 | 454.3 |
| 52.5° | 544.7 | 536.8 | 527.8 | 519.9 | 510.9 | 505.3 | 500.2 | 498.8 |
| 55°   | 604.2 | 593.1 | 581.8 | 572.5 | 563.5 | 556.8 | 552.0 | 549.7 |
| 57.5° | 663.9 | 651.6 | 639.2 | 629.0 | 621.5 | 612.7 | 608.0 | 606.8 |
| 60°   | 726.1 | 714.3 | 701.7 | 691.5 | 682.2 | 674.6 | 671.8 | 666.4 |
| 62.5° | 791.9 | 779.6 | 767.8 | 757.9 | 746.1 | 740.7 | 736.0 | 732.8 |
| 65°   | 856.7 | 842.3 | 827.4 | 817.0 | 805.2 | 797.6 | 791.7 | 787.5 |
| 67.5° | 906.7 | 885.1 | 865.1 | 847.7 | 831.6 | 819.8 | 812.2 | 808.3 |
| 69°   | 920.8 | 893.8 | 868.2 | 845.4 | 826.5 | 813.4 | 804.9 | 800.9 |
| 70°   | 919.1 | 889.3 | 861.1 | 836.1 | 815.5 | 801.6 | 793.4 | 786.0 |
| 72.5° | 867.0 | 839.8 | 808.5 | 781.2 | 762.7 | 749.2 | 741.0 | 737.1 |
| 75°   | 739.9 | 721.7 | 699.1 | 678.0 | 664.5 | 656.6 | 646.5 | 646.7 |
| 77.5° | 538.8 | 539.3 | 524.1 | 502.5 | 487.3 | 484.5 | 480.0 | 475.4 |
| 80°   | 334.2 | 307.5 | 290.1 | 266.7 | 249.5 | 234.6 | 228.2 | 214.1 |
| 82.5° | 154.2 | 120.4 | 93.4  | 70.6  | 54.3  | 42.5  | 37.1  | 30.4  |
| 85°   | 34.3  | 26.1  | 21.7  | 17.4  | 14.9  | 13.8  | 11.3  | 10.4  |
| 87.5° | 4.8   | 4.2   | 3.9   | 3.6   | 3.1   | 2.3   | 1.7   | 1.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)