

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: P177316

Luminaire Tested: **VAL-E01-LED-E-U-WQ-8030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P177316  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VAL-E01-LED-E-U-WQ-8030  
Description: VALET TUNNEL LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 2609.7 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Non-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



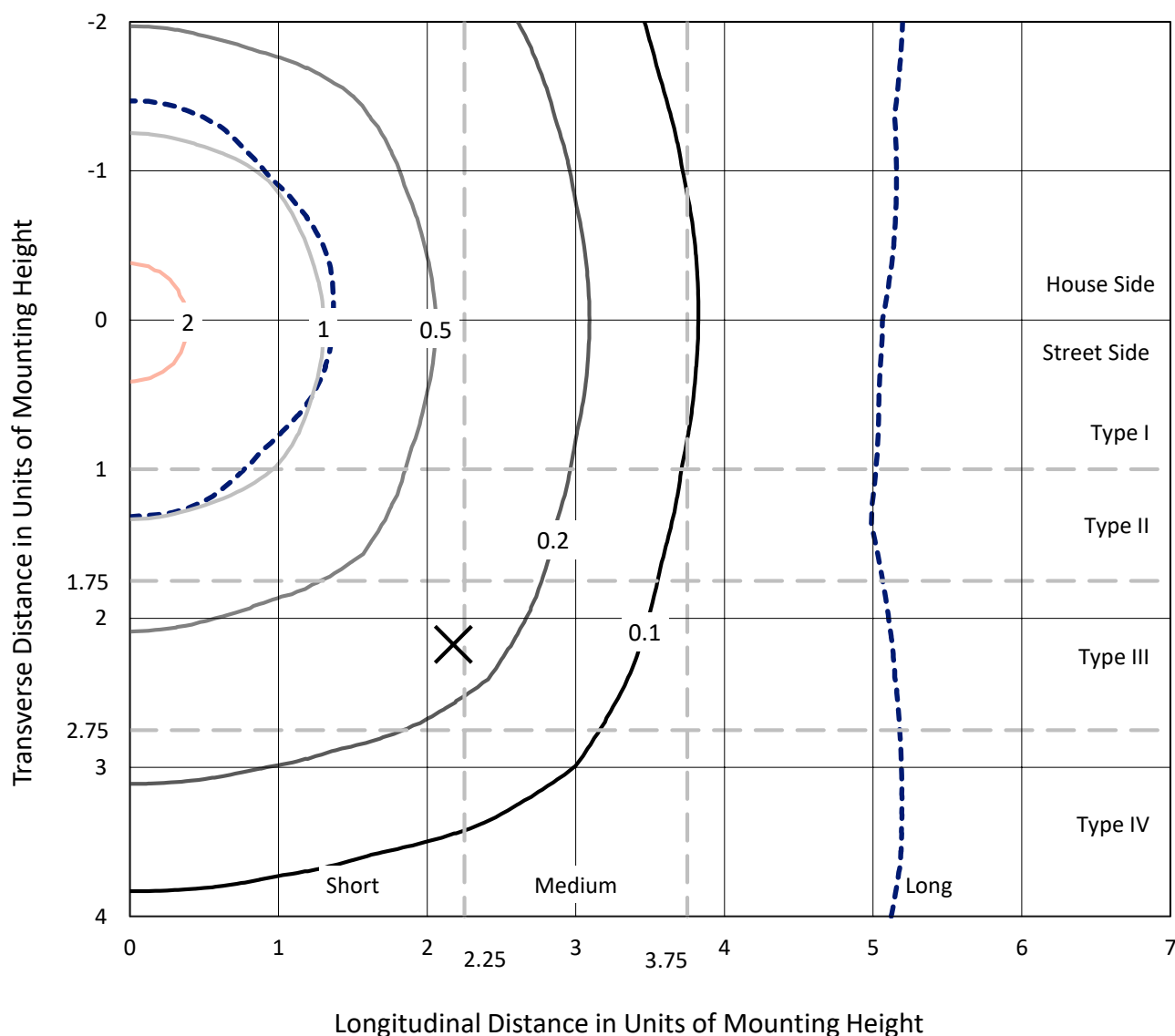
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

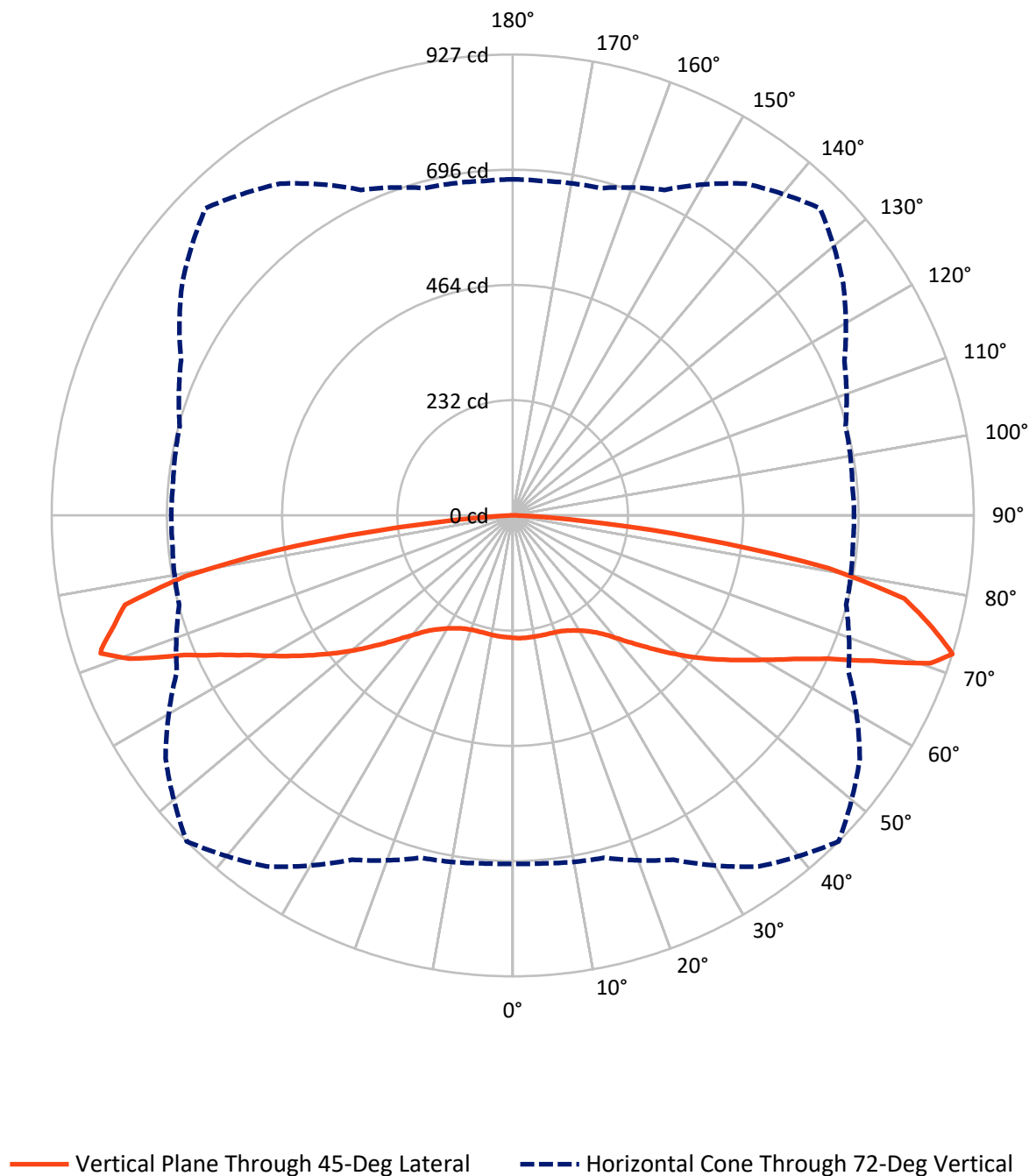


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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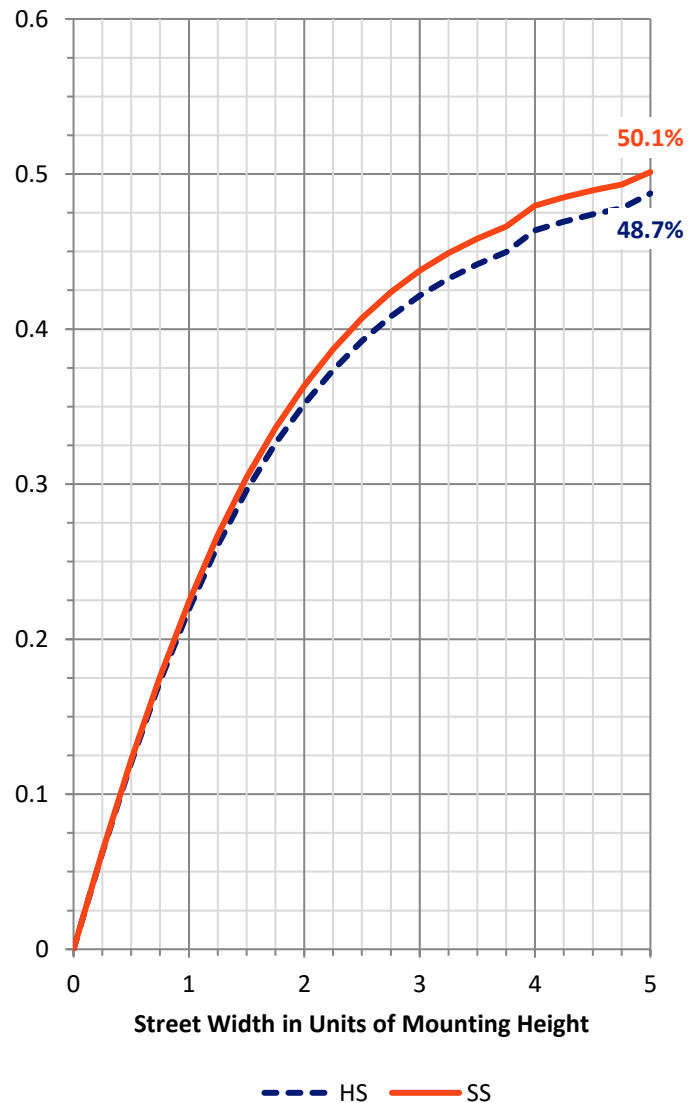
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1287.0   | 0.0    | 1287.0 |
|                    | % Fixture | 49.3     | 0.0    | 49.3   |
| <b>Street Side</b> | Lumens    | 1322.7   | 0.0    | 1322.7 |
|                    | % Fixture | 50.7     | 0.0    | 50.7   |
| <b>Total</b>       | Lumens    | 2609.7   | 0.0    | 2609.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.5   | 0.9       |
| 10°-20°   | 69.9   | 2.7       |
| 20°-30°   | 117.4  | 4.5       |
| 30°-40°   | 178.6  | 6.8       |
| 40°-50°   | 282.4  | 10.8      |
| 50°-60°   | 431.3  | 16.5      |
| 60°-70°   | 631.9  | 24.2      |
| 70°-80°   | 717.9  | 27.5      |
| 80°-90°   | 156.8  | 6.0       |
| 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°    | 2609.7 | 100.0     |
| 0°-180°   | 2609.7 | 100.0     |

**Coefficient of Utilization**



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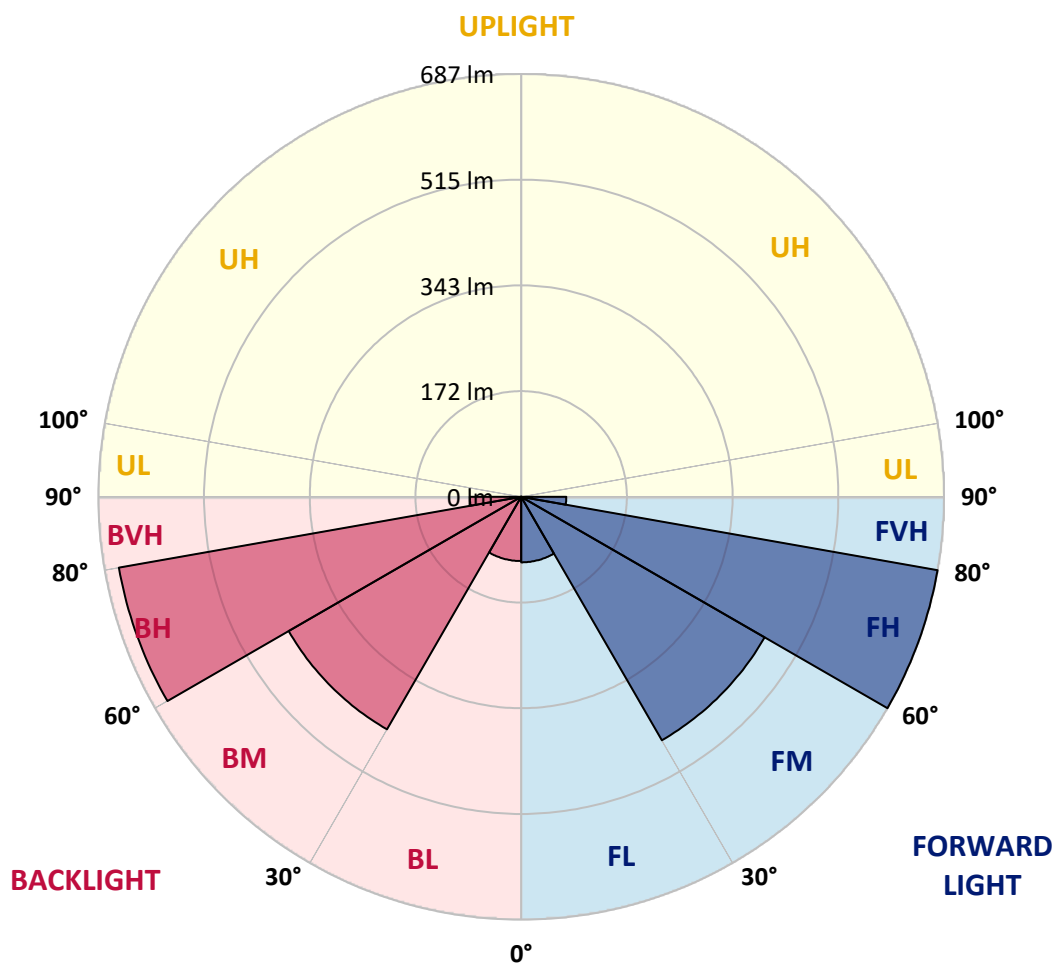
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 106.4  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 456.4  | 17.5      |                         |      |         |
| FH   | (60°-80°)   | 686.5  | 26.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 73.3   | 2.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 104.3  | 4.0       | B0/110                  |      |         |
| BM   | (30°-60°)   | 435.9  | 16.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 663.2  | 25.4      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 83.5   | 3.2       |                         |      | 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°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 |
| 2.5°  | 248.5 | 248.5 | 247.8 | 247.5 | 247.5 | 247.3 | 247.1 | 247.1 | 247.0 | 247.1 | 246.6 |
| 5°    | 248.8 | 248.8 | 248.1 | 247.8 | 247.6 | 247.5 | 247.5 | 247.1 | 247.0 | 247.1 | 246.6 |
| 7.5°  | 248.8 | 249.0 | 248.6 | 248.3 | 247.8 | 247.6 | 247.5 | 247.0 | 247.0 | 246.6 | 246.4 |
| 10°   | 249.5 | 250.0 | 249.3 | 248.8 | 248.1 | 247.8 | 247.3 | 247.0 | 246.8 | 246.4 | 246.4 |
| 12.5° | 250.0 | 250.5 | 249.8 | 249.3 | 248.6 | 248.1 | 247.5 | 247.0 | 246.6 | 246.1 | 246.3 |
| 15°   | 250.7 | 251.2 | 250.5 | 249.8 | 249.1 | 248.5 | 247.8 | 247.1 | 246.6 | 246.3 | 246.3 |
| 17.5° | 251.0 | 251.5 | 250.8 | 250.2 | 249.7 | 249.3 | 248.5 | 247.5 | 246.8 | 246.4 | 246.4 |
| 20°   | 251.5 | 252.0 | 251.5 | 251.2 | 250.7 | 250.5 | 249.7 | 248.5 | 247.6 | 247.1 | 247.0 |
| 22.5° | 252.7 | 253.0 | 252.9 | 252.9 | 252.9 | 252.7 | 252.0 | 250.2 | 249.1 | 248.3 | 248.1 |
| 25°   | 255.6 | 255.4 | 255.7 | 256.1 | 256.2 | 256.6 | 255.6 | 253.5 | 252.2 | 250.8 | 250.7 |
| 27.5° | 260.3 | 260.5 | 260.6 | 261.3 | 262.0 | 262.1 | 261.1 | 258.9 | 256.9 | 255.1 | 254.9 |
| 30°   | 265.7 | 265.7 | 266.4 | 267.7 | 268.4 | 268.9 | 267.9 | 265.2 | 262.6 | 260.8 | 260.5 |
| 32.5° | 273.5 | 274.1 | 274.5 | 276.0 | 277.3 | 277.8 | 276.3 | 273.5 | 270.6 | 268.2 | 267.7 |
| 35°   | 284.6 | 285.6 | 285.9 | 287.3 | 288.8 | 289.0 | 287.6 | 284.4 | 281.4 | 278.2 | 278.3 |
| 37.5° | 300.3 | 300.5 | 301.3 | 301.6 | 304.5 | 304.5 | 302.3 | 299.4 | 296.4 | 293.5 | 292.7 |
| 40°   | 321.2 | 321.4 | 321.7 | 321.2 | 324.6 | 325.6 | 322.7 | 318.4 | 315.5 | 311.8 | 311.3 |
| 42.5° | 344.0 | 345.7 | 345.5 | 344.7 | 348.1 | 350.3 | 346.7 | 341.6 | 338.6 | 334.7 | 334.1 |
| 45°   | 372.2 | 371.9 | 370.3 | 372.2 | 376.1 | 378.4 | 374.1 | 367.6 | 364.4 | 359.5 | 359.4 |
| 47.5° | 399.5 | 399.2 | 396.8 | 398.2 | 405.5 | 409.3 | 402.9 | 395.7 | 391.4 | 388.6 | 386.4 |
| 50°   | 425.5 | 427.9 | 424.9 | 427.7 | 437.2 | 442.4 | 436.5 | 425.0 | 420.0 | 415.6 | 414.4 |
| 52.5° | 456.1 | 457.4 | 454.7 | 459.3 | 469.8 | 477.4 | 469.3 | 454.4 | 449.3 | 444.4 | 442.9 |
| 55°   | 487.3 | 486.6 | 485.3 | 490.4 | 503.2 | 512.1 | 503.4 | 485.5 | 478.0 | 474.3 | 474.3 |
| 57.5° | 518.0 | 518.4 | 515.2 | 521.2 | 537.5 | 549.3 | 538.3 | 516.4 | 507.2 | 503.0 | 504.4 |
| 60°   | 551.0 | 551.0 | 546.1 | 551.6 | 574.3 | 589.3 | 572.7 | 547.6 | 537.6 | 535.1 | 535.3 |
| 62.5° | 587.9 | 586.6 | 581.2 | 588.1 | 615.6 | 635.5 | 614.8 | 583.4 | 570.4 | 570.4 | 571.6 |
| 65°   | 630.6 | 628.4 | 626.6 | 634.5 | 670.1 | 694.4 | 667.1 | 627.4 | 615.9 | 614.6 | 616.8 |
| 67.5° | 692.1 | 694.4 | 689.7 | 700.2 | 748.8 | 780.5 | 739.0 | 687.9 | 675.7 | 674.5 | 679.9 |
| 70°   | 747.4 | 745.1 | 751.2 | 780.7 | 846.9 | 891.1 | 833.4 | 754.7 | 719.9 | 712.8 | 715.0 |
| 72°   | 700.9 | 702.7 | 713.0 | 764.3 | 862.4 | 927.4 | 852.4 | 745.4 | 694.4 | 687.0 | 686.8 |
| 72.5° | 690.0 | 691.4 | 700.2 | 749.5 | 851.2 | 917.8 | 842.8 | 733.6 | 685.5 | 679.1 | 678.7 |
| 75°   | 633.3 | 636.0 | 649.9 | 697.8 | 801.1 | 863.7 | 793.4 | 691.2 | 638.4 | 626.2 | 628.8 |
| 77.5° | 539.5 | 545.0 | 559.1 | 614.3 | 735.5 | 805.5 | 730.2 | 612.7 | 553.5 | 544.5 | 541.7 |
| 80°   | 395.8 | 388.4 | 413.7 | 462.7 | 548.9 | 645.3 | 556.9 | 461.7 | 400.2 | 383.8 | 387.9 |
| 82.5° | 134.7 | 137.9 | 177.9 | 237.5 | 301.3 | 376.8 | 319.9 | 231.3 | 170.3 | 149.7 | 140.6 |
| 85°   | 16.4  | 17.7  | 27.7  | 50.5  | 94.9  | 137.1 | 96.9  | 51.3  | 31.9  | 19.6  | 17.2  |
| 87.5° | 7.9   | 8.4   | 11.8  | 12.7  | 15.7  | 13.3  | 15.9  | 10.1  | 9.6   | 5.9   | 4.9   |
| 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):**

|       | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 | 246.4 |
| 2.5°  | 246.4 | 246.1 | 245.9 | 245.6 | 245.3 | 245.3 | 245.3 | 245.3 | 245.3 | 245.4 |
| 5°    | 246.4 | 246.1 | 245.9 | 245.4 | 245.1 | 245.1 | 244.9 | 245.1 | 244.9 | 245.1 |
| 7.5°  | 246.4 | 245.9 | 245.4 | 244.9 | 244.6 | 244.8 | 244.4 | 244.3 | 244.4 | 244.4 |
| 10°   | 246.3 | 245.4 | 244.8 | 244.3 | 244.1 | 243.9 | 243.9 | 243.7 | 244.1 | 243.9 |
| 12.5° | 246.1 | 245.1 | 244.3 | 243.6 | 243.4 | 243.4 | 243.4 | 243.4 | 243.9 | 243.7 |
| 15°   | 245.9 | 244.9 | 244.1 | 243.2 | 243.1 | 243.4 | 243.4 | 243.7 | 244.1 | 244.1 |
| 17.5° | 246.1 | 244.9 | 243.9 | 243.2 | 243.2 | 243.6 | 243.7 | 244.3 | 244.8 | 244.4 |
| 20°   | 246.8 | 245.4 | 244.6 | 243.9 | 244.3 | 244.6 | 244.6 | 244.9 | 245.4 | 245.1 |
| 22.5° | 247.8 | 246.8 | 246.1 | 245.9 | 246.4 | 246.6 | 246.4 | 246.3 | 246.4 | 246.1 |
| 25°   | 250.2 | 249.1 | 248.6 | 249.3 | 249.8 | 249.7 | 249.0 | 248.3 | 248.0 | 247.8 |
| 27.5° | 254.5 | 253.7 | 253.5 | 254.4 | 254.9 | 254.0 | 252.9 | 251.8 | 251.5 | 251.0 |
| 30°   | 259.9 | 259.4 | 259.9 | 260.8 | 261.0 | 259.6 | 257.9 | 256.4 | 255.9 | 255.9 |
| 32.5° | 267.0 | 266.5 | 267.7 | 269.1 | 269.4 | 267.5 | 264.8 | 262.8 | 261.5 | 261.3 |
| 35°   | 277.3 | 277.0 | 277.3 | 279.0 | 278.9 | 277.0 | 274.0 | 271.6 | 270.2 | 270.2 |
| 37.5° | 291.7 | 291.3 | 290.5 | 292.2 | 292.0 | 289.5 | 286.3 | 284.3 | 282.7 | 282.9 |
| 40°   | 310.4 | 309.9 | 308.9 | 309.2 | 310.6 | 307.2 | 303.2 | 300.5 | 300.3 | 300.3 |
| 42.5° | 332.9 | 330.5 | 330.8 | 332.9 | 331.9 | 327.8 | 324.1 | 321.7 | 321.7 | 321.6 |
| 45°   | 357.3 | 356.5 | 356.2 | 356.8 | 357.7 | 354.5 | 348.2 | 345.5 | 345.4 | 345.4 |
| 47.5° | 385.7 | 381.5 | 382.3 | 384.0 | 386.0 | 382.0 | 374.1 | 370.8 | 370.3 | 370.5 |
| 50°   | 413.4 | 409.0 | 409.8 | 413.4 | 417.3 | 410.9 | 401.1 | 397.2 | 396.5 | 396.8 |
| 52.5° | 442.1 | 438.4 | 438.4 | 444.3 | 449.3 | 441.4 | 429.1 | 424.4 | 424.4 | 424.2 |
| 55°   | 472.5 | 467.4 | 469.4 | 477.0 | 483.1 | 473.5 | 458.3 | 454.6 | 451.7 | 452.9 |
| 57.5° | 502.7 | 497.6 | 499.3 | 511.0 | 518.5 | 507.1 | 488.0 | 480.2 | 478.5 | 478.2 |
| 60°   | 533.6 | 527.8 | 529.9 | 548.1 | 557.0 | 541.8 | 513.8 | 504.4 | 502.8 | 502.7 |
| 62.5° | 567.8 | 563.8 | 566.8 | 587.9 | 598.2 | 576.6 | 541.3 | 530.5 | 531.0 | 529.9 |
| 65°   | 610.5 | 607.3 | 612.6 | 638.4 | 651.1 | 619.3 | 577.0 | 564.5 | 566.0 | 565.8 |
| 67.5° | 671.6 | 667.8 | 671.0 | 707.1 | 718.4 | 677.7 | 626.4 | 614.1 | 616.5 | 620.3 |
| 70°   | 710.0 | 712.8 | 741.7 | 792.3 | 823.4 | 781.9 | 714.0 | 690.9 | 692.1 | 692.6 |
| 72°   | 686.0 | 693.3 | 736.1 | 811.8 | 874.0 | 815.0 | 722.6 | 681.6 | 675.5 | 676.2 |
| 72.5° | 679.6 | 685.2 | 728.2 | 803.6 | 869.8 | 807.9 | 713.3 | 674.5 | 664.7 | 665.1 |
| 75°   | 631.3 | 641.9 | 683.3 | 761.8 | 832.7 | 772.3 | 677.6 | 636.2 | 628.6 | 628.6 |
| 77.5° | 548.1 | 562.9 | 605.3 | 715.5 | 800.6 | 734.8 | 632.1 | 581.0 | 573.2 | 570.4 |
| 80°   | 403.3 | 425.0 | 466.7 | 575.6 | 667.4 | 607.3 | 520.4 | 467.7 | 455.6 | 451.2 |
| 82.5° | 158.8 | 177.6 | 247.6 | 346.7 | 439.9 | 374.4 | 283.1 | 236.1 | 198.5 | 194.5 |
| 85°   | 19.7  | 31.9  | 62.5  | 114.3 | 174.7 | 124.2 | 74.1  | 38.8  | 20.9  | 17.6  |
| 87.5° | 5.7   | 10.8  | 11.8  | 19.2  | 22.8  | 20.9  | 13.2  | 11.8  | 6.6   | 5.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)