

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: P553690

Luminaire Tested: **LXS-VA1-730-U-ASW-C**

Issue Date: 7/13/2021

Test Information

Test Method: LM-79-08
Report Number: P553690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1803-687-23-R2)
Test Lab: INNOVATION CENTER
Issue Date: 7/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: LXS-VA1-730-U-ASW-C
Description: LUXESCAPE OUTDOOR ARCHITECTURAL LUMINAIRE
70 CRI, 3000K LEDS AND TYPE III OPTIC, CANTILEVER MOUNT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2213 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

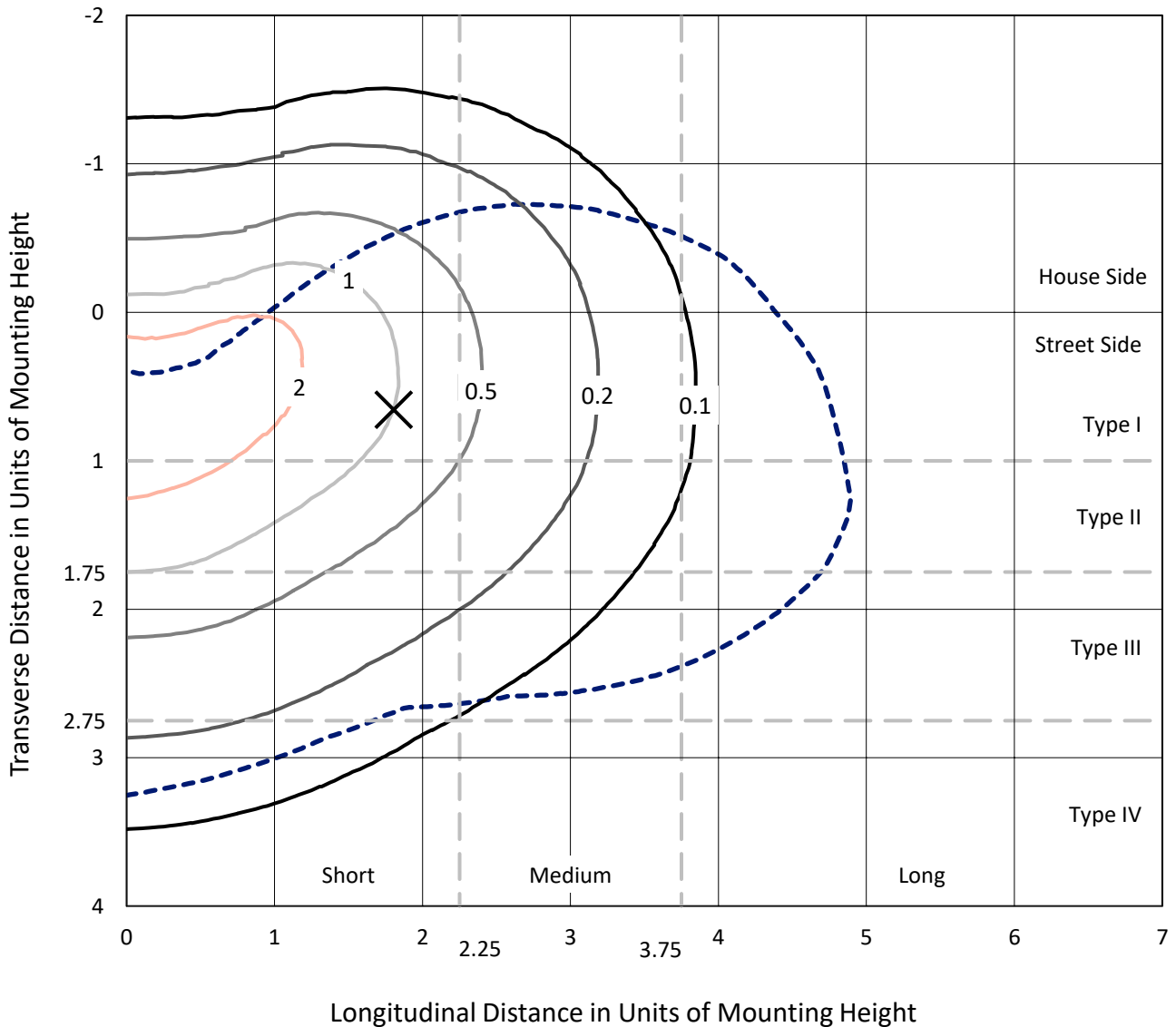
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

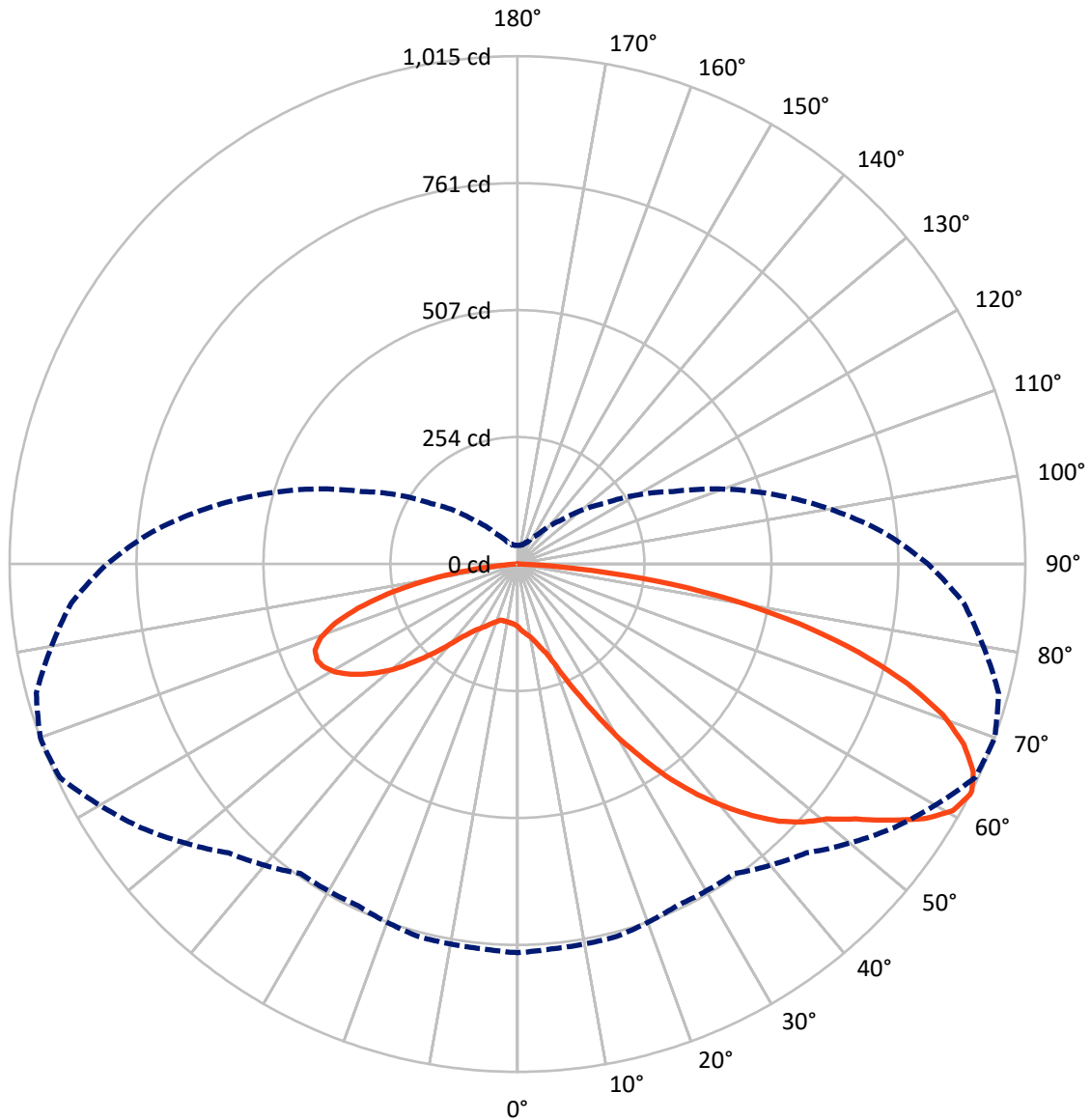
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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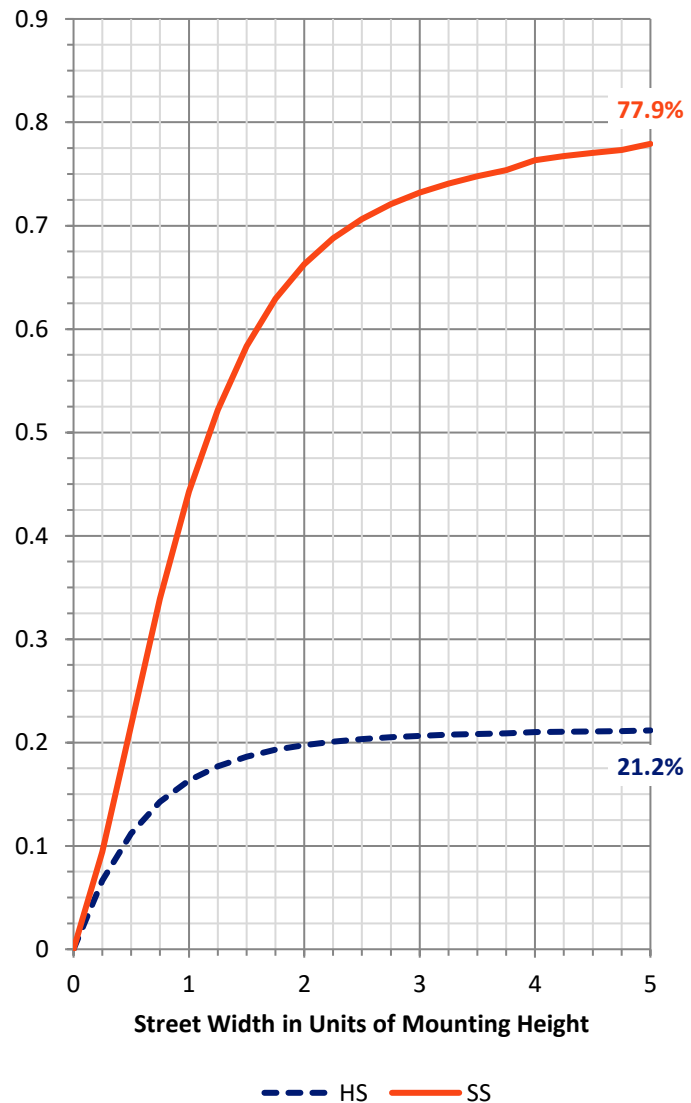
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 470.9 | 0.0 | 470.9 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 1742.1 | 0.0 | 1742.1 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 2213.0 | 0.0 | 2213.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 12.7 | 0.6 |
| 10°-20° | 48.8 | 2.2 |
| 20°-30° | 121.9 | 5.5 |
| 30°-40° | 232.3 | 10.5 |
| 40°-50° | 349.5 | 15.8 |
| 50°-60° | 474.0 | 21.4 |
| 60°-70° | 517.2 | 23.4 |
| 70°-80° | 371.2 | 16.8 |
| 80°-90° | 85.3 | 3.9 |
| 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° | 2213.0 | 100.0 |
| 0°-180° | 2213.0 | 100.0 |



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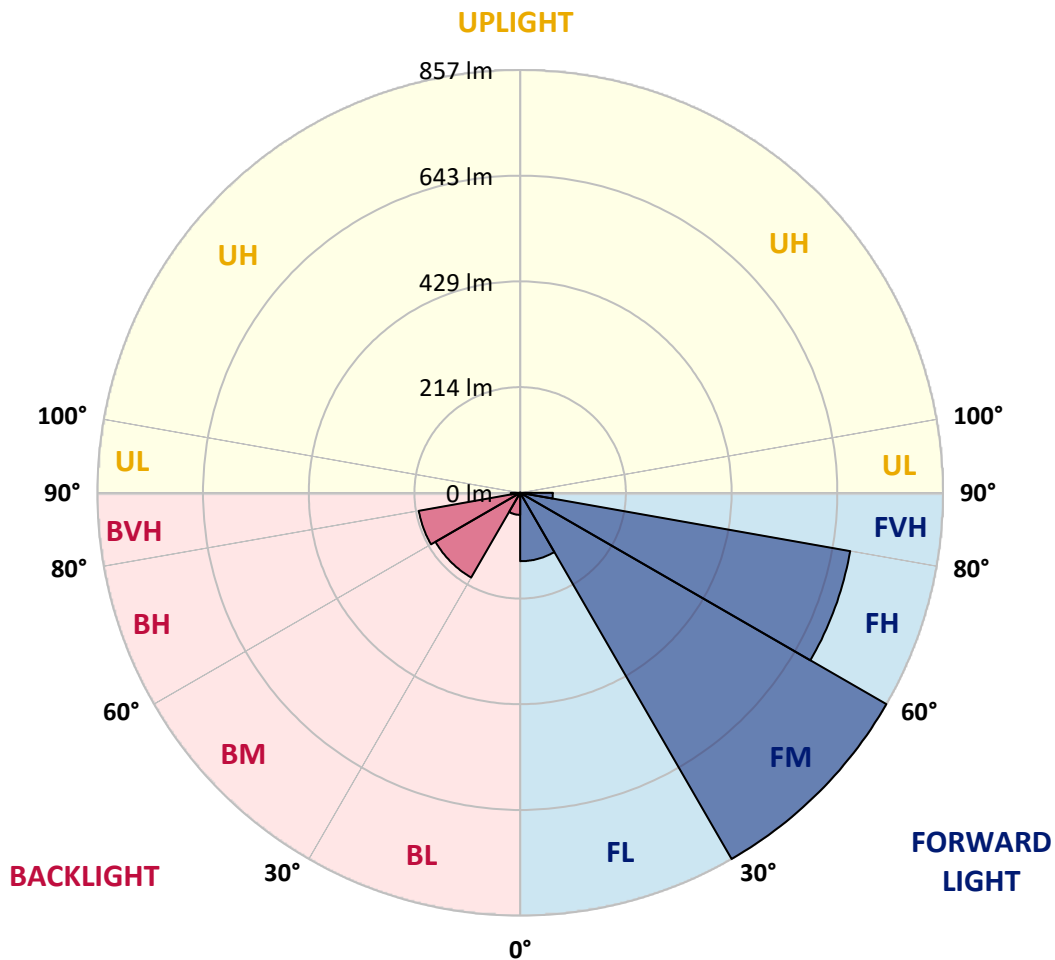
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 138.7 | 6.3 | | | |
| FM | (30°-60°) | 857.4 | 38.7 | | | |
| FH | (60°-80°) | 679.6 | 30.7 | | | G1/1800 |
| FVH | (80°-90°) | 66.3 | 3.0 | | | G1/100 |
| BL | (0°-30°) | 44.7 | 2.0 | B0/110 | | |
| BM | (30°-60°) | 198.5 | 9.0 | B0/220 | | |
| BH | (60°-80°) | 208.8 | 9.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 18.9 | 0.9 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|
| 0° | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 |
| 2.5° | 141.8 | 141.8 | 140.8 | 139.9 | 139.0 | 138.1 | 135.3 | 132.5 | 131.6 | 130.7 | 127.9 |
| 5° | 160.3 | 160.3 | 158.5 | 156.6 | 152.9 | 150.1 | 144.6 | 139.9 | 137.1 | 135.3 | 129.7 |
| 7.5° | 182.5 | 181.6 | 178.8 | 174.2 | 167.7 | 161.2 | 153.8 | 146.4 | 142.7 | 139.0 | 132.5 |
| 10° | 207.6 | 205.7 | 200.1 | 192.7 | 183.5 | 174.2 | 163.1 | 153.8 | 149.2 | 144.6 | 135.3 |
| 12.5° | 244.6 | 241.8 | 229.8 | 218.7 | 203.9 | 190.0 | 177.9 | 165.9 | 159.4 | 152.9 | 139.9 |
| 15° | 303.0 | 297.4 | 278.0 | 259.5 | 235.4 | 218.7 | 197.4 | 181.6 | 173.3 | 163.1 | 146.4 |
| 17.5° | 421.6 | 415.1 | 377.1 | 331.7 | 289.1 | 261.3 | 224.2 | 198.3 | 187.2 | 174.2 | 152.0 |
| 20° | 484.6 | 481.8 | 464.2 | 432.7 | 372.5 | 322.5 | 274.3 | 229.8 | 214.0 | 197.4 | 165.9 |
| 22.5° | 509.6 | 507.8 | 495.7 | 482.8 | 453.1 | 392.0 | 330.8 | 274.3 | 252.0 | 227.9 | 185.3 |
| 25° | 548.6 | 547.6 | 532.8 | 511.5 | 495.7 | 459.6 | 387.3 | 326.2 | 294.7 | 265.9 | 209.4 |
| 27.5° | 575.4 | 577.3 | 572.6 | 557.8 | 525.4 | 506.9 | 445.7 | 382.7 | 348.4 | 311.3 | 239.1 |
| 30° | 633.8 | 630.1 | 618.1 | 603.2 | 577.3 | 543.9 | 509.6 | 442.0 | 408.6 | 364.2 | 282.6 |
| 32.5° | 740.4 | 731.1 | 691.3 | 652.3 | 621.8 | 582.8 | 562.5 | 497.6 | 466.1 | 420.7 | 329.9 |
| 35° | 786.7 | 786.7 | 766.3 | 713.5 | 663.5 | 632.9 | 603.2 | 555.0 | 528.2 | 481.8 | 384.5 |
| 37.5° | 806.2 | 806.2 | 790.4 | 761.7 | 708.9 | 673.6 | 642.1 | 610.6 | 583.8 | 543.9 | 441.1 |
| 40° | 830.2 | 825.6 | 802.4 | 775.6 | 743.1 | 707.0 | 687.5 | 661.6 | 636.6 | 604.2 | 496.7 |
| 42.5° | 812.6 | 815.4 | 803.4 | 776.5 | 759.8 | 735.7 | 726.5 | 707.0 | 686.6 | 658.8 | 551.3 |
| 45° | 743.1 | 747.8 | 767.2 | 771.9 | 753.3 | 755.2 | 759.8 | 747.8 | 733.0 | 709.8 | 606.0 |
| 47.5° | 747.8 | 747.8 | 756.1 | 758.0 | 760.8 | 771.9 | 787.6 | 786.7 | 770.0 | 755.2 | 653.3 |
| 50° | 805.2 | 799.7 | 784.8 | 782.1 | 783.9 | 788.5 | 813.6 | 819.1 | 800.6 | 792.3 | 702.4 |
| 52.5° | 840.4 | 833.0 | 799.7 | 790.4 | 796.9 | 815.4 | 853.4 | 859.0 | 846.0 | 825.6 | 746.9 |
| 55° | 903.4 | 898.8 | 855.3 | 805.2 | 811.7 | 845.1 | 899.7 | 911.8 | 903.4 | 867.3 | 793.2 |
| 57.5° | 875.7 | 871.0 | 861.8 | 812.6 | 819.1 | 856.2 | 932.2 | 965.5 | 960.0 | 922.9 | 834.9 |
| 60° | 821.9 | 819.1 | 819.1 | 793.2 | 798.7 | 845.1 | 938.7 | 1002.6 | 999.8 | 970.2 | 871.9 |
| 62.5° | 776.5 | 771.9 | 770.0 | 753.3 | 755.2 | 816.3 | 918.3 | 1009.1 | 1014.6 | 995.2 | 895.1 |
| 63° | 765.4 | 760.8 | 760.8 | 743.1 | 745.9 | 808.9 | 911.8 | 1007.2 | 1014.6 | 997.0 | 897.0 |
| 65° | 707.9 | 706.1 | 715.3 | 700.5 | 707.9 | 773.7 | 879.4 | 987.8 | 1000.7 | 992.4 | 898.8 |
| 67.5° | 635.7 | 632.9 | 649.6 | 640.3 | 654.2 | 720.0 | 825.6 | 940.5 | 961.8 | 958.1 | 878.4 |
| 70° | 577.3 | 572.6 | 576.4 | 578.2 | 590.3 | 655.1 | 758.9 | 868.2 | 901.6 | 903.4 | 829.3 |
| 72.5° | 517.1 | 511.5 | 505.0 | 504.1 | 517.1 | 579.1 | 677.4 | 775.6 | 813.6 | 818.2 | 755.2 |
| 75° | 444.8 | 439.2 | 431.8 | 428.1 | 439.2 | 494.8 | 583.8 | 668.1 | 704.2 | 709.8 | 655.1 |
| 77.5° | 367.9 | 365.1 | 354.9 | 349.3 | 357.7 | 404.0 | 480.0 | 547.6 | 576.4 | 582.8 | 533.7 |
| 80° | 287.3 | 283.5 | 271.5 | 263.2 | 271.5 | 308.6 | 365.1 | 415.1 | 433.7 | 439.2 | 394.7 |
| 82.5° | 196.4 | 197.4 | 181.6 | 175.1 | 180.7 | 206.6 | 242.8 | 272.4 | 281.7 | 281.7 | 253.9 |
| 85° | 89.0 | 92.7 | 85.2 | 83.4 | 85.2 | 93.6 | 110.3 | 115.8 | 115.8 | 117.7 | 104.7 |
| 87.5° | 3.7 | 3.7 | 3.7 | 3.7 | 2.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.9 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 | 125.1 |
| 2.5° | 126.0 | 125.1 | 122.3 | 120.5 | 118.6 | 117.7 | 115.8 | 114.9 | 114.9 | 114.0 | 114.9 |
| 5° | 126.9 | 125.1 | 121.4 | 117.7 | 114.0 | 112.1 | 109.3 | 107.5 | 106.6 | 106.6 | 106.6 |
| 7.5° | 128.8 | 126.0 | 120.5 | 115.8 | 111.2 | 107.5 | 104.7 | 102.9 | 101.0 | 100.1 | 100.1 |
| 10° | 131.6 | 127.9 | 120.5 | 114.0 | 108.4 | 104.7 | 101.0 | 98.2 | 96.4 | 95.4 | 95.4 |
| 12.5° | 134.4 | 129.7 | 120.5 | 113.0 | 107.5 | 101.9 | 98.2 | 94.5 | 92.7 | 90.8 | 90.8 |
| 15° | 139.0 | 132.5 | 121.4 | 112.1 | 105.6 | 99.1 | 94.5 | 90.8 | 88.0 | 87.1 | 87.1 |
| 17.5° | 143.6 | 136.2 | 122.3 | 112.1 | 104.7 | 97.3 | 91.7 | 87.1 | 84.3 | 83.4 | 83.4 |
| 20° | 154.7 | 145.5 | 127.9 | 114.9 | 104.7 | 96.4 | 89.9 | 84.3 | 80.6 | 78.8 | 78.8 |
| 22.5° | 168.6 | 156.6 | 134.4 | 118.6 | 105.6 | 95.4 | 88.0 | 81.5 | 77.8 | 75.1 | 75.1 |
| 25° | 188.1 | 170.5 | 141.8 | 122.3 | 106.6 | 95.4 | 86.2 | 78.8 | 74.1 | 71.3 | 71.3 |
| 27.5° | 208.5 | 187.2 | 152.0 | 126.9 | 109.3 | 95.4 | 84.3 | 76.0 | 70.4 | 67.6 | 67.6 |
| 30° | 240.0 | 207.6 | 161.2 | 132.5 | 112.1 | 94.5 | 82.5 | 73.2 | 66.7 | 63.0 | 63.0 |
| 32.5° | 279.8 | 240.0 | 171.4 | 139.0 | 114.0 | 95.4 | 80.6 | 69.5 | 63.0 | 59.3 | 59.3 |
| 35° | 322.5 | 275.2 | 190.0 | 143.6 | 116.8 | 94.5 | 77.8 | 66.7 | 59.3 | 56.5 | 55.6 |
| 37.5° | 376.2 | 317.8 | 213.1 | 150.1 | 119.5 | 94.5 | 76.9 | 63.9 | 57.5 | 53.7 | 53.7 |
| 40° | 427.2 | 366.0 | 243.7 | 163.1 | 121.4 | 95.4 | 76.0 | 63.0 | 56.5 | 52.8 | 51.9 |
| 42.5° | 480.0 | 411.4 | 279.8 | 180.7 | 125.1 | 98.2 | 76.0 | 62.1 | 54.7 | 51.0 | 51.0 |
| 45° | 532.8 | 457.7 | 315.0 | 202.9 | 134.4 | 100.1 | 76.0 | 61.2 | 52.8 | 50.0 | 49.1 |
| 47.5° | 581.9 | 507.8 | 352.1 | 227.0 | 145.5 | 101.0 | 76.0 | 59.3 | 51.0 | 48.2 | 47.3 |
| 50° | 629.2 | 554.1 | 391.0 | 254.8 | 156.6 | 101.0 | 76.0 | 58.4 | 50.0 | 46.3 | 46.3 |
| 52.5° | 674.6 | 600.4 | 426.2 | 278.0 | 169.6 | 107.5 | 75.1 | 57.5 | 48.2 | 45.4 | 44.5 |
| 55° | 715.3 | 638.4 | 459.6 | 299.3 | 182.5 | 113.0 | 75.1 | 55.6 | 46.3 | 43.6 | 42.6 |
| 57.5° | 756.1 | 672.7 | 489.3 | 317.8 | 195.5 | 118.6 | 74.1 | 54.7 | 44.5 | 41.7 | 41.7 |
| 60° | 794.1 | 707.0 | 515.2 | 332.7 | 204.8 | 122.3 | 72.3 | 51.9 | 42.6 | 39.8 | 38.9 |
| 62.5° | 820.1 | 733.0 | 533.7 | 341.9 | 210.3 | 124.2 | 72.3 | 49.1 | 39.8 | 37.1 | 37.1 |
| 63° | 823.8 | 737.6 | 536.5 | 342.8 | 211.3 | 125.1 | 72.3 | 49.1 | 39.8 | 37.1 | 36.1 |
| 65° | 826.5 | 745.9 | 543.0 | 344.7 | 212.2 | 125.1 | 70.4 | 46.3 | 37.1 | 34.3 | 34.3 |
| 67.5° | 810.8 | 737.6 | 537.4 | 341.0 | 207.6 | 121.4 | 67.6 | 41.7 | 33.4 | 30.6 | 30.6 |
| 70° | 770.0 | 702.4 | 512.4 | 326.2 | 197.4 | 114.0 | 63.0 | 37.1 | 29.7 | 26.9 | 26.9 |
| 72.5° | 699.6 | 641.2 | 467.9 | 298.4 | 179.8 | 103.8 | 56.5 | 32.4 | 25.9 | 24.1 | 23.2 |
| 75° | 605.1 | 555.0 | 403.1 | 258.5 | 154.7 | 89.0 | 49.1 | 27.8 | 21.3 | 19.5 | 19.5 |
| 77.5° | 489.3 | 454.0 | 324.3 | 207.6 | 125.1 | 72.3 | 39.8 | 23.2 | 16.7 | 15.8 | 15.8 |
| 80° | 359.5 | 331.7 | 233.5 | 151.0 | 89.9 | 52.8 | 29.7 | 17.6 | 11.1 | 11.1 | 11.1 |
| 82.5° | 219.6 | 203.9 | 140.8 | 90.8 | 52.8 | 31.5 | 18.5 | 11.1 | 7.4 | 6.5 | 6.5 |
| 85° | 86.2 | 83.4 | 54.7 | 30.6 | 15.8 | 10.2 | 7.4 | 4.6 | 3.7 | 2.8 | 1.9 |
| 87.5° | 0.9 | 0.9 | 1.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)