

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: P673883

Luminaire Tested: **CCP-SA-1B-830-U-SL3-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673883
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-830-U-SL3-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SL3 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

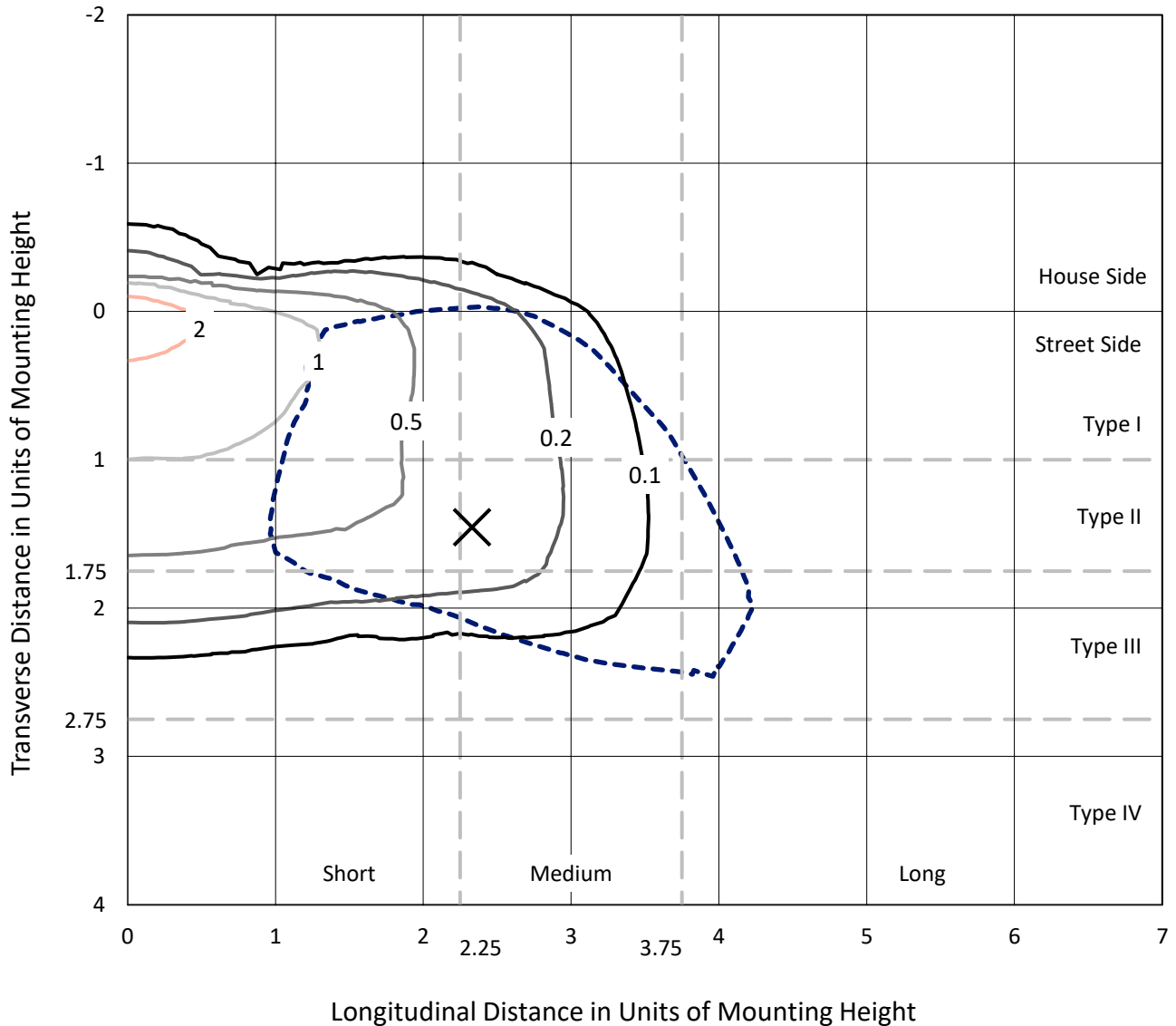
Lumens per Lamp: N/A
Luminaire Lumens: 2267.7 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
Input Voltage (V): 120
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

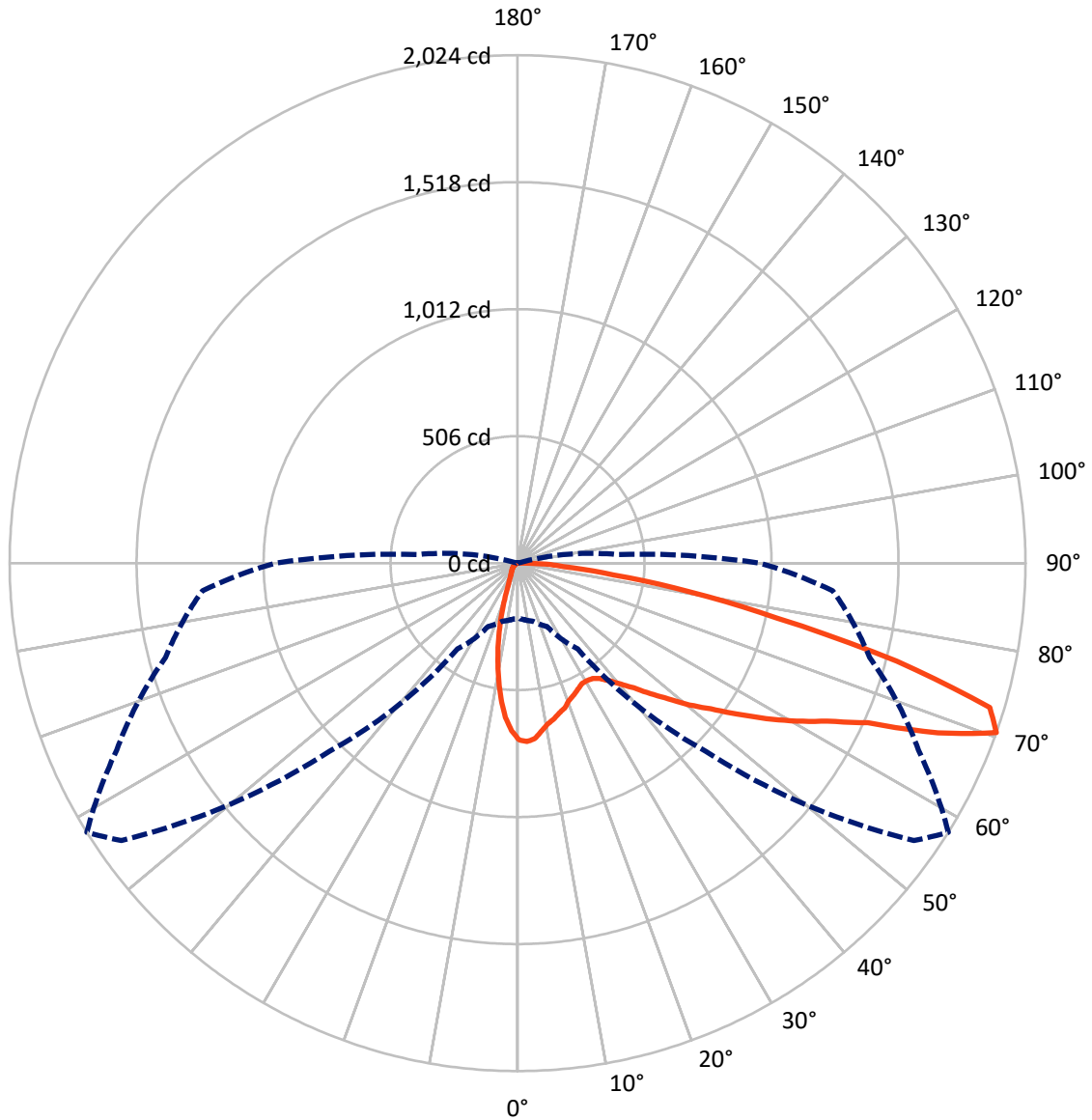
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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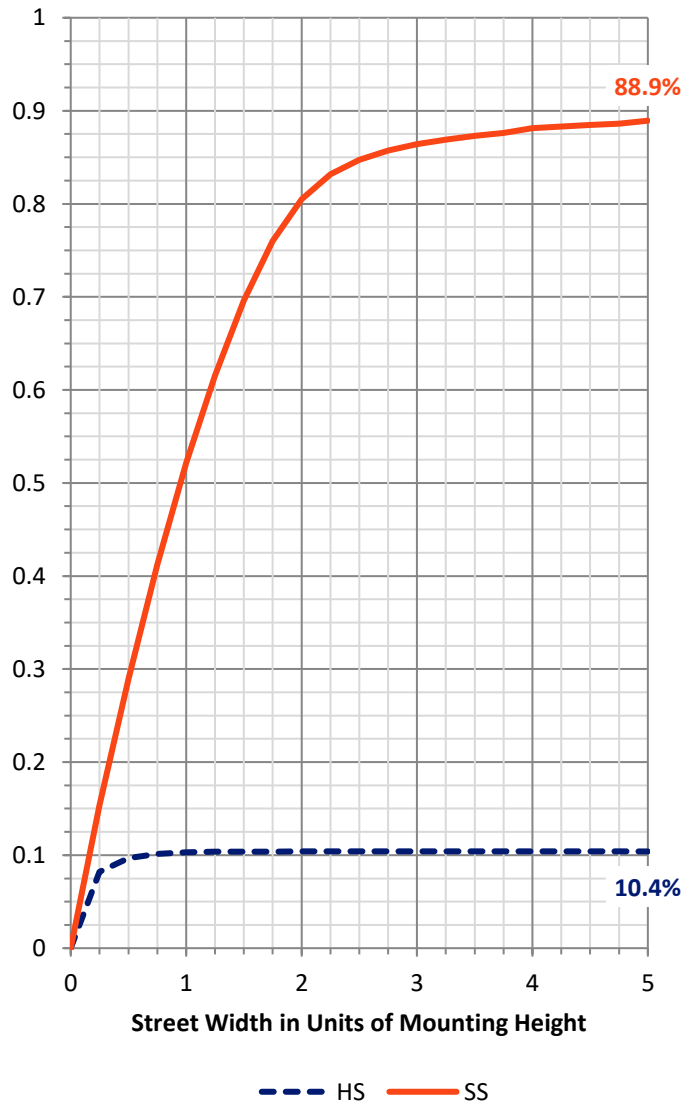
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 237.5 | 0.0 | 237.5 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 2030.2 | 0.0 | 2030.2 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 2267.7 | 0.0 | 2267.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.4 | 2.5 |
| 10°-20° | 119.6 | 5.3 |
| 20°-30° | 160.1 | 7.1 |
| 30°-40° | 216.4 | 9.5 |
| 40°-50° | 310.6 | 13.7 |
| 50°-60° | 457.8 | 20.2 |
| 60°-70° | 558.4 | 24.6 |
| 70°-80° | 341.0 | 15.0 |
| 80°-90° | 46.3 | 2.0 |
| 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° | 2267.7 | 100.0 |
| 0°-180° | 2267.7 | 100.0 |



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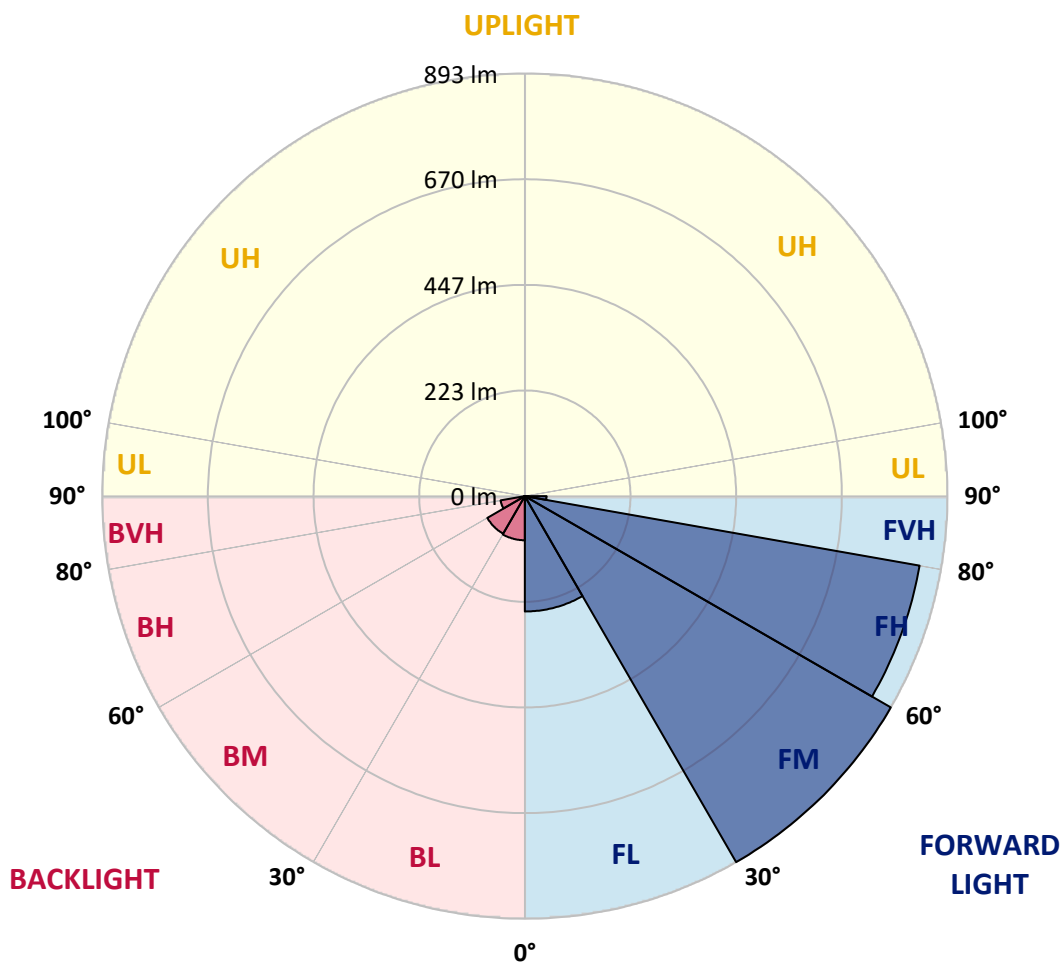
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 243.8 | 10.8 | | | |
| FM (30°-60°) | 893.2 | 39.4 | | | |
| FH (60°-80°) | 847.3 | 37.4 | | | G1/1800 |
| FVH (80°-90°) | 45.9 | 2.0 | | | G1/100 |
| BL (0°-30°) | 93.3 | 4.1 | B0/110 | | |
| BM (30°-60°) | 91.7 | 4.0 | B0/220 | | |
| BH (60°-80°) | 52.0 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 |
| 2.5° | 716.7 | 719.4 | 713.0 | 720.4 | 713.5 | 716.7 | 713.0 | 711.9 | 712.5 | 713.0 | 708.7 |
| 5° | 683.2 | 689.6 | 692.3 | 688.0 | 698.1 | 696.5 | 702.9 | 703.4 | 700.8 | 698.1 | 698.6 |
| 7.5° | 639.1 | 645.5 | 648.1 | 650.8 | 660.9 | 674.2 | 682.7 | 677.4 | 681.6 | 691.2 | 676.8 |
| 10° | 607.2 | 605.6 | 605.1 | 610.4 | 629.5 | 640.7 | 655.0 | 653.4 | 664.1 | 673.1 | 661.4 |
| 12.5° | 567.8 | 564.7 | 574.2 | 578.5 | 595.5 | 615.2 | 626.3 | 638.0 | 648.7 | 658.2 | 644.9 |
| 15° | 538.6 | 541.3 | 545.0 | 554.0 | 566.3 | 592.3 | 608.8 | 620.0 | 639.1 | 643.9 | 638.6 |
| 17.5° | 515.2 | 517.3 | 522.7 | 527.4 | 542.9 | 567.8 | 593.9 | 607.2 | 627.4 | 640.2 | 623.7 |
| 20° | 515.7 | 509.4 | 509.4 | 514.1 | 522.7 | 552.4 | 580.1 | 584.3 | 612.0 | 633.8 | 622.6 |
| 22.5° | 516.3 | 514.1 | 509.4 | 508.8 | 512.5 | 533.8 | 562.0 | 571.6 | 601.3 | 626.9 | 613.6 |
| 25° | 523.7 | 515.7 | 516.3 | 508.8 | 510.4 | 521.1 | 543.4 | 557.7 | 591.8 | 630.6 | 608.8 |
| 27.5° | 530.1 | 533.8 | 526.4 | 523.2 | 514.1 | 513.6 | 532.2 | 544.5 | 587.0 | 639.1 | 612.0 |
| 30° | 544.5 | 547.1 | 547.1 | 545.0 | 536.5 | 524.2 | 528.5 | 543.9 | 577.4 | 637.5 | 606.7 |
| 32.5° | 568.4 | 563.6 | 570.0 | 566.8 | 555.6 | 536.5 | 540.2 | 548.2 | 583.3 | 657.7 | 615.2 |
| 35° | 576.4 | 580.1 | 588.6 | 581.7 | 577.9 | 566.8 | 559.3 | 565.2 | 591.8 | 677.9 | 627.9 |
| 37.5° | 600.8 | 595.5 | 601.3 | 616.8 | 620.5 | 600.3 | 585.9 | 594.4 | 623.7 | 701.8 | 639.6 |
| 40° | 602.9 | 607.2 | 617.8 | 648.1 | 651.9 | 643.3 | 631.6 | 633.8 | 655.6 | 732.7 | 668.9 |
| 42.5° | 613.6 | 618.4 | 640.2 | 665.7 | 685.9 | 687.5 | 679.0 | 679.0 | 697.6 | 782.1 | 701.3 |
| 45° | 634.3 | 626.3 | 654.5 | 697.6 | 726.8 | 732.7 | 743.8 | 741.2 | 756.1 | 834.2 | 761.9 |
| 47.5° | 642.3 | 644.9 | 675.8 | 727.9 | 761.4 | 788.5 | 807.1 | 807.6 | 815.1 | 900.7 | 840.6 |
| 50° | 668.3 | 667.8 | 705.0 | 753.4 | 802.9 | 852.3 | 888.5 | 888.5 | 887.9 | 965.5 | 908.1 |
| 52.5° | 702.9 | 701.8 | 730.5 | 788.0 | 852.3 | 914.5 | 962.4 | 964.0 | 976.2 | 1045.3 | 985.8 |
| 55° | 759.3 | 754.5 | 782.1 | 824.7 | 901.7 | 977.2 | 1060.2 | 1060.7 | 1051.2 | 1102.2 | 1041.6 |
| 57.5° | 806.6 | 806.0 | 828.9 | 869.8 | 957.0 | 1058.1 | 1154.3 | 1168.7 | 1138.3 | 1160.7 | 1086.2 |
| 60° | 794.3 | 801.3 | 848.6 | 909.2 | 1015.5 | 1159.1 | 1255.9 | 1278.2 | 1229.8 | 1200.6 | 1119.7 |
| 62.5° | 718.3 | 734.3 | 785.8 | 882.6 | 1065.0 | 1305.8 | 1395.7 | 1385.6 | 1277.7 | 1234.6 | 1160.7 |
| 65° | 516.8 | 532.8 | 596.6 | 741.7 | 1007.6 | 1409.5 | 1579.7 | 1533.9 | 1362.7 | 1285.1 | 1215.4 |
| 67.5° | 304.1 | 310.5 | 350.4 | 473.2 | 753.4 | 1353.2 | 1803.0 | 1806.7 | 1530.2 | 1362.7 | 1310.1 |
| 70° | 219.6 | 224.4 | 239.8 | 279.1 | 417.4 | 1060.7 | 1927.4 | 2024.1 | 1762.6 | 1452.0 | 1260.1 |
| 72.5° | 168.5 | 168.5 | 194.6 | 232.3 | 265.8 | 635.4 | 1773.7 | 1967.8 | 1813.1 | 1366.4 | 1015.5 |
| 75° | 121.2 | 124.4 | 152.6 | 199.9 | 245.1 | 319.0 | 1306.9 | 1561.6 | 1536.6 | 1107.5 | 709.3 |
| 77.5° | 69.7 | 71.2 | 107.4 | 167.5 | 230.2 | 219.1 | 807.6 | 1058.6 | 1088.4 | 693.3 | 307.3 |
| 80° | 35.6 | 36.7 | 60.1 | 132.4 | 208.4 | 190.9 | 481.7 | 697.0 | 591.2 | 201.5 | 71.2 |
| 82.5° | 17.5 | 17.5 | 27.1 | 84.5 | 177.1 | 169.1 | 283.4 | 384.9 | 209.5 | 46.3 | 29.8 |
| 85° | 5.8 | 6.4 | 12.2 | 47.9 | 128.1 | 102.1 | 173.3 | 182.9 | 70.2 | 17.5 | 16.5 |
| 87.5° | 1.6 | 2.1 | 3.2 | 17.5 | 55.8 | 67.0 | 103.1 | 117.0 | 28.7 | 6.9 | 8.0 |
| 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° | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 | 704.0 |
| 2.5° | 692.8 | 689.1 | 684.8 | 674.2 | 665.7 | 654.5 | 647.1 | 641.2 | 630.1 | 632.2 | 627.4 |
| 5° | 685.9 | 679.0 | 654.5 | 631.1 | 609.8 | 577.4 | 555.1 | 540.7 | 529.0 | 517.3 | 525.8 |
| 7.5° | 673.7 | 657.2 | 618.9 | 575.3 | 530.1 | 487.6 | 445.0 | 419.5 | 400.9 | 383.9 | 383.3 |
| 10° | 652.9 | 626.3 | 566.3 | 509.4 | 439.7 | 383.9 | 329.6 | 287.1 | 259.5 | 239.3 | 238.7 |
| 12.5° | 629.5 | 601.9 | 526.4 | 433.9 | 353.6 | 274.9 | 210.0 | 164.8 | 138.8 | 122.8 | 120.7 |
| 15° | 614.6 | 574.2 | 476.4 | 366.9 | 267.4 | 179.2 | 116.4 | 88.3 | 78.2 | 74.4 | 74.4 |
| 17.5° | 595.5 | 549.2 | 426.9 | 297.2 | 185.6 | 103.7 | 75.5 | 68.1 | 67.5 | 66.5 | 65.4 |
| 20° | 587.5 | 530.1 | 382.8 | 237.1 | 117.5 | 73.4 | 64.9 | 63.3 | 63.3 | 62.2 | 61.1 |
| 22.5° | 566.3 | 502.4 | 336.0 | 173.9 | 78.2 | 64.3 | 61.1 | 59.0 | 58.0 | 56.9 | 58.0 |
| 25° | 556.7 | 482.8 | 291.9 | 120.2 | 63.8 | 57.4 | 55.8 | 53.7 | 52.1 | 51.6 | 51.6 |
| 27.5° | 550.3 | 463.1 | 248.8 | 83.5 | 56.4 | 52.6 | 49.4 | 47.9 | 45.7 | 43.6 | 43.6 |
| 30° | 545.5 | 447.7 | 207.4 | 61.7 | 50.5 | 46.8 | 44.1 | 40.4 | 37.8 | 35.6 | 35.6 |
| 32.5° | 539.1 | 429.6 | 165.9 | 52.6 | 45.7 | 42.0 | 37.2 | 34.0 | 30.3 | 28.7 | 28.7 |
| 35° | 541.3 | 417.4 | 130.3 | 46.8 | 40.9 | 36.2 | 31.9 | 27.6 | 23.9 | 22.3 | 21.8 |
| 37.5° | 545.5 | 408.3 | 98.9 | 42.0 | 36.7 | 31.4 | 26.6 | 21.8 | 19.7 | 17.5 | 17.5 |
| 40° | 563.6 | 405.7 | 72.8 | 38.8 | 33.5 | 27.6 | 22.3 | 18.1 | 16.0 | 14.4 | 13.8 |
| 42.5° | 593.9 | 409.4 | 56.4 | 35.1 | 30.3 | 23.4 | 18.6 | 14.9 | 12.8 | 11.2 | 10.6 |
| 45° | 632.7 | 423.8 | 46.3 | 33.0 | 26.6 | 19.7 | 14.9 | 12.2 | 9.6 | 8.5 | 8.5 |
| 47.5° | 689.1 | 446.1 | 40.4 | 30.3 | 23.4 | 16.5 | 12.8 | 9.6 | 7.4 | 6.4 | 6.4 |
| 50° | 752.9 | 471.6 | 35.6 | 27.1 | 20.2 | 13.8 | 10.1 | 7.4 | 5.3 | 4.8 | 4.8 |
| 52.5° | 816.7 | 504.0 | 33.0 | 25.0 | 17.5 | 11.2 | 8.0 | 5.3 | 3.7 | 3.2 | 3.2 |
| 55° | 883.7 | 532.8 | 29.8 | 23.4 | 14.4 | 9.0 | 5.8 | 3.2 | 2.1 | 1.6 | 1.6 |
| 57.5° | 930.5 | 543.9 | 26.1 | 20.2 | 11.2 | 6.9 | 4.3 | 2.1 | 1.1 | 0.5 | 0.5 |
| 60° | 964.0 | 545.5 | 22.3 | 16.5 | 8.5 | 5.3 | 2.7 | 1.1 | 0.5 | 0.0 | 0.0 |
| 62.5° | 992.1 | 548.7 | 19.1 | 12.8 | 6.4 | 3.7 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 |
| 65° | 1048.0 | 546.0 | 15.4 | 10.1 | 4.3 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1092.1 | 519.5 | 12.2 | 6.9 | 2.7 | 1.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 966.1 | 396.1 | 9.6 | 4.8 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 758.7 | 264.3 | 6.4 | 2.7 | 1.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 497.7 | 131.3 | 4.8 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 193.5 | 34.6 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 46.8 | 11.7 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 20.2 | 4.3 | 1.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 12.2 | 2.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.4 | 1.1 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 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)