

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: P674686

Luminaire Tested: **CCP-SA-2A-730-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674686
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-730-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ T3R distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

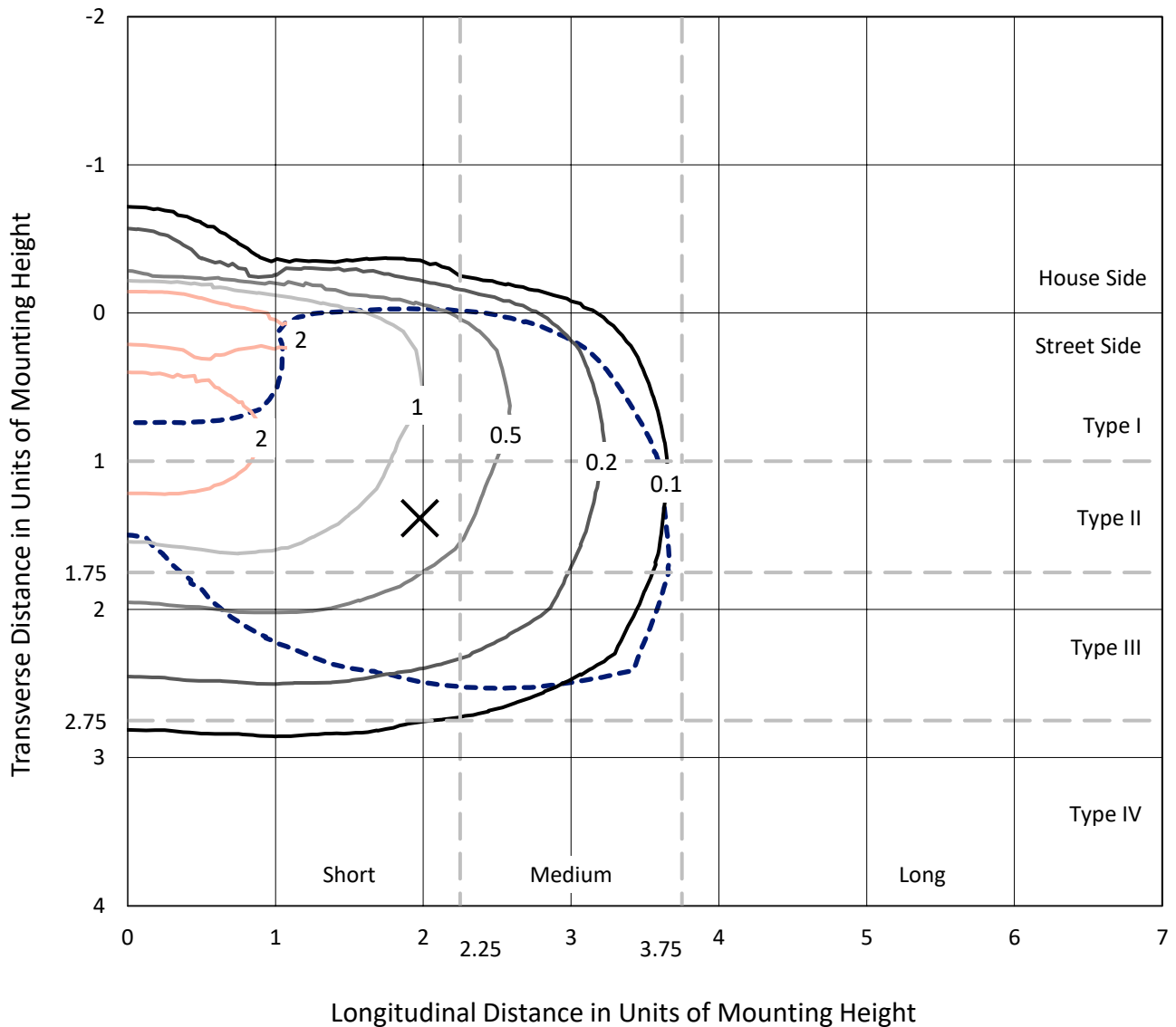
Lumens per Lamp: N/A
Luminaire Lumens: 3951.6 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

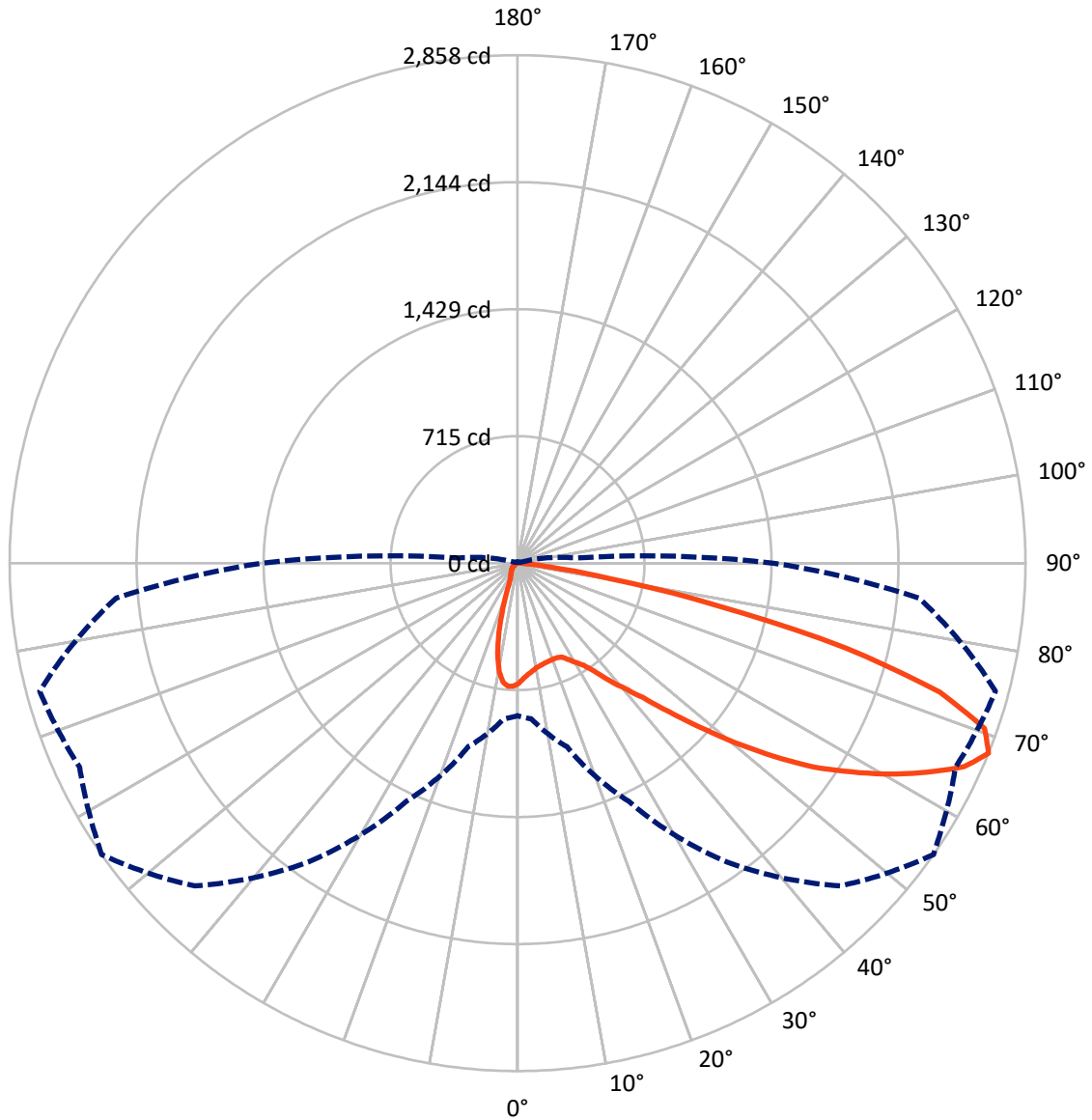
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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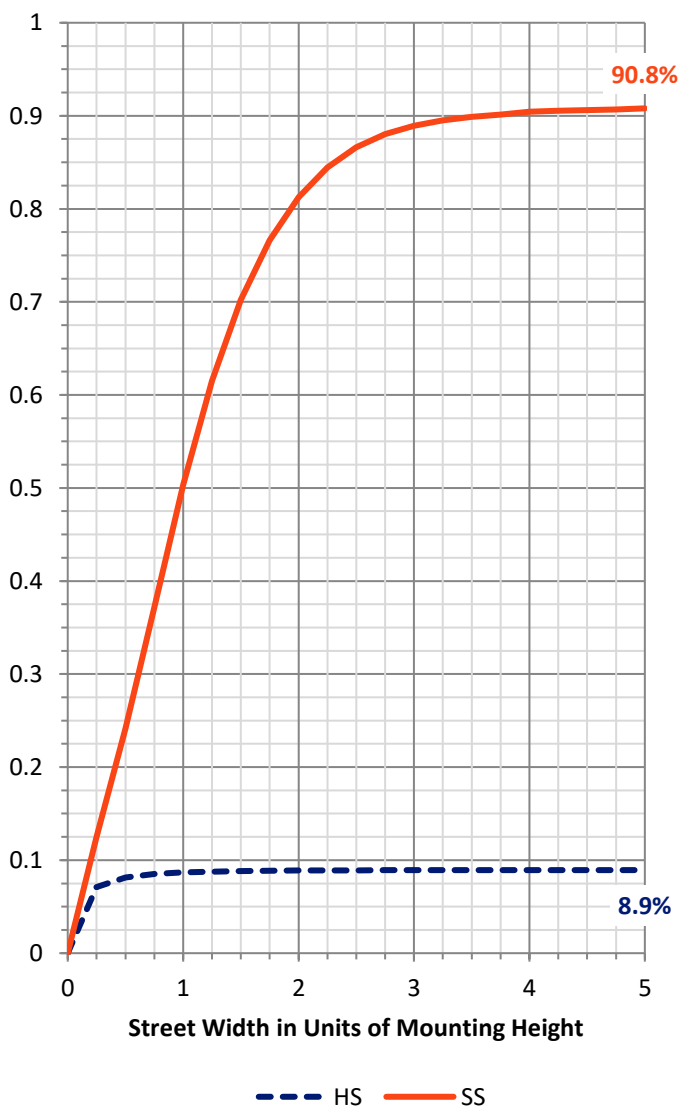
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 355.0 | 0.0 | 355.0 |
| | % Fixture | 9.0 | 0.0 | 9.0 |
| Street Side | Lumens | 3596.6 | 0.0 | 3596.6 |
| | % Fixture | 91.0 | 0.0 | 91.0 |
| Total | Lumens | 3951.6 | 0.0 | 3951.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.4 | 1.5 |
| 10°-20° | 135.3 | 3.4 |
| 20°-30° | 217.1 | 5.5 |
| 30°-40° | 376.5 | 9.5 |
| 40°-50° | 627.8 | 15.9 |
| 50°-60° | 918.1 | 23.2 |
| 60°-70° | 1070.5 | 27.1 |
| 70°-80° | 519.5 | 13.1 |
| 80°-90° | 27.2 | 0.7 |
| 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° | 3951.6 | 100.0 |
| 0°-180° | 3951.6 | 100.0 |



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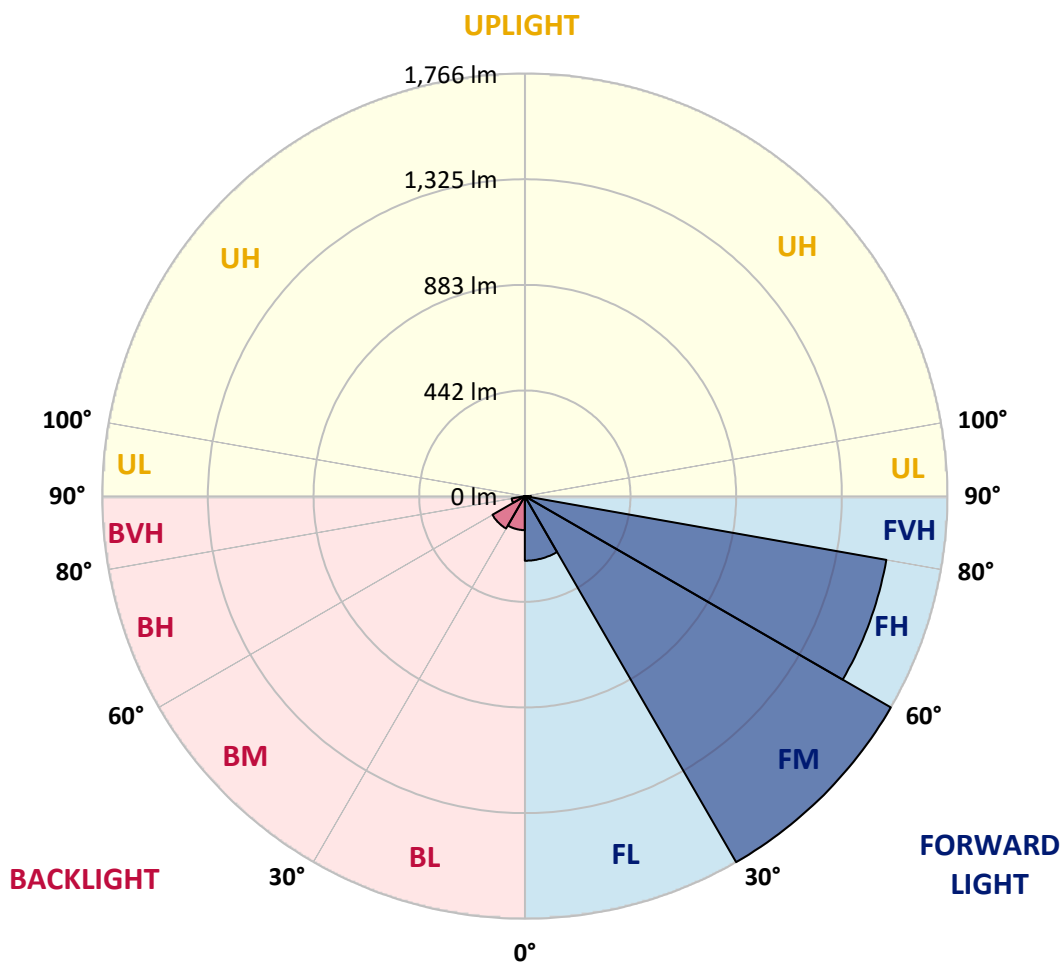
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 269.9 | 6.8 | | | |
| FM (30°-60°) | 1766.2 | 44.7 | | | |
| FH (60°-80°) | 1534.0 | 38.8 | | | G1/1800 |
| FVH (80°-90°) | 26.4 | 0.7 | | | G1/100 |
| BL (0°-30°) | 141.9 | 3.6 | B1/500 | | |
| BM (30°-60°) | 156.3 | 4.0 | B0/220 | | |
| BH (60°-80°) | 56.0 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 |
| 2.5° | 625.1 | 629.1 | 634.2 | 636.0 | 642.2 | 651.0 | 648.4 | 646.6 | 656.4 | 669.9 | 674.3 |
| 5° | 586.2 | 586.5 | 594.5 | 600.4 | 610.9 | 619.3 | 628.4 | 627.7 | 645.5 | 668.4 | 683.0 |
| 7.5° | 547.9 | 548.7 | 557.0 | 566.1 | 581.4 | 597.8 | 611.6 | 610.9 | 639.7 | 670.3 | 697.9 |
| 10° | 497.7 | 501.3 | 511.5 | 527.5 | 551.6 | 577.4 | 596.7 | 598.5 | 633.1 | 677.2 | 718.3 |
| 12.5° | 457.3 | 459.1 | 470.4 | 491.1 | 519.5 | 553.4 | 589.4 | 588.3 | 634.6 | 689.9 | 744.9 |
| 15° | 440.2 | 439.1 | 446.0 | 461.3 | 493.7 | 536.3 | 582.2 | 584.7 | 639.7 | 704.5 | 772.6 |
| 17.5° | 444.2 | 443.1 | 446.7 | 452.2 | 475.1 | 522.1 | 578.2 | 582.5 | 647.7 | 719.8 | 798.4 |
| 20° | 488.6 | 480.9 | 474.4 | 468.6 | 471.8 | 510.4 | 575.6 | 580.3 | 652.4 | 731.4 | 825.7 |
| 22.5° | 574.1 | 564.7 | 547.2 | 514.8 | 493.3 | 511.2 | 576.3 | 582.5 | 663.0 | 750.4 | 858.9 |
| 25° | 713.6 | 704.5 | 667.0 | 600.7 | 543.9 | 537.4 | 586.2 | 592.7 | 687.4 | 779.1 | 894.2 |
| 27.5° | 898.2 | 877.8 | 832.3 | 737.3 | 627.7 | 579.2 | 615.7 | 622.9 | 722.0 | 801.3 | 918.2 |
| 30° | 1051.5 | 1046.7 | 1003.0 | 886.5 | 743.1 | 640.8 | 648.8 | 652.8 | 737.6 | 814.8 | 942.2 |
| 32.5° | 1210.6 | 1200.7 | 1160.7 | 1047.4 | 877.1 | 728.5 | 685.9 | 687.7 | 758.0 | 834.8 | 977.2 |
| 35° | 1348.9 | 1339.8 | 1306.3 | 1196.4 | 1033.6 | 846.5 | 747.4 | 743.4 | 800.2 | 878.9 | 1024.5 |
| 37.5° | 1477.1 | 1476.0 | 1446.5 | 1334.3 | 1174.1 | 968.8 | 838.1 | 834.8 | 866.1 | 927.3 | 1088.6 |
| 40° | 1602.3 | 1599.4 | 1574.3 | 1472.0 | 1312.5 | 1090.8 | 924.4 | 916.0 | 922.2 | 995.0 | 1173.1 |
| 42.5° | 1679.1 | 1685.3 | 1694.0 | 1629.2 | 1476.7 | 1233.9 | 1033.6 | 1028.5 | 1027.4 | 1101.0 | 1284.1 |
| 45° | 1720.6 | 1731.5 | 1782.9 | 1777.1 | 1650.7 | 1411.9 | 1189.1 | 1176.0 | 1171.6 | 1246.6 | 1411.2 |
| 47.5° | 1761.0 | 1765.8 | 1849.9 | 1885.2 | 1817.5 | 1597.6 | 1376.9 | 1358.7 | 1340.9 | 1424.3 | 1563.0 |
| 50° | 1763.6 | 1771.2 | 1875.4 | 1961.3 | 1957.3 | 1780.3 | 1587.7 | 1571.7 | 1551.3 | 1640.5 | 1711.2 |
| 52.5° | 1727.9 | 1743.2 | 1872.1 | 2009.3 | 2043.9 | 1941.6 | 1806.5 | 1793.4 | 1776.7 | 1843.3 | 1836.0 |
| 55° | 1481.4 | 1507.3 | 1808.0 | 2013.7 | 2104.7 | 2080.0 | 2026.5 | 2008.2 | 1991.9 | 2039.2 | 1958.4 |
| 57.5° | 1364.2 | 1378.8 | 1613.6 | 2010.4 | 2182.3 | 2208.1 | 2217.2 | 2208.9 | 2185.9 | 2244.9 | 2086.2 |
| 60° | 1293.9 | 1315.0 | 1520.7 | 1974.0 | 2266.0 | 2353.0 | 2410.2 | 2393.4 | 2365.4 | 2446.6 | 2223.1 |
| 62.5° | 1209.8 | 1225.1 | 1428.3 | 1869.2 | 2315.9 | 2500.5 | 2591.1 | 2575.8 | 2518.0 | 2632.6 | 2333.7 |
| 65° | 1054.7 | 1077.7 | 1281.2 | 1704.2 | 2248.9 | 2608.6 | 2761.5 | 2756.4 | 2655.9 | 2773.2 | 2364.0 |
| 67.5° | 858.5 | 879.2 | 1068.9 | 1478.2 | 2053.0 | 2568.2 | 2858.0 | 2842.0 | 2718.6 | 2783.7 | 2268.2 |
| 70° | 644.4 | 655.7 | 798.8 | 1129.4 | 1682.0 | 2352.3 | 2788.1 | 2784.8 | 2623.5 | 2627.2 | 1974.4 |
| 72.5° | 345.9 | 377.2 | 531.2 | 755.8 | 1182.9 | 1905.2 | 2484.8 | 2471.7 | 2340.7 | 2151.7 | 1419.9 |
| 75° | 120.9 | 130.0 | 282.9 | 424.5 | 642.6 | 1269.2 | 1910.7 | 1880.1 | 1750.5 | 1399.5 | 773.7 |
| 77.5° | 74.3 | 81.6 | 125.6 | 217.0 | 250.1 | 550.8 | 1147.9 | 1108.3 | 1024.5 | 605.1 | 264.3 |
| 80° | 51.3 | 57.9 | 84.1 | 113.6 | 85.2 | 178.4 | 528.3 | 513.3 | 395.0 | 144.2 | 60.8 |
| 82.5° | 28.8 | 34.6 | 63.7 | 55.7 | 34.2 | 46.2 | 183.1 | 169.7 | 105.2 | 39.0 | 20.4 |
| 85° | 16.7 | 20.0 | 44.8 | 39.3 | 17.5 | 16.4 | 47.7 | 42.6 | 27.3 | 14.6 | 9.8 |
| 87.5° | 8.7 | 11.3 | 32.8 | 26.2 | 10.6 | 5.8 | 10.9 | 10.6 | 6.9 | 5.1 | 6.6 |
| 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° | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 | 677.2 |
| 2.5° | 682.3 | 680.5 | 689.9 | 693.2 | 692.5 | 691.0 | 694.7 | 689.9 | 689.6 | 688.5 | 687.4 |
| 5° | 694.7 | 697.6 | 705.2 | 705.2 | 695.0 | 678.3 | 668.1 | 654.2 | 642.6 | 635.7 | 634.6 |
| 7.5° | 713.2 | 719.1 | 724.1 | 708.5 | 673.5 | 632.0 | 588.0 | 553.4 | 523.2 | 507.5 | 506.1 |
| 10° | 739.4 | 744.9 | 740.9 | 696.1 | 621.1 | 535.2 | 463.5 | 391.4 | 355.3 | 335.7 | 335.7 |
| 12.5° | 770.8 | 775.1 | 750.7 | 665.2 | 534.8 | 410.3 | 314.6 | 238.8 | 202.8 | 179.5 | 178.0 |
| 15° | 804.6 | 805.7 | 749.3 | 611.3 | 428.2 | 275.6 | 180.6 | 132.5 | 117.2 | 114.0 | 113.2 |
| 17.5° | 834.1 | 829.7 | 734.0 | 531.6 | 308.4 | 164.2 | 114.7 | 103.8 | 100.8 | 100.8 | 100.8 |
| 20° | 861.8 | 847.2 | 703.4 | 438.7 | 197.7 | 111.8 | 98.7 | 95.8 | 95.8 | 96.1 | 96.1 |
| 22.5° | 892.4 | 863.6 | 659.7 | 335.7 | 127.1 | 95.8 | 92.5 | 91.0 | 90.7 | 91.7 | 91.4 |
| 25° | 928.4 | 879.6 | 597.1 | 231.9 | 98.3 | 89.2 | 87.7 | 86.3 | 86.3 | 86.3 | 86.3 |
| 27.5° | 948.4 | 877.4 | 525.7 | 146.4 | 85.9 | 82.6 | 81.2 | 79.7 | 78.6 | 78.3 | 78.6 |
| 30° | 965.9 | 864.7 | 432.5 | 102.3 | 77.5 | 73.9 | 72.8 | 71.0 | 68.8 | 68.1 | 68.1 |
| 32.5° | 988.8 | 854.1 | 335.0 | 82.3 | 70.3 | 66.3 | 63.0 | 60.1 | 56.4 | 55.0 | 54.6 |
| 35° | 1014.3 | 834.8 | 245.4 | 72.5 | 63.7 | 58.6 | 53.5 | 48.8 | 44.1 | 42.6 | 42.2 |
| 37.5° | 1046.0 | 817.4 | 166.4 | 67.0 | 58.3 | 52.1 | 45.1 | 38.6 | 34.2 | 33.5 | 33.5 |
| 40° | 1089.0 | 802.8 | 115.0 | 62.3 | 53.2 | 45.9 | 37.5 | 30.6 | 27.7 | 26.9 | 26.9 |
| 42.5° | 1147.6 | 790.8 | 87.0 | 58.3 | 48.8 | 39.7 | 30.2 | 25.1 | 22.9 | 22.2 | 22.2 |
| 45° | 1216.7 | 772.2 | 73.5 | 54.6 | 44.4 | 33.5 | 25.1 | 21.1 | 20.0 | 20.0 | 20.0 |
| 47.5° | 1296.1 | 748.9 | 67.0 | 51.0 | 39.7 | 27.3 | 21.1 | 19.3 | 18.9 | 18.9 | 19.3 |
| 50° | 1376.2 | 721.2 | 62.3 | 46.6 | 34.2 | 23.3 | 19.3 | 18.2 | 18.2 | 18.6 | 18.6 |
| 52.5° | 1430.5 | 677.9 | 57.5 | 41.9 | 28.8 | 20.4 | 18.2 | 17.8 | 17.5 | 17.5 | 17.5 |
| 55° | 1483.2 | 640.0 | 51.0 | 36.8 | 24.0 | 18.9 | 17.5 | 17.1 | 17.1 | 16.7 | 16.7 |
| 57.5° | 1538.2 | 610.2 | 42.6 | 30.6 | 20.4 | 17.8 | 16.7 | 16.7 | 16.0 | 15.7 | 15.7 |
| 60° | 1601.9 | 584.0 | 32.8 | 24.0 | 17.8 | 16.7 | 15.7 | 15.3 | 14.6 | 13.8 | 13.8 |
| 62.5° | 1620.5 | 528.6 | 24.8 | 19.3 | 15.3 | 14.6 | 14.2 | 13.5 | 11.7 | 10.2 | 10.6 |
| 65° | 1572.1 | 441.6 | 19.7 | 15.3 | 12.4 | 12.4 | 11.3 | 9.5 | 7.6 | 6.6 | 6.6 |
| 67.5° | 1438.5 | 329.9 | 16.0 | 12.0 | 9.8 | 9.5 | 8.0 | 6.9 | 4.7 | 4.0 | 4.0 |
| 70° | 1185.4 | 218.1 | 13.1 | 9.5 | 8.0 | 6.6 | 5.5 | 5.1 | 3.6 | 2.9 | 2.9 |
| 72.5° | 830.8 | 118.3 | 10.9 | 7.6 | 5.8 | 4.4 | 3.6 | 3.3 | 2.5 | 2.2 | 1.8 |
| 75° | 438.7 | 45.5 | 8.7 | 5.8 | 3.6 | 2.9 | 2.2 | 2.2 | 1.8 | 1.5 | 1.5 |
| 77.5° | 150.4 | 19.3 | 6.2 | 3.3 | 2.5 | 1.8 | 1.5 | 1.1 | 1.5 | 1.1 | 1.1 |
| 80° | 35.7 | 11.3 | 4.0 | 2.2 | 1.5 | 1.1 | 1.1 | 0.7 | 0.7 | 0.7 | 0.7 |
| 82.5° | 15.7 | 6.6 | 2.5 | 1.5 | 1.5 | 1.1 | 0.7 | 0.4 | 0.4 | 0.4 | 0.4 |
| 85° | 10.6 | 4.0 | 1.8 | 1.5 | 1.1 | 0.7 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.4 | 2.5 | 1.5 | 1.5 | 1.1 | 0.7 | 0.4 | 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)