

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: P673656

Luminaire Tested: **CCP-SA-2A-722-U-SL2-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673656
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-722-U-SL2-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ SL2 distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

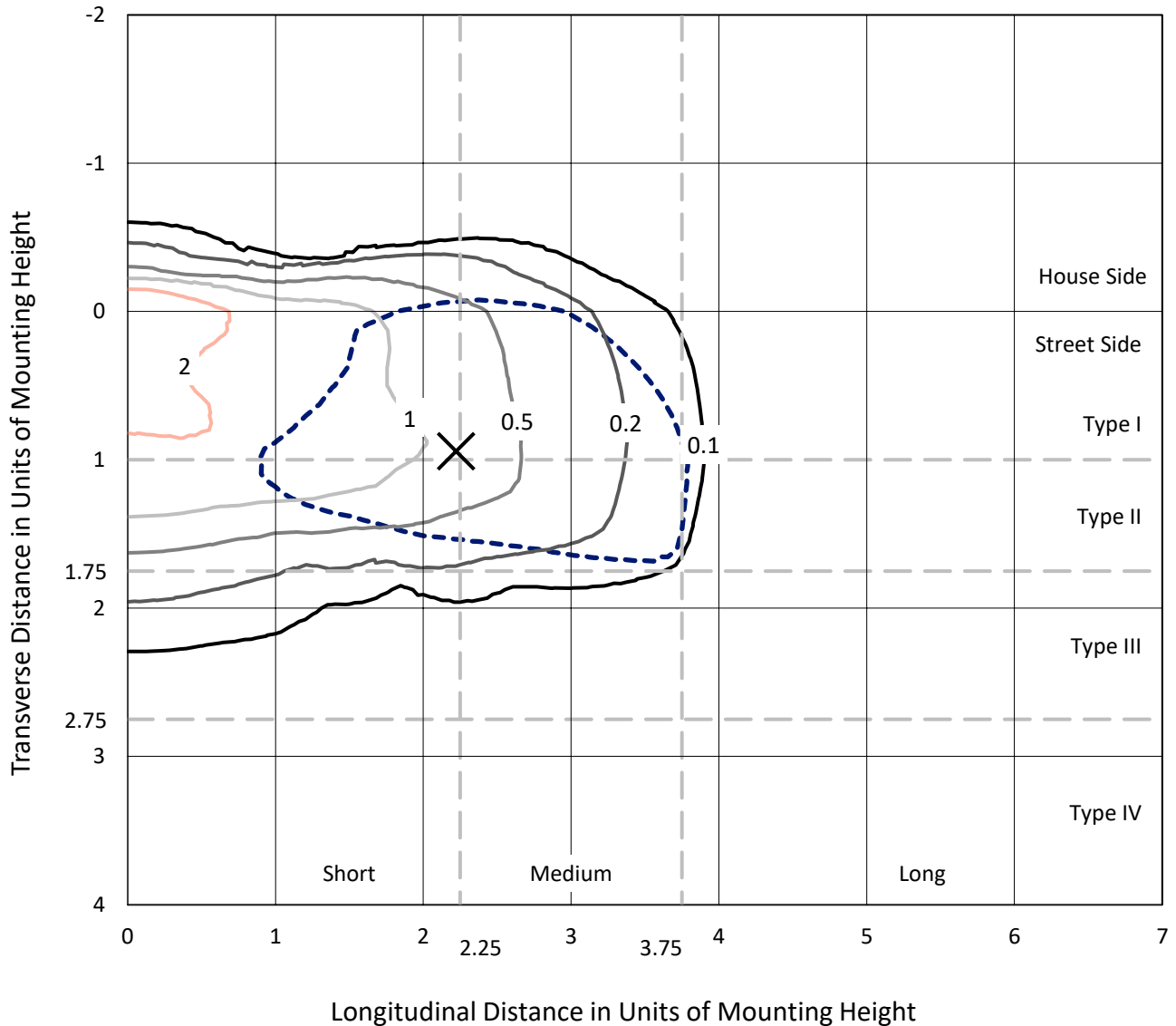
Lumens per Lamp: N/A
Luminaire Lumens: 3241.1 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

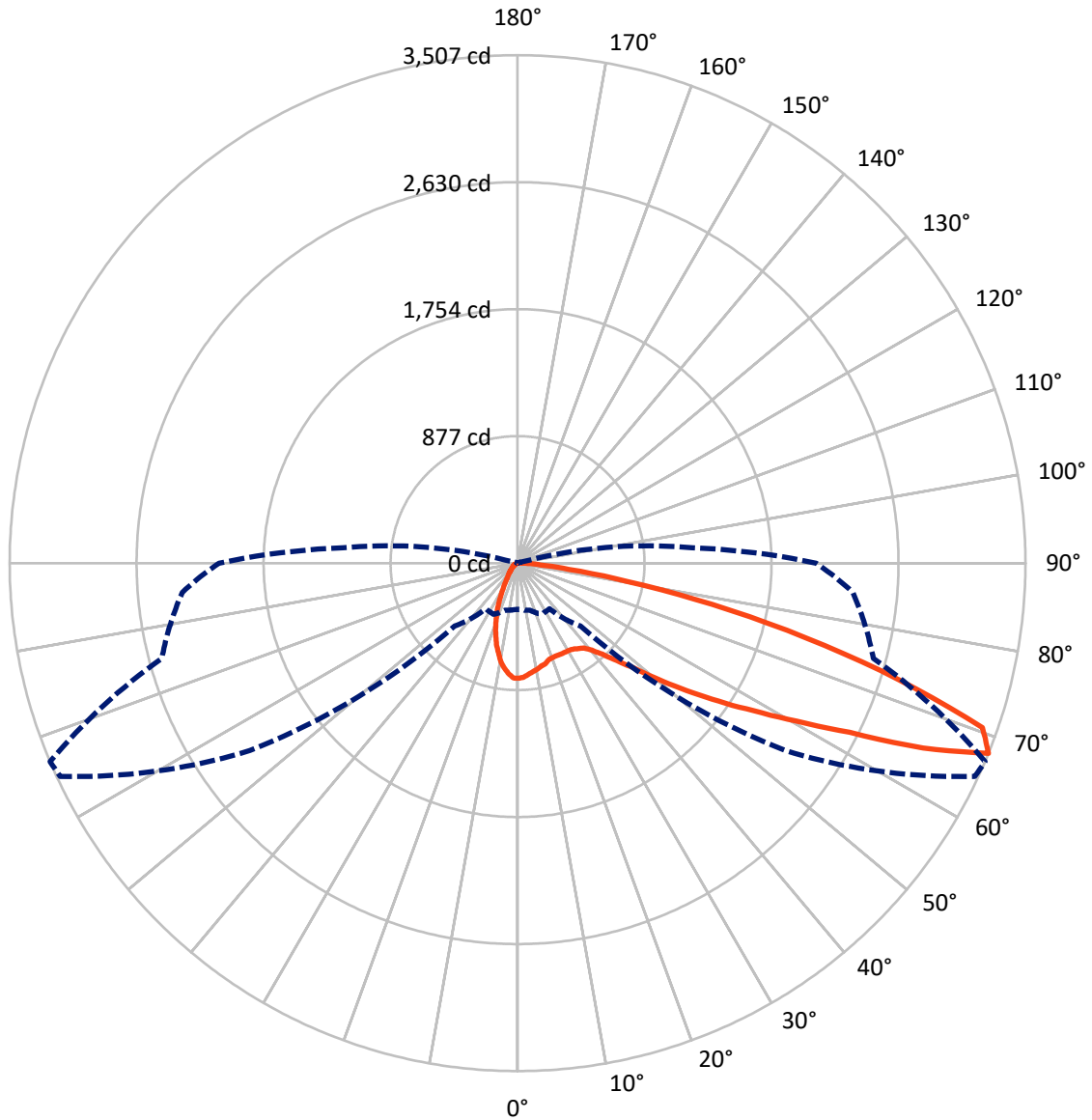
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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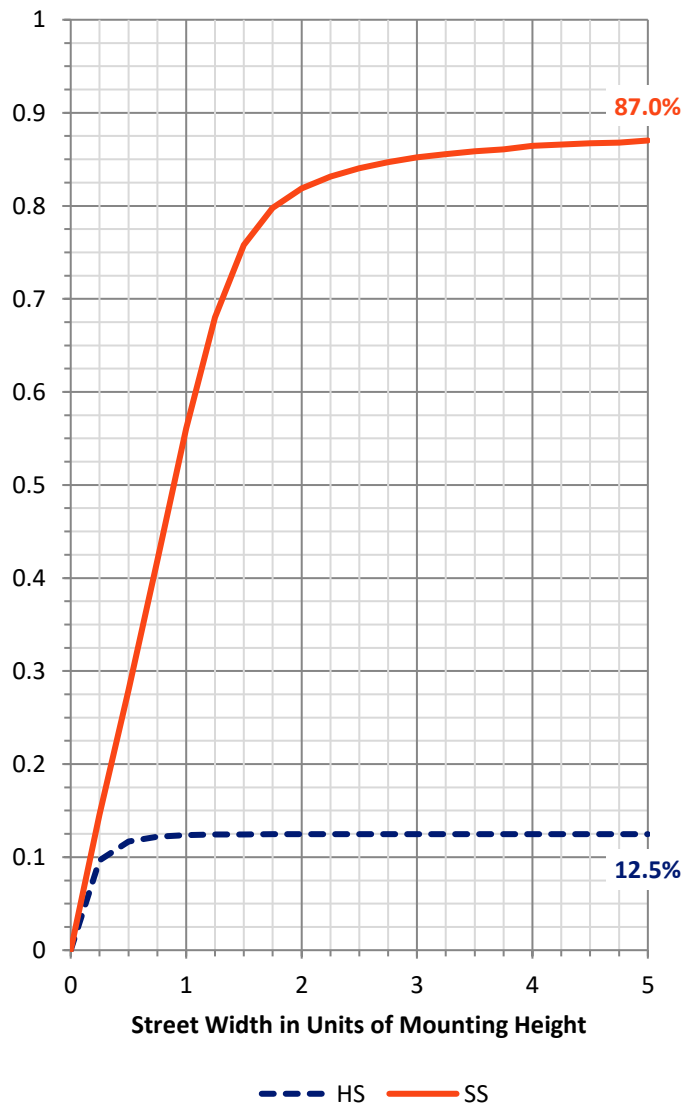
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 407.9 | 0.0 | 407.9 |
| | % Fixture | 12.6 | 0.0 | 12.6 |
| Street Side | Lumens | 2833.2 | 0.0 | 2833.2 |
| | % Fixture | 87.4 | 0.0 | 87.4 |
| Total | Lumens | 3241.1 | 0.0 | 3241.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.0 | 2.1 |
| 10°-20° | 148.8 | 4.6 |
| 20°-30° | 211.6 | 6.5 |
| 30°-40° | 308.1 | 9.5 |
| 40°-50° | 476.8 | 14.7 |
| 50°-60° | 731.8 | 22.6 |
| 60°-70° | 793.3 | 24.5 |
| 70°-80° | 447.5 | 13.8 |
| 80°-90° | 56.2 | 1.7 |
| 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° | 3241.1 | 100.0 |
| 0°-180° | 3241.1 | 100.0 |



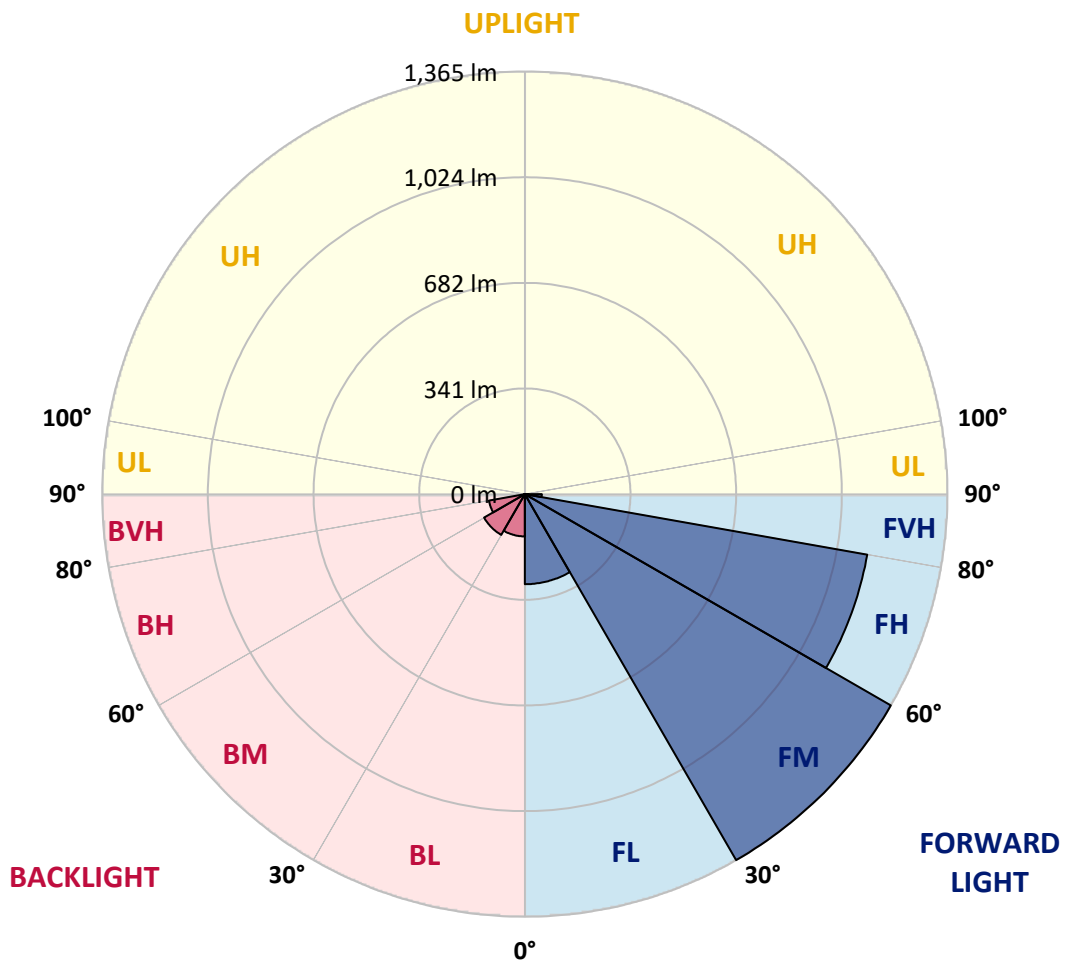
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 290.8 | 9.0 | | | |
| FM (30°-60°) | 1364.8 | 42.1 | | | |
| FH (60°-80°) | 1123.0 | 34.6 | | | G1/1800 |
| FVH (80°-90°) | 54.6 | 1.7 | | | G1/100 |
| BL (0°-30°) | 136.5 | 4.2 | B1/500 | | |
| BM (30°-60°) | 151.9 | 4.7 | B0/220 | | |
| BH (60°-80°) | 117.8 | 3.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.6 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 |
| 2.5° | 760.6 | 764.5 | 770.0 | 777.8 | 783.3 | 780.1 | 782.5 | 795.8 | 788.7 | 795.0 | 791.9 |
| 5° | 718.4 | 722.4 | 730.2 | 729.4 | 735.6 | 747.3 | 763.0 | 780.1 | 772.3 | 791.1 | 798.1 |
| 7.5° | 674.7 | 673.2 | 673.2 | 689.6 | 702.8 | 719.2 | 727.8 | 755.9 | 756.7 | 773.1 | 790.3 |
| 10° | 634.9 | 639.6 | 647.4 | 653.6 | 666.1 | 689.6 | 714.5 | 736.4 | 745.0 | 777.8 | 782.5 |
| 12.5° | 610.7 | 613.0 | 622.4 | 627.9 | 644.3 | 666.9 | 693.5 | 721.6 | 728.6 | 762.2 | 784.8 |
| 15° | 600.5 | 606.0 | 609.1 | 619.3 | 627.9 | 648.9 | 668.5 | 700.5 | 720.8 | 747.3 | 775.5 |
| 17.5° | 608.3 | 606.0 | 607.6 | 610.7 | 620.8 | 639.6 | 660.7 | 692.7 | 699.7 | 744.2 | 786.4 |
| 20° | 618.5 | 619.3 | 614.6 | 613.0 | 610.7 | 628.6 | 645.8 | 687.2 | 695.0 | 744.2 | 793.4 |
| 22.5° | 645.8 | 637.2 | 645.8 | 633.3 | 620.8 | 628.6 | 645.0 | 688.0 | 693.5 | 743.4 | 800.4 |
| 25° | 679.4 | 681.0 | 683.3 | 656.8 | 638.8 | 633.3 | 650.5 | 690.3 | 695.0 | 749.7 | 803.6 |
| 27.5° | 727.0 | 734.1 | 722.4 | 709.1 | 673.2 | 645.8 | 649.7 | 688.8 | 697.4 | 746.6 | 811.4 |
| 30° | 791.1 | 785.6 | 787.2 | 756.7 | 721.6 | 678.6 | 667.7 | 692.7 | 698.9 | 750.5 | 826.2 |
| 32.5° | 846.5 | 840.3 | 851.2 | 840.3 | 784.8 | 725.5 | 688.8 | 700.5 | 707.5 | 759.8 | 838.7 |
| 35° | 880.9 | 888.7 | 905.9 | 917.6 | 870.7 | 786.4 | 723.9 | 721.6 | 724.7 | 764.5 | 848.1 |
| 37.5° | 934.0 | 948.0 | 962.1 | 991.8 | 951.2 | 861.4 | 779.4 | 748.9 | 743.4 | 787.2 | 852.8 |
| 40° | 991.8 | 987.9 | 1029.3 | 1064.4 | 1062.8 | 966.8 | 856.7 | 797.3 | 789.5 | 823.1 | 884.0 |
| 42.5° | 1040.2 | 1036.3 | 1082.4 | 1140.1 | 1146.4 | 1068.3 | 944.9 | 866.0 | 859.0 | 878.5 | 922.3 |
| 45° | 1103.4 | 1106.6 | 1161.2 | 1229.9 | 1252.6 | 1202.6 | 1064.4 | 964.4 | 960.5 | 954.3 | 994.9 |
| 47.5° | 1159.7 | 1176.8 | 1223.7 | 1304.9 | 1386.9 | 1341.6 | 1205.0 | 1108.1 | 1080.8 | 1066.7 | 1107.3 |
| 50° | 1198.7 | 1214.3 | 1271.3 | 1358.0 | 1508.0 | 1536.8 | 1362.7 | 1261.2 | 1262.0 | 1227.6 | 1249.5 |
| 52.5° | 1198.7 | 1197.9 | 1244.0 | 1358.0 | 1592.3 | 1740.7 | 1573.6 | 1454.1 | 1460.3 | 1424.4 | 1426.0 |
| 55° | 1083.1 | 1080.8 | 1137.0 | 1258.1 | 1582.9 | 1936.7 | 1892.9 | 1698.5 | 1682.9 | 1613.4 | 1620.4 |
| 57.5° | 872.3 | 877.8 | 920.7 | 1066.0 | 1461.1 | 2028.0 | 2273.3 | 1973.4 | 1920.3 | 1776.6 | 1776.6 |
| 60° | 636.4 | 631.8 | 663.8 | 765.3 | 1170.6 | 1993.7 | 2585.6 | 2297.5 | 2213.9 | 1911.7 | 1891.4 |
| 62.5° | 484.2 | 483.4 | 492.0 | 526.3 | 742.7 | 1738.3 | 2719.9 | 2709.8 | 2573.9 | 2044.4 | 2015.6 |
| 65° | 391.2 | 392.8 | 404.5 | 428.7 | 453.7 | 1185.4 | 2648.9 | 3201.8 | 3077.6 | 2242.0 | 2147.5 |
| 67.5° | 319.4 | 323.3 | 337.4 | 389.7 | 384.2 | 613.8 | 2256.1 | 3483.7 | 3507.1 | 2543.5 | 2324.8 |
| 70° | 246.0 | 252.2 | 268.6 | 342.8 | 370.2 | 408.4 | 1564.2 | 3343.1 | 3405.6 | 2730.9 | 2217.8 |
| 72.5° | 167.1 | 166.3 | 201.5 | 278.0 | 374.1 | 374.1 | 870.7 | 2692.6 | 2752.0 | 2517.7 | 1926.5 |
| 75° | 90.6 | 96.1 | 133.5 | 210.1 | 342.8 | 361.6 | 495.9 | 1970.3 | 2053.8 | 1957.8 | 1490.0 |
| 77.5° | 49.2 | 50.0 | 74.2 | 137.4 | 285.0 | 345.2 | 331.1 | 1340.1 | 1372.9 | 1180.7 | 816.1 |
| 80° | 25.8 | 26.6 | 39.0 | 89.8 | 196.8 | 320.2 | 275.7 | 798.9 | 767.6 | 452.9 | 269.4 |
| 82.5° | 11.7 | 12.5 | 19.5 | 56.2 | 125.7 | 252.2 | 238.2 | 385.8 | 356.1 | 126.5 | 82.0 |
| 85° | 4.7 | 4.7 | 8.6 | 33.6 | 73.4 | 124.2 | 203.8 | 193.7 | 161.7 | 38.3 | 40.6 |
| 87.5° | 1.6 | 1.6 | 2.3 | 13.3 | 29.7 | 74.2 | 108.5 | 102.3 | 70.3 | 14.1 | 21.9 |
| 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° | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 | 795.0 |
| 2.5° | 788.7 | 797.3 | 795.0 | 793.4 | 778.6 | 777.0 | 775.5 | 761.4 | 766.1 | 754.4 | 762.2 |
| 5° | 793.4 | 798.1 | 785.6 | 762.2 | 741.1 | 717.7 | 699.7 | 687.2 | 664.6 | 656.0 | 654.4 |
| 7.5° | 788.7 | 788.7 | 763.0 | 725.5 | 684.1 | 645.8 | 597.4 | 563.0 | 537.3 | 517.7 | 524.8 |
| 10° | 782.5 | 773.1 | 746.6 | 680.2 | 605.2 | 547.4 | 477.9 | 427.2 | 388.9 | 376.4 | 368.6 |
| 12.5° | 782.5 | 766.1 | 706.7 | 616.1 | 519.3 | 431.8 | 349.1 | 282.7 | 246.0 | 224.1 | 221.0 |
| 15° | 775.5 | 751.2 | 677.8 | 556.0 | 435.8 | 317.1 | 222.6 | 165.6 | 134.3 | 125.7 | 122.6 |
| 17.5° | 777.0 | 748.1 | 634.9 | 485.0 | 338.1 | 210.8 | 135.9 | 104.6 | 96.8 | 92.9 | 93.7 |
| 20° | 780.1 | 748.1 | 596.6 | 415.4 | 243.6 | 131.2 | 93.7 | 88.2 | 84.3 | 82.8 | 83.6 |
| 22.5° | 790.3 | 733.3 | 557.6 | 344.4 | 164.8 | 94.5 | 82.8 | 77.3 | 74.2 | 71.8 | 71.1 |
| 25° | 791.9 | 730.9 | 520.1 | 274.1 | 113.2 | 79.7 | 72.6 | 66.4 | 62.5 | 59.3 | 58.6 |
| 27.5° | 789.5 | 720.8 | 467.8 | 203.8 | 85.1 | 71.1 | 61.7 | 55.4 | 50.0 | 47.6 | 46.9 |
| 30° | 798.1 | 702.0 | 423.3 | 146.8 | 71.8 | 61.7 | 52.3 | 45.3 | 40.6 | 37.5 | 37.5 |
| 32.5° | 798.9 | 685.6 | 374.1 | 104.6 | 65.6 | 54.7 | 44.5 | 36.7 | 32.0 | 30.5 | 30.5 |
| 35° | 799.7 | 670.8 | 319.4 | 79.7 | 58.6 | 46.9 | 36.7 | 30.5 | 27.3 | 25.0 | 25.0 |
| 37.5° | 802.0 | 659.9 | 269.4 | 67.2 | 52.3 | 39.8 | 30.5 | 25.0 | 21.9 | 21.1 | 21.1 |
| 40° | 806.7 | 645.0 | 217.1 | 59.3 | 45.3 | 33.6 | 25.8 | 21.1 | 18.0 | 17.2 | 16.4 |
| 42.5° | 819.2 | 641.1 | 173.4 | 53.1 | 40.6 | 28.1 | 21.1 | 17.2 | 14.8 | 13.3 | 12.5 |
| 45° | 870.7 | 651.3 | 134.3 | 49.2 | 34.4 | 23.4 | 18.0 | 14.1 | 10.9 | 10.2 | 9.4 |
| 47.5° | 955.1 | 684.9 | 106.2 | 43.7 | 28.9 | 19.5 | 14.8 | 10.9 | 8.6 | 7.8 | 7.0 |
| 50° | 1083.1 | 761.4 | 86.7 | 39.0 | 24.2 | 16.4 | 11.7 | 8.6 | 6.2 | 5.5 | 5.5 |
| 52.5° | 1251.0 | 864.5 | 75.0 | 34.4 | 19.5 | 14.1 | 9.4 | 6.2 | 4.7 | 3.9 | 3.9 |
| 55° | 1422.8 | 986.3 | 70.3 | 29.7 | 16.4 | 11.7 | 7.0 | 4.7 | 3.1 | 2.3 | 2.3 |
| 57.5° | 1580.6 | 1065.2 | 67.9 | 24.2 | 14.1 | 8.6 | 5.5 | 3.1 | 1.6 | 0.8 | 0.8 |
| 60° | 1679.0 | 1123.0 | 60.9 | 19.5 | 10.9 | 7.0 | 3.9 | 1.6 | 0.8 | 0.0 | 0.0 |
| 62.5° | 1808.6 | 1181.5 | 50.0 | 14.8 | 7.8 | 4.7 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 |
| 65° | 1979.6 | 1247.1 | 39.0 | 11.7 | 6.2 | 3.1 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2061.6 | 1212.8 | 26.6 | 8.6 | 3.9 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1897.6 | 1021.4 | 18.7 | 6.2 | 2.3 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1595.4 | 800.4 | 14.1 | 3.9 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1176.1 | 500.6 | 10.9 | 3.1 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 624.0 | 186.6 | 7.8 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 184.3 | 54.7 | 5.5 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 60.9 | 16.4 | 3.1 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 31.2 | 6.2 | 1.6 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 18.0 | 2.3 | 1.6 | 1.6 | 0.8 | 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)