

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: P673983

Luminaire Tested: **CCP-SA-1B-740-U-SL4-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673983
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-740-U-SL4-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SL4 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

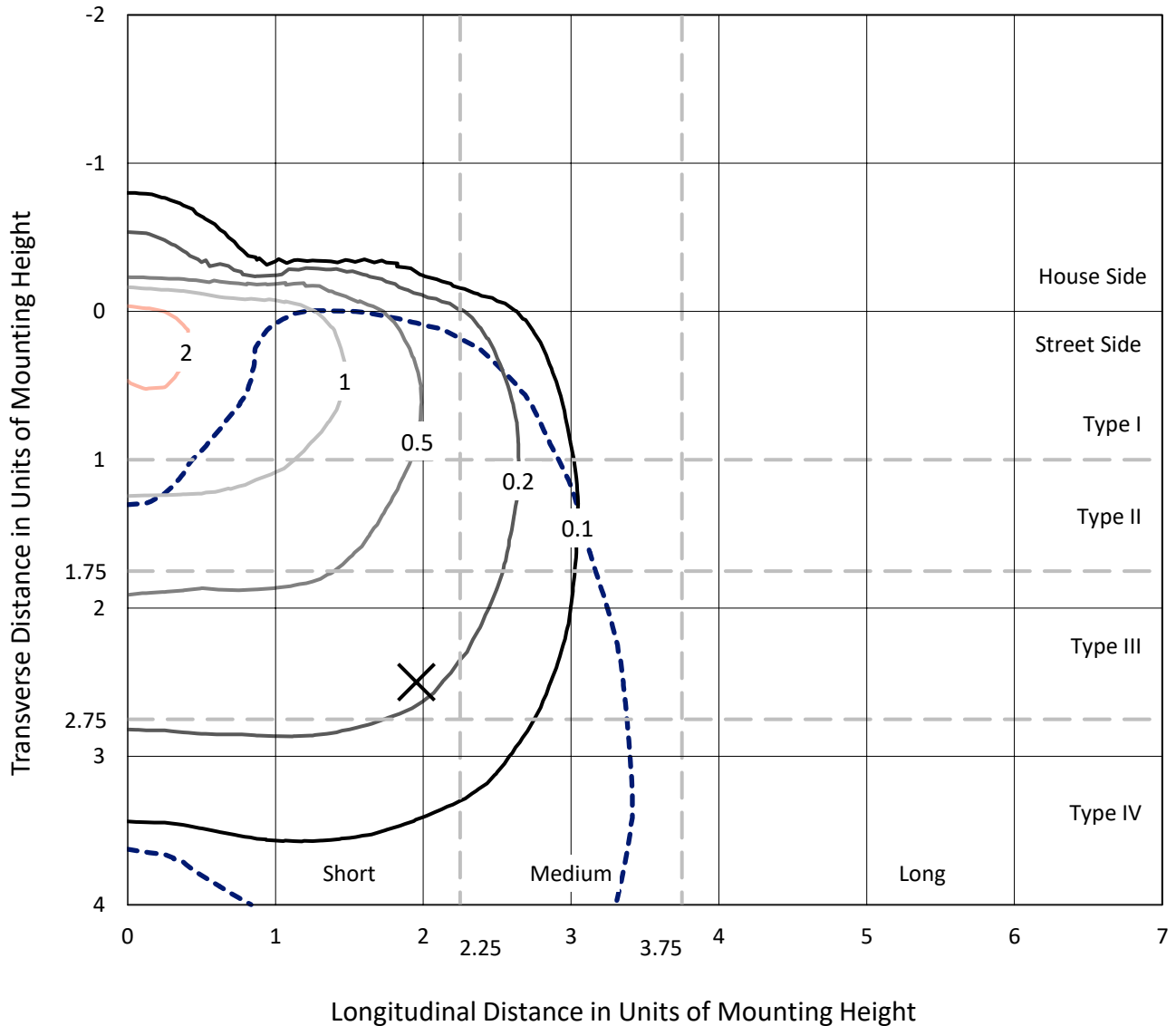
Lumens per Lamp: N/A
Luminaire Lumens: 2852.8 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

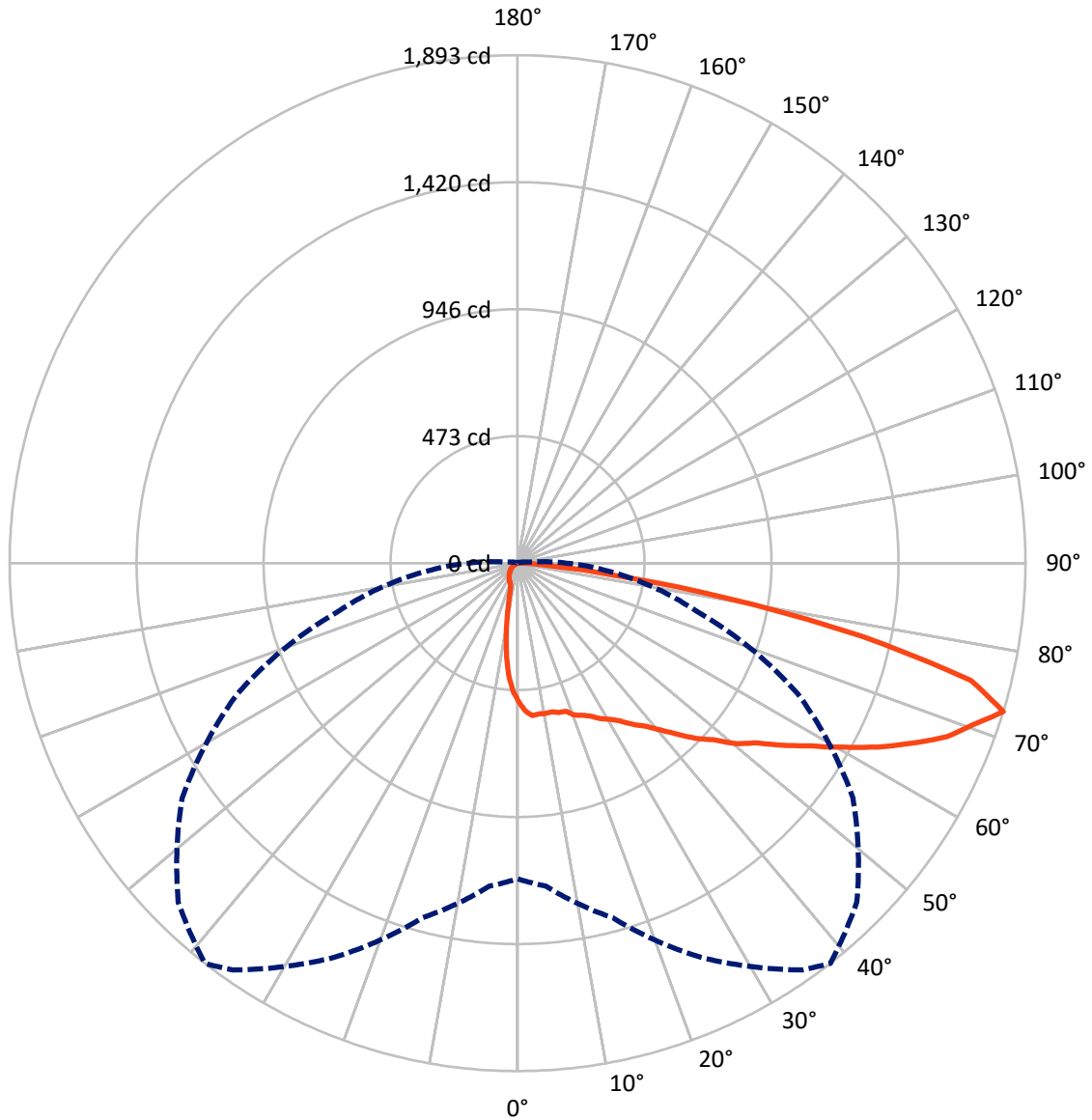
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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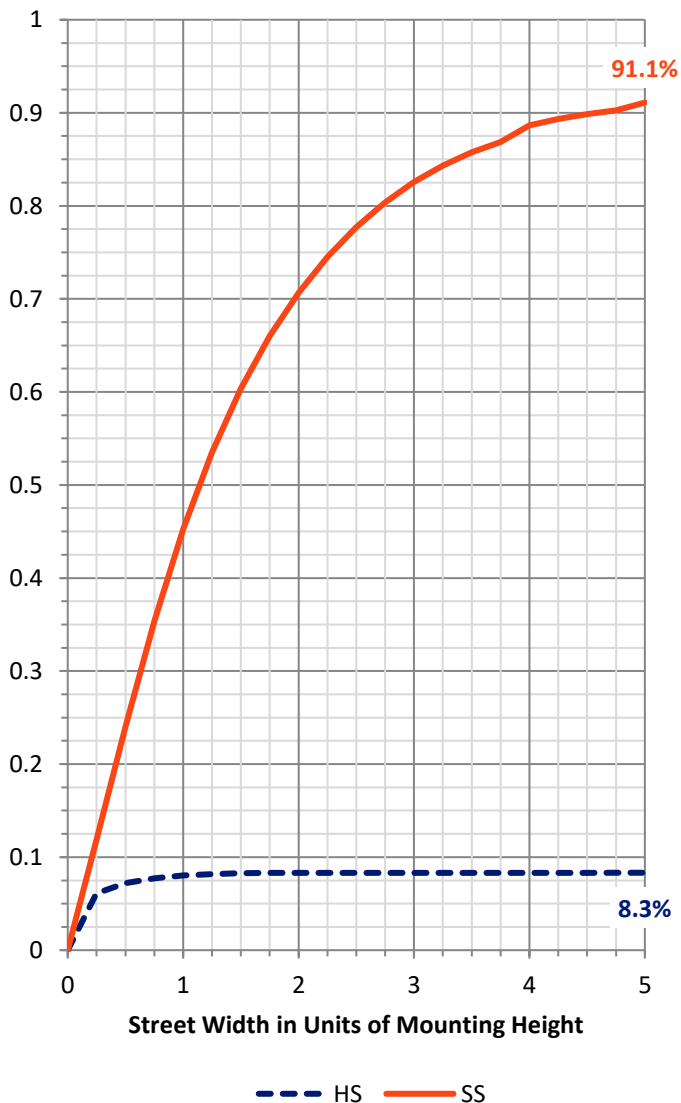
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 238.9 | 0.0 | 238.9 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 2613.8 | 0.0 | 2613.8 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 2852.8 | 0.0 | 2852.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.1 | 1.6 |
| 10°-20° | 110.6 | 3.9 |
| 20°-30° | 177.2 | 6.2 |
| 30°-40° | 267.6 | 9.4 |
| 40°-50° | 407.3 | 14.3 |
| 50°-60° | 573.4 | 20.1 |
| 60°-70° | 700.4 | 24.6 |
| 70°-80° | 508.6 | 17.8 |
| 80°-90° | 62.6 | 2.2 |
| 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° | 2852.8 | 100.0 |
| 0°-180° | 2852.8 | 100.0 |



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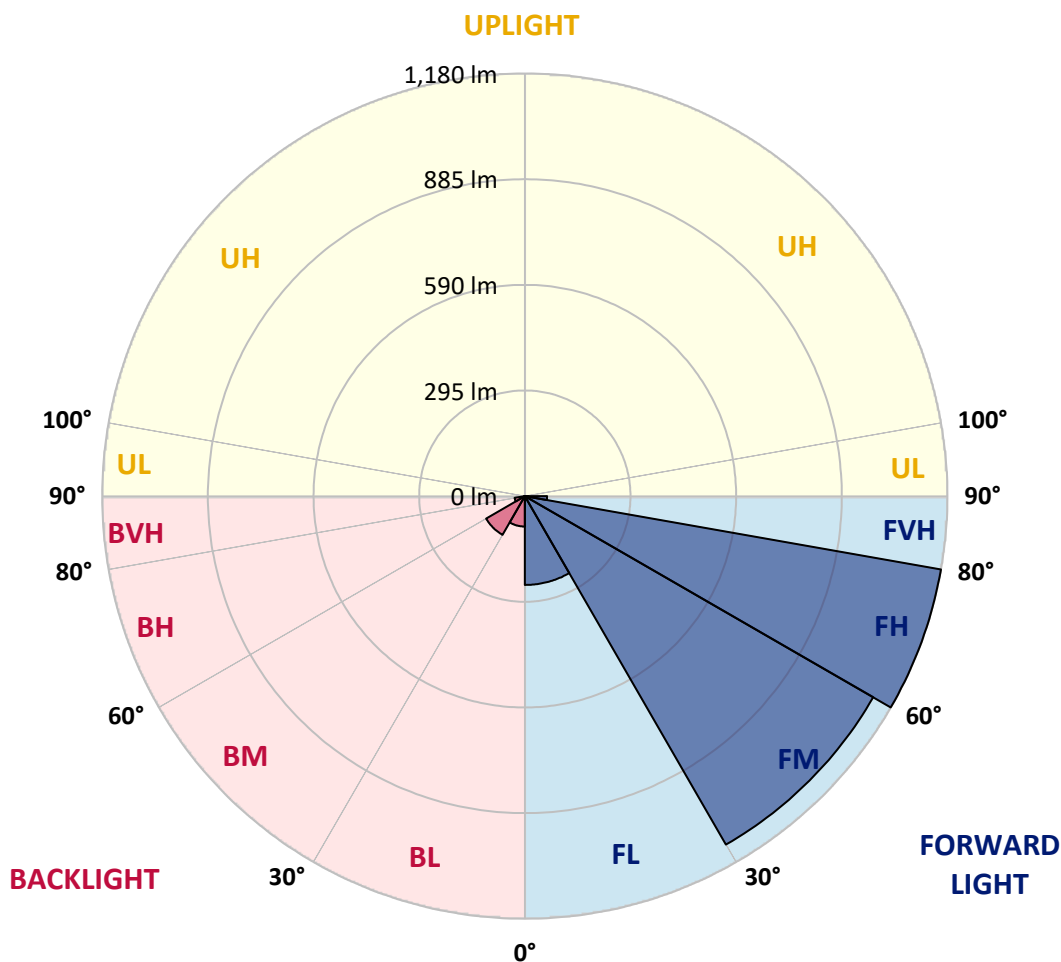
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 248.1 | 8.7 | | | |
| FM (30°-60°) | 1123.4 | 39.4 | | | |
| FH (60°-80°) | 1180.0 | 41.4 | | | G1/1800 |
| FVH (80°-90°) | 62.3 | 2.2 | | | G1/100 |
| BL (0°-30°) | 84.8 | 3.0 | B0/110 | | |
| BM (30°-60°) | 124.8 | 4.4 | B0/220 | | |
| BH (60°-80°) | 29.0 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 |
| 2.5° | 566.7 | 566.7 | 572.1 | 566.7 | 564.7 | 552.0 | 552.7 | 546.0 | 539.3 | 529.9 | 521.2 |
| 5° | 573.4 | 578.1 | 581.5 | 576.8 | 569.4 | 570.8 | 575.4 | 562.7 | 544.7 | 533.3 | 513.9 |
| 7.5° | 570.8 | 580.8 | 578.1 | 575.4 | 570.8 | 567.4 | 560.7 | 555.4 | 546.7 | 536.0 | 513.2 |
| 10° | 568.8 | 572.1 | 572.8 | 570.8 | 560.7 | 570.1 | 562.7 | 554.0 | 543.3 | 530.6 | 502.5 |
| 12.5° | 561.4 | 561.4 | 567.4 | 562.7 | 564.1 | 568.8 | 565.4 | 563.4 | 552.0 | 541.3 | 516.6 |
| 15° | 553.4 | 556.0 | 565.4 | 572.8 | 579.5 | 577.5 | 575.4 | 569.4 | 559.4 | 547.3 | 521.2 |
| 17.5° | 555.4 | 556.7 | 571.4 | 584.8 | 581.5 | 580.1 | 590.8 | 578.1 | 568.1 | 554.7 | 525.3 |
| 20° | 562.7 | 566.7 | 583.5 | 600.9 | 604.2 | 604.2 | 600.2 | 592.8 | 578.8 | 560.7 | 532.6 |
| 22.5° | 570.1 | 571.4 | 598.9 | 620.9 | 624.3 | 615.6 | 618.9 | 597.5 | 584.1 | 574.1 | 540.0 |
| 25° | 598.2 | 595.5 | 625.0 | 642.4 | 640.3 | 631.6 | 628.3 | 609.6 | 604.2 | 586.1 | 556.0 |
| 27.5° | 636.3 | 625.0 | 653.7 | 664.4 | 653.7 | 656.4 | 647.0 | 627.0 | 615.6 | 604.9 | 563.4 |
| 30° | 659.8 | 666.4 | 681.8 | 692.5 | 674.5 | 675.1 | 670.5 | 648.4 | 631.0 | 633.7 | 588.2 |
| 32.5° | 695.9 | 700.6 | 711.9 | 716.6 | 702.6 | 701.2 | 696.6 | 679.2 | 666.4 | 663.8 | 621.6 |
| 35° | 734.7 | 743.4 | 744.1 | 745.4 | 732.7 | 738.0 | 731.3 | 706.6 | 713.3 | 718.0 | 661.8 |
| 37.5° | 772.8 | 764.8 | 778.2 | 784.2 | 770.2 | 770.2 | 772.2 | 755.4 | 767.5 | 781.5 | 718.6 |
| 40° | 787.6 | 790.9 | 814.3 | 809.6 | 826.4 | 816.3 | 823.7 | 819.7 | 829.7 | 861.8 | 798.9 |
| 42.5° | 802.9 | 807.0 | 838.4 | 847.1 | 867.2 | 870.5 | 881.2 | 881.9 | 911.3 | 964.2 | 875.9 |
| 45° | 832.4 | 825.7 | 868.5 | 889.9 | 922.7 | 932.1 | 944.8 | 955.5 | 1001.7 | 1063.9 | 963.5 |
| 47.5° | 859.2 | 849.8 | 898.6 | 941.5 | 981.6 | 983.6 | 1018.4 | 1029.8 | 1084.6 | 1155.6 | 1050.5 |
| 50° | 896.6 | 900.0 | 920.7 | 994.3 | 1035.1 | 1058.5 | 1082.6 | 1120.1 | 1181.0 | 1256.6 | 1113.4 |
| 52.5° | 935.4 | 932.1 | 966.9 | 1039.1 | 1103.4 | 1112.1 | 1166.3 | 1208.4 | 1274.7 | 1331.5 | 1141.5 |
| 55° | 982.9 | 987.0 | 1000.3 | 1095.3 | 1177.0 | 1197.7 | 1258.6 | 1302.8 | 1375.0 | 1363.7 | 1150.9 |
| 57.5° | 1030.4 | 1026.4 | 1056.5 | 1158.2 | 1269.3 | 1284.7 | 1365.7 | 1391.8 | 1440.6 | 1385.1 | 1127.5 |
| 60° | 1077.3 | 1084.6 | 1097.4 | 1229.2 | 1370.4 | 1393.1 | 1457.3 | 1470.7 | 1481.4 | 1395.1 | 1109.4 |
| 62.5° | 1130.8 | 1113.4 | 1152.9 | 1304.1 | 1461.4 | 1508.9 | 1559.7 | 1506.9 | 1497.5 | 1377.0 | 1067.9 |
| 65° | 1157.6 | 1162.9 | 1214.5 | 1389.8 | 1582.5 | 1617.3 | 1624.0 | 1555.7 | 1507.5 | 1336.9 | 1029.1 |
| 67.5° | 1199.1 | 1206.4 | 1272.0 | 1477.4 | 1706.9 | 1726.3 | 1702.2 | 1599.9 | 1498.8 | 1284.7 | 889.3 |
| 70° | 1204.4 | 1222.5 | 1348.9 | 1569.1 | 1785.2 | 1801.9 | 1783.2 | 1629.3 | 1428.6 | 1079.3 | 658.4 |
| 72.5° | 1176.3 | 1208.4 | 1367.7 | 1621.3 | 1850.8 | 1892.9 | 1787.9 | 1525.6 | 1151.6 | 688.5 | 337.2 |
| 75° | 888.6 | 915.4 | 1251.9 | 1543.7 | 1734.4 | 1744.4 | 1569.8 | 1164.3 | 655.7 | 234.9 | 86.3 |
| 77.5° | 460.4 | 506.5 | 835.7 | 1179.7 | 1321.5 | 1310.8 | 1092.7 | 685.8 | 225.5 | 61.6 | 34.8 |
| 80° | 264.3 | 275.7 | 365.3 | 662.4 | 831.0 | 790.2 | 604.2 | 295.8 | 99.0 | 30.8 | 22.8 |
| 82.5° | 130.5 | 146.5 | 196.7 | 296.4 | 415.5 | 341.9 | 226.8 | 177.3 | 55.5 | 16.7 | 20.1 |
| 85° | 28.1 | 29.4 | 100.4 | 141.9 | 168.6 | 111.1 | 77.6 | 149.2 | 20.1 | 10.0 | 19.4 |
| 87.5° | 20.1 | 19.4 | 28.1 | 63.6 | 46.8 | 28.8 | 46.2 | 78.3 | 4.7 | 4.7 | 4.0 |
| 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° | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 | 515.9 |
| 2.5° | 515.9 | 509.9 | 503.2 | 490.5 | 487.1 | 485.1 | 473.7 | 473.1 | 471.1 | 466.4 | 464.4 |
| 5° | 501.8 | 491.8 | 479.1 | 465.7 | 455.0 | 435.6 | 412.2 | 400.1 | 385.4 | 386.1 | 381.4 |
| 7.5° | 499.8 | 481.1 | 463.0 | 434.9 | 400.8 | 364.7 | 328.5 | 305.1 | 288.4 | 278.4 | 280.4 |
| 10° | 490.5 | 476.4 | 447.0 | 394.8 | 339.9 | 285.0 | 238.9 | 204.1 | 184.0 | 168.6 | 173.3 |
| 12.5° | 494.5 | 467.0 | 425.6 | 356.0 | 277.7 | 210.1 | 152.6 | 119.1 | 104.4 | 99.0 | 100.4 |
| 15° | 491.8 | 467.0 | 412.8 | 313.8 | 218.1 | 142.5 | 99.0 | 88.3 | 85.6 | 85.6 | 84.3 |
| 17.5° | 499.8 | 472.4 | 391.4 | 272.3 | 156.6 | 95.0 | 85.0 | 83.0 | 81.0 | 81.0 | 81.0 |
| 20° | 511.2 | 475.1 | 376.7 | 226.2 | 110.4 | 83.6 | 79.6 | 78.3 | 77.6 | 77.6 | 76.9 |
| 22.5° | 511.9 | 472.4 | 349.3 | 175.3 | 85.0 | 79.0 | 75.6 | 74.9 | 74.9 | 73.6 | 73.6 |
| 25° | 515.9 | 475.1 | 319.8 | 131.8 | 79.0 | 74.3 | 71.6 | 70.9 | 71.6 | 70.9 | 70.3 |
| 27.5° | 525.9 | 479.8 | 290.4 | 96.4 | 74.3 | 70.3 | 68.3 | 67.6 | 67.6 | 67.6 | 66.2 |
| 30° | 538.6 | 479.8 | 257.6 | 79.6 | 70.3 | 66.2 | 64.2 | 63.6 | 62.9 | 62.9 | 62.9 |
| 32.5° | 565.4 | 495.1 | 217.5 | 70.9 | 64.9 | 61.6 | 59.6 | 59.6 | 58.9 | 58.9 | 58.2 |
| 35° | 598.9 | 505.9 | 176.6 | 65.6 | 60.2 | 56.9 | 54.9 | 54.9 | 54.2 | 54.2 | 53.5 |
| 37.5° | 640.3 | 532.6 | 135.2 | 61.6 | 55.5 | 52.2 | 50.2 | 50.2 | 50.2 | 49.5 | 49.5 |
| 40° | 699.2 | 560.1 | 100.4 | 56.2 | 50.9 | 47.5 | 46.2 | 45.5 | 44.8 | 44.8 | 43.5 |
| 42.5° | 762.1 | 602.2 | 74.9 | 52.2 | 46.8 | 44.2 | 42.2 | 40.1 | 40.1 | 38.1 | 38.1 |
| 45° | 830.4 | 639.0 | 60.9 | 47.5 | 42.8 | 39.5 | 37.5 | 36.1 | 34.1 | 32.8 | 32.8 |
| 47.5° | 897.3 | 661.8 | 53.5 | 42.2 | 38.8 | 36.1 | 34.1 | 31.4 | 28.8 | 28.1 | 27.4 |
| 50° | 951.5 | 668.5 | 47.5 | 38.1 | 35.5 | 32.8 | 30.1 | 26.8 | 24.1 | 22.8 | 22.1 |
| 52.5° | 951.5 | 631.6 | 42.8 | 34.1 | 32.1 | 29.4 | 26.1 | 22.1 | 18.7 | 17.4 | 16.7 |
| 55° | 951.5 | 573.4 | 38.1 | 31.4 | 28.8 | 26.8 | 22.1 | 18.1 | 14.7 | 12.7 | 12.0 |
| 57.5° | 937.4 | 503.2 | 34.1 | 28.1 | 25.4 | 22.8 | 18.7 | 14.1 | 10.7 | 8.7 | 8.7 |
| 60° | 898.6 | 429.6 | 29.4 | 24.8 | 22.1 | 18.7 | 14.7 | 10.0 | 6.7 | 4.7 | 4.7 |
| 62.5° | 849.1 | 341.9 | 25.4 | 20.7 | 18.1 | 15.4 | 11.4 | 6.7 | 2.7 | 1.3 | 1.3 |
| 65° | 762.8 | 252.3 | 22.1 | 17.4 | 14.1 | 11.4 | 7.4 | 2.7 | 0.0 | 0.0 | 0.0 |
| 67.5° | 629.6 | 168.6 | 17.4 | 14.1 | 12.0 | 8.0 | 4.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 70° | 443.0 | 95.7 | 13.4 | 10.0 | 8.7 | 5.4 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 182.0 | 42.2 | 9.4 | 7.4 | 6.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 49.5 | 18.7 | 6.0 | 4.0 | 3.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 28.8 | 12.7 | 2.7 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 22.8 | 6.0 | 1.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 22.8 | 3.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 19.4 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.7 | 0.0 | 0.0 | 0.0 | 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)