

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: P674760

Luminaire Tested: **CCP-SA-1D-835-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674760
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1D-835-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T3R distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

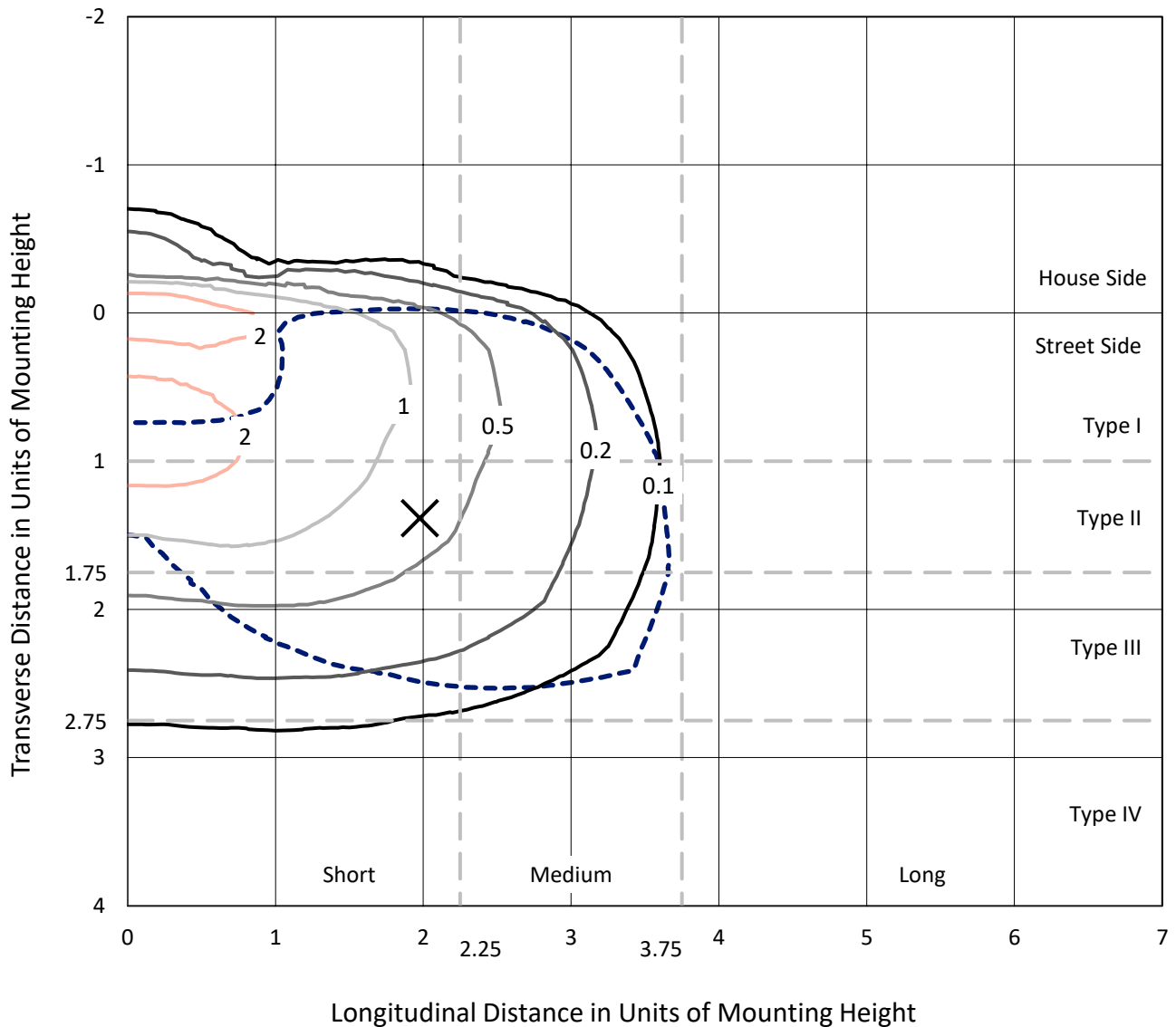
Lumens per Lamp: N/A
Luminaire Lumens: 3644.5 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

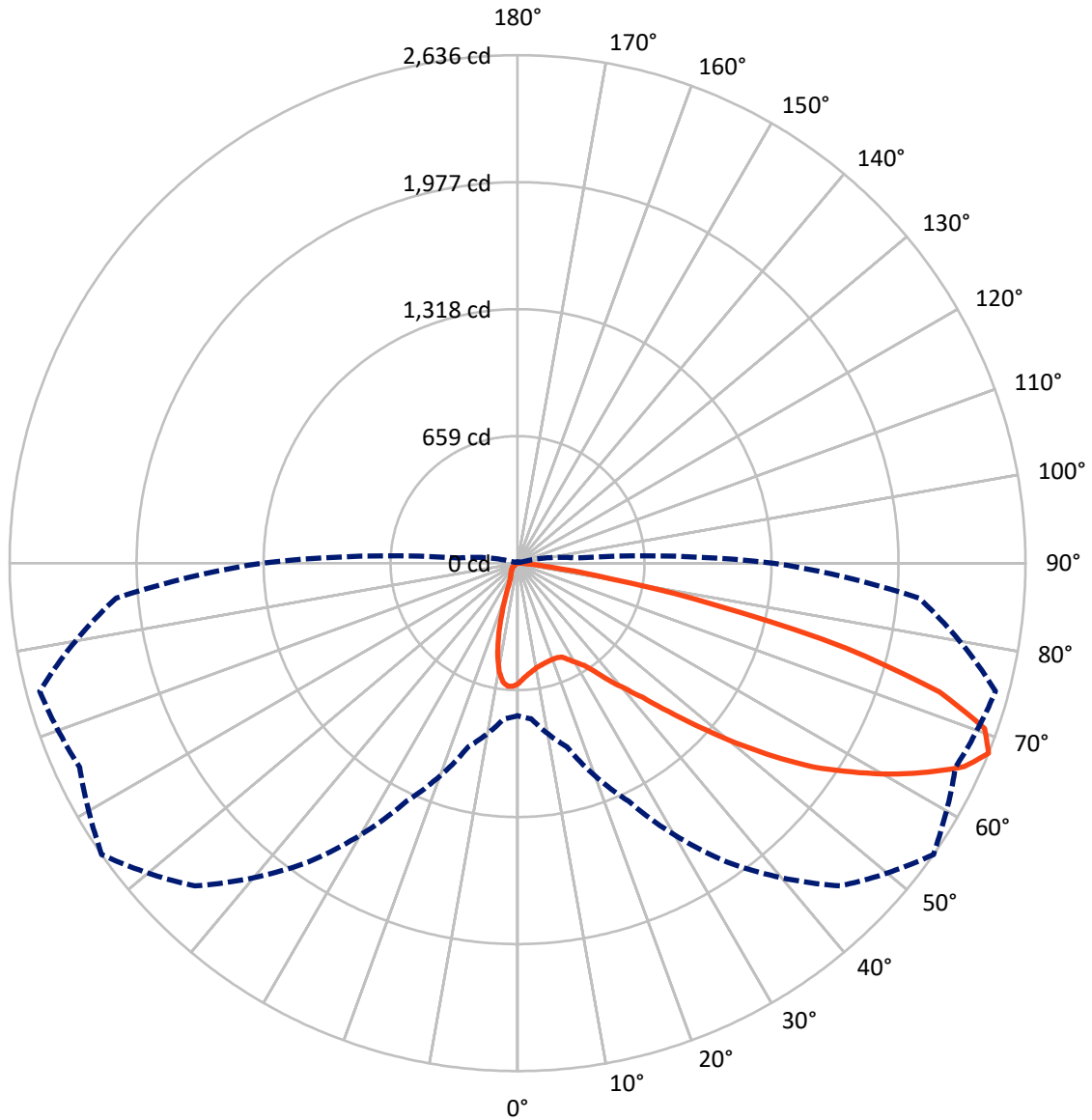
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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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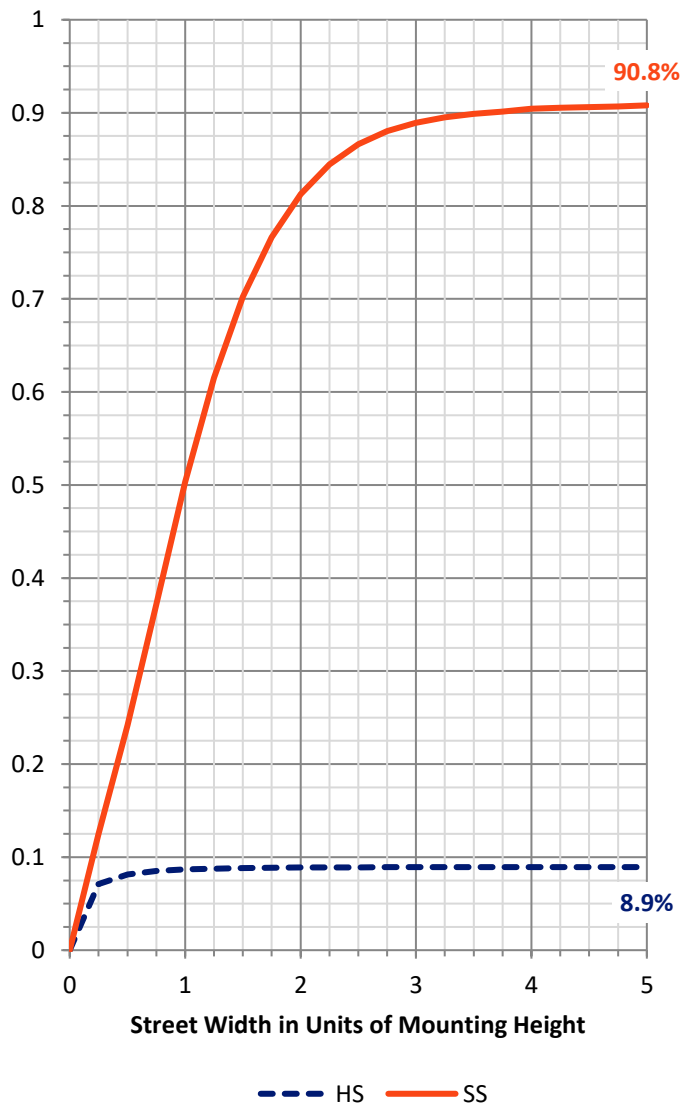
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 327.4 | 0.0 | 327.4 |
| | % Fixture | 9.0 | 0.0 | 9.0 |
| Street Side | Lumens | 3317.1 | 0.0 | 3317.1 |
| | % Fixture | 91.0 | 0.0 | 91.0 |
| Total | Lumens | 3644.5 | 0.0 | 3644.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.8 | 1.5 |
| 10°-20° | 124.8 | 3.4 |
| 20°-30° | 200.2 | 5.5 |
| 30°-40° | 347.3 | 9.5 |
| 40°-50° | 579.1 | 15.9 |
| 50°-60° | 846.8 | 23.2 |
| 60°-70° | 987.3 | 27.1 |
| 70°-80° | 479.2 | 13.1 |
| 80°-90° | 25.0 | 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° | 3644.5 | 100.0 |
| 0°-180° | 3644.5 | 100.0 |



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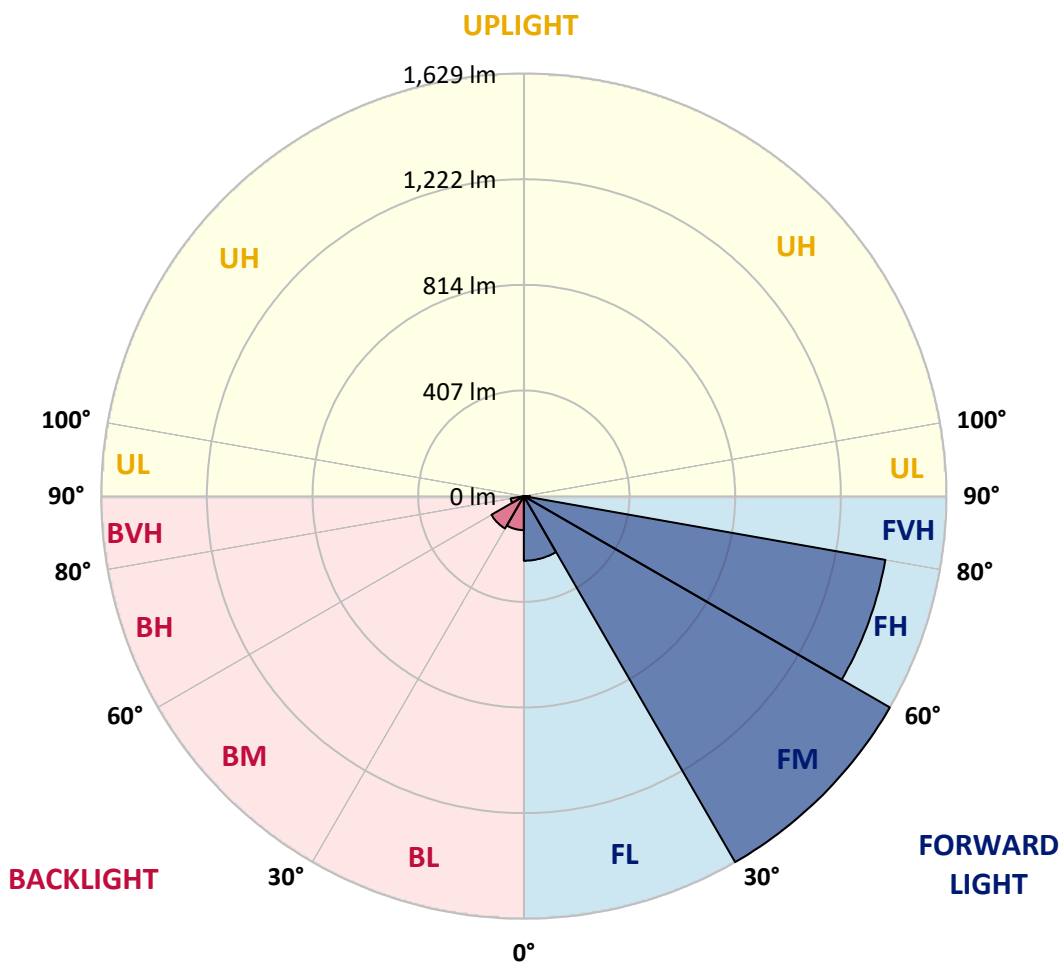
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 249.0 | 6.8 | | | |
| FM (30°-60°) | 1629.0 | 44.7 | | | |
| FH (60°-80°) | 1414.9 | 38.8 | | | G1/1800 |
| FVH (80°-90°) | 24.3 | 0.7 | | | G1/100 |
| BL (0°-30°) | 130.9 | 3.6 | B1/500 | | |
| BM (30°-60°) | 144.1 | 4.0 | B0/220 | | |
| BH (60°-80°) | 51.6 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.7 | 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° | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 |
| 2.5° | 576.6 | 580.2 | 584.9 | 586.6 | 592.3 | 600.4 | 598.0 | 596.4 | 605.4 | 617.9 | 621.9 |
| 5° | 540.6 | 541.0 | 548.3 | 553.7 | 563.5 | 571.2 | 579.6 | 578.9 | 595.4 | 616.5 | 629.9 |
| 7.5° | 505.4 | 506.0 | 513.8 | 522.2 | 536.3 | 551.4 | 564.1 | 563.5 | 590.0 | 618.2 | 643.7 |
| 10° | 459.0 | 462.4 | 471.8 | 486.6 | 508.7 | 532.6 | 550.4 | 552.0 | 583.9 | 624.6 | 662.5 |
| 12.5° | 421.8 | 423.4 | 433.8 | 453.0 | 479.2 | 510.4 | 543.6 | 542.6 | 585.3 | 636.3 | 687.0 |
| 15° | 406.0 | 405.0 | 411.3 | 425.4 | 455.3 | 494.6 | 536.9 | 539.3 | 590.0 | 649.8 | 712.5 |
| 17.5° | 409.7 | 408.7 | 412.0 | 417.1 | 438.2 | 481.5 | 533.2 | 537.3 | 597.4 | 663.9 | 736.4 |
| 20° | 450.6 | 443.6 | 437.5 | 432.2 | 435.2 | 470.8 | 530.9 | 535.2 | 601.7 | 674.6 | 761.6 |
| 22.5° | 529.5 | 520.8 | 504.7 | 474.8 | 455.0 | 471.4 | 531.6 | 537.3 | 611.5 | 692.1 | 792.1 |
| 25° | 658.1 | 649.8 | 615.2 | 554.1 | 501.7 | 495.6 | 540.6 | 546.7 | 634.0 | 718.6 | 824.7 |
| 27.5° | 828.4 | 809.6 | 767.6 | 680.0 | 578.9 | 534.2 | 567.8 | 574.5 | 665.9 | 739.1 | 846.9 |
| 30° | 969.8 | 965.4 | 925.1 | 817.6 | 685.3 | 591.0 | 598.4 | 602.1 | 680.3 | 751.5 | 869.0 |
| 32.5° | 1116.5 | 1107.4 | 1070.5 | 966.1 | 808.9 | 671.9 | 632.6 | 634.3 | 699.1 | 770.0 | 901.3 |
| 35° | 1244.1 | 1235.7 | 1204.8 | 1103.4 | 953.3 | 780.7 | 689.4 | 685.7 | 738.1 | 810.6 | 944.9 |
| 37.5° | 1362.3 | 1361.3 | 1334.1 | 1230.7 | 1082.9 | 893.5 | 773.0 | 770.0 | 798.8 | 855.3 | 1004.0 |
| 40° | 1477.8 | 1475.1 | 1452.0 | 1357.6 | 1210.5 | 1006.0 | 852.6 | 844.8 | 850.6 | 917.7 | 1081.9 |
| 42.5° | 1548.7 | 1554.4 | 1562.4 | 1502.7 | 1362.0 | 1138.0 | 953.3 | 948.6 | 947.6 | 1015.4 | 1184.3 |
| 45° | 1586.9 | 1597.0 | 1644.4 | 1639.0 | 1522.5 | 1302.2 | 1096.7 | 1084.6 | 1080.6 | 1149.7 | 1301.5 |
| 47.5° | 1624.2 | 1628.6 | 1706.2 | 1738.7 | 1676.3 | 1473.4 | 1270.0 | 1253.2 | 1236.7 | 1313.6 | 1441.5 |
| 50° | 1626.6 | 1633.6 | 1729.7 | 1808.9 | 1805.2 | 1642.0 | 1464.4 | 1449.6 | 1430.8 | 1513.1 | 1578.2 |
| 52.5° | 1593.7 | 1607.8 | 1726.6 | 1853.2 | 1885.1 | 1790.8 | 1666.2 | 1654.1 | 1638.7 | 1700.1 | 1693.4 |
| 55° | 1366.3 | 1390.2 | 1667.5 | 1857.3 | 1941.2 | 1918.4 | 1869.0 | 1852.2 | 1837.1 | 1880.8 | 1806.2 |
| 57.5° | 1258.2 | 1271.6 | 1488.2 | 1854.2 | 2012.7 | 2036.6 | 2045.0 | 2037.2 | 2016.1 | 2070.5 | 1924.1 |
| 60° | 1193.4 | 1212.9 | 1402.6 | 1820.7 | 2090.0 | 2170.2 | 2222.9 | 2207.5 | 2181.6 | 2256.5 | 2050.3 |
| 62.5° | 1115.8 | 1129.9 | 1317.3 | 1723.9 | 2136.0 | 2306.2 | 2389.8 | 2375.7 | 2322.3 | 2428.1 | 2152.4 |
| 65° | 972.8 | 993.9 | 1181.6 | 1571.8 | 2074.2 | 2405.9 | 2547.0 | 2542.3 | 2449.6 | 2557.7 | 2180.3 |
| 67.5° | 791.8 | 810.9 | 985.9 | 1363.3 | 1893.5 | 2368.7 | 2636.0 | 2621.2 | 2507.3 | 2567.5 | 2092.0 |
| 70° | 594.3 | 604.8 | 736.7 | 1041.6 | 1551.4 | 2169.5 | 2571.5 | 2568.5 | 2419.7 | 2423.1 | 1821.0 |
| 72.5° | 319.0 | 347.9 | 489.9 | 697.1 | 1091.0 | 1757.2 | 2291.8 | 2279.7 | 2158.8 | 1984.5 | 1309.6 |
| 75° | 111.5 | 119.9 | 260.9 | 391.5 | 592.7 | 1170.6 | 1762.2 | 1734.0 | 1614.5 | 1290.8 | 713.6 |
| 77.5° | 68.5 | 75.2 | 115.8 | 200.1 | 230.7 | 508.1 | 1058.7 | 1022.1 | 944.9 | 558.1 | 243.8 |
| 80° | 47.3 | 53.4 | 77.6 | 104.8 | 78.6 | 164.5 | 487.2 | 473.5 | 364.3 | 133.0 | 56.1 |
| 82.5° | 26.5 | 31.9 | 58.8 | 51.4 | 31.6 | 42.6 | 168.9 | 156.5 | 97.0 | 35.9 | 18.8 |
| 85° | 15.4 | 18.5 | 41.3 | 36.3 | 16.1 | 15.1 | 44.0 | 39.3 | 25.2 | 13.4 | 9.1 |
| 87.5° | 8.1 | 10.4 | 30.2 | 24.2 | 9.7 | 5.4 | 10.1 | 9.7 | 6.4 | 4.7 | 6.0 |
| 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° | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 |
| 2.5° | 629.3 | 627.6 | 636.3 | 639.3 | 638.7 | 637.3 | 640.7 | 636.3 | 636.0 | 635.0 | 634.0 |
| 5° | 640.7 | 643.4 | 650.4 | 650.4 | 641.0 | 625.6 | 616.2 | 603.4 | 592.7 | 586.3 | 585.3 |
| 7.5° | 657.8 | 663.2 | 667.9 | 653.4 | 621.2 | 582.9 | 542.3 | 510.4 | 482.5 | 468.1 | 466.7 |
| 10° | 682.0 | 687.0 | 683.3 | 642.0 | 572.9 | 493.6 | 427.5 | 361.0 | 327.7 | 309.6 | 309.6 |
| 12.5° | 710.9 | 714.9 | 692.4 | 613.5 | 493.3 | 378.4 | 290.1 | 220.3 | 187.0 | 165.5 | 164.2 |
| 15° | 742.1 | 743.1 | 691.1 | 563.8 | 394.9 | 254.2 | 166.6 | 122.2 | 108.1 | 105.1 | 104.4 |
| 17.5° | 769.3 | 765.3 | 677.0 | 490.3 | 284.4 | 151.4 | 105.8 | 95.7 | 93.0 | 93.0 | 93.0 |
| 20° | 794.8 | 781.4 | 648.7 | 404.6 | 182.3 | 103.1 | 91.0 | 88.3 | 88.3 | 88.6 | 88.6 |
| 22.5° | 823.0 | 796.5 | 608.5 | 309.6 | 117.2 | 88.3 | 85.3 | 83.9 | 83.6 | 84.6 | 84.3 |
| 25° | 856.3 | 811.3 | 550.7 | 213.9 | 90.7 | 82.3 | 80.9 | 79.6 | 79.6 | 79.6 | 79.6 |
| 27.5° | 874.7 | 809.3 | 484.9 | 135.0 | 79.2 | 76.2 | 74.9 | 73.5 | 72.5 | 72.2 | 72.5 |
| 30° | 890.9 | 797.5 | 398.9 | 94.4 | 71.5 | 68.2 | 67.2 | 65.5 | 63.5 | 62.8 | 62.8 |
| 32.5° | 912.0 | 787.8 | 308.9 | 75.9 | 64.8 | 61.1 | 58.1 | 55.4 | 52.0 | 50.7 | 50.4 |
| 35° | 935.5 | 770.0 | 226.3 | 66.8 | 58.8 | 54.1 | 49.4 | 45.0 | 40.6 | 39.3 | 39.0 |
| 37.5° | 964.7 | 753.8 | 153.5 | 61.8 | 53.7 | 48.0 | 41.6 | 35.6 | 31.6 | 30.9 | 30.9 |
| 40° | 1004.3 | 740.4 | 106.1 | 57.4 | 49.0 | 42.3 | 34.6 | 28.2 | 25.5 | 24.8 | 24.8 |
| 42.5° | 1058.4 | 729.3 | 80.3 | 53.7 | 45.0 | 36.6 | 27.9 | 23.2 | 21.2 | 20.5 | 20.5 |
| 45° | 1122.2 | 712.2 | 67.8 | 50.4 | 41.0 | 30.9 | 23.2 | 19.5 | 18.5 | 18.5 | 18.5 |
| 47.5° | 1195.4 | 690.7 | 61.8 | 47.0 | 36.6 | 25.2 | 19.5 | 17.8 | 17.5 | 17.5 | 17.8 |
| 50° | 1269.3 | 665.2 | 57.4 | 43.0 | 31.6 | 21.5 | 17.8 | 16.8 | 16.8 | 17.1 | 17.1 |
| 52.5° | 1319.3 | 625.2 | 53.1 | 38.6 | 26.5 | 18.8 | 16.8 | 16.5 | 16.1 | 16.1 | 16.1 |
| 55° | 1368.0 | 590.3 | 47.0 | 33.9 | 22.2 | 17.5 | 16.1 | 15.8 | 15.8 | 15.4 | 15.4 |
| 57.5° | 1418.7 | 562.8 | 39.3 | 28.2 | 18.8 | 16.5 | 15.4 | 15.4 | 14.8 | 14.4 | 14.4 |
| 60° | 1477.5 | 538.6 | 30.2 | 22.2 | 16.5 | 15.4 | 14.4 | 14.1 | 13.4 | 12.8 | 12.8 |
| 62.5° | 1494.6 | 487.6 | 22.8 | 17.8 | 14.1 | 13.4 | 13.1 | 12.4 | 10.7 | 9.4 | 9.7 |
| 65° | 1449.9 | 407.3 | 18.1 | 14.1 | 11.4 | 11.4 | 10.4 | 8.7 | 7.1 | 6.0 | 6.0 |
| 67.5° | 1326.7 | 304.2 | 14.8 | 11.1 | 9.1 | 8.7 | 7.4 | 6.4 | 4.4 | 3.7 | 3.7 |
| 70° | 1093.3 | 201.1 | 12.1 | 8.7 | 7.4 | 6.0 | 5.0 | 4.7 | 3.4 | 2.7 | 2.7 |
| 72.5° | 766.3 | 109.1 | 10.1 | 7.1 | 5.4 | 4.0 | 3.4 | 3.0 | 2.4 | 2.0 | 1.7 |
| 75° | 404.6 | 42.0 | 8.1 | 5.4 | 3.4 | 2.7 | 2.0 | 2.0 | 1.7 | 1.3 | 1.3 |
| 77.5° | 138.7 | 17.8 | 5.7 | 3.0 | 2.4 | 1.7 | 1.3 | 1.0 | 1.3 | 1.0 | 1.0 |
| 80° | 32.9 | 10.4 | 3.7 | 2.0 | 1.3 | 1.0 | 1.0 | 0.7 | 0.7 | 0.7 | 0.7 |
| 82.5° | 14.4 | 6.0 | 2.4 | 1.3 | 1.3 | 1.0 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 |
| 85° | 9.7 | 3.7 | 1.7 | 1.3 | 1.0 | 0.7 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.7 | 2.4 | 1.3 | 1.3 | 1.0 | 0.7 | 0.3 | 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)