

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: P676552

Luminaire Tested: **CCW-SA-1B-735-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676552
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-735-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

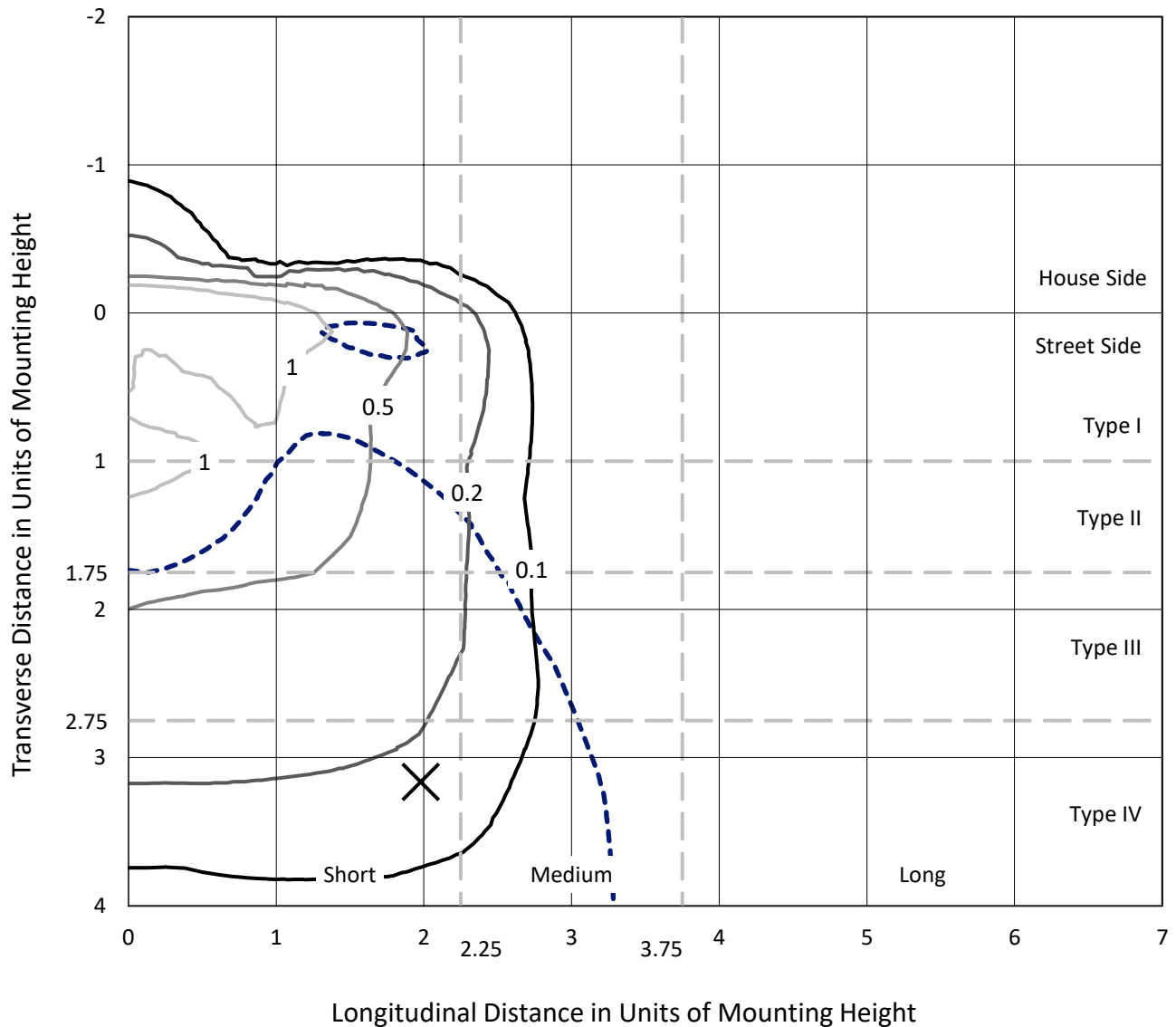
Lumens per Lamp: N/A
Luminaire Lumens: 2445.9 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

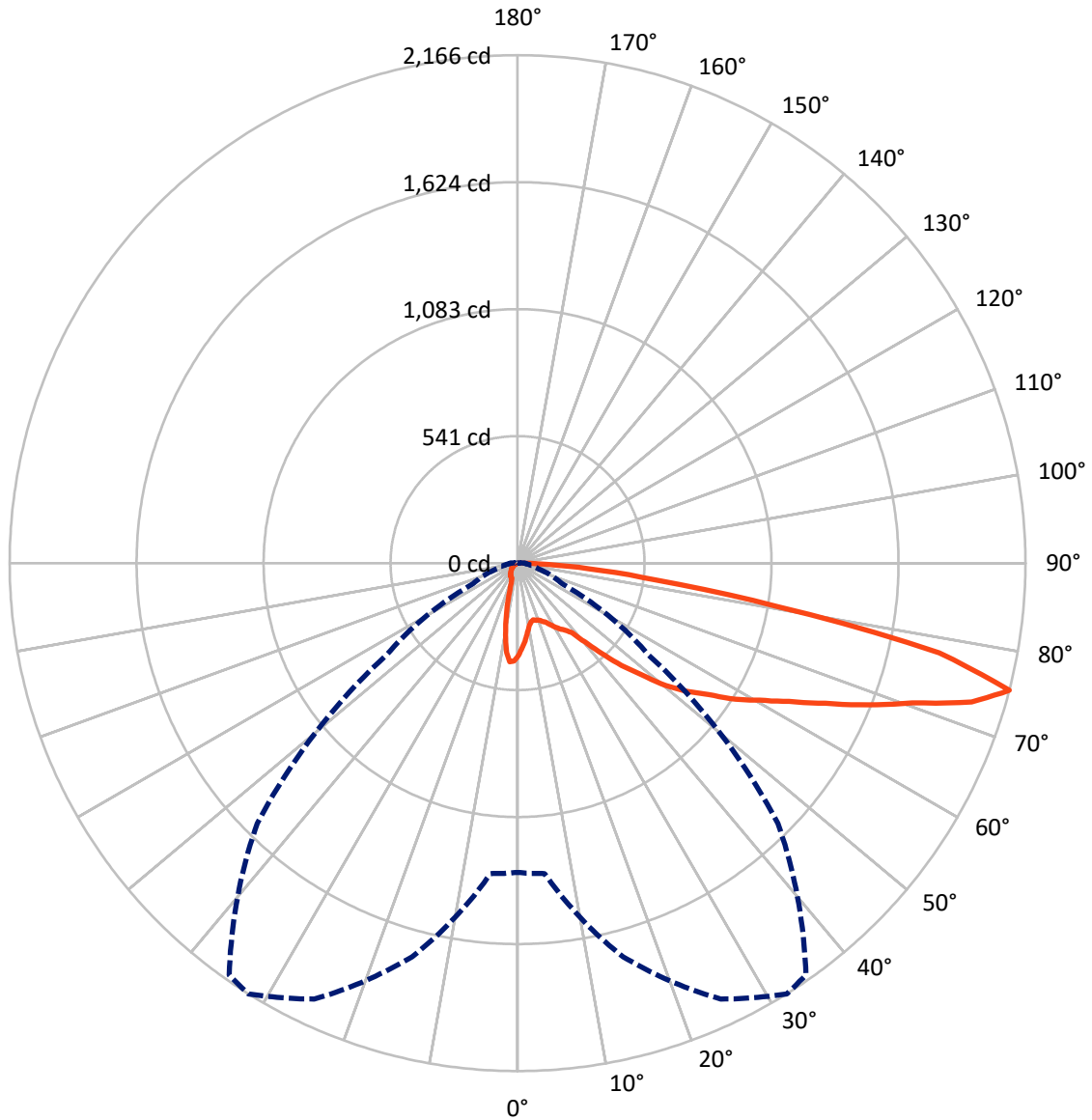
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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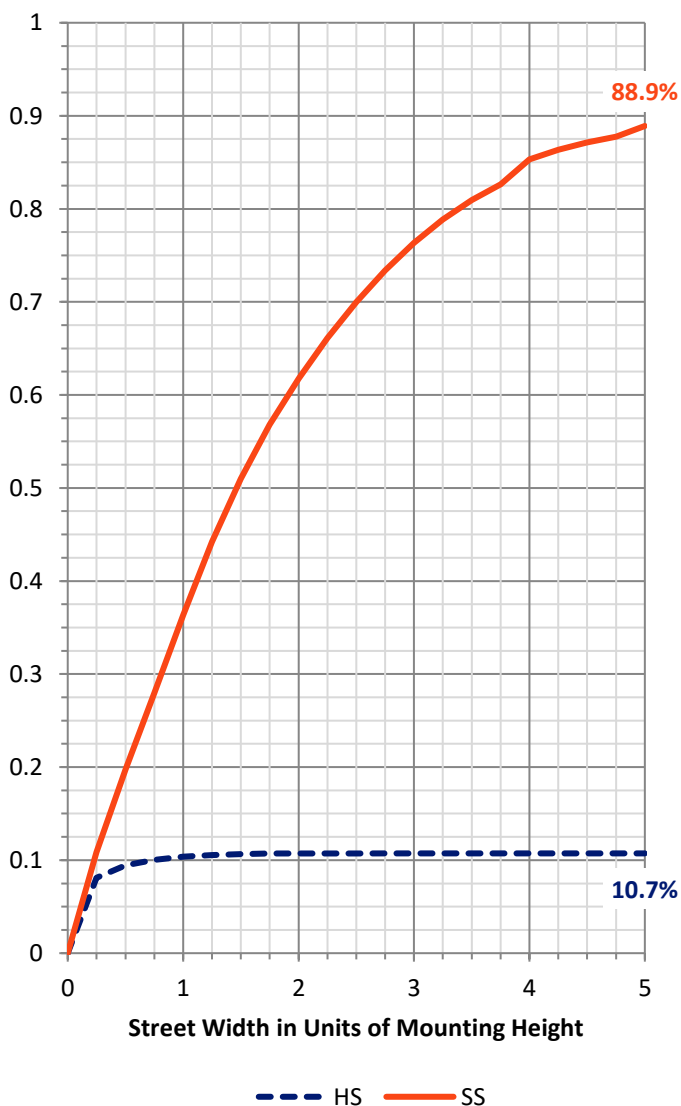
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 264.2 | 0.0 | 264.2 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 2181.6 | 0.0 | 2181.6 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 2445.9 | 0.0 | 2445.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 34.7 | 1.4 |
| 10°-20° | 78.8 | 3.2 |
| 20°-30° | 118.0 | 4.8 |
| 30°-40° | 181.1 | 7.4 |
| 40°-50° | 316.7 | 12.9 |
| 50°-60° | 495.0 | 20.2 |
| 60°-70° | 640.0 | 26.2 |
| 70°-80° | 521.3 | 21.3 |
| 80°-90° | 60.3 | 2.5 |
| 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° | 2445.9 | 100.0 |
| 0°-180° | 2445.9 | 100.0 |



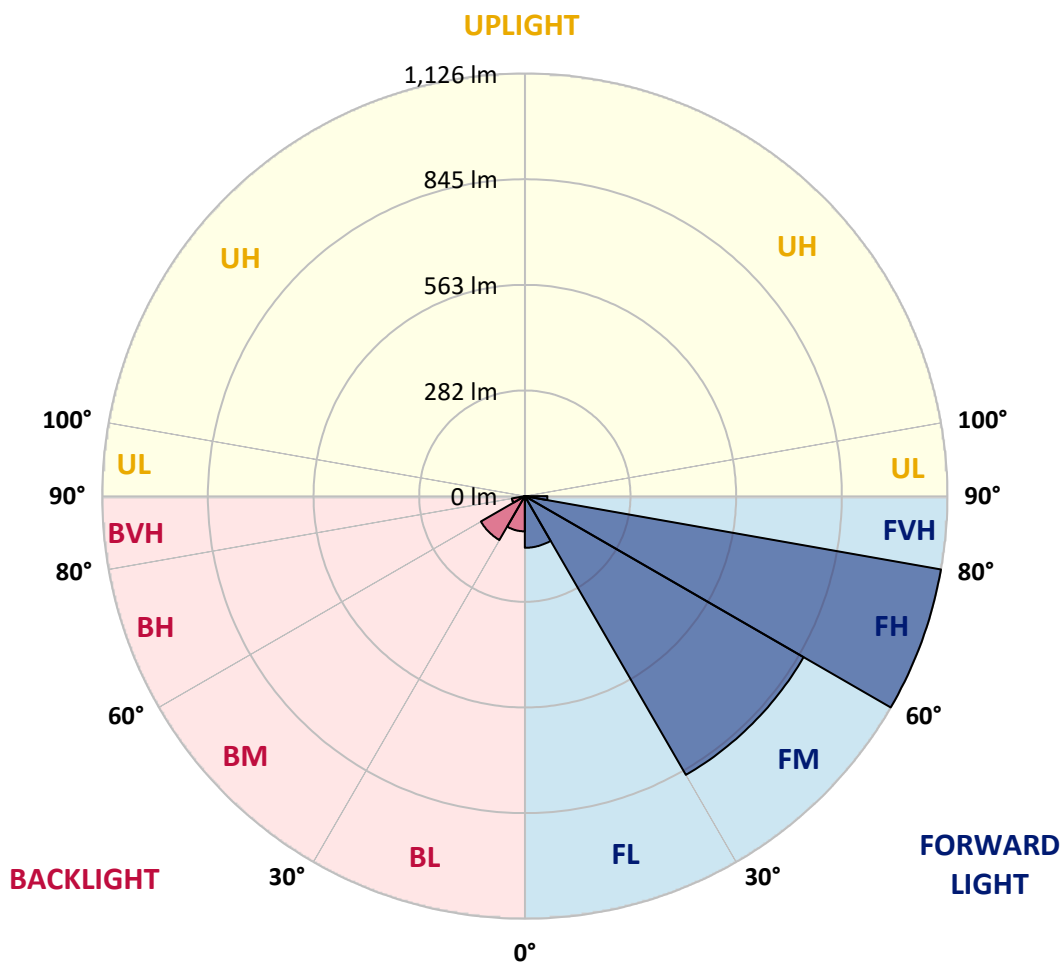
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 137.6 | 5.6 | | | |
| FM (30°-60°) | 857.6 | 35.1 | | | |
| FH (60°-80°) | 1126.1 | 46.0 | | | G1/1800 |
| FVH (80°-90°) | 60.3 | 2.5 | | | G1/100 |
| BL (0°-30°) | 93.9 | 3.8 | B0/110 | | |
| BM (30°-60°) | 135.2 | 5.5 | B0/220 | | |
| BH (60°-80°) | 35.1 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 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° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 0° | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 |
| 2.5° | 354.2 | 359.2 | 358.6 | 361.7 | 362.3 | 364.2 | 368.6 | 368.6 | 381.1 | 389.9 | 395.6 |
| 5° | 322.2 | 319.1 | 320.3 | 324.1 | 333.5 | 332.9 | 343.5 | 349.2 | 364.2 | 376.8 | 389.9 |
| 7.5° | 282.7 | 282.1 | 284.6 | 293.4 | 300.3 | 305.9 | 317.2 | 331.6 | 351.7 | 370.5 | 393.7 |
| 10° | 257.6 | 256.4 | 261.4 | 263.9 | 272.1 | 275.8 | 293.4 | 315.9 | 339.8 | 366.7 | 393.7 |
| 12.5° | 252.0 | 247.6 | 250.1 | 249.5 | 257.0 | 258.9 | 275.8 | 303.4 | 332.2 | 365.5 | 398.7 |
| 15° | 255.1 | 252.0 | 249.5 | 249.5 | 251.4 | 252.6 | 270.8 | 295.3 | 327.9 | 367.4 | 410.0 |
| 17.5° | 265.2 | 263.3 | 255.8 | 248.2 | 256.4 | 256.4 | 267.7 | 293.4 | 328.5 | 373.0 | 423.8 |
| 20° | 277.1 | 275.2 | 262.0 | 253.3 | 258.9 | 265.2 | 277.1 | 297.8 | 330.4 | 377.4 | 445.1 |
| 22.5° | 290.2 | 290.2 | 272.1 | 262.0 | 269.6 | 270.2 | 291.5 | 311.6 | 337.9 | 388.7 | 458.9 |
| 25° | 306.5 | 305.3 | 287.7 | 276.5 | 279.0 | 285.9 | 305.3 | 326.6 | 351.7 | 404.3 | 484.6 |
| 27.5° | 327.9 | 326.0 | 305.3 | 294.0 | 297.1 | 304.7 | 326.6 | 347.9 | 364.2 | 410.6 | 506.5 |
| 30° | 345.4 | 343.5 | 326.6 | 309.7 | 316.6 | 323.5 | 349.2 | 368.0 | 379.9 | 422.5 | 531.6 |
| 32.5° | 349.2 | 346.0 | 334.8 | 327.2 | 334.8 | 347.9 | 368.0 | 387.4 | 405.6 | 452.6 | 579.2 |
| 35° | 392.4 | 381.1 | 351.7 | 339.8 | 351.1 | 355.4 | 388.7 | 423.1 | 440.7 | 476.4 | 632.5 |
| 37.5° | 475.2 | 464.5 | 425.7 | 392.4 | 376.8 | 381.8 | 425.0 | 467.7 | 484.6 | 520.9 | 690.8 |
| 40° | 576.7 | 559.2 | 517.8 | 473.3 | 441.3 | 435.1 | 463.3 | 526.0 | 542.2 | 576.7 | 767.3 |
| 42.5° | 692.7 | 675.8 | 611.8 | 559.2 | 526.6 | 518.4 | 522.8 | 593.7 | 607.4 | 628.1 | 817.4 |
| 45° | 776.1 | 767.3 | 695.2 | 648.2 | 622.5 | 613.7 | 603.1 | 667.6 | 685.2 | 692.1 | 890.2 |
| 47.5° | 824.3 | 818.1 | 778.0 | 746.0 | 711.5 | 702.1 | 709.0 | 770.4 | 758.5 | 764.2 | 959.8 |
| 50° | 888.9 | 872.6 | 818.1 | 828.1 | 821.2 | 818.7 | 830.6 | 857.6 | 840.0 | 823.7 | 1035.6 |
| 52.5° | 940.9 | 912.1 | 873.9 | 898.3 | 909.0 | 918.4 | 960.4 | 980.4 | 902.1 | 877.0 | 1084.5 |
| 55° | 972.9 | 945.3 | 955.4 | 977.9 | 989.2 | 1032.5 | 1082.0 | 1066.9 | 942.8 | 919.6 | 1149.7 |
| 57.5° | 1001.8 | 1003.6 | 1030.6 | 1037.5 | 1095.2 | 1102.7 | 1198.0 | 1149.1 | 971.7 | 958.5 | 1175.4 |
| 60° | 1071.3 | 1064.4 | 1086.4 | 1130.9 | 1186.1 | 1228.1 | 1319.0 | 1204.2 | 986.1 | 978.6 | 1168.5 |
| 62.5° | 1196.7 | 1154.1 | 1161.6 | 1218.0 | 1298.9 | 1344.7 | 1388.5 | 1229.3 | 982.3 | 981.7 | 1147.8 |
| 65° | 1355.9 | 1307.0 | 1284.5 | 1337.1 | 1441.8 | 1506.4 | 1466.9 | 1257.5 | 957.2 | 974.8 | 1070.7 |
| 67.5° | 1488.2 | 1488.8 | 1446.8 | 1476.3 | 1613.0 | 1626.7 | 1540.9 | 1251.9 | 915.2 | 920.3 | 882.6 |
| 70° | 1640.5 | 1661.2 | 1624.2 | 1716.4 | 1784.7 | 1793.5 | 1625.5 | 1205.5 | 825.0 | 694.0 | 507.1 |
| 72.5° | 1679.4 | 1690.1 | 1805.4 | 1947.1 | 2024.2 | 2026.7 | 1708.9 | 1050.6 | 542.9 | 306.5 | 157.3 |
| 75° | 1319.0 | 1329.0 | 1737.7 | 2051.1 | 2165.9 | 2143.9 | 1569.7 | 682.0 | 211.3 | 89.6 | 37.6 |
| 77.5° | 736.0 | 739.1 | 1078.9 | 1658.1 | 1837.4 | 1749.0 | 1099.5 | 265.8 | 85.3 | 51.4 | 17.6 |
| 80° | 201.2 | 236.3 | 399.9 | 817.4 | 1122.1 | 1101.4 | 523.4 | 86.5 | 55.2 | 40.1 | 8.1 |
| 82.5° | 48.3 | 52.0 | 128.5 | 361.7 | 593.0 | 618.7 | 156.1 | 43.9 | 38.2 | 33.2 | 4.4 |
| 85° | 17.6 | 19.4 | 39.5 | 176.2 | 304.7 | 279.6 | 47.0 | 21.9 | 28.2 | 25.7 | 1.9 |
| 87.5° | 6.3 | 6.3 | 12.5 | 57.7 | 89.0 | 67.1 | 15.7 | 7.5 | 14.4 | 15.7 | 0.6 |
| 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° | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 | 394.9 |
| 2.5° | 396.2 | 396.2 | 405.0 | 412.5 | 415.0 | 418.1 | 415.0 | 421.9 | 421.3 | 418.1 | 419.4 |
| 5° | 396.8 | 408.1 | 415.6 | 420.6 | 423.1 | 422.5 | 423.8 | 416.2 | 411.9 | 408.7 | 405.6 |
| 7.5° | 399.9 | 410.6 | 424.4 | 423.1 | 416.2 | 401.8 | 390.5 | 370.5 | 351.1 | 350.4 | 347.3 |
| 10° | 410.6 | 420.0 | 428.2 | 423.1 | 398.1 | 354.2 | 318.5 | 291.5 | 267.1 | 255.8 | 257.0 |
| 12.5° | 418.1 | 435.7 | 431.9 | 406.2 | 354.2 | 296.5 | 243.9 | 204.4 | 182.4 | 161.7 | 161.7 |
| 15° | 433.8 | 440.1 | 438.8 | 381.8 | 300.3 | 231.3 | 167.4 | 127.3 | 104.1 | 94.7 | 93.4 |
| 17.5° | 448.8 | 455.7 | 434.4 | 344.8 | 247.0 | 155.5 | 101.6 | 79.0 | 75.9 | 74.6 | 75.2 |
| 20° | 467.7 | 468.3 | 430.7 | 307.8 | 185.6 | 98.4 | 72.7 | 70.8 | 71.5 | 70.8 | 70.8 |
| 22.5° | 487.7 | 492.1 | 417.5 | 255.8 | 123.5 | 71.5 | 67.7 | 68.3 | 68.3 | 68.3 | 70.2 |
| 25° | 514.0 | 507.1 | 396.8 | 206.2 | 80.9 | 65.8 | 65.8 | 66.4 | 66.4 | 66.4 | 67.1 |
| 27.5° | 531.6 | 522.2 | 370.5 | 148.6 | 63.3 | 62.1 | 63.3 | 63.3 | 64.6 | 64.6 | 64.6 |
| 30° | 568.0 | 543.5 | 337.3 | 95.9 | 57.0 | 58.9 | 60.2 | 61.4 | 62.1 | 63.3 | 63.9 |
| 32.5° | 596.2 | 562.3 | 295.9 | 63.9 | 52.0 | 53.3 | 56.4 | 58.9 | 61.4 | 60.8 | 60.8 |
| 35° | 647.6 | 593.0 | 257.6 | 50.8 | 47.6 | 47.6 | 50.8 | 55.2 | 58.9 | 60.2 | 60.2 |
| 37.5° | 706.5 | 618.1 | 204.4 | 46.4 | 43.9 | 43.9 | 45.8 | 50.8 | 55.8 | 58.3 | 57.0 |
| 40° | 755.4 | 646.9 | 151.1 | 43.3 | 40.7 | 40.7 | 42.0 | 45.8 | 51.4 | 55.8 | 56.4 |
| 42.5° | 789.9 | 668.3 | 102.2 | 40.1 | 38.2 | 37.6 | 39.5 | 41.4 | 45.8 | 52.0 | 53.3 |
| 45° | 821.2 | 679.5 | 63.3 | 37.0 | 35.7 | 35.7 | 35.7 | 37.6 | 40.7 | 46.4 | 47.6 |
| 47.5° | 877.0 | 692.1 | 45.8 | 34.5 | 32.6 | 33.2 | 33.9 | 34.5 | 37.0 | 38.2 | 38.9 |
| 50° | 924.0 | 701.5 | 37.6 | 32.0 | 30.7 | 31.3 | 31.3 | 31.3 | 32.6 | 30.7 | 30.7 |
| 52.5° | 959.8 | 692.1 | 32.0 | 29.5 | 28.2 | 28.8 | 28.2 | 28.2 | 27.0 | 24.4 | 24.4 |
| 55° | 986.1 | 675.1 | 25.7 | 27.0 | 27.0 | 27.0 | 25.7 | 23.8 | 21.3 | 19.4 | 19.4 |
| 57.5° | 993.0 | 646.3 | 20.1 | 22.6 | 24.4 | 24.4 | 21.9 | 19.4 | 16.3 | 14.4 | 13.8 |
| 60° | 982.3 | 583.6 | 15.0 | 16.3 | 18.8 | 19.4 | 17.6 | 14.4 | 11.3 | 9.4 | 9.4 |
| 62.5° | 944.1 | 534.1 | 11.9 | 10.7 | 13.8 | 14.4 | 12.5 | 9.4 | 6.3 | 4.4 | 3.8 |
| 65° | 871.4 | 457.6 | 8.8 | 7.5 | 9.4 | 10.0 | 8.1 | 4.4 | 1.9 | 0.6 | 0.0 |
| 67.5° | 699.0 | 344.8 | 5.6 | 5.0 | 6.3 | 6.3 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 |
| 70° | 386.8 | 193.7 | 3.8 | 2.5 | 3.1 | 1.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 111.6 | 55.2 | 1.9 | 1.3 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 30.1 | 13.2 | 1.3 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 13.2 | 5.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 5.6 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.1 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.6 | 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)