

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: P671987

Luminaire Tested: **CCP-SA-2E-750-U-AFL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671987
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-750-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ AFL distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

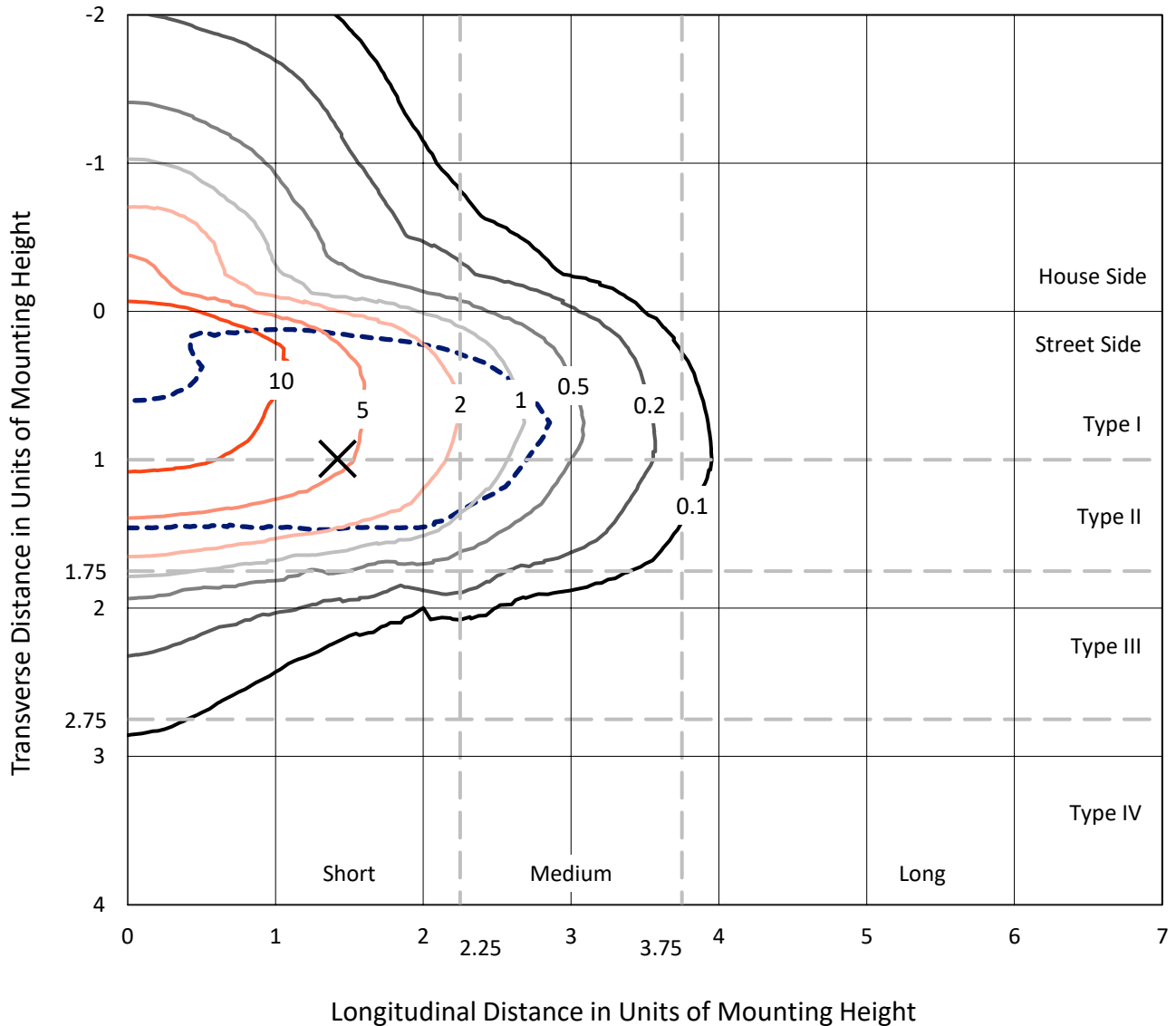
Lumens per Lamp: N/A
Luminaire Lumens: 14114.2 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 106.6
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

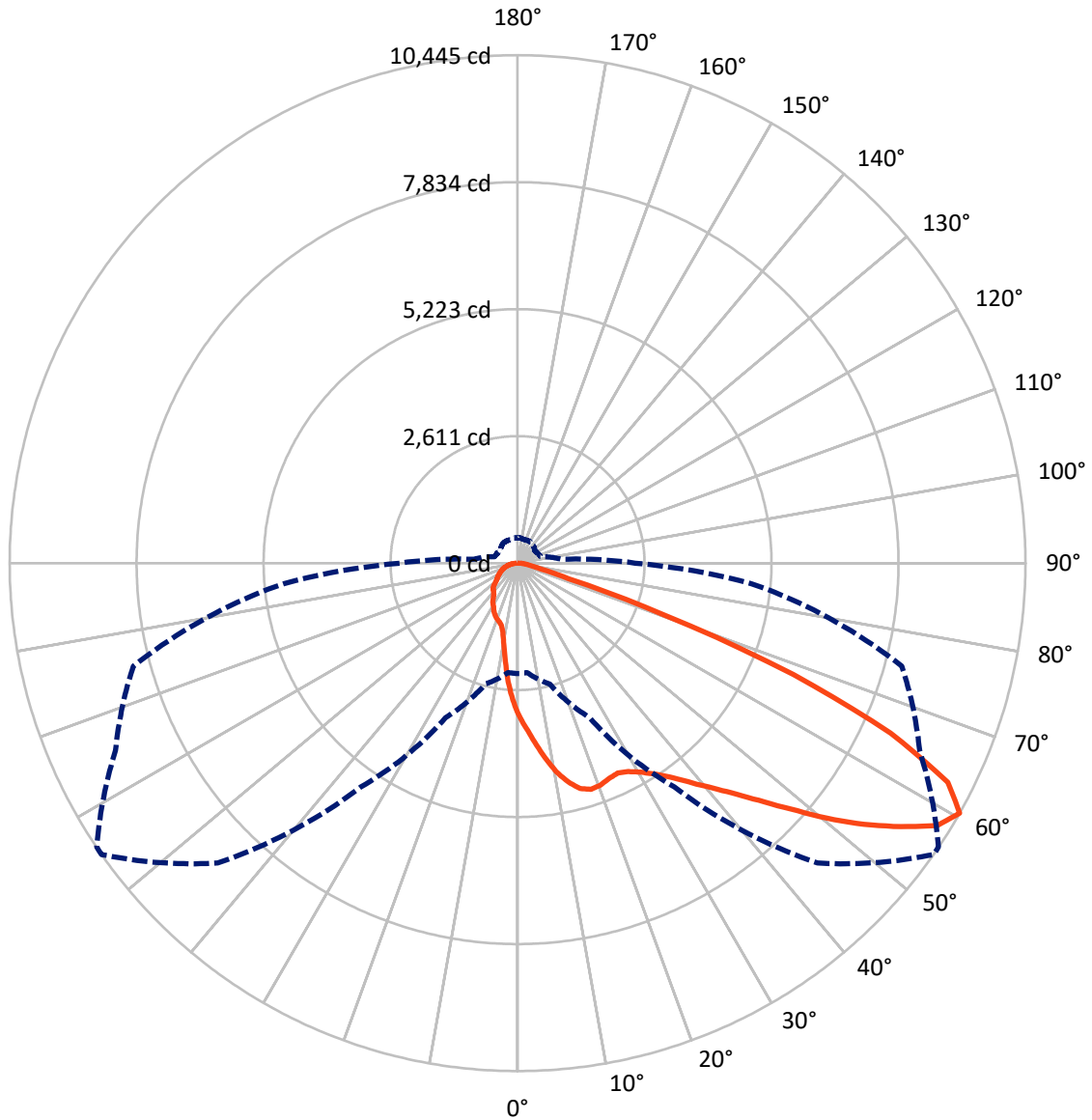
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 19.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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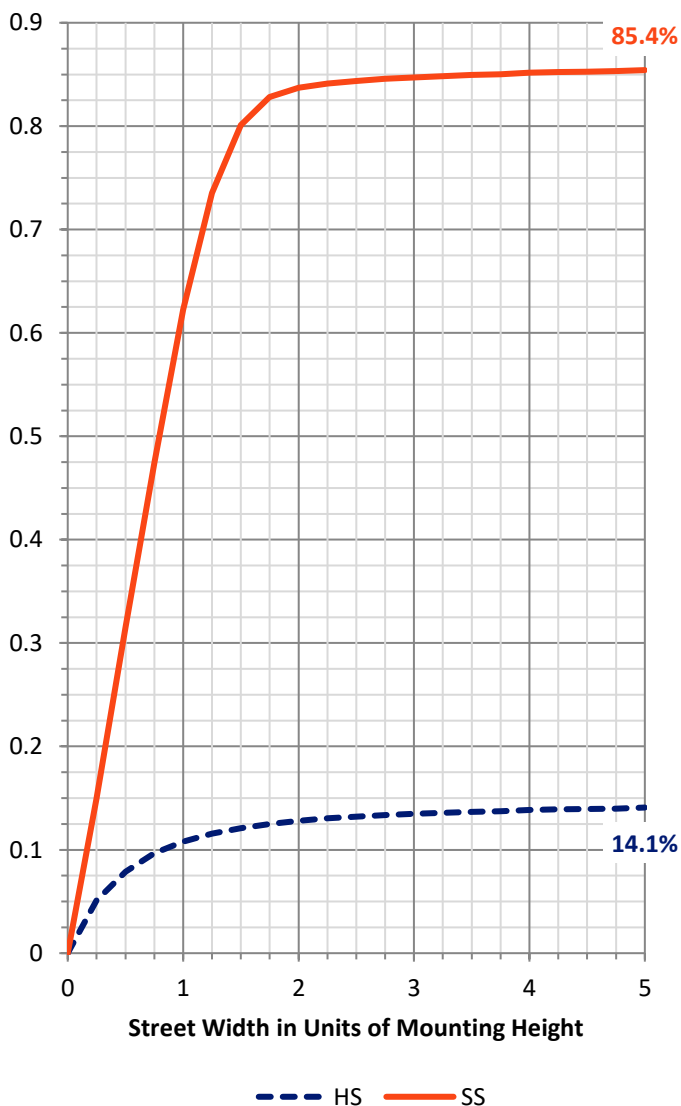
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2029.0 | 0.0 | 2029.0 |
| | % Fixture | 14.4 | 0.0 | 14.4 |
| Street Side | Lumens | 12085.2 | 0.0 | 12085.2 |
| | % Fixture | 85.6 | 0.0 | 85.6 |
| Total | Lumens | 14114.2 | 0.0 | 14114.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 292.9 | 2.1 |
| 10°-20° | 829.9 | 5.9 |
| 20°-30° | 1351.3 | 9.6 |
| 30°-40° | 2019.6 | 14.3 |
| 40°-50° | 2968.4 | 21.0 |
| 50°-60° | 3479.1 | 24.6 |
| 60°-70° | 2293.9 | 16.3 |
| 70°-80° | 730.5 | 5.2 |
| 80°-90° | 148.5 | 1.1 |
| 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° | 14114.2 | 100.0 |
| 0°-180° | 14114.2 | 100.0 |



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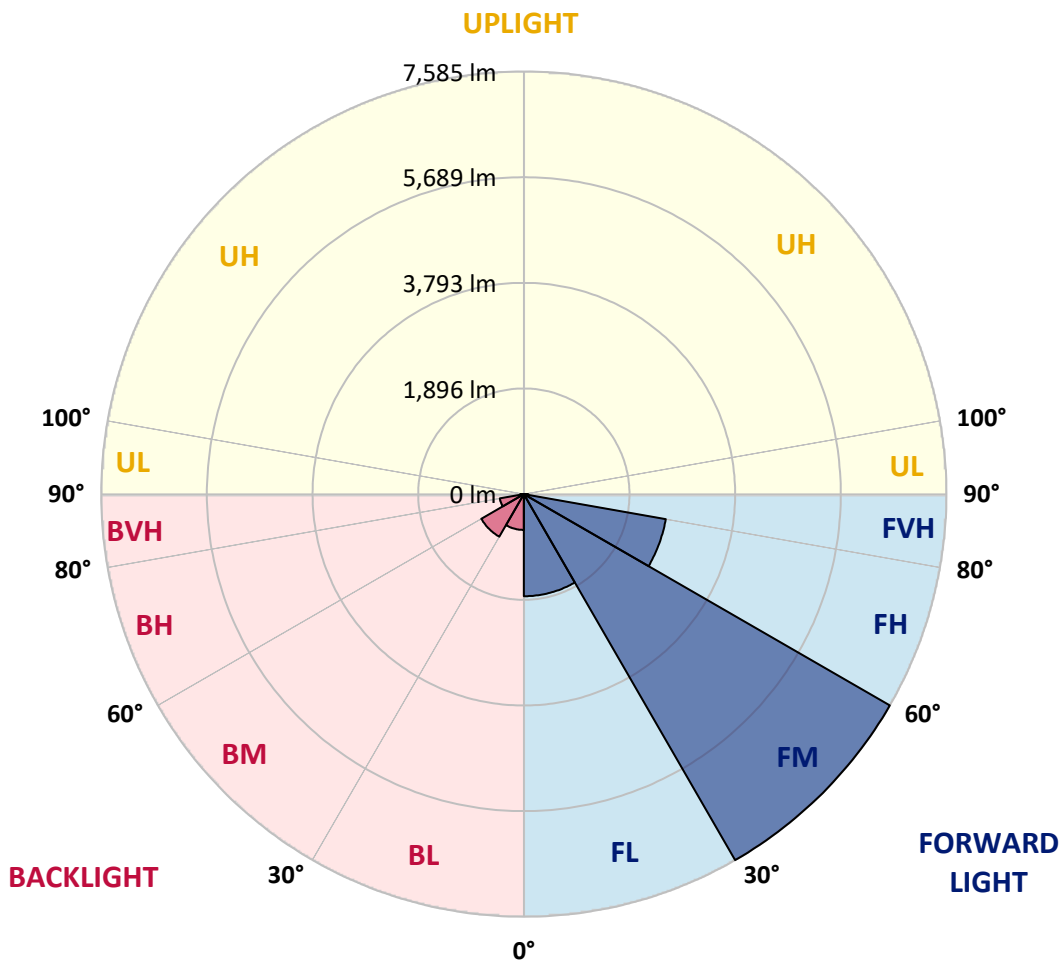
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1831.9 | 13.0 | | | |
| FM (30°-60°) | 7585.3 | 53.7 | | | |
| FH (60°-80°) | 2586.6 | 18.3 | | | G2/5000 |
| FVH (80°-90°) | 81.5 | 0.6 | | | G1/100 |
| BL (0°-30°) | 642.2 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 881.8 | 6.2 | B1/1000 | | |
| BH (60°-80°) | 437.8 | 3.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 67.1 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0° | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 |
| 2.5° | 3642.7 | 3629.4 | 3629.4 | 3595.6 | 3545.5 | 3476.0 | 3393.1 | 3372.6 | 3340.9 | 3260.1 | 3155.8 |
| 5° | 4198.2 | 4183.8 | 4164.4 | 4105.1 | 4012.0 | 3872.9 | 3697.9 | 3666.2 | 3552.7 | 3385.9 | 3197.7 |
| 7.5° | 4565.4 | 4557.2 | 4551.1 | 4499.9 | 4407.9 | 4270.8 | 4036.5 | 4000.7 | 3808.4 | 3532.2 | 3237.6 |
| 10° | 4527.5 | 4552.1 | 4595.1 | 4630.9 | 4649.3 | 4578.7 | 4358.8 | 4316.8 | 4078.5 | 3702.0 | 3296.9 |
| 12.5° | 4172.6 | 4207.4 | 4287.2 | 4433.4 | 4602.2 | 4738.3 | 4613.5 | 4589.9 | 4366.9 | 3882.1 | 3371.6 |
| 15° | 3908.7 | 3923.0 | 3961.9 | 4070.3 | 4321.9 | 4685.1 | 4810.9 | 4789.4 | 4636.0 | 4113.3 | 3457.5 |
| 17.5° | 3826.8 | 3833.0 | 3842.2 | 3878.0 | 4049.8 | 4477.4 | 4891.7 | 4912.2 | 4896.8 | 4353.6 | 3554.7 |
| 20° | 3867.7 | 3871.8 | 3872.9 | 3879.0 | 3960.8 | 4303.5 | 4870.2 | 4905.0 | 5126.0 | 4594.0 | 3650.9 |
| 22.5° | 4025.3 | 4020.2 | 4013.0 | 3989.5 | 4035.5 | 4272.8 | 4812.9 | 4868.2 | 5302.9 | 4812.9 | 3739.9 |
| 25° | 4300.5 | 4293.3 | 4243.2 | 4194.1 | 4213.5 | 4383.3 | 4782.3 | 4841.6 | 5441.0 | 5019.6 | 3805.3 |
| 27.5° | 4627.8 | 4620.6 | 4569.5 | 4476.4 | 4455.9 | 4567.4 | 4853.9 | 4890.7 | 5542.3 | 5202.7 | 3834.0 |
| 30° | 4967.4 | 4967.4 | 4904.0 | 4796.6 | 4731.1 | 4778.2 | 4985.8 | 5015.5 | 5619.0 | 5379.7 | 3852.4 |
| 32.5° | 5337.7 | 5347.9 | 5249.7 | 5127.0 | 5054.4 | 5026.7 | 5171.0 | 5196.5 | 5730.5 | 5588.3 | 3891.3 |
| 35° | 5813.4 | 5790.9 | 5671.2 | 5509.6 | 5393.0 | 5330.6 | 5400.1 | 5429.8 | 5894.2 | 5848.2 | 3953.7 |
| 37.5° | 6348.4 | 6308.5 | 6161.2 | 5967.8 | 5764.3 | 5659.9 | 5706.0 | 5713.1 | 6136.6 | 6186.8 | 4067.2 |
| 40° | 6790.3 | 6783.1 | 6658.3 | 6475.2 | 6218.5 | 6078.3 | 6055.8 | 6059.9 | 6473.2 | 6587.8 | 4239.1 |
| 42.5° | 7162.6 | 7136.0 | 7113.5 | 7049.1 | 6777.0 | 6546.8 | 6454.8 | 6455.8 | 6838.4 | 7002.0 | 4412.0 |
| 45° | 7327.3 | 7322.2 | 7388.7 | 7554.4 | 7359.0 | 7088.0 | 6957.0 | 6975.4 | 7256.8 | 7427.6 | 4578.7 |
| 47.5° | 7256.8 | 7260.8 | 7438.8 | 7873.6 | 7989.2 | 7781.5 | 7549.3 | 7538.1 | 7661.8 | 7753.9 | 4726.0 |
| 50° | 6626.6 | 6693.1 | 7174.9 | 7903.3 | 8402.5 | 8505.8 | 8243.9 | 8202.0 | 8016.8 | 8013.7 | 4816.0 |
| 52.5° | 6151.0 | 6147.9 | 6443.5 | 7601.5 | 8548.7 | 9159.4 | 8924.2 | 8830.0 | 8310.4 | 8160.0 | 4823.2 |
| 55° | 5508.5 | 5504.5 | 5724.4 | 6718.7 | 8258.2 | 9615.7 | 9565.5 | 9447.9 | 8579.4 | 8208.1 | 4774.1 |
| 57.5° | 4171.6 | 4249.3 | 4468.2 | 5378.6 | 7337.6 | 9543.0 | 10178.3 | 10080.1 | 8842.3 | 8186.6 | 4764.9 |
| 60° | 2269.9 | 2260.7 | 2577.8 | 3505.6 | 5618.0 | 8718.5 | 10445.3 | 10440.2 | 9121.6 | 8178.4 | 4821.1 |
| 62.5° | 1046.5 | 1036.2 | 1099.7 | 1561.0 | 3221.2 | 6984.7 | 9929.7 | 10003.4 | 9380.4 | 8103.8 | 4816.0 |
| 65° | 782.6 | 756.0 | 670.0 | 726.3 | 1232.6 | 4169.5 | 8434.2 | 8630.6 | 8981.4 | 7796.9 | 4593.0 |
| 67.5° | 697.6 | 672.1 | 571.8 | 536.0 | 618.9 | 1471.0 | 6118.2 | 6299.3 | 7510.4 | 7222.0 | 4231.9 |
| 70° | 639.3 | 616.8 | 516.6 | 460.3 | 464.4 | 651.6 | 3202.8 | 3558.8 | 5504.5 | 6027.2 | 3606.9 |
| 72.5° | 583.1 | 563.6 | 472.6 | 405.1 | 390.8 | 430.7 | 1091.5 | 1316.5 | 3423.8 | 4392.5 | 2689.3 |
| 75° | 523.7 | 505.3 | 425.5 | 363.1 | 335.5 | 319.2 | 519.7 | 559.5 | 1810.6 | 2425.4 | 1443.4 |
| 77.5° | 455.2 | 445.0 | 379.5 | 320.2 | 296.7 | 241.4 | 345.8 | 363.1 | 775.4 | 952.4 | 687.4 |
| 80° | 395.9 | 387.7 | 338.6 | 290.5 | 266.0 | 186.2 | 238.3 | 250.6 | 382.6 | 475.7 | 384.6 |
| 82.5° | 257.8 | 278.2 | 280.3 | 249.6 | 234.3 | 149.3 | 157.5 | 166.7 | 253.7 | 280.3 | 167.8 |
| 85° | 106.4 | 128.9 | 193.3 | 171.9 | 162.6 | 126.8 | 104.3 | 106.4 | 155.5 | 163.7 | 60.4 |
| 87.5° | 48.1 | 53.2 | 95.1 | 96.2 | 83.9 | 48.1 | 52.2 | 57.3 | 79.8 | 78.8 | 26.6 |
| 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° | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 | 3130.2 |
| 2.5° | 3127.1 | 3080.1 | 2996.2 | 2888.8 | 2812.1 | 2755.8 | 2694.4 | 2649.4 | 2599.3 | 2555.3 | 2562.5 |
| 5° | 3120.0 | 3028.9 | 2840.7 | 2641.2 | 2446.9 | 2287.3 | 2154.3 | 2056.1 | 1954.8 | 1914.9 | 1909.8 |
| 7.5° | 3126.1 | 2971.6 | 2662.7 | 2336.4 | 2040.8 | 1837.2 | 1682.7 | 1589.7 | 1531.3 | 1497.6 | 1499.6 |
| 10° | 3124.1 | 2917.4 | 2470.4 | 2020.3 | 1697.1 | 1510.9 | 1416.8 | 1386.1 | 1381.0 | 1385.1 | 1391.2 |
| 12.5° | 3127.1 | 2843.8 | 2254.6 | 1735.9 | 1450.5 | 1355.4 | 1359.5 | 1387.1 | 1404.5 | 1415.8 | 1422.9 |
| 15° | 3140.4 | 2783.4 | 2033.6 | 1511.9 | 1321.6 | 1324.7 | 1368.7 | 1411.7 | 1437.2 | 1449.5 | 1455.6 |
| 17.5° | 3159.9 | 2707.7 | 1837.2 | 1342.1 | 1267.4 | 1314.5 | 1371.8 | 1417.8 | 1437.2 | 1444.4 | 1449.5 |
| 20° | 3161.9 | 2620.8 | 1638.8 | 1225.5 | 1231.6 | 1293.0 | 1343.1 | 1379.9 | 1404.5 | 1412.7 | 1416.8 |
| 22.5° | 3152.7 | 2503.1 | 1435.2 | 1140.6 | 1190.7 | 1252.1 | 1295.0 | 1337.0 | 1304.3 | 1277.7 | 1270.5 |
| 25° | 3113.8 | 2354.8 | 1261.3 | 1071.0 | 1139.6 | 1196.8 | 1245.9 | 1199.9 | 1184.6 | 1164.1 | 1166.2 |
| 27.5° | 3030.0 | 2169.7 | 1097.6 | 1005.6 | 1079.2 | 1161.0 | 1125.2 | 1119.1 | 1099.7 | 1079.2 | 1079.2 |
| 30° | 2919.5 | 1974.3 | 960.5 | 937.0 | 1006.6 | 1047.5 | 1055.7 | 1046.5 | 1035.2 | 1008.6 | 1010.7 |
| 32.5° | 2820.3 | 1767.6 | 863.4 | 879.7 | 960.5 | 960.5 | 996.3 | 996.3 | 955.4 | 880.8 | 880.8 |
| 35° | 2722.1 | 1573.3 | 791.8 | 831.7 | 884.8 | 902.2 | 951.3 | 886.9 | 828.6 | 794.8 | 792.8 |
| 37.5° | 2645.3 | 1407.6 | 744.7 | 790.7 | 811.2 | 855.2 | 856.2 | 809.1 | 789.7 | 759.0 | 756.0 |
| 40° | 2600.3 | 1268.4 | 716.1 | 770.3 | 772.3 | 813.2 | 745.7 | 759.0 | 754.9 | 731.4 | 728.3 |
| 42.5° | 2575.8 | 1161.0 | 694.6 | 752.9 | 742.7 | 702.8 | 690.5 | 713.0 | 720.2 | 707.9 | 702.8 |
| 45° | 2556.3 | 1077.2 | 677.2 | 692.5 | 719.1 | 646.5 | 641.4 | 658.8 | 674.1 | 673.1 | 669.0 |
| 47.5° | 2546.1 | 1018.9 | 661.8 | 654.7 | 659.8 | 612.7 | 602.5 | 610.7 | 630.1 | 642.4 | 641.4 |
| 50° | 2506.2 | 973.8 | 639.3 | 615.8 | 583.1 | 583.1 | 578.0 | 578.0 | 601.5 | 626.0 | 628.1 |
| 52.5° | 2435.6 | 920.6 | 606.6 | 579.0 | 541.1 | 557.5 | 559.5 | 555.5 | 580.0 | 606.6 | 608.7 |
| 55° | 2357.9 | 880.8 | 562.6 | 545.2 | 506.4 | 534.0 | 543.2 | 539.1 | 555.5 | 573.9 | 572.8 |
| 57.5° | 2358.9 | 879.7 | 524.8 | 511.5 | 473.6 | 504.3 | 526.8 | 527.8 | 526.8 | 540.1 | 540.1 |
| 60° | 2418.2 | 900.2 | 495.1 | 466.5 | 435.8 | 472.6 | 509.4 | 509.4 | 502.3 | 521.7 | 523.7 |
| 62.5° | 2435.6 | 898.1 | 476.7 | 423.5 | 402.0 | 444.0 | 483.9 | 490.0 | 484.9 | 512.5 | 515.6 |
| 65° | 2282.2 | 850.1 | 458.3 | 384.6 | 371.3 | 412.2 | 452.1 | 469.5 | 464.4 | 500.2 | 504.3 |
| 67.5° | 2069.4 | 787.7 | 429.6 | 349.8 | 339.6 | 381.6 | 419.4 | 437.8 | 436.8 | 483.9 | 485.9 |
| 70° | 1784.0 | 710.9 | 393.8 | 314.0 | 308.9 | 345.8 | 379.5 | 398.9 | 408.2 | 462.4 | 461.3 |
| 72.5° | 1382.0 | 609.7 | 339.6 | 276.2 | 275.2 | 308.9 | 338.6 | 360.1 | 377.5 | 429.6 | 429.6 |
| 75° | 891.0 | 479.8 | 277.2 | 239.4 | 235.3 | 267.0 | 297.7 | 322.2 | 375.4 | 458.3 | 457.3 |
| 77.5° | 544.2 | 366.2 | 223.0 | 199.5 | 198.5 | 227.1 | 257.8 | 299.7 | 410.2 | 408.2 | 396.9 |
| 80° | 326.3 | 262.9 | 178.0 | 159.6 | 159.6 | 186.2 | 219.9 | 321.2 | 340.6 | 388.7 | 367.2 |
| 82.5° | 169.8 | 161.6 | 133.0 | 117.6 | 122.8 | 146.3 | 200.5 | 256.8 | 278.2 | 236.3 | 216.9 |
| 85° | 69.6 | 85.9 | 81.8 | 74.7 | 77.7 | 101.3 | 193.3 | 205.6 | 164.7 | 172.9 | 173.9 |
| 87.5° | 23.5 | 37.8 | 37.8 | 29.7 | 32.7 | 71.6 | 114.6 | 68.5 | 82.9 | 49.1 | 36.8 |
| 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)