

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: P672318

Luminaire Tested: **CCP-SA-2D-835-U-T3R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672318
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-835-U-T3R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T3R distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9340.4 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

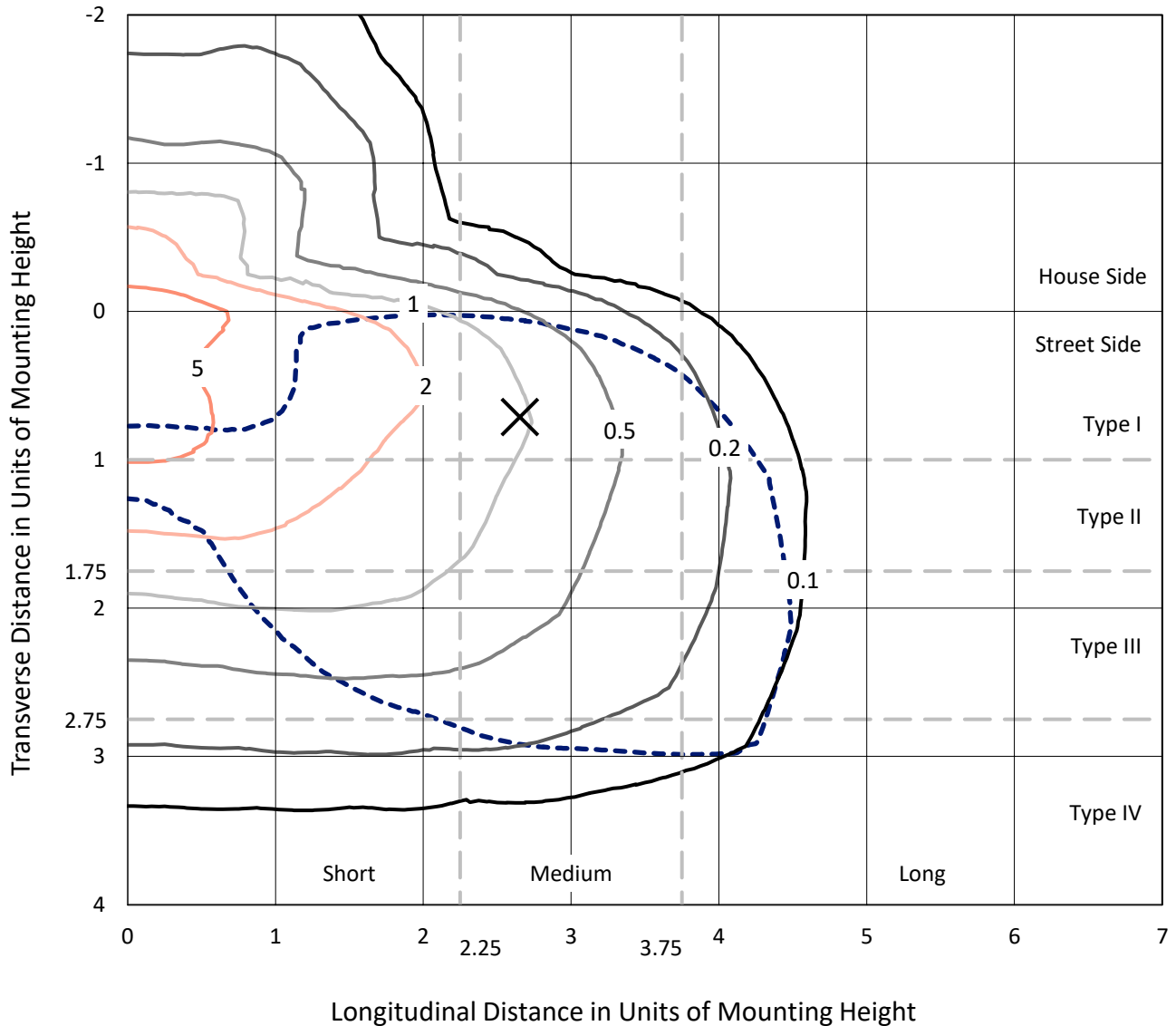
Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

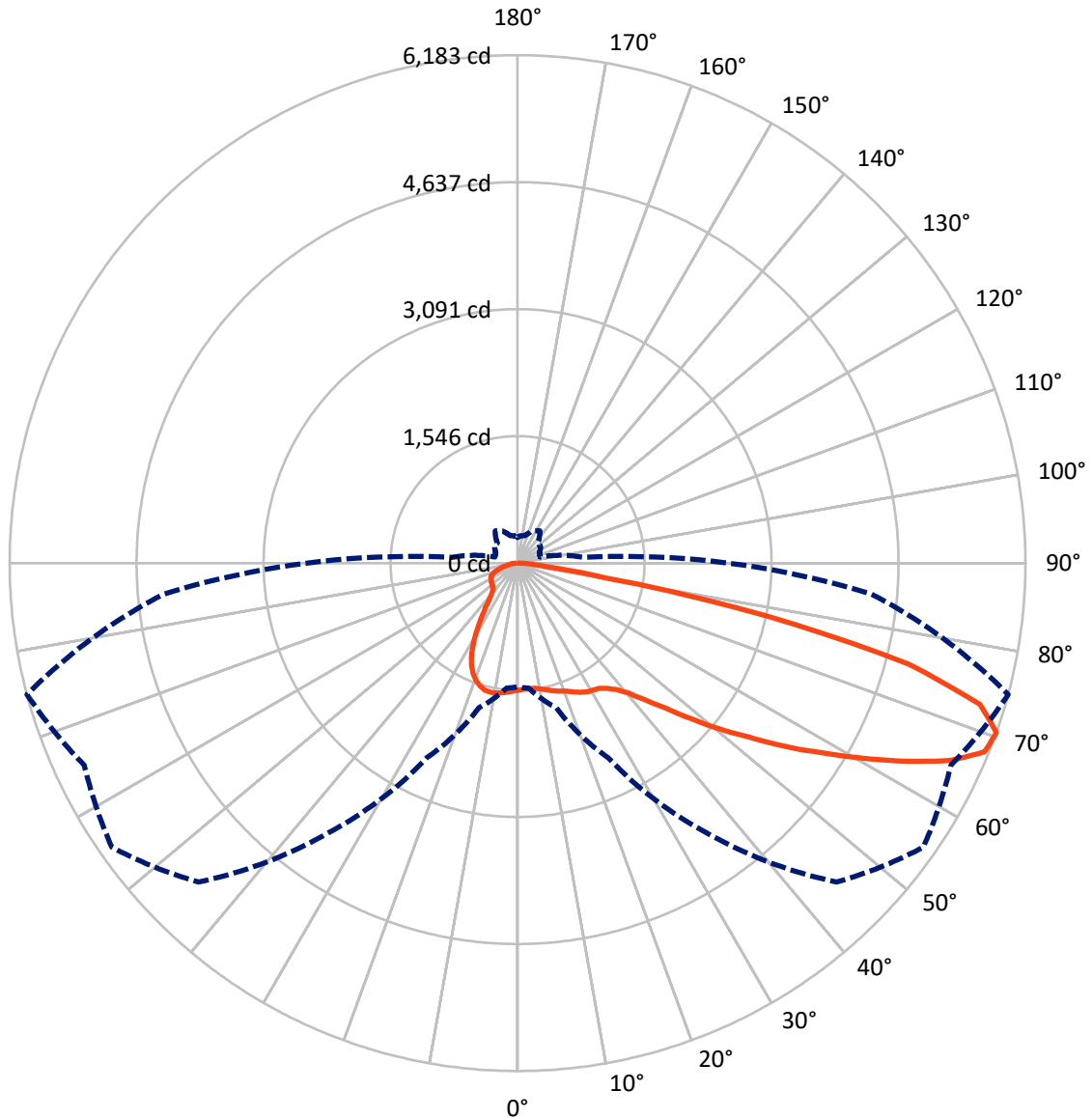
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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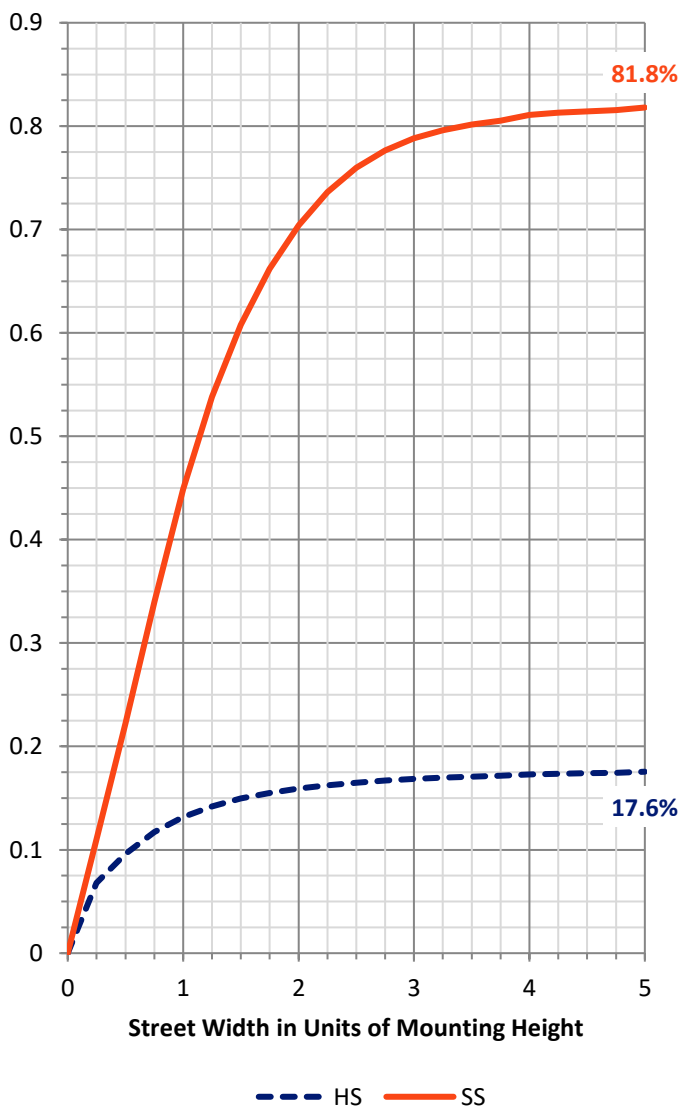
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1661.8 | 0.0 | 1661.8 |
| | % Fixture | 17.8 | 0.0 | 17.8 |
| Street Side | Lumens | 7678.6 | 0.0 | 7678.6 |
| | % Fixture | 82.2 | 0.0 | 82.2 |
| Total | Lumens | 9340.4 | 0.0 | 9340.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 139.0 | 1.5 |
| 10°-20° | 370.9 | 4.0 |
| 20°-30° | 624.9 | 6.7 |
| 30°-40° | 949.2 | 10.2 |
| 40°-50° | 1359.8 | 14.6 |
| 50°-60° | 1802.9 | 19.3 |
| 60°-70° | 2256.2 | 24.2 |
| 70°-80° | 1647.6 | 17.6 |
| 80°-90° | 190.0 | 2.0 |
| 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° | 9340.4 | 100.0 |
| 0°-180° | 9340.4 | 100.0 |



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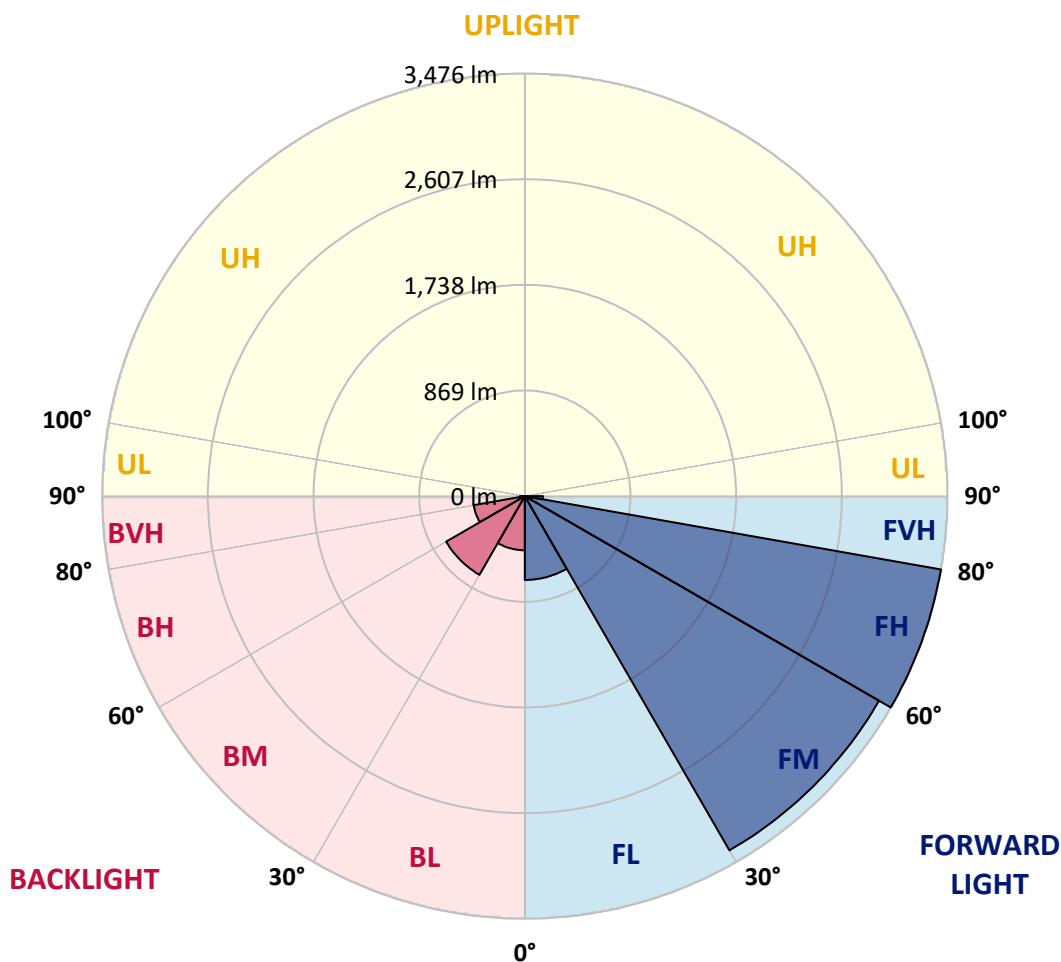
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 689.4 | 7.4 | | | |
| FM (30°-60°) | 3364.7 | 36.0 | | | |
| FH (60°-80°) | 3476.3 | 37.2 | | | G2/5000 |
| FVH (80°-90°) | 148.3 | 1.6 | | | G2/225 |
| BL (0°-30°) | 445.4 | 4.8 | B1/500 | | |
| BM (30°-60°) | 747.1 | 8.0 | B1/1000 | | |
| BH (60°-80°) | 427.5 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 41.7 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 |
| 2.5° | 1462.5 | 1470.6 | 1478.0 | 1485.4 | 1491.4 | 1507.5 | 1510.9 | 1528.4 | 1533.1 | 1537.1 | 1542.5 |
| 5° | 1380.5 | 1386.6 | 1393.9 | 1406.0 | 1418.8 | 1447.7 | 1467.9 | 1506.2 | 1527.7 | 1534.4 | 1553.2 |
| 7.5° | 1336.1 | 1338.2 | 1348.2 | 1358.3 | 1373.1 | 1401.3 | 1428.9 | 1488.7 | 1531.7 | 1539.1 | 1579.4 |
| 10° | 1303.9 | 1306.6 | 1316.0 | 1330.1 | 1344.9 | 1371.1 | 1405.4 | 1476.6 | 1546.5 | 1557.9 | 1615.1 |
| 12.5° | 1292.5 | 1291.1 | 1301.9 | 1311.3 | 1332.1 | 1365.0 | 1400.7 | 1477.3 | 1566.7 | 1582.8 | 1666.8 |
| 15° | 1338.2 | 1329.4 | 1336.1 | 1332.8 | 1339.5 | 1371.8 | 1414.1 | 1492.1 | 1591.5 | 1611.7 | 1720.6 |
| 17.5° | 1439.0 | 1431.6 | 1426.9 | 1398.0 | 1379.2 | 1397.3 | 1437.6 | 1512.9 | 1617.8 | 1639.3 | 1769.0 |
| 20° | 1589.5 | 1568.7 | 1551.2 | 1502.8 | 1450.4 | 1444.4 | 1472.6 | 1533.7 | 1642.6 | 1663.5 | 1820.1 |
| 22.5° | 1760.9 | 1744.1 | 1715.9 | 1631.2 | 1549.9 | 1509.5 | 1516.9 | 1572.1 | 1678.9 | 1701.8 | 1878.5 |
| 25° | 1977.3 | 1976.7 | 1918.9 | 1804.6 | 1681.6 | 1600.3 | 1584.8 | 1633.2 | 1719.9 | 1742.1 | 1926.9 |
| 27.5° | 2224.0 | 2207.2 | 2138.6 | 1991.4 | 1836.9 | 1712.5 | 1676.2 | 1695.7 | 1752.9 | 1775.7 | 1965.9 |
| 30° | 2435.0 | 2437.1 | 2367.2 | 2206.5 | 2002.2 | 1822.1 | 1753.5 | 1740.8 | 1774.4 | 1797.2 | 2002.2 |
| 32.5° | 2660.9 | 2649.4 | 2585.6 | 2420.3 | 2181.0 | 1939.7 | 1803.3 | 1773.0 | 1796.5 | 1818.0 | 2052.6 |
| 35° | 2873.3 | 2860.5 | 2805.4 | 2627.3 | 2377.9 | 2069.4 | 1870.5 | 1823.4 | 1849.0 | 1872.5 | 2114.4 |
| 37.5° | 3075.6 | 3077.6 | 3015.1 | 2845.0 | 2568.8 | 2222.7 | 1969.9 | 1899.4 | 1926.9 | 1953.1 | 2208.5 |
| 40° | 3252.3 | 3242.2 | 3193.8 | 3040.6 | 2767.1 | 2378.6 | 2082.2 | 2002.9 | 2056.6 | 2080.8 | 2327.5 |
| 42.5° | 3308.8 | 3308.1 | 3326.9 | 3232.8 | 2975.4 | 2564.1 | 2222.0 | 2164.2 | 2240.1 | 2276.4 | 2473.3 |
| 45° | 3259.7 | 3274.5 | 3383.4 | 3380.7 | 3183.8 | 2777.1 | 2412.9 | 2360.4 | 2470.0 | 2511.0 | 2651.5 |
| 47.5° | 3211.3 | 3233.5 | 3381.4 | 3465.4 | 3370.6 | 3011.7 | 2647.4 | 2608.4 | 2765.7 | 2824.9 | 2836.3 |
| 50° | 3140.8 | 3161.6 | 3337.7 | 3477.5 | 3484.9 | 3249.0 | 2951.2 | 2902.2 | 3104.5 | 3164.9 | 3037.2 |
| 52.5° | 3062.1 | 3078.2 | 3260.4 | 3468.7 | 3539.3 | 3434.5 | 3249.0 | 3234.8 | 3467.4 | 3516.5 | 3241.6 |
| 55° | 2627.9 | 2696.5 | 3146.8 | 3449.9 | 3576.9 | 3576.3 | 3538.6 | 3585.0 | 3863.3 | 3936.5 | 3469.4 |
| 57.5° | 2378.6 | 2414.9 | 2826.9 | 3439.2 | 3647.5 | 3707.3 | 3837.7 | 3937.2 | 4286.0 | 4351.9 | 3720.8 |
| 60° | 2297.3 | 2329.5 | 2666.2 | 3426.4 | 3788.0 | 3912.3 | 4130.1 | 4291.4 | 4740.4 | 4821.0 | 4001.7 |
| 62.5° | 2223.3 | 2262.3 | 2601.1 | 3324.9 | 3958.0 | 4237.0 | 4478.9 | 4674.5 | 5219.6 | 5315.0 | 4281.3 |
| 65° | 2072.8 | 2100.3 | 2481.4 | 3239.6 | 4119.3 | 4700.0 | 4982.3 | 5096.6 | 5684.0 | 5791.5 | 4466.8 |
| 67.5° | 1812.7 | 1838.9 | 2211.9 | 3043.3 | 4224.2 | 5181.9 | 5532.8 | 5533.4 | 6042.9 | 6131.0 | 4505.8 |
| 70° | 1506.9 | 1527.0 | 1823.4 | 2615.8 | 4005.8 | 5491.1 | 6029.5 | 5819.1 | 6144.4 | 6182.7 | 4320.3 |
| 72.5° | 1077.4 | 1094.9 | 1335.5 | 1933.6 | 3284.6 | 5240.4 | 6142.4 | 5807.0 | 5898.4 | 5886.3 | 3792.7 |
| 75° | 664.0 | 697.6 | 818.0 | 1180.2 | 2041.2 | 4123.4 | 5528.1 | 5261.9 | 4952.7 | 4919.1 | 2855.8 |
| 77.5° | 432.8 | 450.3 | 553.1 | 696.3 | 900.6 | 2367.2 | 4198.6 | 3945.3 | 3127.3 | 3088.3 | 1535.1 |
| 80° | 260.1 | 289.0 | 362.3 | 437.5 | 408.0 | 905.3 | 2397.4 | 1959.9 | 1104.9 | 1092.8 | 471.8 |
| 82.5° | 139.8 | 166.0 | 255.4 | 270.9 | 229.2 | 319.9 | 868.4 | 637.2 | 353.5 | 349.5 | 176.8 |
| 85° | 110.9 | 123.7 | 183.5 | 171.4 | 129.7 | 162.0 | 338.7 | 265.5 | 181.5 | 177.4 | 66.5 |
| 87.5° | 67.2 | 84.7 | 139.1 | 115.6 | 64.5 | 58.5 | 155.3 | 125.7 | 85.4 | 79.3 | 26.2 |
| 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° | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 | 1547.2 |
| 2.5° | 1552.6 | 1555.9 | 1559.3 | 1552.6 | 1555.3 | 1551.9 | 1551.9 | 1551.9 | 1543.2 | 1540.5 | 1548.5 |
| 5° | 1567.4 | 1572.1 | 1574.7 | 1553.9 | 1541.1 | 1522.3 | 1506.9 | 1483.3 | 1469.9 | 1461.2 | 1461.2 |
| 7.5° | 1597.6 | 1603.0 | 1590.9 | 1544.5 | 1499.5 | 1449.1 | 1397.3 | 1354.3 | 1323.4 | 1309.9 | 1314.0 |
| 10° | 1642.0 | 1644.0 | 1603.6 | 1518.3 | 1422.2 | 1328.8 | 1255.5 | 1198.4 | 1160.1 | 1140.6 | 1137.9 |
| 12.5° | 1693.7 | 1685.0 | 1606.3 | 1460.5 | 1318.0 | 1192.3 | 1102.9 | 1029.0 | 979.9 | 961.1 | 951.7 |
| 15° | 1744.8 | 1724.0 | 1596.3 | 1391.3 | 1199.7 | 1048.5 | 934.2 | 864.3 | 834.1 | 825.3 | 822.0 |
| 17.5° | 1790.5 | 1751.5 | 1562.6 | 1291.8 | 1062.6 | 880.5 | 796.4 | 771.6 | 774.9 | 783.0 | 786.4 |
| 20° | 1832.2 | 1772.3 | 1514.3 | 1173.5 | 891.2 | 749.4 | 728.6 | 751.4 | 770.2 | 782.3 | 784.3 |
| 22.5° | 1877.9 | 1792.5 | 1447.0 | 1029.7 | 750.7 | 688.9 | 713.8 | 740.0 | 758.8 | 770.9 | 772.9 |
| 25° | 1912.8 | 1791.8 | 1352.3 | 859.0 | 662.0 | 672.8 | 702.4 | 725.9 | 740.0 | 748.7 | 748.1 |
| 27.5° | 1935.0 | 1775.7 | 1227.9 | 718.5 | 627.1 | 661.4 | 689.6 | 705.0 | 713.1 | 719.8 | 719.2 |
| 30° | 1941.7 | 1744.8 | 1071.3 | 615.0 | 610.9 | 650.6 | 672.1 | 681.5 | 687.6 | 694.3 | 694.3 |
| 32.5° | 1955.2 | 1697.1 | 898.6 | 557.2 | 598.8 | 639.8 | 652.6 | 660.0 | 655.3 | 638.5 | 635.1 |
| 35° | 1969.9 | 1644.0 | 735.3 | 530.3 | 587.4 | 632.5 | 644.5 | 625.1 | 574.0 | 567.3 | 564.6 |
| 37.5° | 1998.8 | 1594.9 | 596.8 | 511.5 | 584.7 | 636.5 | 646.6 | 568.6 | 525.6 | 504.8 | 501.4 |
| 40° | 2047.9 | 1545.8 | 504.1 | 498.0 | 588.1 | 654.0 | 619.7 | 541.7 | 470.5 | 430.8 | 424.1 |
| 42.5° | 2112.4 | 1486.0 | 451.7 | 491.3 | 597.5 | 682.2 | 610.3 | 503.4 | 425.4 | 398.6 | 394.5 |
| 45° | 2187.0 | 1406.7 | 426.8 | 490.0 | 608.9 | 696.3 | 613.0 | 472.5 | 405.3 | 384.4 | 383.1 |
| 47.5° | 2264.3 | 1328.8 | 416.0 | 488.6 | 623.0 | 690.3 | 576.0 | 463.1 | 397.2 | 391.2 | 395.2 |
| 50° | 2347.7 | 1240.0 | 407.3 | 485.3 | 634.5 | 690.3 | 555.8 | 461.1 | 399.9 | 413.3 | 426.8 |
| 52.5° | 2425.6 | 1165.4 | 397.2 | 475.2 | 639.2 | 678.2 | 549.8 | 468.5 | 403.9 | 400.6 | 404.6 |
| 55° | 2520.4 | 1127.1 | 391.8 | 461.1 | 630.4 | 641.2 | 542.4 | 488.6 | 407.3 | 379.7 | 379.7 |
| 57.5° | 2628.6 | 1119.1 | 383.8 | 442.2 | 602.2 | 590.1 | 541.7 | 500.7 | 398.6 | 373.0 | 368.3 |
| 60° | 2759.0 | 1136.5 | 373.7 | 418.7 | 567.9 | 550.5 | 537.0 | 500.7 | 384.4 | 361.6 | 363.6 |
| 62.5° | 2864.5 | 1134.5 | 367.6 | 397.9 | 522.2 | 509.5 | 528.3 | 494.0 | 379.1 | 360.2 | 359.6 |
| 65° | 2889.4 | 1091.5 | 350.2 | 371.0 | 465.8 | 459.7 | 518.9 | 477.2 | 371.7 | 352.9 | 347.5 |
| 67.5° | 2805.4 | 994.0 | 324.0 | 335.4 | 406.0 | 406.6 | 502.1 | 455.0 | 361.6 | 348.8 | 340.1 |
| 70° | 2566.8 | 803.8 | 285.0 | 292.4 | 341.4 | 350.2 | 477.2 | 428.8 | 344.8 | 331.3 | 310.5 |
| 72.5° | 2148.1 | 578.0 | 239.9 | 242.0 | 271.5 | 294.4 | 434.2 | 393.2 | 319.9 | 288.3 | 266.2 |
| 75° | 1590.2 | 383.8 | 195.6 | 192.9 | 203.6 | 239.3 | 371.0 | 353.5 | 287.7 | 239.3 | 227.8 |
| 77.5° | 840.8 | 227.2 | 150.6 | 151.2 | 144.5 | 183.5 | 294.4 | 307.2 | 255.4 | 201.6 | 190.2 |
| 80° | 287.7 | 136.4 | 108.2 | 112.9 | 102.2 | 131.1 | 218.4 | 255.4 | 218.4 | 168.0 | 148.5 |
| 82.5° | 131.7 | 83.3 | 77.3 | 80.7 | 73.3 | 88.7 | 149.9 | 193.6 | 174.1 | 122.3 | 98.8 |
| 85° | 66.5 | 49.7 | 49.7 | 54.4 | 48.4 | 45.7 | 82.7 | 128.4 | 127.7 | 84.0 | 72.6 |
| 87.5° | 27.6 | 24.2 | 22.9 | 26.2 | 22.9 | 17.5 | 23.5 | 46.4 | 67.2 | 50.4 | 32.3 |
| 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)