

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: P670812

Luminaire Tested: **CCP-SA-2D-735-U-T3**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P670812
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-735-U-T3
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T3 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11114.2 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

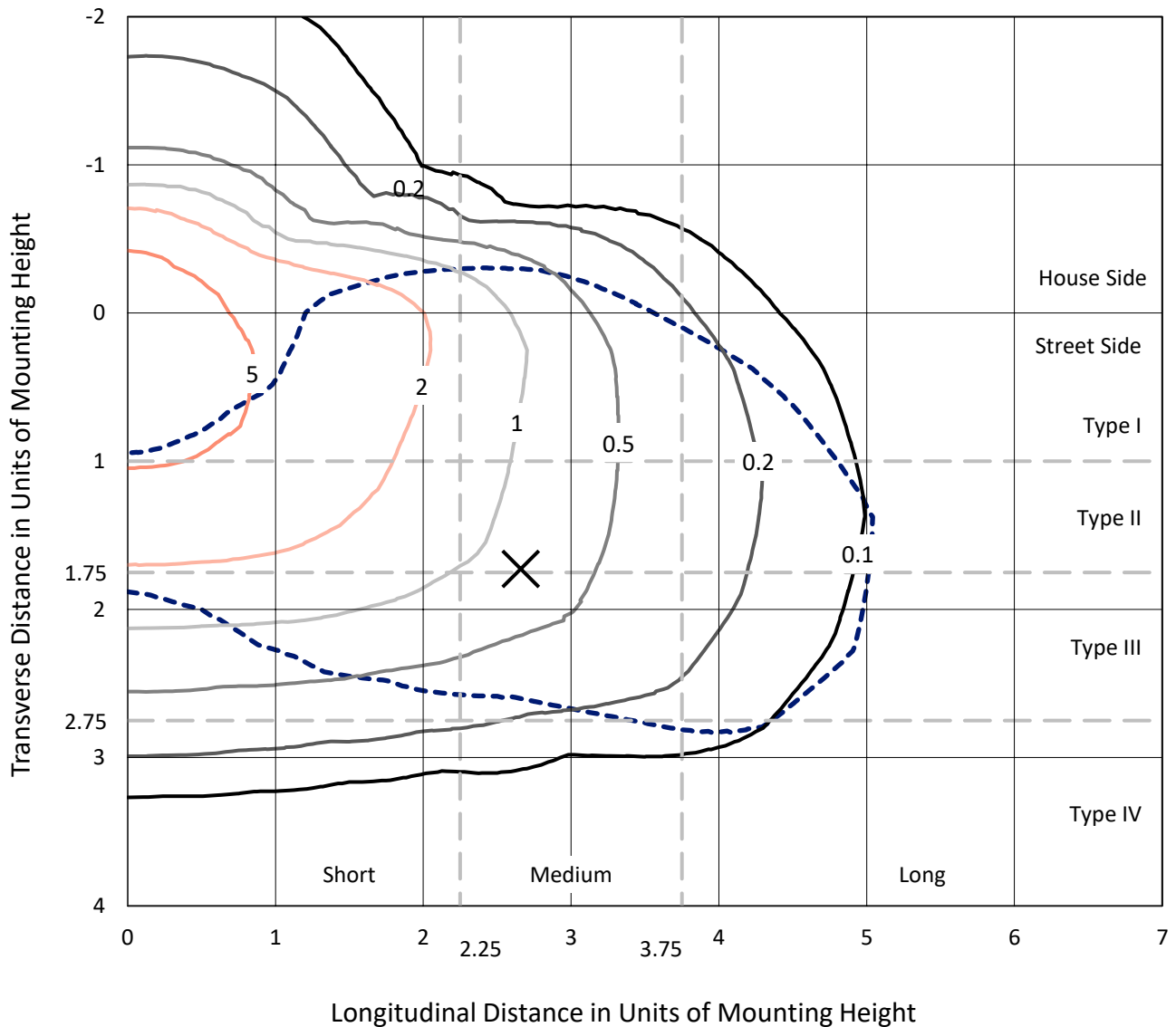
Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

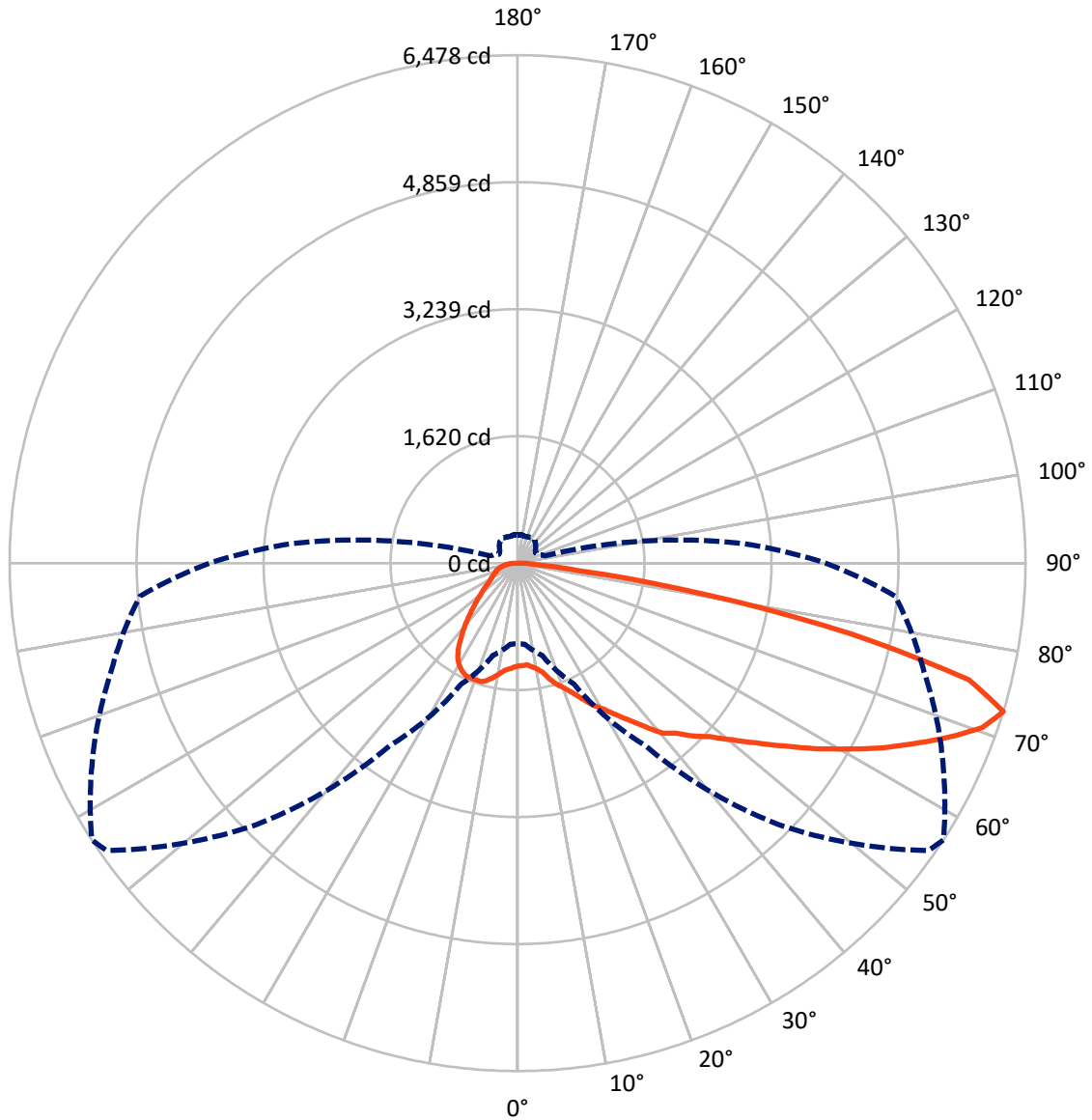
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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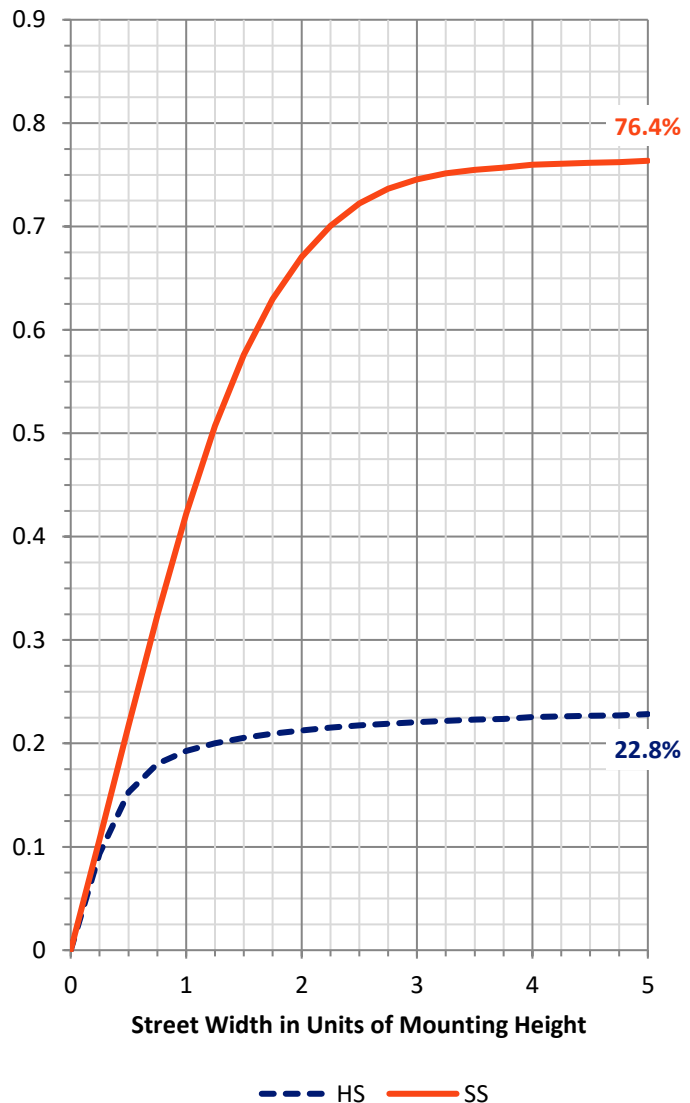
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2595.5 | 0.0 | 2595.5 |
| | % Fixture | 23.4 | 0.0 | 23.4 |
| Street Side | Lumens | 8518.7 | 0.0 | 8518.7 |
| | % Fixture | 76.6 | 0.0 | 76.6 |
| Total | Lumens | 11114.2 | 0.0 | 11114.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 130.2 | 1.2 |
| 10°-20° | 438.8 | 3.9 |
| 20°-30° | 802.2 | 7.2 |
| 30°-40° | 1177.0 | 10.6 |
| 40°-50° | 1620.5 | 14.6 |
| 50°-60° | 2222.2 | 20.0 |
| 60°-70° | 2678.8 | 24.1 |
| 70°-80° | 1784.4 | 16.1 |
| 80°-90° | 259.9 | 2.3 |
| 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° | 11114.2 | 100.0 |
| 0°-180° | 11114.2 | 100.0 |

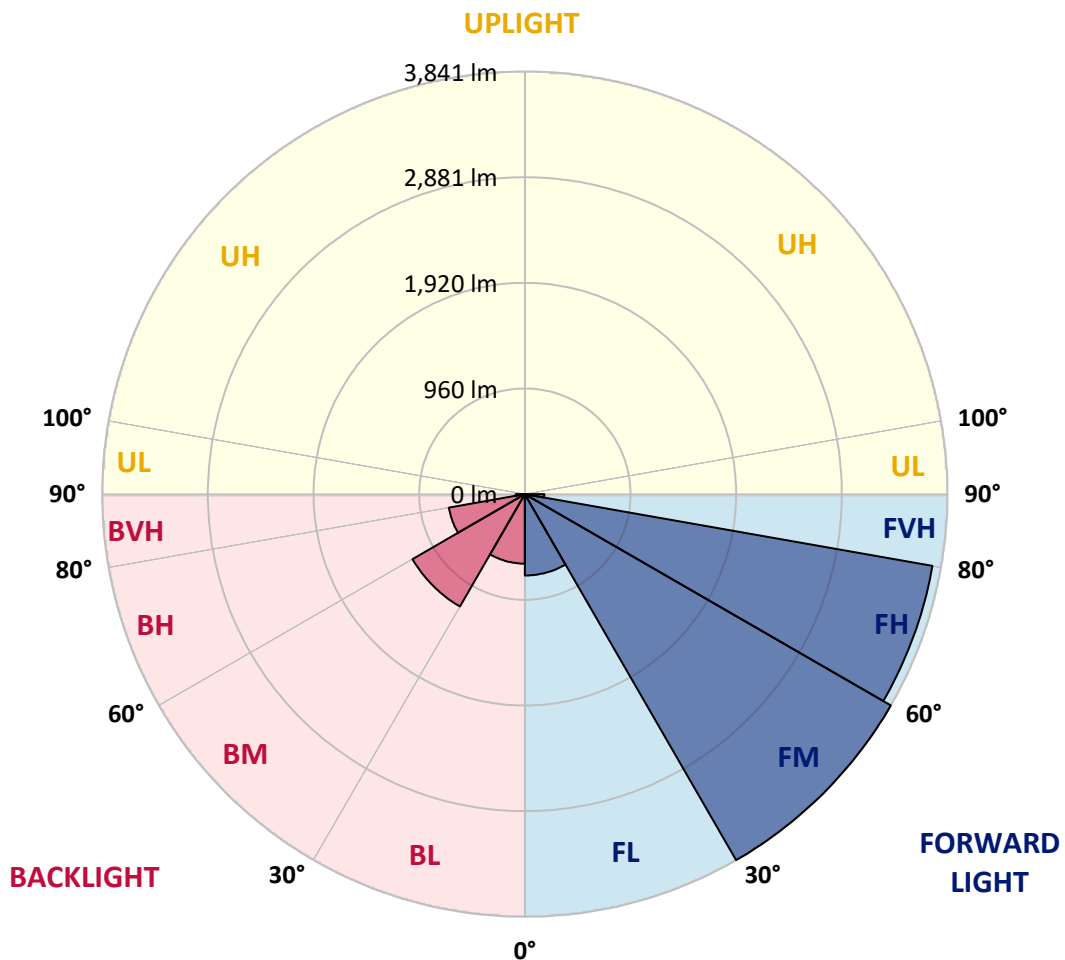


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 739.4 | 6.7 | | | |
| FM (30°-60°) | 3840.8 | 34.6 | | | |
| FH (60°-80°) | 3761.5 | 33.8 | | | G2/5000 |
| FVH (80°-90°) | 177.0 | 1.6 | | | G2/225 |
| BL (0°-30°) | 631.9 | 5.7 | B2/1000 | | |
| BM (30°-60°) | 1178.9 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 701.8 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 82.9 | 0.7 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 |
| 2.5° | 1287.5 | 1291.6 | 1299.7 | 1295.6 | 1295.6 | 1283.5 | 1303.7 | 1307.8 | 1299.7 | 1303.7 | 1311.8 |
| 5° | 1287.5 | 1295.6 | 1307.8 | 1299.7 | 1303.7 | 1299.7 | 1291.6 | 1303.7 | 1303.7 | 1307.8 | 1319.9 |
| 7.5° | 1356.4 | 1352.3 | 1352.3 | 1340.2 | 1336.1 | 1332.1 | 1336.1 | 1336.1 | 1328.0 | 1332.1 | 1332.1 |
| 10° | 1433.3 | 1433.3 | 1425.2 | 1425.2 | 1417.1 | 1396.9 | 1376.6 | 1372.6 | 1360.4 | 1364.5 | 1364.5 |
| 12.5° | 1514.3 | 1522.4 | 1530.5 | 1506.2 | 1498.1 | 1465.7 | 1453.5 | 1429.2 | 1429.2 | 1421.2 | 1417.1 |
| 15° | 1615.5 | 1603.4 | 1611.4 | 1603.4 | 1583.1 | 1550.7 | 1530.5 | 1534.5 | 1506.2 | 1498.1 | 1485.9 |
| 17.5° | 1704.6 | 1708.6 | 1696.5 | 1688.4 | 1651.9 | 1627.6 | 1631.7 | 1627.6 | 1591.2 | 1579.1 | 1558.8 |
| 20° | 1809.8 | 1805.8 | 1805.8 | 1781.5 | 1749.1 | 1716.7 | 1704.6 | 1700.5 | 1708.6 | 1684.3 | 1635.7 |
| 22.5° | 1919.2 | 1903.0 | 1903.0 | 1882.7 | 1838.2 | 1817.9 | 1809.8 | 1793.6 | 1801.7 | 1781.5 | 1708.6 |
| 25° | 2008.2 | 2008.2 | 2036.6 | 1996.1 | 1971.8 | 1931.3 | 1915.1 | 1919.2 | 1923.2 | 1882.7 | 1797.7 |
| 27.5° | 2125.7 | 2105.4 | 2133.8 | 2113.5 | 2101.4 | 2056.8 | 2036.6 | 2048.7 | 2040.6 | 1996.1 | 1878.7 |
| 30° | 2275.5 | 2279.5 | 2263.3 | 2235.0 | 2218.8 | 2186.4 | 2174.2 | 2162.1 | 2174.2 | 2117.6 | 1967.7 |
| 32.5° | 2461.7 | 2473.9 | 2433.4 | 2401.0 | 2372.6 | 2340.2 | 2316.0 | 2303.8 | 2316.0 | 2230.9 | 2036.6 |
| 35° | 2676.3 | 2688.4 | 2656.1 | 2619.6 | 2587.2 | 2506.2 | 2486.0 | 2465.8 | 2421.2 | 2283.6 | 2101.4 |
| 37.5° | 2874.7 | 2858.5 | 2850.4 | 2850.4 | 2789.7 | 2672.3 | 2660.1 | 2648.0 | 2562.9 | 2388.8 | 2190.4 |
| 40° | 3008.3 | 3028.6 | 3020.5 | 3012.4 | 3004.3 | 2894.9 | 2870.6 | 2850.4 | 2708.7 | 2546.7 | 2316.0 |
| 42.5° | 3158.1 | 3146.0 | 3178.4 | 3190.5 | 3162.2 | 3129.8 | 3032.6 | 2963.8 | 2838.3 | 2708.7 | 2502.2 |
| 45° | 3336.3 | 3328.2 | 3340.3 | 3384.9 | 3344.4 | 3356.5 | 3194.6 | 3146.0 | 2988.1 | 2911.1 | 2737.0 |
| 47.5° | 3494.2 | 3514.4 | 3575.1 | 3587.3 | 3554.9 | 3611.6 | 3384.9 | 3307.9 | 3206.7 | 3146.0 | 2980.0 |
| 50° | 3563.0 | 3587.3 | 3725.0 | 3810.0 | 3814.0 | 3903.1 | 3575.1 | 3542.8 | 3405.1 | 3429.4 | 3283.6 |
| 52.5° | 3506.3 | 3583.2 | 3749.2 | 3971.9 | 4109.6 | 4198.7 | 3826.2 | 3810.0 | 3684.5 | 3761.4 | 3615.6 |
| 55° | 3559.0 | 3631.8 | 3741.2 | 4052.9 | 4401.1 | 4421.4 | 4174.4 | 4113.6 | 3988.1 | 4093.4 | 3959.8 |
| 57.5° | 3583.2 | 3542.8 | 3749.2 | 4142.0 | 4615.7 | 4668.3 | 4506.4 | 4461.8 | 4364.7 | 4465.9 | 4389.0 |
| 60° | 3392.9 | 3441.5 | 3635.9 | 4117.7 | 4627.9 | 4931.5 | 4878.9 | 4814.1 | 4725.0 | 4818.1 | 4773.6 |
| 62.5° | 3178.4 | 3210.7 | 3421.3 | 3971.9 | 4696.7 | 5121.8 | 5239.2 | 5190.6 | 5065.1 | 5146.1 | 5223.0 |
| 65° | 2907.1 | 2911.1 | 3146.0 | 3712.8 | 4563.1 | 5231.1 | 5555.0 | 5551.0 | 5461.9 | 5441.7 | 5563.1 |
| 67.5° | 2575.1 | 2607.5 | 2793.7 | 3437.5 | 4380.9 | 5352.6 | 5866.8 | 5927.5 | 5749.4 | 5591.5 | 5636.0 |
| 70° | 1975.8 | 2008.2 | 2186.4 | 2818.0 | 4008.4 | 5316.2 | 6251.4 | 6283.8 | 5935.6 | 5534.8 | 5421.4 |
| 72.5° | 1028.4 | 1036.5 | 1218.7 | 1700.5 | 2842.3 | 4721.0 | 6393.2 | 6478.2 | 5984.2 | 5368.8 | 4834.3 |
| 75° | 340.1 | 340.1 | 417.0 | 647.8 | 1340.2 | 3020.5 | 5789.9 | 5943.7 | 5745.3 | 4955.8 | 3955.7 |
| 77.5° | 202.4 | 206.5 | 247.0 | 323.9 | 534.5 | 1206.6 | 4081.3 | 4352.5 | 4700.7 | 4214.9 | 2890.9 |
| 80° | 145.8 | 149.8 | 186.2 | 222.7 | 319.9 | 388.7 | 2048.7 | 2425.3 | 2886.8 | 2712.7 | 1542.6 |
| 82.5° | 109.3 | 109.3 | 145.8 | 166.0 | 218.6 | 230.8 | 570.9 | 781.4 | 1247.1 | 971.7 | 425.1 |
| 85° | 113.4 | 113.4 | 113.4 | 117.4 | 149.8 | 133.6 | 238.9 | 255.1 | 364.4 | 319.9 | 117.4 |
| 87.5° | 40.5 | 44.5 | 113.4 | 76.9 | 76.9 | 56.7 | 93.1 | 101.2 | 129.6 | 133.6 | 44.5 |
| 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° | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 | 1311.8 |
| 2.5° | 1315.9 | 1315.9 | 1319.9 | 1319.9 | 1328.0 | 1336.1 | 1348.3 | 1340.2 | 1340.2 | 1344.2 | 1340.2 |
| 5° | 1311.8 | 1315.9 | 1328.0 | 1348.3 | 1356.4 | 1360.4 | 1384.7 | 1384.7 | 1384.7 | 1392.8 | 1392.8 |
| 7.5° | 1328.0 | 1336.1 | 1356.4 | 1376.6 | 1380.7 | 1392.8 | 1425.2 | 1433.3 | 1453.5 | 1461.6 | 1465.7 |
| 10° | 1368.5 | 1380.7 | 1396.9 | 1421.2 | 1437.3 | 1453.5 | 1477.8 | 1506.2 | 1502.1 | 1526.4 | 1530.5 |
| 12.5° | 1429.2 | 1425.2 | 1453.5 | 1477.8 | 1494.0 | 1518.3 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1534.5 |
| 15° | 1477.8 | 1485.9 | 1510.2 | 1526.4 | 1546.7 | 1542.6 | 1526.4 | 1510.2 | 1514.3 | 1510.2 | 1510.2 |
| 17.5° | 1550.7 | 1550.7 | 1571.0 | 1575.0 | 1583.1 | 1542.6 | 1518.3 | 1518.3 | 1530.5 | 1530.5 | 1522.4 |
| 20° | 1623.6 | 1619.5 | 1627.6 | 1623.6 | 1571.0 | 1522.4 | 1518.3 | 1522.4 | 1526.4 | 1522.4 | 1518.3 |
| 22.5° | 1692.4 | 1684.3 | 1672.2 | 1656.0 | 1562.9 | 1518.3 | 1510.2 | 1490.0 | 1469.7 | 1469.7 | 1457.6 |
| 25° | 1753.2 | 1745.1 | 1712.7 | 1664.1 | 1558.8 | 1494.0 | 1453.5 | 1405.0 | 1380.7 | 1368.5 | 1384.7 |
| 27.5° | 1809.8 | 1793.6 | 1749.1 | 1664.1 | 1522.4 | 1429.2 | 1352.3 | 1291.6 | 1271.3 | 1255.1 | 1271.3 |
| 30° | 1886.8 | 1858.4 | 1797.7 | 1651.9 | 1465.7 | 1328.0 | 1222.8 | 1149.9 | 1129.6 | 1105.3 | 1113.4 |
| 32.5° | 1955.6 | 1890.8 | 1838.2 | 1615.5 | 1392.8 | 1214.7 | 1093.2 | 1020.3 | 983.9 | 963.6 | 979.8 |
| 35° | 2028.5 | 1963.7 | 1854.4 | 1558.8 | 1279.4 | 1077.0 | 955.5 | 886.7 | 858.4 | 830.0 | 830.0 |
| 37.5° | 2101.4 | 2064.9 | 1878.7 | 1453.5 | 1141.8 | 947.4 | 838.1 | 785.5 | 736.9 | 684.3 | 684.3 |
| 40° | 2255.2 | 2206.6 | 1907.0 | 1332.1 | 1004.1 | 821.9 | 745.0 | 676.2 | 627.6 | 554.7 | 550.6 |
| 42.5° | 2417.2 | 2311.9 | 1907.0 | 1186.3 | 882.7 | 732.8 | 660.0 | 587.1 | 498.0 | 453.5 | 457.5 |
| 45° | 2623.7 | 2502.2 | 1854.4 | 1056.8 | 761.2 | 660.0 | 579.0 | 485.9 | 445.4 | 417.0 | 417.0 |
| 47.5° | 2882.8 | 2692.5 | 1789.6 | 915.0 | 664.0 | 595.2 | 494.0 | 437.3 | 408.9 | 384.6 | 380.6 |
| 50° | 3190.5 | 2866.6 | 1708.6 | 793.6 | 583.0 | 534.5 | 449.4 | 404.9 | 380.6 | 364.4 | 364.4 |
| 52.5° | 3514.4 | 3121.7 | 1651.9 | 684.3 | 518.3 | 453.5 | 417.0 | 388.7 | 368.4 | 356.3 | 352.3 |
| 55° | 3842.4 | 3376.8 | 1611.4 | 566.8 | 457.5 | 417.0 | 408.9 | 384.6 | 376.5 | 364.4 | 356.3 |
| 57.5° | 4210.8 | 3587.3 | 1603.4 | 485.9 | 408.9 | 400.8 | 417.0 | 396.8 | 384.6 | 372.5 | 360.3 |
| 60° | 4607.6 | 3870.7 | 1530.5 | 421.1 | 384.6 | 392.7 | 404.9 | 384.6 | 376.5 | 364.4 | 356.3 |
| 62.5° | 5000.3 | 4081.3 | 1332.1 | 372.5 | 360.3 | 368.4 | 384.6 | 368.4 | 356.3 | 360.3 | 364.4 |
| 65° | 5162.3 | 4097.5 | 1032.5 | 336.1 | 332.0 | 336.1 | 360.3 | 356.3 | 344.2 | 368.4 | 368.4 |
| 67.5° | 5000.3 | 3951.7 | 728.8 | 303.7 | 303.7 | 323.9 | 364.4 | 372.5 | 360.3 | 392.7 | 388.7 |
| 70° | 4631.9 | 3591.3 | 494.0 | 283.4 | 291.5 | 344.2 | 376.5 | 368.4 | 352.3 | 392.7 | 384.6 |
| 72.5° | 3931.4 | 2874.7 | 360.3 | 263.2 | 275.3 | 328.0 | 372.5 | 364.4 | 352.3 | 368.4 | 352.3 |
| 75° | 2951.6 | 2044.7 | 283.4 | 238.9 | 242.9 | 295.6 | 384.6 | 364.4 | 332.0 | 323.9 | 311.8 |
| 77.5° | 1971.8 | 1263.2 | 218.6 | 210.5 | 210.5 | 259.1 | 368.4 | 340.1 | 299.6 | 287.5 | 283.4 |
| 80° | 939.3 | 506.1 | 174.1 | 178.2 | 182.2 | 222.7 | 336.1 | 303.7 | 271.3 | 255.1 | 255.1 |
| 82.5° | 299.6 | 190.3 | 145.8 | 145.8 | 145.8 | 182.2 | 279.4 | 255.1 | 234.8 | 222.7 | 202.4 |
| 85° | 105.3 | 105.3 | 125.5 | 129.6 | 117.4 | 133.6 | 230.8 | 218.6 | 194.3 | 162.0 | 157.9 |
| 87.5° | 40.5 | 60.7 | 85.0 | 101.2 | 72.9 | 93.1 | 166.0 | 153.9 | 141.7 | 105.3 | 101.2 |
| 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)