

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: P670974

Luminaire Tested: **CCP-SA-1F-750-U-T4FT**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P670974
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-750-U-T4FT
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ T4FT distribution lens
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

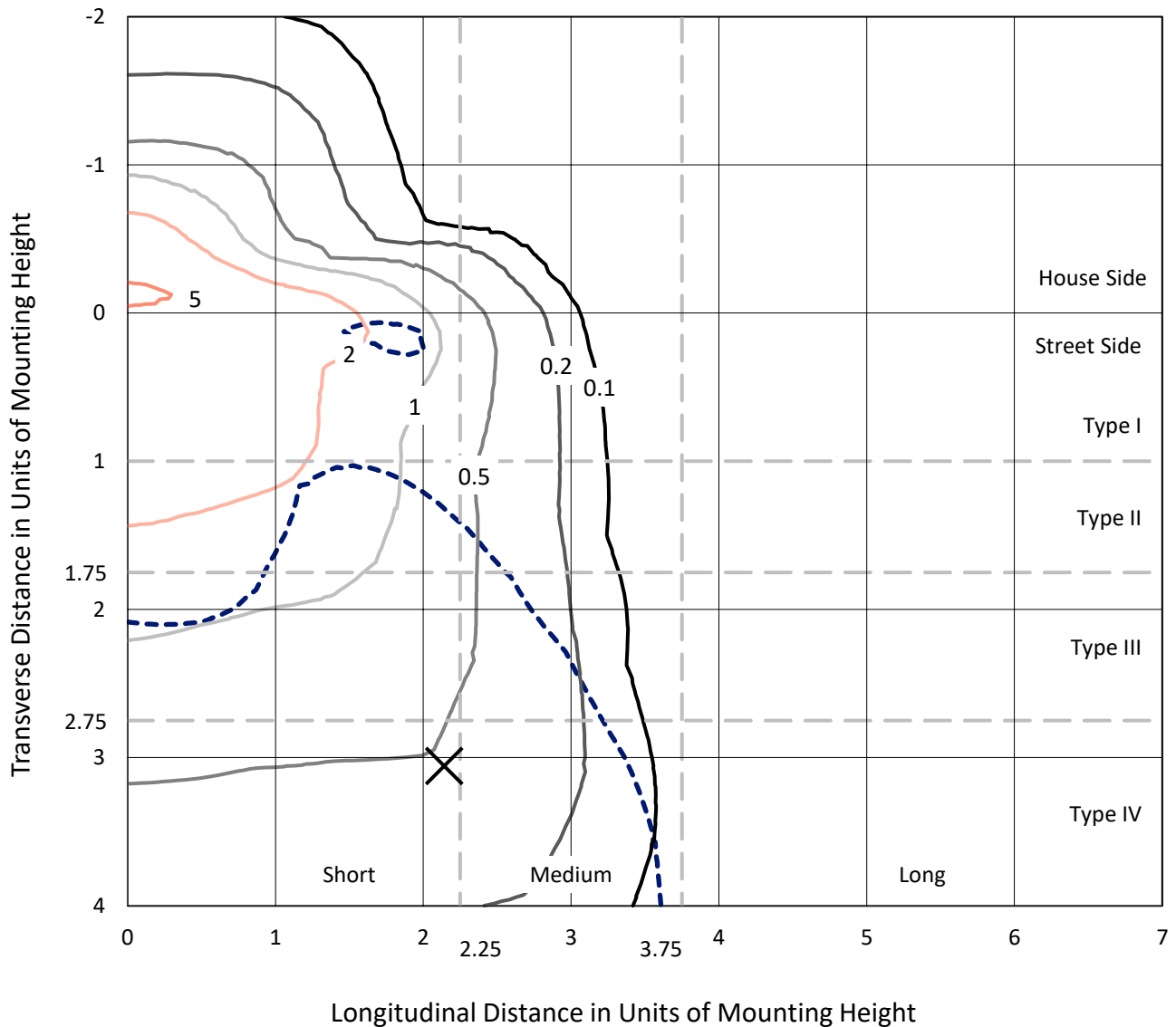
Lumens per Lamp: N/A
Luminaire Lumens: 7664.6 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 67
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

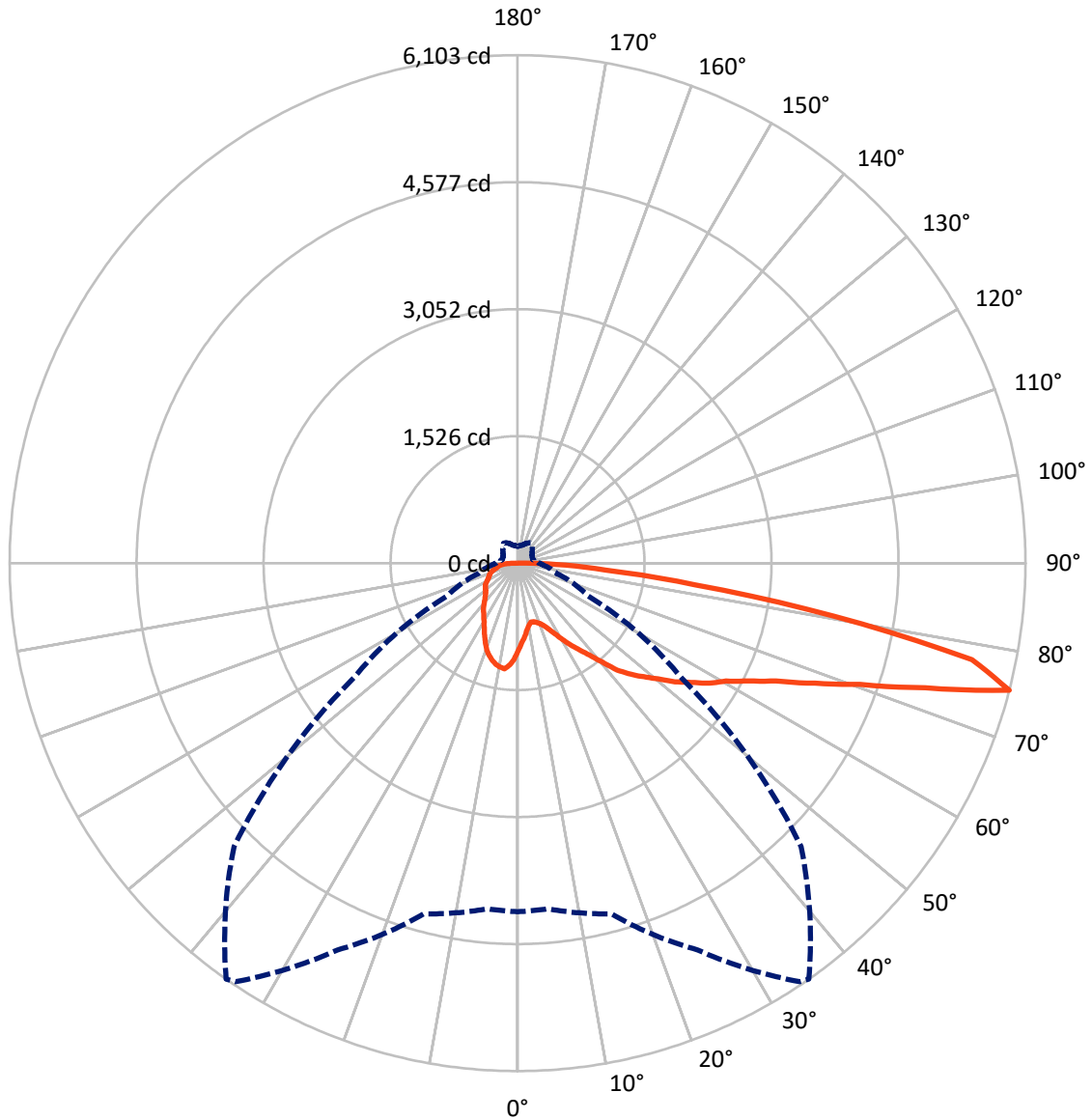
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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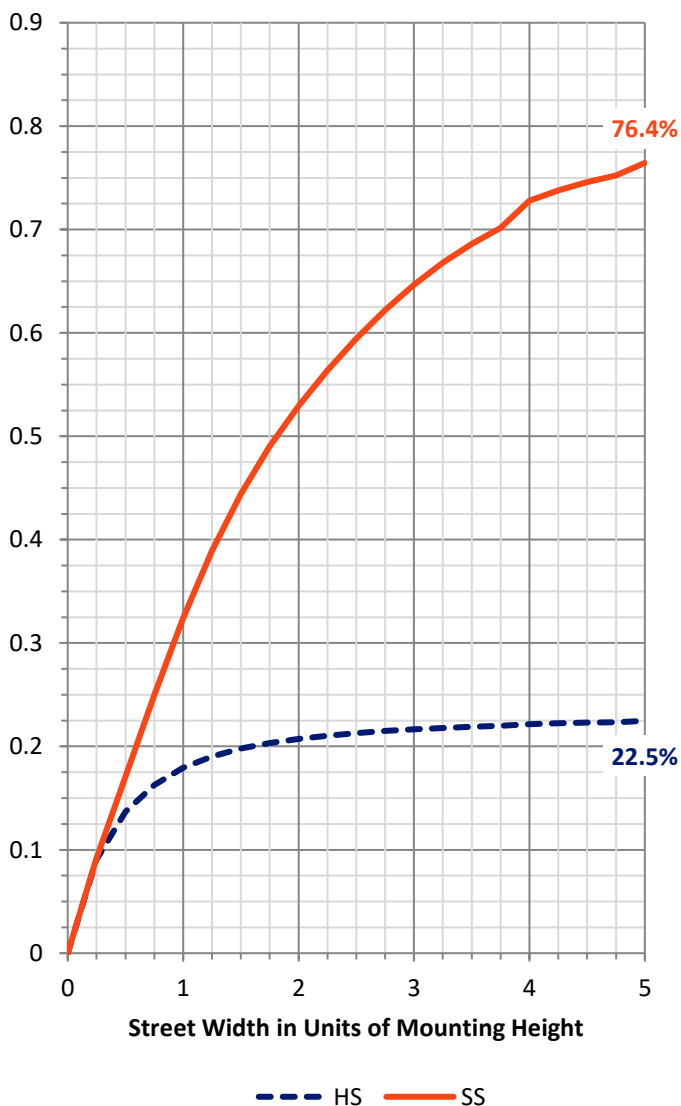
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1761.5 | 0.0 | 1761.5 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 5903.1 | 0.0 | 5903.1 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 7664.6 | 0.0 | 7664.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.0 | 1.3 |
| 10°-20° | 290.4 | 3.8 |
| 20°-30° | 481.9 | 6.3 |
| 30°-40° | 714.3 | 9.3 |
| 40°-50° | 1029.9 | 13.4 |
| 50°-60° | 1416.3 | 18.5 |
| 60°-70° | 1749.5 | 22.8 |
| 70°-80° | 1600.5 | 20.9 |
| 80°-90° | 281.8 | 3.7 |
| 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° | 7664.6 | 100.0 |
| 0°-180° | 7664.6 | 100.0 |



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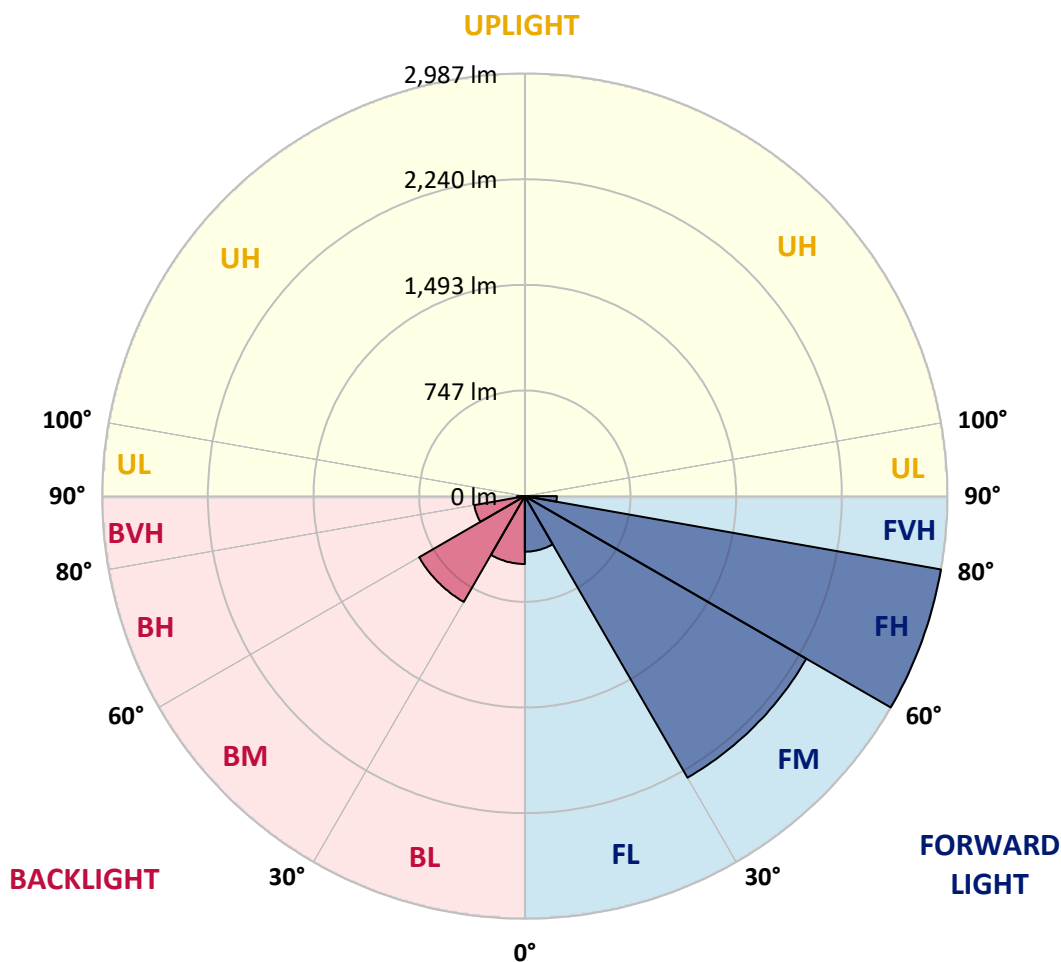
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 392.9 | 5.1 | | | |
| FM (30°-60°) | 2297.4 | 30.0 | | | |
| FH (60°-80°) | 2986.7 | 39.0 | | | G2/5000 |
| FVH (80°-90°) | 226.1 | 3.0 | | | G3/500 |
| BL (0°-30°) | 479.5 | 6.3 | B1/500 | | |
| BM (30°-60°) | 863.2 | 11.3 | B1/1000 | | |
| BH (60°-80°) | 363.2 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 55.6 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 |
| 2.5° | 951.3 | 942.8 | 951.3 | 956.9 | 956.9 | 956.9 | 965.4 | 990.8 | 1007.8 | 1019.0 | 1038.8 |
| 5° | 852.5 | 855.3 | 861.0 | 875.1 | 883.6 | 889.2 | 903.3 | 934.4 | 959.8 | 996.5 | 1038.8 |
| 7.5° | 765.0 | 770.6 | 779.1 | 793.2 | 813.0 | 810.2 | 841.2 | 883.6 | 931.5 | 979.5 | 1041.6 |
| 10° | 719.8 | 731.1 | 733.9 | 736.8 | 756.5 | 756.5 | 798.9 | 846.9 | 906.1 | 968.2 | 1041.6 |
| 12.5° | 728.3 | 728.3 | 719.8 | 717.0 | 728.3 | 725.5 | 762.2 | 818.6 | 883.6 | 971.1 | 1052.9 |
| 15° | 753.7 | 753.7 | 736.8 | 719.8 | 736.8 | 731.1 | 762.2 | 807.3 | 883.6 | 973.9 | 1075.5 |
| 17.5° | 787.6 | 790.4 | 770.6 | 742.4 | 748.1 | 750.9 | 773.5 | 815.8 | 883.6 | 979.5 | 1106.6 |
| 20° | 855.3 | 841.2 | 810.2 | 765.0 | 784.8 | 776.3 | 810.2 | 846.9 | 900.5 | 1002.1 | 1151.7 |
| 22.5° | 914.6 | 914.6 | 855.3 | 815.8 | 818.6 | 818.6 | 849.7 | 880.7 | 925.9 | 1033.2 | 1185.6 |
| 25° | 1010.6 | 1004.9 | 931.5 | 872.3 | 877.9 | 880.7 | 897.7 | 934.4 | 968.2 | 1050.1 | 1227.9 |
| 27.5° | 1132.0 | 1117.8 | 1044.5 | 976.7 | 954.1 | 962.6 | 971.1 | 999.3 | 1007.8 | 1078.3 | 1278.8 |
| 30° | 1261.8 | 1242.1 | 1180.0 | 1072.7 | 1061.4 | 1064.2 | 1050.1 | 1067.0 | 1055.7 | 1123.5 | 1329.6 |
| 32.5° | 1343.7 | 1343.7 | 1284.4 | 1205.4 | 1174.3 | 1174.3 | 1126.3 | 1137.6 | 1137.6 | 1165.8 | 1419.9 |
| 35° | 1414.2 | 1408.6 | 1369.1 | 1309.8 | 1290.0 | 1278.8 | 1230.8 | 1247.7 | 1219.5 | 1247.7 | 1546.9 |
| 37.5° | 1521.5 | 1504.6 | 1487.6 | 1448.1 | 1408.6 | 1400.1 | 1374.7 | 1386.0 | 1346.5 | 1332.4 | 1690.9 |
| 40° | 1645.7 | 1637.3 | 1620.3 | 1603.4 | 1563.9 | 1561.0 | 1532.8 | 1544.1 | 1501.8 | 1448.1 | 1834.9 |
| 42.5° | 1829.2 | 1803.8 | 1750.2 | 1736.1 | 1744.5 | 1755.8 | 1744.5 | 1724.8 | 1648.5 | 1580.8 | 1990.1 |
| 45° | 2012.7 | 1973.2 | 1871.5 | 1849.0 | 1913.9 | 1905.4 | 1953.4 | 1944.9 | 1820.7 | 1713.5 | 2153.8 |
| 47.5° | 2131.3 | 2097.4 | 2015.5 | 2001.4 | 2029.6 | 2040.9 | 2184.9 | 2159.5 | 1961.9 | 1834.9 | 2311.9 |
| 50° | 2215.9 | 2218.8 | 2111.5 | 2148.2 | 2184.9 | 2184.9 | 2365.5 | 2362.7 | 2134.1 | 1984.5 | 2518.0 |
| 52.5° | 2340.1 | 2300.6 | 2255.5 | 2289.3 | 2340.1 | 2368.4 | 2591.4 | 2529.3 | 2241.3 | 2111.5 | 2749.5 |
| 55° | 2405.1 | 2388.1 | 2348.6 | 2407.9 | 2515.2 | 2529.3 | 2766.4 | 2718.4 | 2362.7 | 2261.1 | 2986.6 |
| 57.5° | 2430.5 | 2444.6 | 2509.5 | 2534.9 | 2684.5 | 2721.2 | 2924.5 | 2856.7 | 2475.6 | 2447.4 | 3170.1 |
| 60° | 2543.4 | 2523.6 | 2611.1 | 2712.8 | 2856.7 | 2876.5 | 3122.1 | 2975.3 | 2585.7 | 2568.8 | 3229.3 |
| 62.5° | 2772.0 | 2721.2 | 2769.2 | 2890.6 | 3091.0 | 3116.4 | 3331.0 | 3133.4 | 2633.7 | 2650.7 | 3226.5 |
| 65° | 3105.1 | 3068.4 | 2997.9 | 3093.8 | 3376.1 | 3412.8 | 3576.6 | 3268.9 | 2619.6 | 2622.4 | 2997.9 |
| 67.5° | 3497.5 | 3438.2 | 3364.8 | 3424.1 | 3768.5 | 3853.2 | 3875.8 | 3328.1 | 2520.8 | 2464.3 | 2438.9 |
| 70° | 3841.9 | 3802.4 | 3754.4 | 3856.0 | 4335.9 | 4366.9 | 4248.4 | 3291.4 | 2247.0 | 1978.8 | 1626.0 |
| 72.5° | 4163.7 | 4143.9 | 4172.2 | 4553.3 | 5103.7 | 5123.5 | 4598.4 | 3060.0 | 1775.6 | 1199.7 | 756.5 |
| 75° | 4189.1 | 4169.4 | 4364.1 | 5129.1 | 6066.3 | 6103.0 | 4815.8 | 2399.4 | 937.2 | 488.4 | 319.0 |
| 77.5° | 2837.0 | 2896.2 | 3260.4 | 4491.2 | 5572.3 | 5580.8 | 3937.9 | 1115.0 | 386.7 | 287.9 | 223.0 |
| 80° | 697.2 | 773.5 | 1227.9 | 2323.2 | 3757.2 | 3850.4 | 2156.7 | 375.4 | 254.1 | 220.2 | 166.5 |
| 82.5° | 254.1 | 276.6 | 499.6 | 1050.1 | 2111.5 | 2148.2 | 753.7 | 203.2 | 183.5 | 169.4 | 121.4 |
| 85° | 121.4 | 124.2 | 237.1 | 516.6 | 1067.0 | 1055.7 | 271.0 | 121.4 | 132.7 | 115.7 | 73.4 |
| 87.5° | 50.8 | 50.8 | 104.4 | 239.9 | 471.4 | 457.3 | 87.5 | 56.5 | 76.2 | 67.7 | 36.7 |
| 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° | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 | 1050.1 |
| 2.5° | 1052.9 | 1058.6 | 1081.2 | 1098.1 | 1115.0 | 1129.1 | 1151.7 | 1151.7 | 1165.8 | 1165.8 | 1165.8 |
| 5° | 1050.1 | 1081.2 | 1117.8 | 1157.4 | 1182.8 | 1208.2 | 1230.8 | 1233.6 | 1242.1 | 1253.3 | 1256.2 |
| 7.5° | 1061.4 | 1092.4 | 1151.7 | 1208.2 | 1239.2 | 1250.5 | 1278.8 | 1270.3 | 1270.3 | 1270.3 | 1278.8 |
| 10° | 1084.0 | 1117.8 | 1199.7 | 1250.5 | 1273.1 | 1275.9 | 1267.5 | 1261.8 | 1244.9 | 1239.2 | 1230.8 |
| 12.5° | 1100.9 | 1160.2 | 1242.1 | 1281.6 | 1273.1 | 1264.6 | 1244.9 | 1216.6 | 1196.9 | 1191.2 | 1191.2 |
| 15° | 1143.3 | 1202.5 | 1278.8 | 1292.9 | 1278.8 | 1233.6 | 1208.2 | 1177.1 | 1160.2 | 1134.8 | 1146.1 |
| 17.5° | 1180.0 | 1247.7 | 1315.4 | 1298.5 | 1270.3 | 1199.7 | 1163.0 | 1117.8 | 1095.3 | 1067.0 | 1067.0 |
| 20° | 1227.9 | 1290.0 | 1349.3 | 1304.2 | 1242.1 | 1165.8 | 1106.6 | 1050.1 | 1019.0 | 990.8 | 996.5 |
| 22.5° | 1281.6 | 1338.0 | 1369.1 | 1281.6 | 1199.7 | 1112.2 | 1030.3 | 976.7 | 937.2 | 920.2 | 925.9 |
| 25° | 1323.9 | 1386.0 | 1380.4 | 1244.9 | 1148.9 | 1044.5 | 954.1 | 903.3 | 894.8 | 877.9 | 877.9 |
| 27.5° | 1377.6 | 1442.5 | 1371.9 | 1199.7 | 1064.2 | 937.2 | 880.7 | 861.0 | 861.0 | 852.5 | 858.1 |
| 30° | 1448.1 | 1493.3 | 1352.1 | 1134.8 | 956.9 | 841.2 | 813.0 | 824.3 | 844.0 | 835.6 | 838.4 |
| 32.5° | 1563.9 | 1558.2 | 1335.2 | 1061.4 | 844.0 | 748.1 | 767.8 | 790.4 | 807.3 | 815.8 | 821.4 |
| 35° | 1676.8 | 1640.1 | 1315.4 | 962.6 | 739.6 | 702.9 | 719.8 | 745.2 | 776.3 | 784.8 | 787.6 |
| 37.5° | 1789.7 | 1724.8 | 1281.6 | 841.2 | 674.7 | 663.4 | 680.3 | 694.4 | 719.8 | 725.5 | 731.1 |
| 40° | 1908.2 | 1781.2 | 1222.3 | 722.6 | 621.0 | 621.0 | 632.3 | 635.1 | 649.3 | 657.7 | 663.4 |
| 42.5° | 2012.7 | 1834.9 | 1115.0 | 612.6 | 564.6 | 584.3 | 587.2 | 581.5 | 570.2 | 575.9 | 578.7 |
| 45° | 2139.7 | 1894.1 | 990.8 | 533.5 | 522.2 | 547.6 | 553.3 | 530.7 | 510.9 | 499.6 | 494.0 |
| 47.5° | 2263.9 | 1956.2 | 883.6 | 468.6 | 482.7 | 522.2 | 522.2 | 496.8 | 462.9 | 434.7 | 423.4 |
| 50° | 2376.8 | 2018.3 | 796.0 | 429.1 | 443.2 | 502.5 | 508.1 | 460.1 | 423.4 | 389.6 | 383.9 |
| 52.5° | 2566.0 | 2122.8 | 705.7 | 398.0 | 420.6 | 488.4 | 485.5 | 443.2 | 395.2 | 358.5 | 355.7 |
| 55° | 2732.5 | 2227.2 | 587.2 | 367.0 | 398.0 | 468.6 | 477.1 | 426.3 | 361.3 | 327.5 | 321.8 |
| 57.5° | 2853.9 | 2252.6 | 468.6 | 335.9 | 375.4 | 446.0 | 457.3 | 392.4 | 338.7 | 310.5 | 307.7 |
| 60° | 2876.5 | 2153.8 | 381.1 | 310.5 | 344.4 | 415.0 | 423.4 | 372.6 | 321.8 | 299.2 | 293.6 |
| 62.5° | 2772.0 | 1964.7 | 324.6 | 287.9 | 319.0 | 383.9 | 400.8 | 350.0 | 304.9 | 285.1 | 282.3 |
| 65° | 2534.9 | 1688.1 | 285.1 | 268.2 | 302.0 | 361.3 | 381.1 | 333.1 | 290.8 | 273.8 | 271.0 |
| 67.5° | 2007.0 | 1295.7 | 254.1 | 254.1 | 279.5 | 338.7 | 367.0 | 321.8 | 276.6 | 265.3 | 262.5 |
| 70° | 1312.6 | 779.1 | 231.5 | 234.3 | 262.5 | 319.0 | 350.0 | 307.7 | 259.7 | 256.9 | 251.2 |
| 72.5° | 564.6 | 358.5 | 206.1 | 214.5 | 237.1 | 285.1 | 324.6 | 287.9 | 239.9 | 231.5 | 223.0 |
| 75° | 259.7 | 217.4 | 186.3 | 192.0 | 211.7 | 251.2 | 293.6 | 265.3 | 223.0 | 208.9 | 200.4 |
| 77.5° | 183.5 | 158.1 | 155.3 | 166.5 | 180.7 | 217.4 | 259.7 | 248.4 | 206.1 | 194.8 | 189.1 |
| 80° | 135.5 | 121.4 | 129.9 | 141.1 | 149.6 | 200.4 | 245.6 | 228.7 | 189.1 | 172.2 | 163.7 |
| 82.5° | 96.0 | 90.3 | 101.6 | 112.9 | 121.4 | 175.0 | 225.8 | 200.4 | 158.1 | 144.0 | 129.9 |
| 85° | 56.5 | 59.3 | 70.6 | 76.2 | 84.7 | 129.9 | 189.1 | 160.9 | 121.4 | 93.2 | 90.3 |
| 87.5° | 25.4 | 25.4 | 33.9 | 36.7 | 42.3 | 76.2 | 127.0 | 101.6 | 76.2 | 59.3 | 56.5 |
| 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)