

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: P672084

Luminaire Tested: **CCP-SA-2B-727-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672084
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-727-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T2R distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

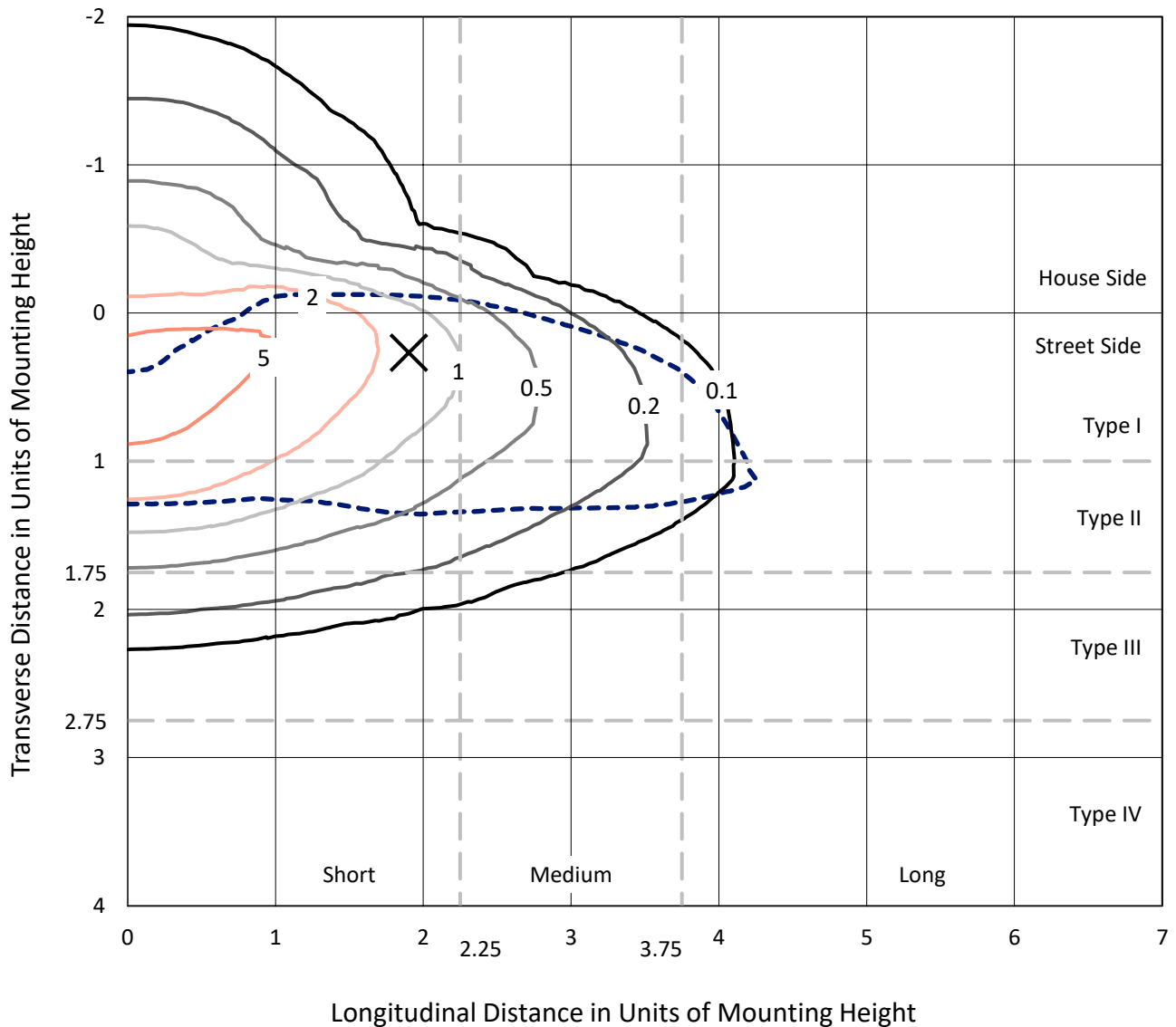
Lumens per Lamp: N/A
Luminaire Lumens: 5866.7 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
Input Voltage (V): 120
Input Current (A_{in}): 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

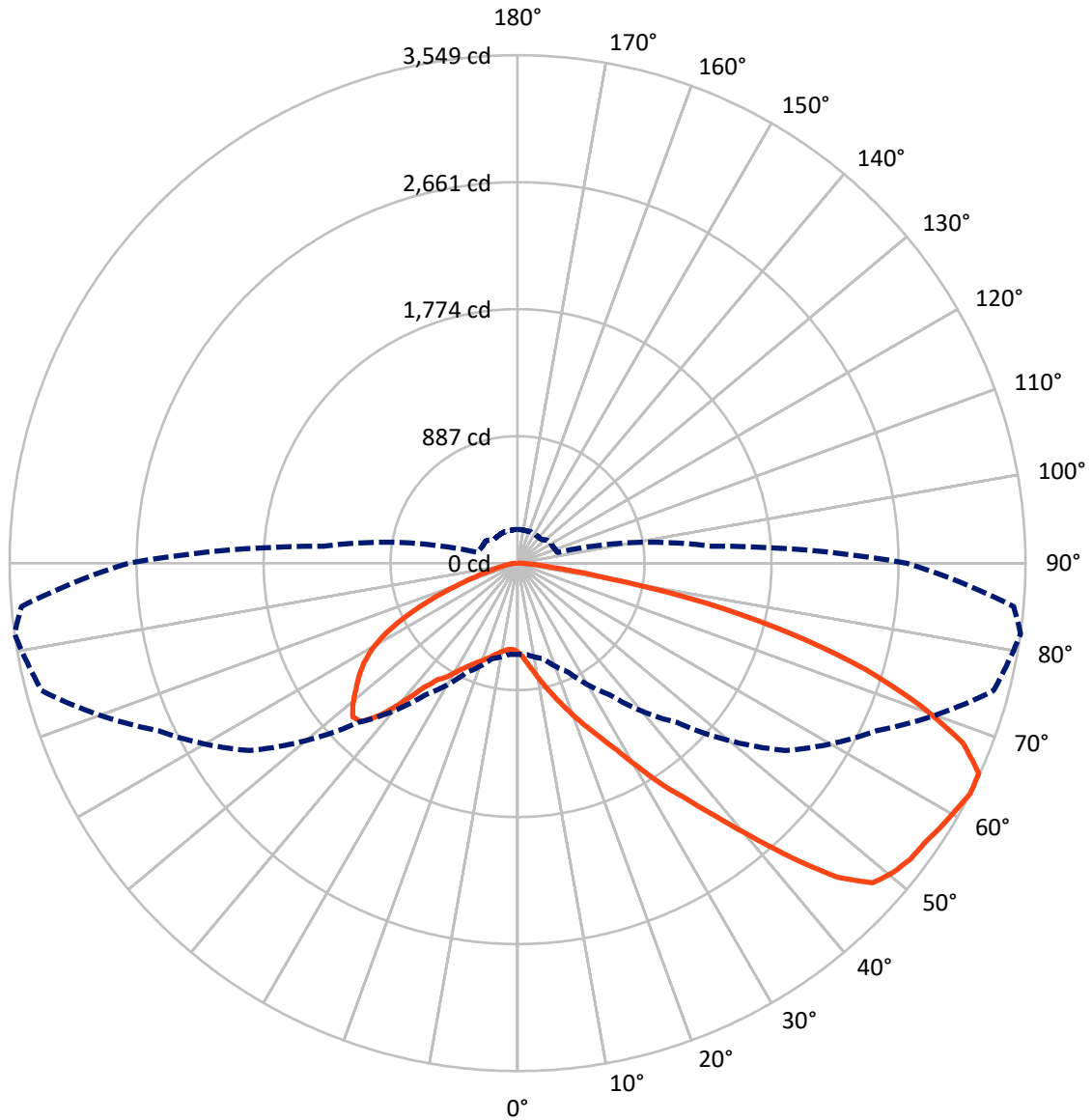
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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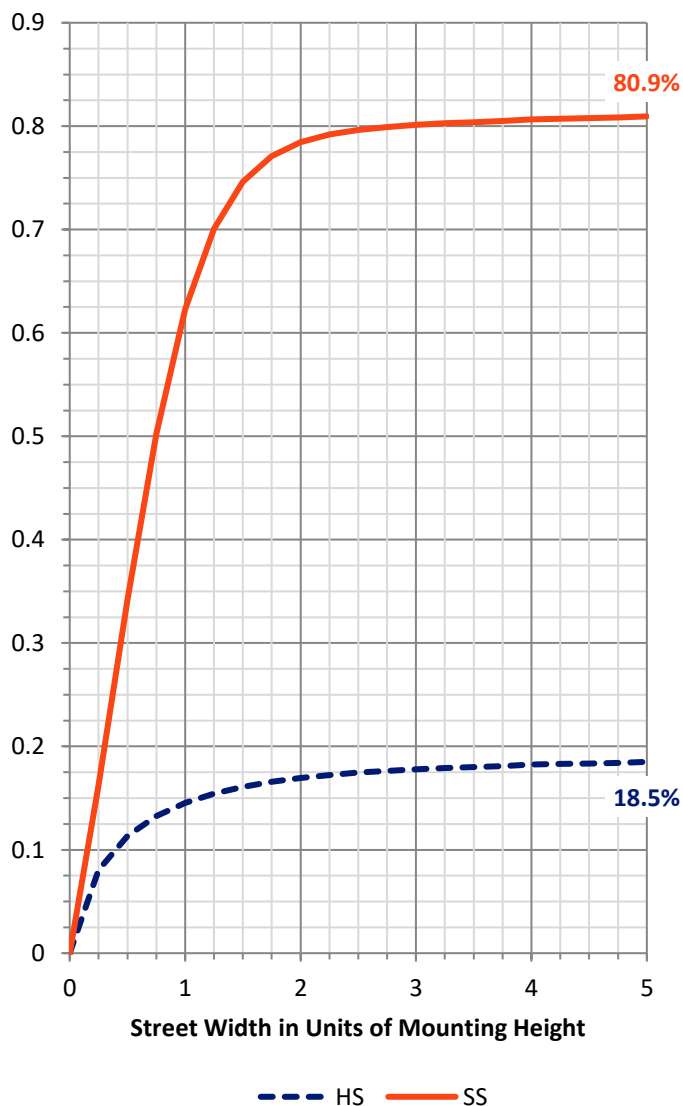
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1105.3 | 0.0 | 1105.3 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 4761.4 | 0.0 | 4761.4 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 5866.7 | 0.0 | 5866.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.0 | 1.2 |
| 10°-20° | 260.4 | 4.4 |
| 20°-30° | 539.3 | 9.2 |
| 30°-40° | 915.3 | 15.6 |
| 40°-50° | 1246.4 | 21.2 |
| 50°-60° | 1261.6 | 21.5 |
| 60°-70° | 994.3 | 16.9 |
| 70°-80° | 489.8 | 8.3 |
| 80°-90° | 90.6 | 1.5 |
| 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° | 5866.7 | 100.0 |
| 0°-180° | 5866.7 | 100.0 |



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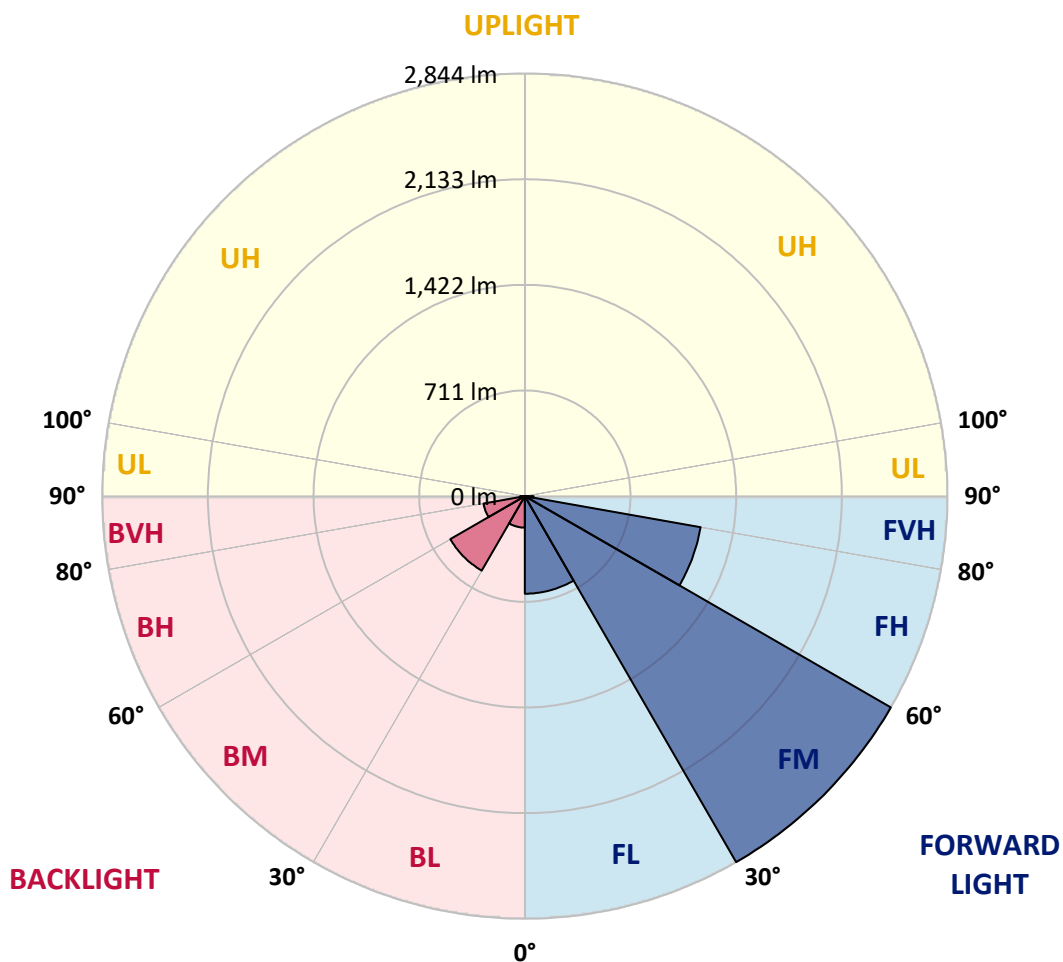
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 656.6 | 11.2 | | | |
| FM (30°-60°) | 2844.4 | 48.5 | | | |
| FH (60°-80°) | 1201.6 | 20.5 | | | G1/1800 |
| FVH (80°-90°) | 58.9 | 1.0 | | | G1/100 |
| BL (0°-30°) | 212.1 | 3.6 | B1/500 | | |
| BM (30°-60°) | 578.9 | 9.9 | B1/1000 | | |
| BH (60°-80°) | 282.5 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 31.7 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 |
| 2.5° | 830.9 | 818.2 | 811.4 | 803.8 | 782.7 | 769.2 | 743.8 | 714.3 | 680.1 | 650.9 | 645.4 |
| 5° | 1006.2 | 993.5 | 995.2 | 976.6 | 945.8 | 917.0 | 869.7 | 814.0 | 748.9 | 699.1 | 681.8 |
| 7.5° | 1129.9 | 1116.0 | 1119.4 | 1111.8 | 1086.8 | 1055.2 | 995.2 | 923.4 | 828.3 | 754.4 | 726.5 |
| 10° | 1212.7 | 1214.4 | 1216.9 | 1214.0 | 1197.9 | 1175.5 | 1116.0 | 1036.6 | 918.3 | 819.9 | 781.9 |
| 12.5° | 1306.5 | 1311.1 | 1310.3 | 1311.5 | 1303.1 | 1285.4 | 1227.1 | 1152.3 | 1014.2 | 890.4 | 841.0 |
| 15° | 1426.0 | 1421.4 | 1425.2 | 1430.7 | 1421.4 | 1401.9 | 1350.4 | 1261.7 | 1114.7 | 969.0 | 907.7 |
| 17.5° | 1557.0 | 1547.2 | 1557.4 | 1551.9 | 1545.1 | 1532.5 | 1475.9 | 1381.2 | 1218.6 | 1053.9 | 982.1 |
| 20° | 1670.2 | 1663.8 | 1669.3 | 1670.2 | 1671.4 | 1668.9 | 1610.6 | 1510.1 | 1327.6 | 1146.4 | 1062.3 |
| 22.5° | 1797.3 | 1794.4 | 1793.5 | 1793.9 | 1795.2 | 1798.2 | 1758.4 | 1651.2 | 1448.4 | 1243.5 | 1148.9 |
| 25° | 1975.1 | 1972.2 | 1952.8 | 1931.2 | 1918.5 | 1927.8 | 1907.1 | 1811.2 | 1581.9 | 1352.5 | 1244.0 |
| 27.5° | 2174.5 | 2169.9 | 2144.1 | 2089.6 | 2049.1 | 2055.8 | 2053.7 | 1987.8 | 1735.6 | 1477.6 | 1358.0 |
| 30° | 2381.5 | 2370.1 | 2334.6 | 2258.1 | 2194.4 | 2182.5 | 2188.5 | 2166.5 | 1929.1 | 1643.6 | 1516.8 |
| 32.5° | 2566.1 | 2545.0 | 2498.1 | 2420.8 | 2344.7 | 2310.5 | 2311.4 | 2321.1 | 2139.5 | 1837.0 | 1683.3 |
| 35° | 2678.9 | 2664.9 | 2629.9 | 2551.7 | 2466.8 | 2444.0 | 2437.7 | 2486.2 | 2332.5 | 2016.1 | 1832.4 |
| 37.5° | 2739.7 | 2726.2 | 2688.6 | 2625.6 | 2561.4 | 2552.1 | 2564.0 | 2639.1 | 2551.7 | 2239.6 | 2035.1 |
| 40° | 2728.7 | 2714.3 | 2689.8 | 2645.9 | 2603.7 | 2610.8 | 2663.2 | 2779.4 | 2791.2 | 2506.9 | 2324.0 |
| 42.5° | 2638.3 | 2623.1 | 2621.0 | 2618.0 | 2598.2 | 2629.9 | 2724.5 | 2882.0 | 3011.3 | 2815.7 | 2673.8 |
| 45° | 2478.6 | 2469.3 | 2480.3 | 2531.0 | 2555.9 | 2617.2 | 2753.2 | 2931.9 | 3204.7 | 3129.6 | 3004.5 |
| 47.5° | 2276.3 | 2270.8 | 2295.7 | 2376.0 | 2456.7 | 2578.3 | 2772.2 | 2945.4 | 3337.8 | 3337.8 | 3221.2 |
| 50° | 2049.9 | 2047.8 | 2080.7 | 2197.3 | 2323.6 | 2506.9 | 2770.1 | 2958.1 | 3396.1 | 3399.0 | 3297.7 |
| 52.5° | 1733.9 | 1744.9 | 1832.8 | 1986.5 | 2158.0 | 2395.0 | 2740.5 | 2993.5 | 3429.0 | 3435.8 | 3348.8 |
| 55° | 1369.8 | 1380.4 | 1513.0 | 1720.0 | 1939.7 | 2259.0 | 2652.2 | 2983.0 | 3435.4 | 3450.6 | 3377.9 |
| 57.5° | 1093.6 | 1095.7 | 1178.5 | 1424.3 | 1696.4 | 2085.0 | 2550.4 | 2912.9 | 3416.8 | 3483.1 | 3422.7 |
| 60° | 855.8 | 862.5 | 917.9 | 1112.6 | 1414.2 | 1860.7 | 2436.8 | 2843.6 | 3427.3 | 3513.9 | 3463.3 |
| 62.5° | 637.4 | 639.1 | 690.6 | 841.4 | 1123.6 | 1574.7 | 2282.6 | 2769.7 | 3442.1 | 3548.6 | 3479.7 |
| 65° | 415.2 | 414.8 | 464.6 | 600.7 | 839.3 | 1265.9 | 2040.6 | 2653.9 | 3443.4 | 3541.0 | 3404.1 |
| 67.5° | 264.0 | 265.7 | 287.2 | 373.0 | 561.8 | 955.5 | 1711.1 | 2438.9 | 3383.4 | 3356.8 | 3128.7 |
| 70° | 214.2 | 214.6 | 221.3 | 243.7 | 342.1 | 653.0 | 1286.2 | 2102.7 | 3193.8 | 2989.7 | 2719.4 |
| 72.5° | 190.9 | 191.3 | 194.7 | 197.3 | 228.1 | 392.4 | 844.0 | 1707.3 | 2856.7 | 2548.3 | 2256.0 |
| 75° | 171.5 | 171.5 | 173.6 | 171.1 | 187.1 | 246.3 | 479.0 | 1283.7 | 2352.8 | 1984.4 | 1704.4 |
| 77.5° | 150.4 | 150.0 | 150.0 | 148.7 | 161.8 | 179.9 | 239.9 | 895.9 | 1694.7 | 1353.4 | 1105.4 |
| 80° | 127.6 | 126.7 | 128.0 | 127.1 | 139.8 | 136.4 | 139.8 | 552.9 | 918.7 | 620.5 | 470.6 |
| 82.5° | 99.3 | 99.3 | 103.1 | 103.9 | 115.3 | 98.8 | 98.4 | 262.3 | 348.9 | 231.9 | 173.6 |
| 85° | 52.0 | 58.3 | 78.6 | 81.9 | 87.0 | 62.1 | 72.2 | 122.5 | 139.8 | 88.7 | 63.4 |
| 87.5° | 15.6 | 16.5 | 48.2 | 54.1 | 53.6 | 31.3 | 44.4 | 59.1 | 65.5 | 39.3 | 25.8 |
| 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° | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 | 623.9 |
| 2.5° | 631.5 | 616.7 | 585.4 | 557.6 | 536.4 | 516.2 | 502.2 | 495.1 | 485.8 | 487.0 | 484.1 |
| 5° | 650.9 | 620.5 | 565.2 | 520.4 | 490.4 | 467.6 | 453.7 | 446.5 | 439.7 | 436.3 | 438.9 |
| 7.5° | 680.1 | 632.8 | 555.5 | 501.4 | 470.1 | 450.7 | 443.1 | 441.0 | 439.3 | 438.0 | 440.1 |
| 10° | 717.7 | 654.3 | 553.8 | 494.6 | 465.9 | 454.1 | 451.1 | 449.9 | 448.2 | 446.5 | 447.7 |
| 12.5° | 756.1 | 678.0 | 559.7 | 496.3 | 472.7 | 463.8 | 460.0 | 458.3 | 454.1 | 452.0 | 452.4 |
| 15° | 804.2 | 706.7 | 567.7 | 503.1 | 481.5 | 470.1 | 465.1 | 460.4 | 453.7 | 450.7 | 452.0 |
| 17.5° | 855.8 | 740.9 | 578.7 | 509.4 | 484.9 | 471.0 | 460.8 | 454.1 | 447.3 | 443.1 | 443.5 |
| 20° | 914.1 | 774.7 | 588.4 | 511.5 | 483.2 | 463.8 | 451.5 | 443.5 | 434.6 | 430.0 | 428.7 |
| 22.5° | 974.5 | 810.2 | 596.0 | 509.8 | 473.9 | 451.5 | 437.6 | 427.9 | 417.3 | 410.1 | 410.6 |
| 25° | 1048.0 | 858.3 | 602.3 | 503.9 | 461.7 | 435.5 | 419.9 | 407.6 | 396.6 | 389.9 | 390.3 |
| 27.5° | 1136.3 | 912.8 | 609.9 | 494.6 | 446.9 | 418.2 | 400.0 | 387.8 | 377.2 | 370.9 | 370.0 |
| 30° | 1254.1 | 983.8 | 618.4 | 483.2 | 428.3 | 399.2 | 381.4 | 368.8 | 358.6 | 352.7 | 352.7 |
| 32.5° | 1386.7 | 1070.4 | 624.3 | 469.7 | 407.6 | 378.9 | 362.8 | 352.7 | 345.1 | 337.1 | 336.2 |
| 35° | 1502.1 | 1137.5 | 642.5 | 459.1 | 389.5 | 359.9 | 348.9 | 341.7 | 330.3 | 322.7 | 321.4 |
| 37.5° | 1671.4 | 1255.8 | 696.1 | 456.2 | 367.5 | 345.1 | 343.0 | 329.5 | 316.4 | 302.0 | 300.7 |
| 40° | 1944.3 | 1460.7 | 758.6 | 441.8 | 344.7 | 337.1 | 335.0 | 316.8 | 286.0 | 277.1 | 275.4 |
| 42.5° | 2291.5 | 1707.3 | 765.4 | 400.0 | 328.6 | 330.3 | 324.0 | 288.5 | 275.0 | 268.2 | 266.5 |
| 45° | 2604.9 | 1907.6 | 726.9 | 357.3 | 316.8 | 320.2 | 307.1 | 277.9 | 270.3 | 264.0 | 262.3 |
| 47.5° | 2781.1 | 1969.2 | 654.3 | 325.2 | 307.9 | 311.3 | 280.1 | 272.9 | 265.3 | 258.9 | 257.2 |
| 50° | 2830.5 | 1915.6 | 569.8 | 306.7 | 301.2 | 302.4 | 272.9 | 268.6 | 261.9 | 256.8 | 254.3 |
| 52.5° | 2840.2 | 1835.3 | 491.7 | 295.7 | 296.1 | 284.7 | 266.5 | 263.2 | 258.9 | 250.9 | 247.9 |
| 55° | 2844.4 | 1763.1 | 421.6 | 288.9 | 292.7 | 261.9 | 259.8 | 257.2 | 253.9 | 245.4 | 243.7 |
| 57.5° | 2855.4 | 1670.6 | 366.6 | 283.9 | 288.5 | 251.3 | 252.2 | 250.5 | 246.3 | 242.5 | 241.6 |
| 60° | 2824.2 | 1542.6 | 324.4 | 278.8 | 282.6 | 242.5 | 243.3 | 244.1 | 240.3 | 239.5 | 239.1 |
| 62.5° | 2719.4 | 1361.0 | 288.5 | 272.0 | 270.3 | 233.6 | 233.6 | 237.0 | 233.6 | 234.9 | 234.9 |
| 65° | 2503.6 | 1129.5 | 256.4 | 259.4 | 251.3 | 223.9 | 223.4 | 229.4 | 224.3 | 229.8 | 230.2 |
| 67.5° | 2135.7 | 854.9 | 223.4 | 239.5 | 231.5 | 213.7 | 215.4 | 220.1 | 213.3 | 224.7 | 224.7 |
| 70° | 1690.4 | 581.6 | 189.2 | 211.6 | 211.2 | 202.3 | 207.8 | 207.4 | 199.8 | 216.7 | 213.7 |
| 72.5° | 1259.2 | 373.4 | 154.2 | 177.4 | 184.6 | 190.1 | 200.2 | 191.3 | 184.2 | 193.9 | 185.0 |
| 75° | 879.9 | 234.0 | 121.7 | 140.2 | 153.8 | 176.6 | 190.9 | 173.2 | 162.6 | 159.7 | 157.1 |
| 77.5° | 526.7 | 149.5 | 95.9 | 106.9 | 120.0 | 160.5 | 179.1 | 154.2 | 138.1 | 136.4 | 131.4 |
| 80° | 242.9 | 97.6 | 73.1 | 79.8 | 85.3 | 137.7 | 163.0 | 131.8 | 112.4 | 110.7 | 104.8 |
| 82.5° | 109.8 | 64.2 | 54.5 | 57.0 | 57.4 | 109.4 | 137.7 | 104.3 | 85.7 | 139.0 | 120.4 |
| 85° | 51.1 | 41.4 | 35.5 | 33.8 | 34.2 | 73.1 | 100.1 | 71.8 | 97.6 | 76.0 | 57.9 |
| 87.5° | 22.0 | 21.1 | 18.2 | 14.4 | 13.1 | 15.6 | 38.4 | 30.0 | 42.7 | 16.9 | 11.4 |
| 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)