

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: P672171

Luminaire Tested: **CCP-SA-2A-835-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672171
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-835-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2R distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

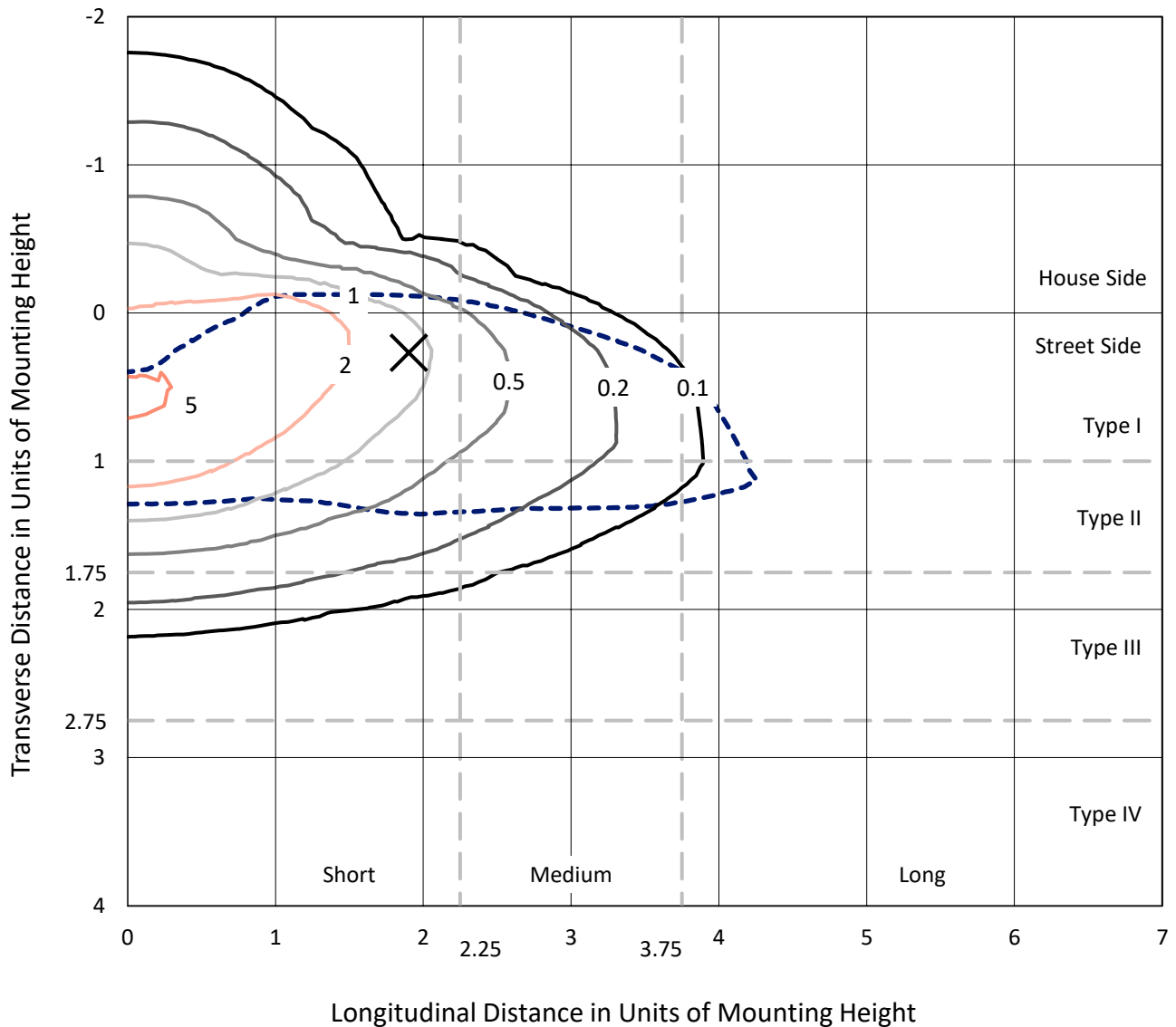
Lumens per Lamp: N/A
Luminaire Lumens: 4579.7 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

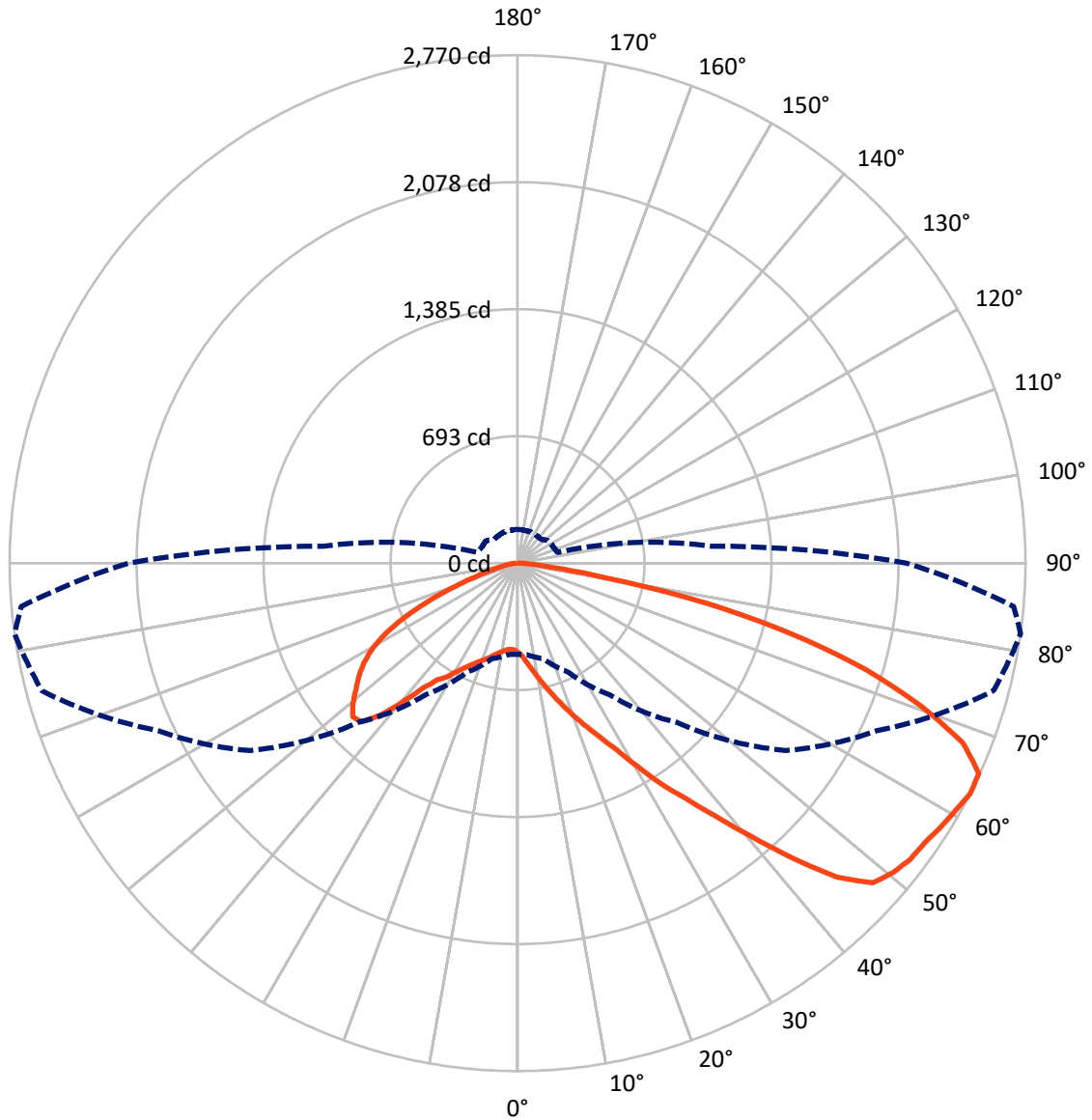
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 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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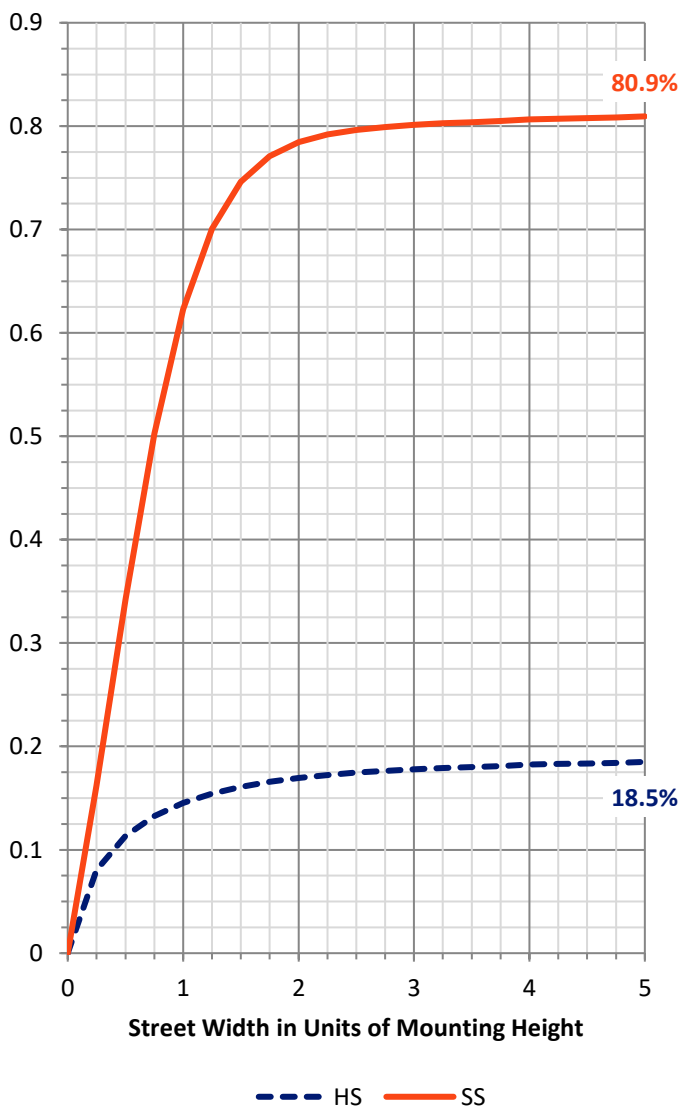
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 862.8 | 0.0 | 862.8 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 3716.9 | 0.0 | 3716.9 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 4579.7 | 0.0 | 4579.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.9 | 1.2 |
| 10°-20° | 203.3 | 4.4 |
| 20°-30° | 421.0 | 9.2 |
| 30°-40° | 714.5 | 15.6 |
| 40°-50° | 973.0 | 21.2 |
| 50°-60° | 984.9 | 21.5 |
| 60°-70° | 776.2 | 16.9 |
| 70°-80° | 382.4 | 8.3 |
| 80°-90° | 70.7 | 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° | 4579.7 | 100.0 |
| 0°-180° | 4579.7 | 100.0 |



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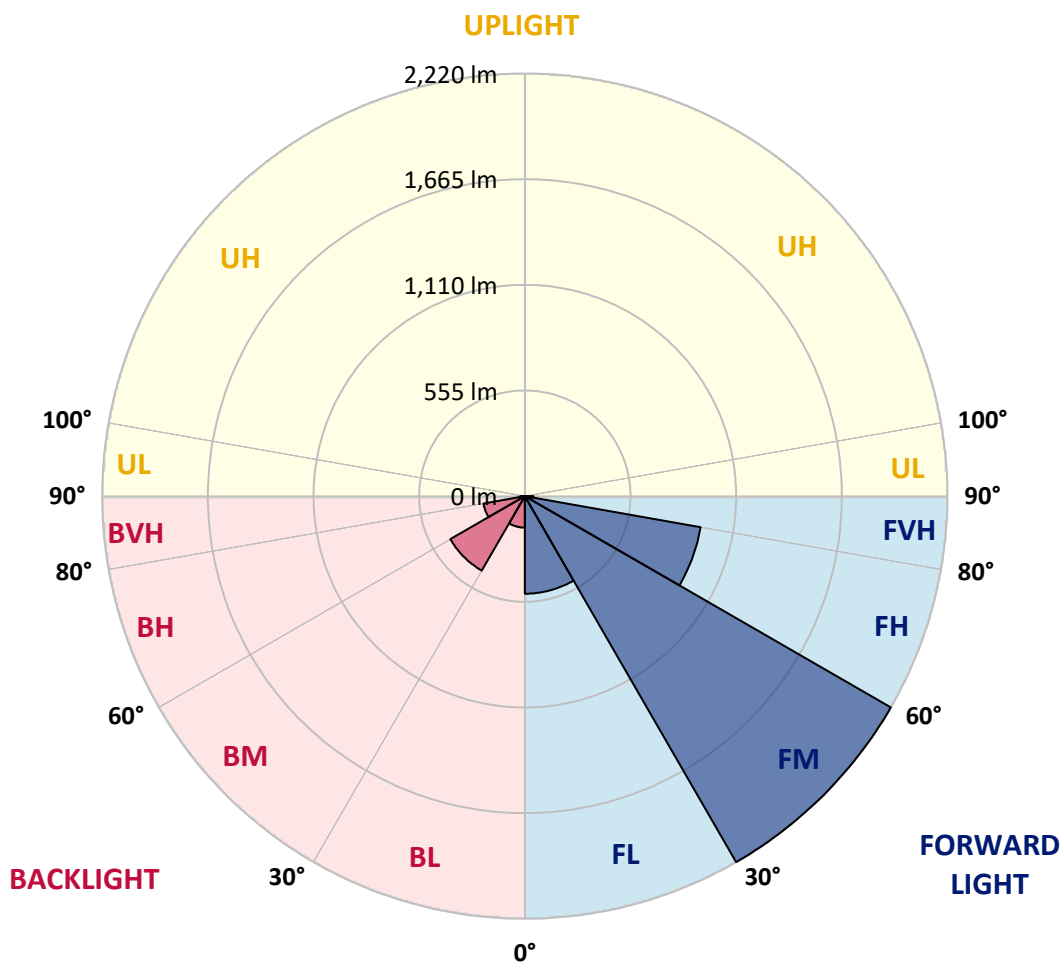
CATALOG NUMBER: CCP-SA-2A-835-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 512.6 | 11.2 | | | |
| FM (30°-60°) | 2220.4 | 48.5 | | | |
| FH (60°-80°) | 938.0 | 20.5 | | | G1/1800 |
| FVH (80°-90°) | 46.0 | 1.0 | | | G1/100 |
| BL (0°-30°) | 165.5 | 3.6 | B1/500 | | |
| BM (30°-60°) | 451.9 | 9.9 | B1/1000 | | |
| BH (60°-80°) | 220.5 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 24.8 | 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° | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 |
| 2.5° | 648.6 | 638.7 | 633.4 | 627.5 | 611.0 | 600.4 | 580.7 | 557.6 | 530.9 | 508.1 | 503.8 |
| 5° | 785.4 | 775.5 | 776.9 | 762.3 | 738.3 | 715.9 | 678.9 | 635.4 | 584.6 | 545.7 | 532.2 |
| 7.5° | 882.0 | 871.2 | 873.8 | 867.9 | 848.4 | 823.7 | 776.9 | 720.8 | 646.6 | 588.9 | 567.1 |
| 10° | 946.7 | 948.0 | 950.0 | 947.7 | 935.1 | 917.7 | 871.2 | 809.2 | 716.8 | 640.0 | 610.3 |
| 12.5° | 1019.9 | 1023.5 | 1022.8 | 1023.8 | 1017.2 | 1003.4 | 957.9 | 899.5 | 791.7 | 695.1 | 656.5 |
| 15° | 1113.2 | 1109.6 | 1112.5 | 1116.8 | 1109.6 | 1094.4 | 1054.2 | 984.9 | 870.2 | 756.4 | 708.6 |
| 17.5° | 1215.4 | 1207.8 | 1215.7 | 1211.4 | 1206.2 | 1196.3 | 1152.1 | 1078.2 | 951.3 | 822.7 | 766.6 |
| 20° | 1303.8 | 1298.8 | 1303.1 | 1303.8 | 1304.8 | 1302.8 | 1257.3 | 1178.8 | 1036.4 | 894.9 | 829.3 |
| 22.5° | 1403.0 | 1400.7 | 1400.1 | 1400.4 | 1401.4 | 1403.7 | 1372.7 | 1288.9 | 1130.7 | 970.7 | 896.9 |
| 25° | 1541.8 | 1539.5 | 1524.4 | 1507.6 | 1497.7 | 1504.9 | 1488.8 | 1413.9 | 1234.9 | 1055.8 | 971.1 |
| 27.5° | 1697.5 | 1693.9 | 1673.7 | 1631.2 | 1599.5 | 1604.8 | 1603.2 | 1551.7 | 1354.9 | 1153.4 | 1060.1 |
| 30° | 1859.0 | 1850.1 | 1822.4 | 1762.8 | 1713.0 | 1703.7 | 1708.4 | 1691.2 | 1505.9 | 1283.0 | 1184.1 |
| 32.5° | 2003.1 | 1986.7 | 1950.1 | 1889.7 | 1830.4 | 1803.7 | 1804.3 | 1811.9 | 1670.1 | 1434.0 | 1314.0 |
| 35° | 2091.2 | 2080.3 | 2052.9 | 1991.9 | 1925.7 | 1907.8 | 1902.9 | 1940.8 | 1820.8 | 1573.8 | 1430.4 |
| 37.5° | 2138.7 | 2128.1 | 2098.8 | 2049.6 | 1999.5 | 1992.3 | 2001.5 | 2060.2 | 1991.9 | 1748.3 | 1588.7 |
| 40° | 2130.1 | 2118.9 | 2099.8 | 2065.5 | 2032.5 | 2038.1 | 2079.0 | 2169.7 | 2178.9 | 1957.0 | 1814.2 |
| 42.5° | 2059.5 | 2047.7 | 2046.0 | 2043.7 | 2028.2 | 2052.9 | 2126.8 | 2249.8 | 2350.7 | 2198.0 | 2087.2 |
| 45° | 1934.9 | 1927.6 | 1936.2 | 1975.8 | 1995.2 | 2043.0 | 2149.2 | 2288.7 | 2501.7 | 2443.0 | 2345.4 |
| 47.5° | 1776.9 | 1772.7 | 1792.1 | 1854.8 | 1917.7 | 2012.7 | 2164.1 | 2299.2 | 2605.6 | 2605.6 | 2514.6 |
| 50° | 1600.2 | 1598.6 | 1624.3 | 1715.3 | 1813.9 | 1957.0 | 2162.4 | 2309.1 | 2651.1 | 2653.4 | 2574.2 |
| 52.5° | 1353.6 | 1362.1 | 1430.7 | 1550.7 | 1684.6 | 1869.6 | 2139.3 | 2336.8 | 2676.8 | 2682.1 | 2614.1 |
| 55° | 1069.3 | 1077.6 | 1181.1 | 1342.7 | 1514.1 | 1763.4 | 2070.4 | 2328.6 | 2681.7 | 2693.6 | 2636.9 |
| 57.5° | 853.7 | 855.3 | 920.0 | 1111.9 | 1324.2 | 1627.6 | 1990.9 | 2273.9 | 2667.2 | 2719.0 | 2671.8 |
| 60° | 668.0 | 673.3 | 716.5 | 868.5 | 1104.0 | 1452.5 | 1902.2 | 2219.8 | 2675.5 | 2743.1 | 2703.5 |
| 62.5° | 497.6 | 498.9 | 539.1 | 656.8 | 877.1 | 1229.3 | 1781.9 | 2162.1 | 2687.0 | 2770.1 | 2716.4 |
| 65° | 324.1 | 323.8 | 362.7 | 468.9 | 655.2 | 988.2 | 1593.0 | 2071.7 | 2688.0 | 2764.2 | 2657.3 |
| 67.5° | 206.1 | 207.4 | 224.2 | 291.2 | 438.5 | 745.9 | 1335.8 | 1903.9 | 2641.2 | 2620.4 | 2442.3 |
| 70° | 167.2 | 167.5 | 172.8 | 190.3 | 267.1 | 509.8 | 1004.0 | 1641.4 | 2493.1 | 2333.9 | 2122.8 |
| 72.5° | 149.0 | 149.4 | 152.0 | 154.0 | 178.1 | 306.3 | 658.8 | 1332.8 | 2230.0 | 1989.3 | 1761.1 |
| 75° | 133.9 | 133.9 | 135.5 | 133.5 | 146.1 | 192.2 | 373.9 | 1002.1 | 1836.6 | 1549.1 | 1330.5 |
| 77.5° | 117.4 | 117.1 | 117.1 | 116.1 | 126.3 | 140.5 | 187.3 | 699.4 | 1322.9 | 1056.5 | 862.9 |
| 80° | 99.6 | 98.9 | 99.9 | 99.3 | 109.1 | 106.5 | 109.1 | 431.6 | 717.2 | 484.4 | 367.3 |
| 82.5° | 77.5 | 77.5 | 80.5 | 81.1 | 90.0 | 77.2 | 76.8 | 204.8 | 272.4 | 181.0 | 135.5 |
| 85° | 40.6 | 45.5 | 61.3 | 64.0 | 67.9 | 48.5 | 56.4 | 95.6 | 109.1 | 69.2 | 49.5 |
| 87.5° | 12.2 | 12.9 | 37.6 | 42.2 | 41.9 | 24.4 | 34.6 | 46.2 | 51.1 | 30.7 | 20.1 |
| 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° | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 | 487.0 |
| 2.5° | 493.0 | 481.4 | 457.0 | 435.3 | 418.8 | 402.9 | 392.1 | 386.4 | 379.2 | 380.2 | 377.9 |
| 5° | 508.1 | 484.4 | 441.2 | 406.2 | 382.8 | 365.0 | 354.1 | 348.5 | 343.3 | 340.6 | 342.6 |
| 7.5° | 530.9 | 493.9 | 433.6 | 391.4 | 367.0 | 351.8 | 345.9 | 344.2 | 342.9 | 341.9 | 343.6 |
| 10° | 560.2 | 510.8 | 432.3 | 386.1 | 363.7 | 354.5 | 352.2 | 351.2 | 349.8 | 348.5 | 349.5 |
| 12.5° | 590.2 | 529.2 | 436.9 | 387.4 | 369.0 | 362.0 | 359.1 | 357.8 | 354.5 | 352.8 | 353.1 |
| 15° | 627.8 | 551.6 | 443.2 | 392.7 | 375.9 | 367.0 | 363.0 | 359.4 | 354.1 | 351.8 | 352.8 |
| 17.5° | 668.0 | 578.4 | 451.7 | 397.7 | 378.5 | 367.7 | 359.7 | 354.5 | 349.2 | 345.9 | 346.2 |
| 20° | 713.5 | 604.7 | 459.3 | 399.3 | 377.2 | 362.0 | 352.5 | 346.2 | 339.3 | 335.7 | 334.7 |
| 22.5° | 760.7 | 632.4 | 465.3 | 398.0 | 370.0 | 352.5 | 341.6 | 334.0 | 325.8 | 320.2 | 320.5 |
| 25° | 818.1 | 670.0 | 470.2 | 393.4 | 360.4 | 340.0 | 327.8 | 318.2 | 309.6 | 304.3 | 304.7 |
| 27.5° | 887.0 | 712.6 | 476.1 | 386.1 | 348.9 | 326.4 | 312.3 | 302.7 | 294.5 | 289.5 | 288.8 |
| 30° | 979.0 | 768.0 | 482.7 | 377.2 | 334.4 | 311.6 | 297.8 | 287.9 | 279.9 | 275.3 | 275.3 |
| 32.5° | 1082.5 | 835.5 | 487.3 | 366.7 | 318.2 | 295.8 | 283.2 | 275.3 | 269.4 | 263.1 | 262.5 |
| 35° | 1172.5 | 888.0 | 501.5 | 358.4 | 304.0 | 280.9 | 272.4 | 266.8 | 257.9 | 251.9 | 250.9 |
| 37.5° | 1304.8 | 980.3 | 543.4 | 356.1 | 286.9 | 269.4 | 267.7 | 257.2 | 247.0 | 235.8 | 234.8 |
| 40° | 1517.8 | 1140.2 | 592.2 | 344.9 | 269.1 | 263.1 | 261.5 | 247.3 | 223.2 | 216.3 | 215.0 |
| 42.5° | 1788.8 | 1332.8 | 597.5 | 312.3 | 256.5 | 257.9 | 252.9 | 225.2 | 214.7 | 209.4 | 208.1 |
| 45° | 2033.5 | 1489.1 | 567.5 | 279.0 | 247.3 | 249.9 | 239.7 | 217.0 | 211.0 | 206.1 | 204.8 |
| 47.5° | 2171.0 | 1537.2 | 510.8 | 253.9 | 240.4 | 243.0 | 218.6 | 213.0 | 207.1 | 202.1 | 200.8 |
| 50° | 2209.6 | 1495.3 | 444.8 | 239.4 | 235.1 | 236.1 | 213.0 | 209.7 | 204.4 | 200.5 | 198.5 |
| 52.5° | 2217.1 | 1432.7 | 383.8 | 230.8 | 231.1 | 222.2 | 208.1 | 205.4 | 202.1 | 195.9 | 193.6 |
| 55° | 2220.4 | 1376.3 | 329.1 | 225.5 | 228.5 | 204.4 | 202.8 | 200.8 | 198.2 | 191.6 | 190.3 |
| 57.5° | 2229.0 | 1304.1 | 286.2 | 221.6 | 225.2 | 196.2 | 196.9 | 195.5 | 192.2 | 189.3 | 188.6 |
| 60° | 2204.6 | 1204.2 | 253.2 | 217.6 | 220.6 | 189.3 | 189.9 | 190.6 | 187.6 | 187.0 | 186.6 |
| 62.5° | 2122.8 | 1062.4 | 225.2 | 212.3 | 211.0 | 182.3 | 182.3 | 185.0 | 182.3 | 183.3 | 183.3 |
| 65° | 1954.3 | 881.7 | 200.1 | 202.5 | 196.2 | 174.8 | 174.4 | 179.0 | 175.1 | 179.4 | 179.7 |
| 67.5° | 1667.1 | 667.4 | 174.4 | 187.0 | 180.7 | 166.8 | 168.2 | 171.8 | 166.5 | 175.4 | 175.4 |
| 70° | 1319.6 | 454.0 | 147.7 | 165.2 | 164.9 | 157.9 | 162.2 | 161.9 | 156.0 | 169.2 | 166.8 |
| 72.5° | 982.9 | 291.5 | 120.4 | 138.5 | 144.1 | 148.4 | 156.3 | 149.4 | 143.8 | 151.3 | 144.4 |
| 75° | 686.8 | 182.7 | 95.0 | 109.5 | 120.0 | 137.8 | 149.0 | 135.2 | 126.9 | 124.6 | 122.7 |
| 77.5° | 411.2 | 116.7 | 74.8 | 83.4 | 93.6 | 125.3 | 139.8 | 120.4 | 107.8 | 106.5 | 102.5 |
| 80° | 189.6 | 76.2 | 57.0 | 62.3 | 66.6 | 107.5 | 127.3 | 102.9 | 87.7 | 86.4 | 81.8 |
| 82.5° | 85.7 | 50.1 | 42.5 | 44.5 | 44.8 | 85.4 | 107.5 | 81.4 | 66.9 | 108.5 | 94.0 |
| 85° | 39.9 | 32.3 | 27.7 | 26.4 | 26.7 | 57.0 | 78.1 | 56.1 | 76.2 | 59.4 | 45.2 |
| 87.5° | 17.1 | 16.5 | 14.2 | 11.2 | 10.2 | 12.2 | 30.0 | 23.4 | 33.3 | 13.2 | 8.9 |
| 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)