

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: P672185

Luminaire Tested: **CCP-SA-2D-840-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672185
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-840-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T2R distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

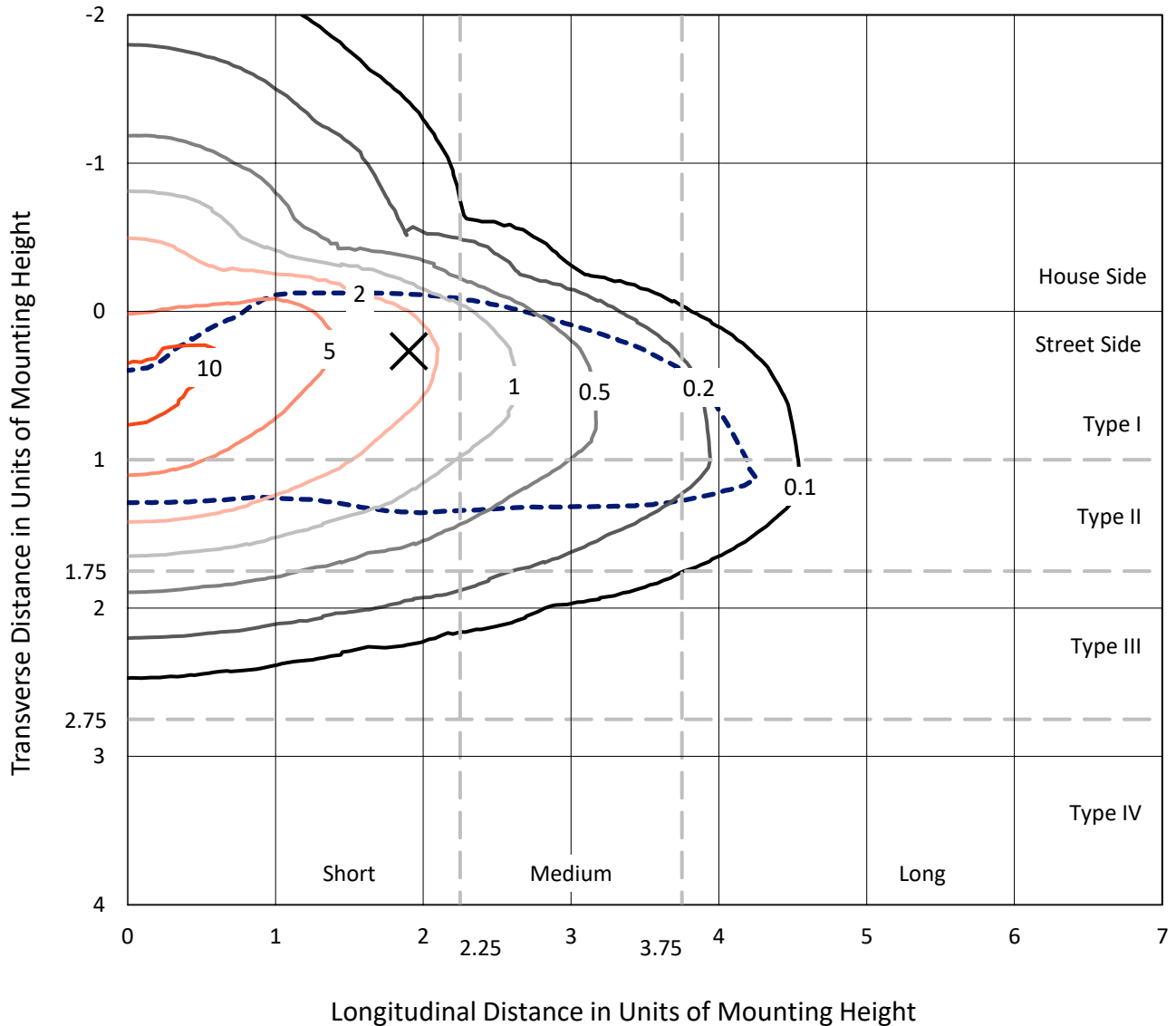
Lumens per Lamp: N/A
Luminaire Lumens: 9658.8 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

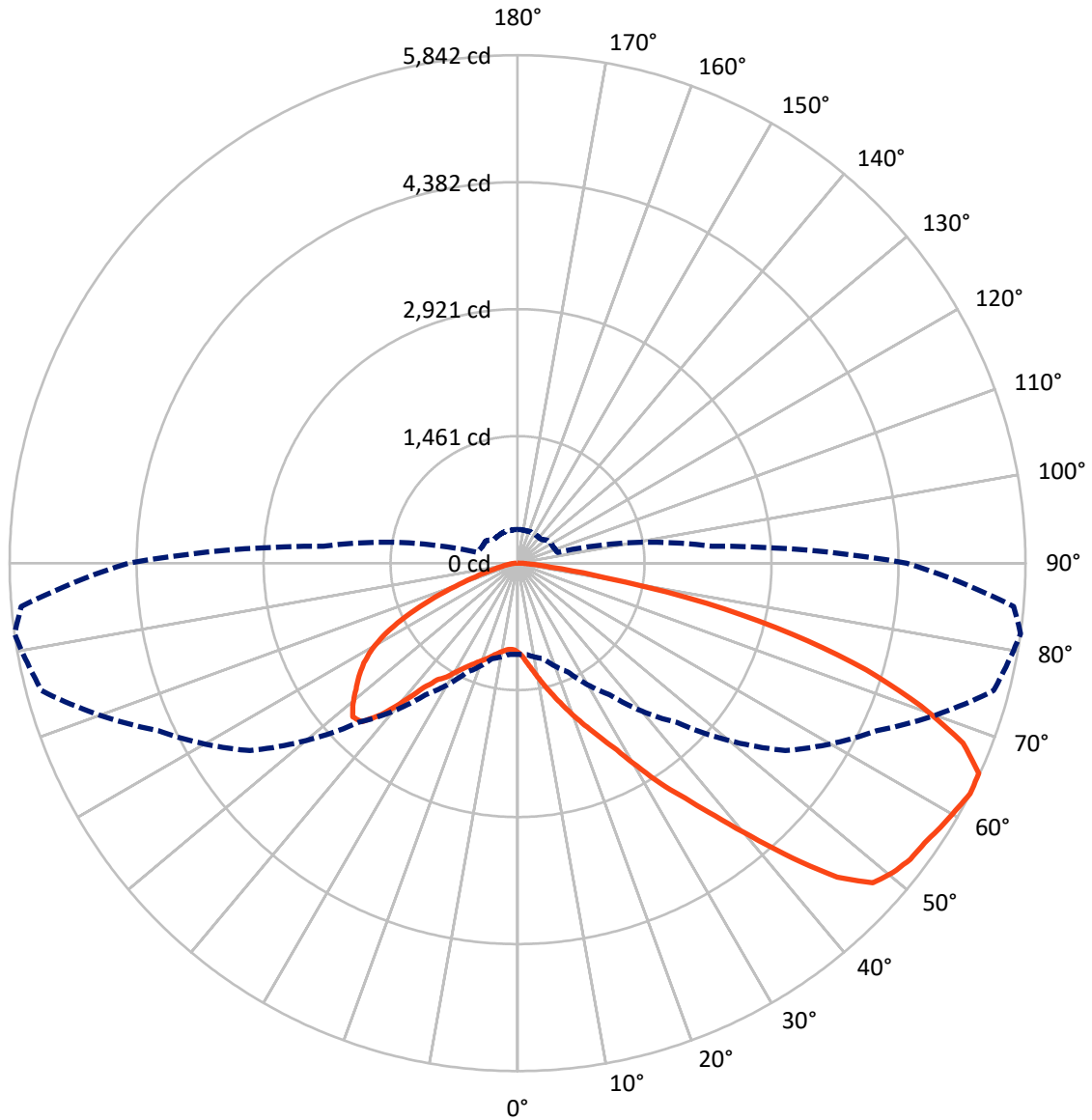
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.3 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 | 1819.7 | 0.0 | 1819.7 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 7839.1 | 0.0 | 7839.1 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 9658.8 | 0.0 | 9658.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 113.6 | 1.2 |
| 10°-20° | 428.7 | 4.4 |
| 20°-30° | 887.8 | 9.2 |
| 30°-40° | 1506.9 | 15.6 |
| 40°-50° | 2052.0 | 21.2 |
| 50°-60° | 2077.1 | 21.5 |
| 60°-70° | 1637.0 | 16.9 |
| 70°-80° | 806.4 | 8.3 |
| 80°-90° | 149.2 | 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° | 9658.8 | 100.0 |
| 0°-180° | 9658.8 | 100.0 |



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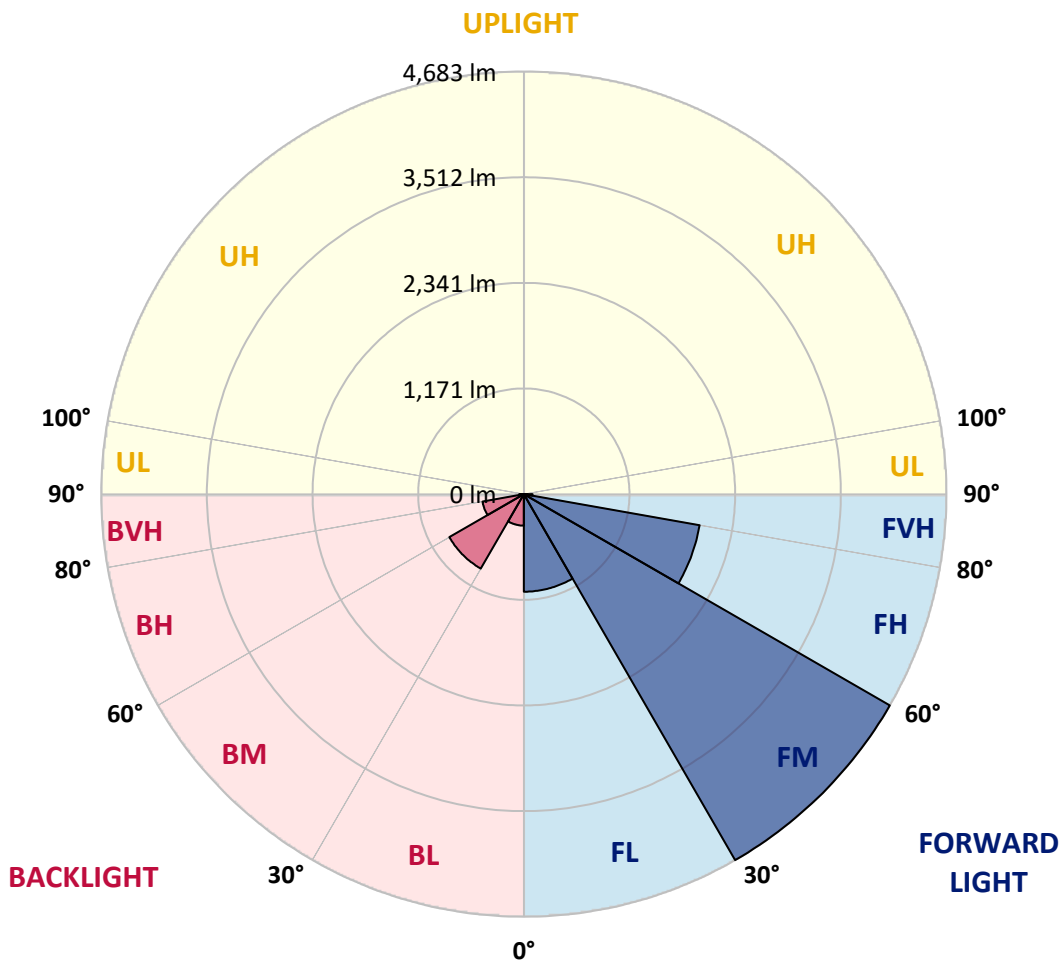
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1081.0 | 11.2 | | | |
| FM (30°-60°) | 4682.9 | 48.5 | | | |
| FH (60°-80°) | 1978.3 | 20.5 | | | G2/5000 |
| FVH (80°-90°) | 96.9 | 1.0 | | | G1/100 |
| BL (0°-30°) | 349.1 | 3.6 | B1/500 | | |
| BM (30°-60°) | 953.1 | 9.9 | B1/1000 | | |
| BH (60°-80°) | 465.2 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 52.3 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 |
| 2.5° | 1367.9 | 1347.0 | 1335.9 | 1323.4 | 1288.6 | 1266.4 | 1224.6 | 1176.0 | 1119.6 | 1071.6 | 1062.6 |
| 5° | 1656.5 | 1635.6 | 1638.4 | 1607.8 | 1557.1 | 1509.8 | 1431.9 | 1340.1 | 1233.0 | 1150.9 | 1122.4 |
| 7.5° | 1860.3 | 1837.3 | 1842.9 | 1830.4 | 1789.3 | 1737.2 | 1638.4 | 1520.2 | 1363.7 | 1242.0 | 1196.1 |
| 10° | 1996.6 | 1999.3 | 2003.5 | 1998.7 | 1972.2 | 1935.4 | 1837.3 | 1706.6 | 1511.9 | 1349.8 | 1287.2 |
| 12.5° | 2150.9 | 2158.6 | 2157.2 | 2159.3 | 2145.4 | 2116.2 | 2020.2 | 1897.1 | 1669.7 | 1466.0 | 1384.6 |
| 15° | 2347.8 | 2340.1 | 2346.4 | 2355.4 | 2340.1 | 2308.1 | 2223.3 | 2077.2 | 1835.2 | 1595.3 | 1494.5 |
| 17.5° | 2563.3 | 2547.3 | 2564.0 | 2555.0 | 2543.9 | 2523.0 | 2429.8 | 2274.0 | 2006.3 | 1735.1 | 1616.9 |
| 20° | 2749.7 | 2739.3 | 2748.3 | 2749.7 | 2751.8 | 2747.6 | 2651.7 | 2486.1 | 2185.7 | 1887.4 | 1749.0 |
| 22.5° | 2959.0 | 2954.2 | 2952.8 | 2953.5 | 2955.6 | 2960.4 | 2895.1 | 2718.4 | 2384.6 | 2047.3 | 1891.6 |
| 25° | 3251.8 | 3246.9 | 3214.9 | 3179.5 | 3158.6 | 3173.9 | 3139.8 | 2982.0 | 2604.4 | 2226.7 | 2048.0 |
| 27.5° | 3580.0 | 3572.4 | 3530.0 | 3440.3 | 3373.5 | 3384.6 | 3381.2 | 3272.7 | 2857.5 | 2432.6 | 2235.8 |
| 30° | 3920.8 | 3902.0 | 3843.6 | 3717.7 | 3612.7 | 3593.3 | 3603.0 | 3566.8 | 3176.0 | 2705.9 | 2497.3 |
| 32.5° | 4224.7 | 4189.9 | 4112.7 | 3985.5 | 3860.3 | 3804.0 | 3805.4 | 3821.4 | 3522.3 | 3024.4 | 2771.3 |
| 35° | 4410.4 | 4387.4 | 4329.7 | 4201.1 | 4061.3 | 4023.7 | 4013.3 | 4093.3 | 3840.1 | 3319.3 | 3016.8 |
| 37.5° | 4510.5 | 4488.3 | 4426.4 | 4322.8 | 4217.1 | 4201.8 | 4221.2 | 4345.0 | 4201.1 | 3687.1 | 3350.6 |
| 40° | 4492.4 | 4468.8 | 4428.5 | 4356.1 | 4286.6 | 4298.4 | 4384.7 | 4575.9 | 4595.4 | 4127.3 | 3826.2 |
| 42.5° | 4343.6 | 4318.6 | 4315.1 | 4310.2 | 4277.6 | 4329.7 | 4485.5 | 4744.9 | 4957.7 | 4635.7 | 4402.0 |
| 45° | 4080.8 | 4065.5 | 4083.5 | 4167.0 | 4208.0 | 4308.9 | 4532.8 | 4826.9 | 5276.2 | 5152.4 | 4946.6 |
| 47.5° | 3747.6 | 3738.6 | 3779.6 | 3911.8 | 4044.6 | 4244.9 | 4564.1 | 4849.2 | 5495.2 | 5495.2 | 5303.3 |
| 50° | 3374.9 | 3371.4 | 3425.7 | 3617.6 | 3825.5 | 4127.3 | 4560.6 | 4870.1 | 5591.2 | 5596.1 | 5429.2 |
| 52.5° | 2854.7 | 2872.8 | 3017.4 | 3270.6 | 3552.9 | 3943.1 | 4511.9 | 4928.5 | 5645.5 | 5656.6 | 5513.3 |
| 55° | 2255.3 | 2272.6 | 2491.0 | 2831.8 | 3193.4 | 3719.1 | 4366.6 | 4911.1 | 5655.9 | 5680.9 | 5561.3 |
| 57.5° | 1800.5 | 1803.9 | 1940.2 | 2345.0 | 2792.8 | 3432.6 | 4199.0 | 4795.6 | 5625.3 | 5734.5 | 5635.0 |
| 60° | 1408.9 | 1420.1 | 1511.2 | 1831.7 | 2328.3 | 3063.3 | 4011.9 | 4681.6 | 5642.7 | 5785.2 | 5701.8 |
| 62.5° | 1049.4 | 1052.2 | 1137.0 | 1385.3 | 1849.8 | 2592.5 | 3758.1 | 4559.9 | 5667.0 | 5842.3 | 5728.9 |
| 65° | 683.6 | 682.9 | 765.0 | 988.9 | 1381.8 | 2084.2 | 3359.6 | 4369.4 | 5669.1 | 5829.7 | 5604.4 |
| 67.5° | 434.6 | 437.4 | 472.9 | 614.1 | 924.9 | 1573.1 | 2817.2 | 4015.4 | 5570.4 | 5526.5 | 5151.0 |
| 70° | 352.6 | 353.3 | 364.4 | 401.3 | 563.3 | 1075.1 | 2117.6 | 3461.8 | 5258.1 | 4922.2 | 4477.1 |
| 72.5° | 314.3 | 315.0 | 320.6 | 324.8 | 375.5 | 646.0 | 1389.5 | 2810.9 | 4703.2 | 4195.5 | 3714.3 |
| 75° | 282.3 | 282.3 | 285.8 | 281.6 | 308.1 | 405.4 | 788.6 | 2113.4 | 3873.5 | 3267.1 | 2806.0 |
| 77.5° | 247.6 | 246.9 | 246.9 | 244.8 | 266.3 | 296.3 | 395.0 | 1475.0 | 2790.0 | 2228.1 | 1819.9 |
| 80° | 210.0 | 208.6 | 210.7 | 209.3 | 230.2 | 224.6 | 230.2 | 910.3 | 1512.5 | 1021.6 | 774.7 |
| 82.5° | 163.4 | 163.4 | 169.7 | 171.1 | 189.9 | 162.7 | 162.0 | 431.9 | 574.4 | 381.8 | 285.8 |
| 85° | 85.5 | 96.0 | 129.3 | 134.9 | 143.3 | 102.2 | 118.9 | 201.7 | 230.2 | 146.0 | 104.3 |
| 87.5° | 25.7 | 27.1 | 79.3 | 89.0 | 88.3 | 51.5 | 73.0 | 97.4 | 107.8 | 64.7 | 42.4 |
| 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° | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 |
| 2.5° | 1039.7 | 1015.3 | 963.9 | 918.0 | 883.2 | 849.8 | 826.9 | 815.0 | 799.7 | 801.8 | 797.0 |
| 5° | 1071.6 | 1021.6 | 930.5 | 856.8 | 807.4 | 769.8 | 746.9 | 735.1 | 723.9 | 718.4 | 722.5 |
| 7.5° | 1119.6 | 1041.7 | 914.5 | 825.5 | 774.0 | 742.0 | 729.5 | 726.0 | 723.2 | 721.2 | 724.6 |
| 10° | 1181.5 | 1077.2 | 911.7 | 814.3 | 767.1 | 747.6 | 742.7 | 740.6 | 737.8 | 735.1 | 737.2 |
| 12.5° | 1244.8 | 1116.2 | 921.4 | 817.1 | 778.2 | 763.6 | 757.3 | 754.5 | 747.6 | 744.1 | 744.8 |
| 15° | 1324.1 | 1163.4 | 934.7 | 828.3 | 792.8 | 774.0 | 765.7 | 758.0 | 746.9 | 742.0 | 744.1 |
| 17.5° | 1408.9 | 1219.8 | 952.7 | 838.7 | 798.3 | 775.4 | 758.7 | 747.6 | 736.5 | 729.5 | 730.2 |
| 20° | 1504.9 | 1275.4 | 968.7 | 842.2 | 795.6 | 763.6 | 743.4 | 730.2 | 715.6 | 707.9 | 705.9 |
| 22.5° | 1604.3 | 1333.8 | 981.2 | 839.4 | 780.3 | 743.4 | 720.5 | 704.5 | 687.1 | 675.3 | 676.0 |
| 25° | 1725.3 | 1413.1 | 991.7 | 829.6 | 760.1 | 717.0 | 691.3 | 671.1 | 653.0 | 641.9 | 642.6 |
| 27.5° | 1870.7 | 1502.8 | 1004.2 | 814.3 | 735.8 | 688.5 | 658.6 | 638.4 | 621.0 | 610.6 | 609.2 |
| 30° | 2064.7 | 1619.6 | 1018.1 | 795.6 | 705.2 | 657.2 | 628.0 | 607.1 | 590.4 | 580.7 | 580.7 |
| 32.5° | 2283.1 | 1762.2 | 1027.8 | 773.3 | 671.1 | 623.8 | 597.4 | 580.7 | 568.2 | 554.9 | 553.6 |
| 35° | 2472.9 | 1872.8 | 1057.7 | 755.9 | 641.2 | 592.5 | 574.4 | 562.6 | 543.8 | 531.3 | 529.2 |
| 37.5° | 2751.8 | 2067.5 | 1146.1 | 751.1 | 605.0 | 568.2 | 564.7 | 542.4 | 520.9 | 497.2 | 495.1 |
| 40° | 3201.0 | 2404.8 | 1249.0 | 727.4 | 567.5 | 554.9 | 551.5 | 521.6 | 470.8 | 456.2 | 453.4 |
| 42.5° | 3772.7 | 2810.9 | 1260.1 | 658.6 | 541.0 | 543.8 | 533.4 | 475.0 | 452.7 | 441.6 | 438.8 |
| 45° | 4288.7 | 3140.5 | 1196.8 | 588.3 | 521.6 | 527.1 | 505.6 | 457.6 | 445.1 | 434.6 | 431.9 |
| 47.5° | 4578.7 | 3242.1 | 1077.2 | 535.5 | 507.0 | 512.5 | 461.1 | 449.2 | 436.7 | 426.3 | 423.5 |
| 50° | 4660.0 | 3153.8 | 938.1 | 504.9 | 495.8 | 497.9 | 449.2 | 442.3 | 431.2 | 422.8 | 418.6 |
| 52.5° | 4676.0 | 3021.6 | 809.5 | 486.8 | 487.5 | 468.7 | 438.8 | 433.2 | 426.3 | 413.1 | 408.2 |
| 55° | 4683.0 | 2902.7 | 694.0 | 475.7 | 481.9 | 431.2 | 427.7 | 423.5 | 418.0 | 404.0 | 401.3 |
| 57.5° | 4701.1 | 2750.4 | 603.6 | 467.3 | 475.0 | 413.8 | 415.2 | 412.4 | 405.4 | 399.2 | 397.8 |
| 60° | 4649.6 | 2539.7 | 534.1 | 459.0 | 465.2 | 399.2 | 400.6 | 402.0 | 395.7 | 394.3 | 393.6 |
| 62.5° | 4477.1 | 2240.7 | 475.0 | 447.9 | 445.1 | 384.6 | 384.6 | 390.1 | 384.6 | 386.7 | 386.7 |
| 65° | 4121.8 | 1859.6 | 422.1 | 427.0 | 413.8 | 368.6 | 367.9 | 377.6 | 369.3 | 378.3 | 379.0 |
| 67.5° | 3516.1 | 1407.5 | 367.9 | 394.3 | 381.1 | 351.9 | 354.7 | 362.3 | 351.2 | 370.0 | 370.0 |
| 70° | 2783.1 | 957.6 | 311.6 | 348.4 | 347.7 | 333.1 | 342.1 | 341.5 | 328.9 | 356.8 | 351.9 |
| 72.5° | 2073.1 | 614.8 | 253.8 | 292.1 | 303.9 | 312.9 | 329.6 | 315.0 | 303.2 | 319.2 | 304.6 |
| 75° | 1448.6 | 385.3 | 200.3 | 230.9 | 253.1 | 290.7 | 314.3 | 285.1 | 267.7 | 262.9 | 258.7 |
| 77.5° | 867.2 | 246.2 | 157.9 | 175.9 | 197.5 | 264.3 | 294.9 | 253.8 | 227.4 | 224.6 | 216.3 |
| 80° | 399.9 | 160.6 | 120.3 | 131.4 | 140.5 | 226.7 | 268.4 | 217.0 | 185.0 | 182.2 | 172.5 |
| 82.5° | 180.8 | 105.7 | 89.7 | 93.9 | 94.6 | 180.1 | 226.7 | 171.8 | 141.2 | 228.8 | 198.2 |
| 85° | 84.1 | 68.2 | 58.4 | 55.6 | 56.3 | 120.3 | 164.8 | 118.2 | 160.6 | 125.2 | 95.3 |
| 87.5° | 36.2 | 34.8 | 29.9 | 23.6 | 21.6 | 25.7 | 63.3 | 49.4 | 70.2 | 27.8 | 18.8 |
| 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)