

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: P401606

Luminaire Tested: **ENT-SA1E-722-U-T3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1E-722-U-T3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2200K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5265 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

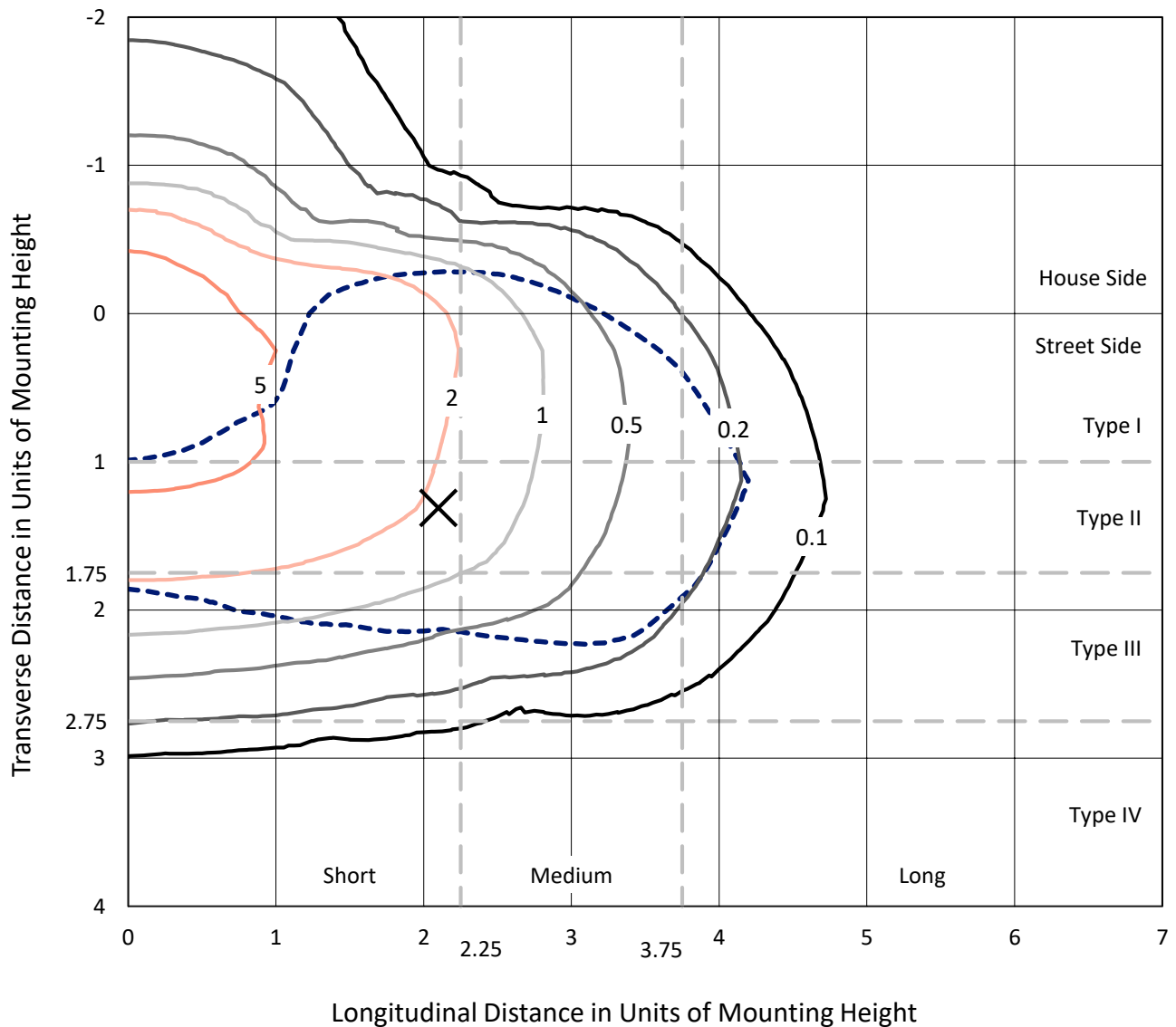
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

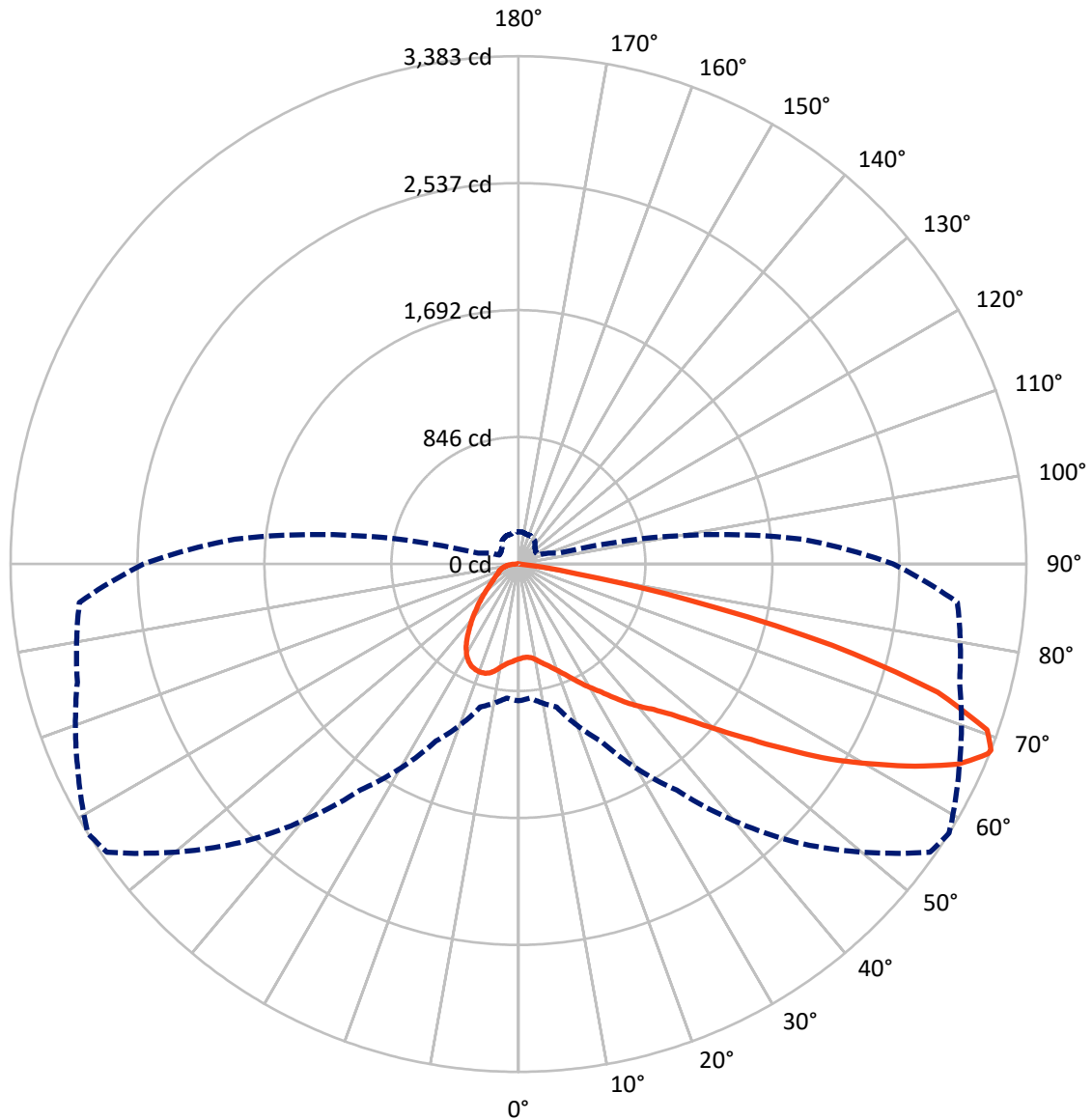
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1232.8 | 0.0 | 1232.8 |
| | % Fixture | 23.4 | 0.0 | 23.4 |
| Street Side | Lumens | 4032.2 | 0.0 | 4032.2 |
| | % Fixture | 76.6 | 0.0 | 76.6 |
| Total | Lumens | 5265.0 | 0.0 | 5265.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.3 | 1.2 |
| 10°-20° | 203.7 | 3.9 |
| 20°-30° | 366.3 | 7.0 |
| 30°-40° | 538.1 | 10.2 |
| 40°-50° | 789.2 | 15.0 |
| 50°-60° | 1179.7 | 22.4 |
| 60°-70° | 1379.4 | 26.2 |
| 70°-80° | 680.1 | 12.9 |
| 80°-90° | 66.4 | 1.3 |
| 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° | 5265.0 | 100.0 |
| 0°-180° | 5265.0 | 100.0 |



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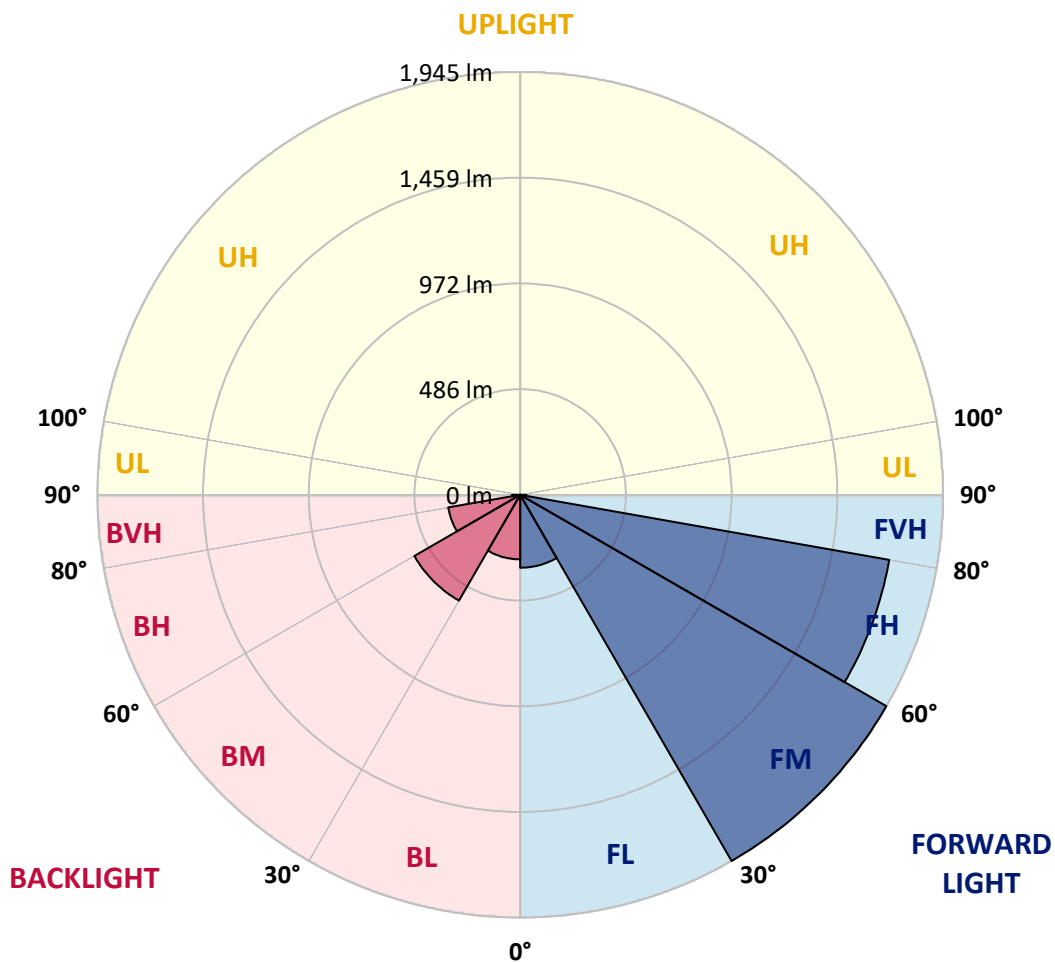
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 335.4 | 6.4 | | | |
| FM | (30°-60°) | 1944.7 | 36.9 | | | |
| FH | (60°-80°) | 1723.6 | 32.7 | | | G1/1800 |
| FVH | (80°-90°) | 28.6 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 296.8 | 5.6 | B1/500 | | |
| BM | (30°-60°) | 562.2 | 10.7 | B1/1000 | | |
| BH | (60°-80°) | 335.9 | 6.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 37.8 | 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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 |
| 2.5° | 616.8 | 616.8 | 619.0 | 619.8 | 621.2 | 622.7 | 624.2 | 624.9 | 627.1 | 630.0 | 631.5 |
| 5° | 611.7 | 612.4 | 613.9 | 614.6 | 616.8 | 619.8 | 622.0 | 623.4 | 627.1 | 633.0 | 636.7 |
| 7.5° | 623.4 | 625.6 | 626.4 | 627.1 | 627.8 | 630.0 | 630.0 | 630.8 | 634.5 | 640.3 | 645.5 |
| 10° | 642.5 | 644.0 | 646.2 | 648.4 | 650.6 | 652.1 | 647.7 | 648.4 | 649.9 | 655.8 | 663.1 |
| 12.5° | 666.8 | 666.8 | 667.5 | 670.5 | 672.7 | 677.1 | 672.7 | 672.7 | 672.7 | 677.8 | 686.7 |
| 15° | 694.0 | 692.5 | 692.5 | 695.5 | 696.2 | 699.2 | 697.0 | 697.0 | 699.9 | 705.0 | 713.9 |
| 17.5° | 724.9 | 727.1 | 724.9 | 723.4 | 721.2 | 722.7 | 724.2 | 725.6 | 731.5 | 739.6 | 744.7 |
| 20° | 769.7 | 773.4 | 771.9 | 766.1 | 756.5 | 752.1 | 757.2 | 760.2 | 771.9 | 781.5 | 782.2 |
| 22.5° | 841.0 | 838.8 | 836.6 | 826.3 | 807.2 | 795.5 | 796.2 | 800.6 | 819.0 | 833.7 | 826.3 |
| 25° | 907.2 | 909.4 | 909.4 | 894.7 | 869.7 | 845.5 | 847.7 | 849.9 | 868.2 | 881.5 | 861.6 |
| 27.5° | 987.3 | 985.9 | 985.1 | 965.3 | 935.1 | 911.6 | 899.1 | 905.0 | 918.2 | 923.4 | 885.2 |
| 30° | 1070.4 | 1076.3 | 1070.4 | 1042.5 | 1013.8 | 983.7 | 958.7 | 957.2 | 963.8 | 963.1 | 913.1 |
| 32.5° | 1170.4 | 1165.3 | 1163.1 | 1130.7 | 1094.7 | 1055.0 | 1023.4 | 1018.2 | 1014.5 | 1009.4 | 946.2 |
| 35° | 1247.6 | 1254.2 | 1254.2 | 1226.3 | 1183.6 | 1144.7 | 1095.4 | 1091.0 | 1082.2 | 1065.3 | 989.6 |
| 37.5° | 1338.8 | 1337.3 | 1342.4 | 1310.1 | 1267.5 | 1230.0 | 1184.4 | 1171.9 | 1152.0 | 1127.0 | 1041.0 |
| 40° | 1427.7 | 1431.4 | 1443.2 | 1404.2 | 1365.2 | 1335.8 | 1271.1 | 1248.3 | 1218.2 | 1195.4 | 1116.0 |
| 42.5° | 1549.0 | 1554.2 | 1558.6 | 1526.2 | 1479.9 | 1453.5 | 1353.5 | 1324.8 | 1307.9 | 1303.5 | 1215.3 |
| 45° | 1696.1 | 1704.9 | 1708.6 | 1679.2 | 1652.7 | 1589.5 | 1457.1 | 1430.7 | 1412.3 | 1431.4 | 1350.5 |
| 47.5° | 1837.2 | 1832.8 | 1849.7 | 1849.0 | 1851.9 | 1776.2 | 1606.4 | 1566.7 | 1549.0 | 1597.5 | 1505.6 |
| 50° | 1916.6 | 1923.2 | 1960.0 | 1997.5 | 2049.7 | 1995.3 | 1779.1 | 1739.4 | 1718.9 | 1779.1 | 1688.0 |
| 52.5° | 1957.8 | 1966.6 | 2015.9 | 2121.0 | 2232.0 | 2206.3 | 1987.2 | 1943.1 | 1925.4 | 1984.3 | 1883.5 |
| 55° | 1961.5 | 1966.6 | 2032.8 | 2196.0 | 2371.0 | 2379.0 | 2224.7 | 2182.8 | 2158.5 | 2196.7 | 2096.7 |
| 57.5° | 1900.4 | 1885.0 | 1999.0 | 2207.0 | 2459.9 | 2559.2 | 2485.6 | 2455.5 | 2387.1 | 2428.3 | 2361.4 |
| 60° | 1791.6 | 1807.1 | 1918.8 | 2161.4 | 2497.4 | 2699.6 | 2747.4 | 2701.8 | 2622.4 | 2639.3 | 2646.6 |
| 62.5° | 1627.0 | 1646.8 | 1763.0 | 2055.6 | 2467.3 | 2818.7 | 2989.2 | 2966.5 | 2859.9 | 2851.0 | 2864.3 |
| 65° | 1392.4 | 1380.7 | 1510.1 | 1824.0 | 2324.6 | 2858.4 | 3226.7 | 3217.1 | 3090.0 | 2986.3 | 2991.4 |
| 67.5° | 1004.3 | 993.2 | 1083.7 | 1407.9 | 1938.7 | 2710.6 | 3353.2 | 3374.5 | 3228.9 | 3045.9 | 2966.5 |
| 68° | 911.6 | 896.2 | 986.6 | 1301.3 | 1839.4 | 2625.3 | 3346.5 | 3383.3 | 3239.2 | 3042.2 | 2935.6 |
| 70° | 524.9 | 499.9 | 587.4 | 849.1 | 1354.2 | 2210.0 | 3211.3 | 3312.7 | 3214.9 | 2970.9 | 2733.4 |
| 72.5° | 164.7 | 164.7 | 227.2 | 343.3 | 664.6 | 1398.3 | 2747.4 | 2920.1 | 2940.7 | 2700.3 | 2271.7 |
| 75° | 102.9 | 102.9 | 118.4 | 162.5 | 264.7 | 593.3 | 1895.3 | 2158.5 | 2336.4 | 2273.2 | 1656.4 |
| 77.5° | 69.8 | 68.4 | 78.7 | 100.7 | 147.8 | 190.4 | 951.3 | 1168.9 | 1429.2 | 1552.0 | 969.0 |
| 80° | 38.2 | 39.0 | 48.5 | 60.3 | 83.8 | 88.2 | 279.4 | 394.8 | 629.3 | 737.4 | 367.6 |
| 82.5° | 22.1 | 21.3 | 23.5 | 26.5 | 36.8 | 38.2 | 80.1 | 98.5 | 164.7 | 152.9 | 98.5 |
| 85° | 0.0 | 0.7 | 0.7 | 0.7 | 1.5 | 3.7 | 10.3 | 15.4 | 25.0 | 34.6 | 24.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 |
| 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° | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 | 632.3 |
| 2.5° | 633.0 | 635.2 | 638.9 | 641.8 | 643.3 | 641.8 | 647.0 | 646.2 | 647.7 | 647.7 | 649.2 |
| 5° | 639.6 | 642.5 | 649.2 | 652.8 | 656.5 | 658.0 | 663.9 | 665.3 | 668.3 | 669.7 | 669.0 |
| 7.5° | 649.2 | 652.8 | 660.9 | 667.5 | 672.7 | 676.4 | 685.9 | 690.3 | 694.7 | 696.2 | 697.7 |
| 10° | 666.8 | 672.0 | 680.8 | 688.9 | 696.2 | 701.4 | 709.4 | 715.3 | 719.7 | 721.2 | 722.7 |
| 12.5° | 690.3 | 696.2 | 707.2 | 718.3 | 726.4 | 729.3 | 728.6 | 727.1 | 727.1 | 726.4 | 727.1 |
| 15° | 717.5 | 723.4 | 737.4 | 747.7 | 748.4 | 738.9 | 725.6 | 719.0 | 717.5 | 717.5 | 718.3 |
| 17.5° | 749.1 | 756.5 | 765.3 | 771.2 | 757.2 | 733.7 | 718.3 | 711.7 | 710.2 | 709.4 | 708.0 |
| 20° | 785.2 | 789.6 | 792.5 | 785.2 | 754.3 | 727.1 | 709.4 | 699.9 | 692.5 | 691.8 | 688.9 |
| 22.5° | 823.4 | 821.9 | 818.3 | 791.8 | 746.2 | 711.7 | 687.4 | 669.7 | 660.2 | 659.5 | 656.5 |
| 25° | 851.3 | 845.5 | 834.4 | 793.3 | 731.5 | 686.7 | 652.1 | 624.2 | 611.7 | 605.8 | 607.3 |
| 27.5° | 869.7 | 857.2 | 838.1 | 785.9 | 705.8 | 648.4 | 599.9 | 563.1 | 544.8 | 541.8 | 544.0 |
| 30° | 891.8 | 871.9 | 841.0 | 767.5 | 669.0 | 594.8 | 531.5 | 494.8 | 484.5 | 479.3 | 480.8 |
| 32.5° | 918.2 | 892.5 | 850.6 | 739.6 | 622.7 | 532.3 | 463.9 | 438.2 | 426.4 | 416.8 | 419.8 |
| 35° | 952.8 | 920.4 | 866.0 | 699.9 | 563.9 | 466.1 | 415.4 | 391.9 | 370.5 | 360.2 | 361.0 |
| 37.5° | 993.2 | 956.5 | 879.3 | 653.6 | 499.9 | 416.1 | 373.5 | 345.5 | 319.1 | 299.2 | 295.5 |
| 40° | 1057.9 | 1027.8 | 890.3 | 602.1 | 438.9 | 374.9 | 332.3 | 300.7 | 275.7 | 255.8 | 253.6 |
| 42.5° | 1166.0 | 1113.8 | 891.0 | 540.4 | 386.7 | 339.7 | 298.5 | 263.9 | 236.0 | 219.1 | 218.3 |
| 45° | 1293.2 | 1212.3 | 875.6 | 474.2 | 341.1 | 304.4 | 268.3 | 229.4 | 213.2 | 202.2 | 200.7 |
| 47.5° | 1443.9 | 1325.5 | 841.8 | 412.4 | 302.2 | 269.8 | 237.5 | 213.9 | 202.2 | 194.1 | 194.1 |
| 50° | 1615.9 | 1458.6 | 808.0 | 359.5 | 264.7 | 241.9 | 219.8 | 207.3 | 198.5 | 191.1 | 190.4 |
| 52.5° | 1810.0 | 1615.9 | 796.9 | 305.8 | 233.8 | 216.1 | 213.9 | 202.2 | 194.8 | 189.7 | 188.2 |
| 55° | 2041.6 | 1792.4 | 807.2 | 263.9 | 209.5 | 205.9 | 210.3 | 200.7 | 195.6 | 187.5 | 185.3 |
| 57.5° | 2309.2 | 1964.4 | 796.2 | 228.6 | 192.6 | 196.3 | 205.9 | 200.7 | 196.3 | 186.0 | 183.1 |
| 60° | 2561.4 | 2118.1 | 721.2 | 199.2 | 176.4 | 184.5 | 200.0 | 194.1 | 187.5 | 185.3 | 183.8 |
| 62.5° | 2696.6 | 2168.0 | 574.9 | 176.4 | 163.9 | 172.8 | 190.4 | 183.1 | 178.6 | 183.8 | 184.5 |
| 65° | 2698.1 | 2111.4 | 422.7 | 159.5 | 153.7 | 162.5 | 180.9 | 178.6 | 181.6 | 193.4 | 195.6 |
| 67.5° | 2548.1 | 1939.4 | 298.5 | 144.1 | 143.4 | 154.4 | 185.3 | 200.0 | 202.2 | 213.9 | 213.9 |
| 68° | 2496.7 | 1896.8 | 277.2 | 141.9 | 141.2 | 154.4 | 188.9 | 203.6 | 205.1 | 216.1 | 215.4 |
| 70° | 2214.4 | 1603.4 | 200.7 | 133.1 | 137.5 | 165.4 | 208.8 | 213.9 | 205.1 | 217.6 | 216.9 |
| 72.5° | 1730.6 | 1185.8 | 150.0 | 123.5 | 130.9 | 163.2 | 210.3 | 205.1 | 191.9 | 194.8 | 191.1 |
| 75° | 1169.7 | 755.8 | 123.5 | 113.2 | 116.2 | 138.2 | 191.1 | 193.4 | 177.9 | 175.0 | 170.6 |
| 77.5° | 612.4 | 354.4 | 100.0 | 100.7 | 103.7 | 119.8 | 170.6 | 175.7 | 161.7 | 152.9 | 151.4 |
| 80° | 225.7 | 140.4 | 81.6 | 89.0 | 90.4 | 105.1 | 146.3 | 154.4 | 141.2 | 134.5 | 133.1 |
| 82.5° | 82.3 | 69.8 | 67.6 | 77.9 | 76.5 | 89.7 | 127.9 | 133.8 | 119.8 | 113.2 | 109.5 |
| 85° | 22.8 | 25.7 | 42.6 | 61.0 | 59.5 | 69.8 | 102.9 | 108.1 | 96.3 | 79.4 | 77.2 |
| 87.5° | 1.5 | 5.1 | 16.9 | 36.0 | 37.5 | 43.4 | 74.3 | 81.6 | 71.3 | 58.8 | 58.1 |
| 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)