

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: P401328

Luminaire Tested: **ENT-SA1C-740-U-T2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1C-740-U-T2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4490 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

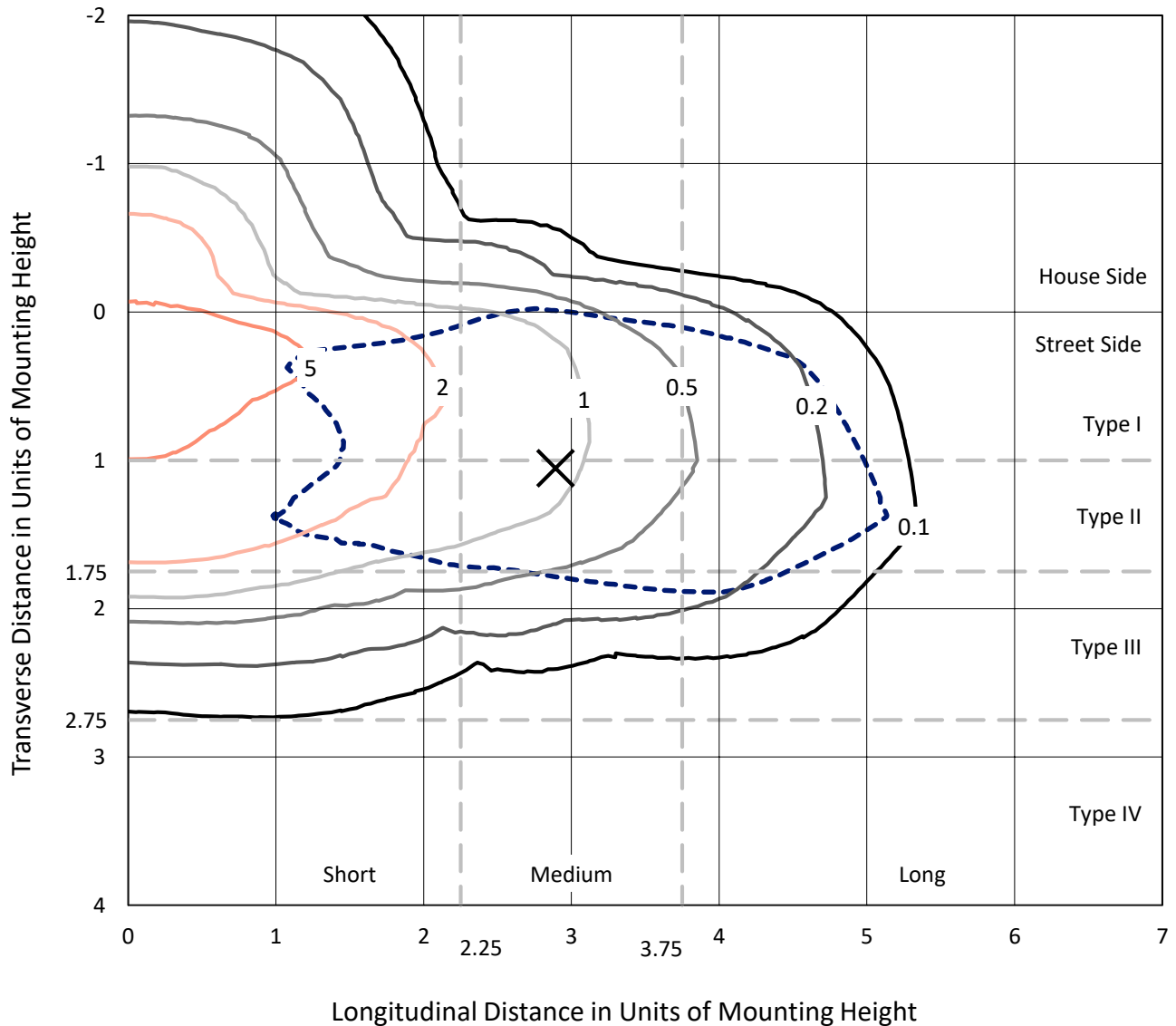
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

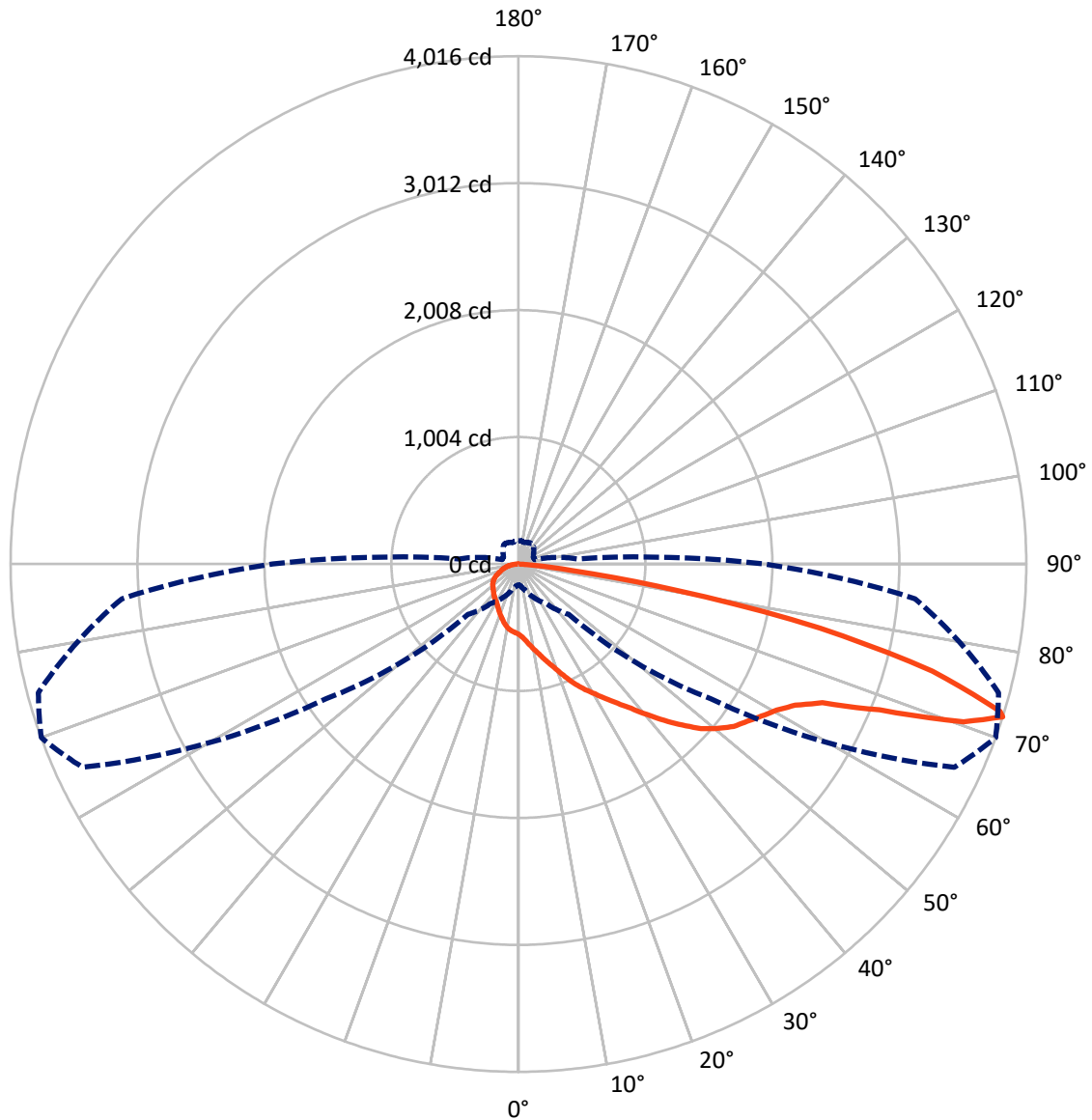
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 834.3 | 0.0 | 834.3 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 3655.7 | 0.0 | 3655.7 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 4490.0 | 0.0 | 4490.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.9 | 1.2 |
| 10°-20° | 179.3 | 4.0 |
| 20°-30° | 317.5 | 7.1 |
| 30°-40° | 472.1 | 10.5 |
| 40°-50° | 684.9 | 15.3 |
| 50°-60° | 935.7 | 20.8 |
| 60°-70° | 1024.4 | 22.8 |
| 70°-80° | 728.7 | 16.2 |
| 80°-90° | 91.5 | 2.0 |
| 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° | 4490.0 | 100.0 |
| 0°-180° | 4490.0 | 100.0 |



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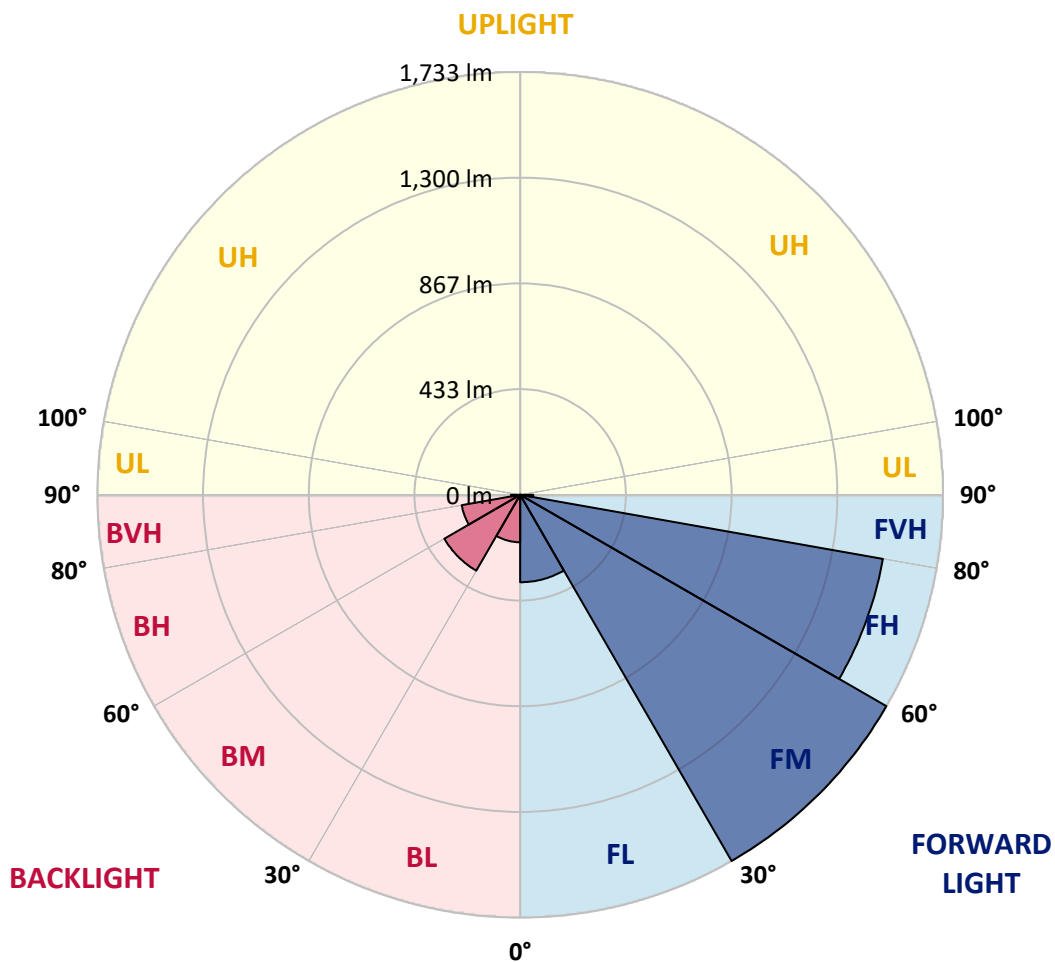
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 358.4 | 8.0 | | | |
| FM | (30°-60°) | 1733.4 | 38.6 | | | |
| FH | (60°-80°) | 1509.9 | 33.6 | | | G1/1800 |
| FVH | (80°-90°) | 54.0 | 1.2 | | | G1/100 |
| BL | (0°-30°) | 194.4 | 4.3 | B1/500 | | |
| BM | (30°-60°) | 359.2 | 8.0 | B1/1000 | | |
| BH | (60°-80°) | 243.2 | 5.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 37.4 | 0.8 | | | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 |
| 2.5° | 618.3 | 615.1 | 615.7 | 609.9 | 606.7 | 599.0 | 590.7 | 581.7 | 577.2 | 574.0 | 563.1 |
| 5° | 678.6 | 678.6 | 681.1 | 676.6 | 664.4 | 651.6 | 636.9 | 617.0 | 608.6 | 597.1 | 575.3 |
| 7.5° | 728.6 | 729.9 | 729.9 | 728.6 | 717.7 | 703.6 | 684.3 | 660.0 | 646.5 | 629.8 | 595.8 |
| 10° | 754.2 | 757.4 | 760.0 | 761.9 | 760.6 | 752.3 | 730.5 | 705.5 | 686.9 | 665.1 | 619.5 |
| 12.5° | 767.1 | 768.3 | 772.8 | 782.5 | 790.1 | 796.6 | 780.5 | 751.0 | 732.4 | 706.1 | 645.2 |
| 15° | 781.2 | 781.2 | 785.7 | 797.8 | 812.6 | 829.9 | 828.0 | 804.9 | 785.0 | 752.3 | 677.9 |
| 17.5° | 790.1 | 792.7 | 801.1 | 813.9 | 834.4 | 863.3 | 878.0 | 865.2 | 839.5 | 804.9 | 713.2 |
| 20° | 785.0 | 786.9 | 803.6 | 828.6 | 854.9 | 892.1 | 929.3 | 929.3 | 905.0 | 865.2 | 752.3 |
| 22.5° | 794.6 | 797.8 | 809.4 | 833.1 | 869.0 | 917.1 | 978.1 | 999.2 | 978.1 | 934.5 | 797.8 |
| 25° | 831.8 | 830.6 | 840.2 | 849.8 | 880.6 | 940.2 | 1019.8 | 1074.3 | 1055.0 | 1006.9 | 842.1 |
| 27.5° | 885.7 | 885.7 | 890.8 | 890.2 | 901.1 | 959.5 | 1056.3 | 1140.3 | 1124.3 | 1066.6 | 878.7 |
| 30° | 947.9 | 949.2 | 947.9 | 947.3 | 945.4 | 985.8 | 1089.0 | 1199.3 | 1191.0 | 1133.9 | 912.0 |
| 32.5° | 1023.6 | 1026.8 | 1021.7 | 1008.9 | 1001.2 | 1023.6 | 1116.6 | 1265.4 | 1268.0 | 1200.6 | 944.7 |
| 35° | 1118.5 | 1123.7 | 1104.4 | 1085.8 | 1066.6 | 1076.8 | 1148.7 | 1327.6 | 1353.3 | 1276.3 | 984.5 |
| 37.5° | 1213.4 | 1221.8 | 1218.6 | 1168.5 | 1141.6 | 1141.0 | 1196.1 | 1405.2 | 1448.2 | 1375.1 | 1040.9 |
| 40° | 1293.6 | 1300.7 | 1304.5 | 1259.0 | 1221.8 | 1220.5 | 1266.0 | 1486.0 | 1564.9 | 1488.6 | 1107.6 |
| 42.5° | 1346.8 | 1353.3 | 1364.8 | 1337.9 | 1303.2 | 1319.3 | 1343.0 | 1566.2 | 1690.6 | 1627.1 | 1189.7 |
| 45° | 1404.6 | 1409.7 | 1416.8 | 1401.4 | 1383.4 | 1429.6 | 1440.5 | 1655.3 | 1816.3 | 1775.9 | 1285.9 |
| 47.5° | 1466.1 | 1471.3 | 1475.1 | 1463.6 | 1457.2 | 1521.9 | 1536.0 | 1746.4 | 1943.3 | 1929.8 | 1379.6 |
| 50° | 1534.1 | 1536.0 | 1539.9 | 1534.1 | 1536.0 | 1606.0 | 1614.9 | 1826.6 | 2044.0 | 2090.2 | 1477.0 |
| 52.5° | 1650.8 | 1653.4 | 1654.7 | 1627.1 | 1617.5 | 1659.2 | 1678.4 | 1911.9 | 2132.5 | 2223.6 | 1563.0 |
| 55° | 1743.2 | 1752.2 | 1792.6 | 1774.6 | 1751.5 | 1697.0 | 1731.0 | 1980.5 | 2195.4 | 2348.0 | 1652.8 |
| 57.5° | 1667.5 | 1688.0 | 1788.7 | 1873.4 | 1938.2 | 1808.0 | 1793.2 | 2051.1 | 2267.8 | 2455.1 | 1757.3 |
| 60° | 1447.5 | 1477.7 | 1623.9 | 1800.3 | 2010.0 | 2062.6 | 1920.9 | 2138.9 | 2346.7 | 2566.7 | 1869.5 |
| 62.5° | 1003.7 | 1034.5 | 1236.5 | 1518.1 | 1888.8 | 2208.2 | 2270.4 | 2294.8 | 2456.4 | 2680.9 | 2015.8 |
| 65° | 481.0 | 512.4 | 679.2 | 976.1 | 1491.8 | 2114.5 | 2677.7 | 2618.0 | 2641.1 | 2825.8 | 2231.3 |
| 67.5° | 305.9 | 322.6 | 388.0 | 531.7 | 867.8 | 1647.0 | 2823.9 | 3261.9 | 3078.5 | 3160.0 | 2660.3 |
| 70° | 223.8 | 227.7 | 284.1 | 368.1 | 515.0 | 962.0 | 2493.6 | 3878.3 | 3734.6 | 3725.6 | 3177.9 |
| 72° | 165.5 | 171.9 | 215.5 | 293.7 | 381.0 | 562.5 | 1855.4 | 3803.2 | 4015.5 | 3930.2 | 3147.1 |
| 72.5° | 155.8 | 161.0 | 198.8 | 277.7 | 359.8 | 493.8 | 1662.4 | 3716.0 | 3980.9 | 3936.0 | 3088.1 |
| 75° | 113.5 | 117.4 | 136.0 | 197.5 | 278.3 | 286.0 | 887.6 | 2852.1 | 3380.6 | 3757.7 | 2799.5 |
| 77.5° | 78.2 | 80.8 | 90.4 | 121.2 | 190.5 | 193.7 | 376.5 | 1947.2 | 2439.7 | 3004.7 | 2153.0 |
| 80° | 47.5 | 48.7 | 54.5 | 66.1 | 121.2 | 114.8 | 155.2 | 1017.8 | 1273.1 | 1633.5 | 998.6 |
| 82.5° | 19.9 | 20.5 | 23.7 | 26.3 | 51.3 | 54.5 | 62.9 | 332.2 | 421.4 | 510.5 | 288.0 |
| 85° | 0.0 | 0.0 | 0.6 | 0.6 | 1.3 | 5.8 | 9.0 | 41.0 | 62.2 | 74.4 | 51.9 |
| 87.5° | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.3 | 1.3 | 1.9 | 2.6 | 2.6 | 3.8 |
| 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° | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 | 556.1 |
| 2.5° | 558.0 | 555.4 | 547.7 | 541.3 | 536.2 | 527.8 | 527.2 | 520.8 | 520.8 | 518.9 | 517.6 |
| 5° | 567.0 | 558.6 | 543.2 | 529.1 | 518.9 | 506.7 | 500.9 | 493.8 | 489.4 | 486.8 | 487.4 |
| 7.5° | 578.5 | 564.4 | 538.1 | 514.4 | 495.1 | 479.7 | 470.8 | 465.0 | 461.8 | 460.5 | 460.5 |
| 10° | 594.5 | 572.7 | 529.8 | 493.8 | 469.5 | 457.9 | 453.4 | 452.8 | 453.4 | 454.1 | 454.7 |
| 12.5° | 612.5 | 578.5 | 514.4 | 469.5 | 450.2 | 445.7 | 448.3 | 454.1 | 459.2 | 461.1 | 461.1 |
| 15° | 631.1 | 582.3 | 493.2 | 447.0 | 435.5 | 440.0 | 448.9 | 459.9 | 468.2 | 473.3 | 474.6 |
| 17.5° | 650.3 | 583.0 | 470.8 | 426.5 | 422.7 | 434.2 | 450.2 | 467.5 | 481.0 | 489.4 | 490.6 |
| 20° | 670.9 | 581.7 | 444.5 | 407.9 | 409.8 | 429.1 | 451.5 | 475.2 | 493.2 | 504.1 | 505.4 |
| 22.5° | 693.3 | 576.6 | 418.8 | 389.9 | 398.9 | 423.9 | 450.2 | 477.8 | 497.0 | 509.9 | 512.4 |
| 25° | 715.1 | 566.3 | 393.2 | 373.9 | 391.2 | 418.8 | 443.8 | 467.5 | 486.1 | 498.3 | 501.5 |
| 27.5° | 726.7 | 544.5 | 368.8 | 361.7 | 385.5 | 411.1 | 429.1 | 445.1 | 455.4 | 463.1 | 466.3 |
| 30° | 728.6 | 513.7 | 348.9 | 353.4 | 379.0 | 400.2 | 410.5 | 413.0 | 411.1 | 413.7 | 410.5 |
| 32.5° | 724.7 | 480.4 | 332.9 | 347.0 | 368.8 | 384.8 | 387.4 | 379.7 | 368.1 | 352.1 | 352.7 |
| 35° | 722.2 | 443.8 | 320.0 | 338.0 | 355.3 | 365.6 | 361.1 | 348.9 | 327.1 | 307.9 | 306.6 |
| 37.5° | 726.7 | 410.5 | 309.1 | 326.4 | 338.0 | 342.5 | 336.1 | 320.0 | 300.8 | 284.1 | 282.2 |
| 40° | 739.5 | 386.1 | 298.9 | 313.6 | 319.4 | 322.6 | 314.9 | 300.8 | 293.1 | 280.9 | 279.0 |
| 42.5° | 764.5 | 369.4 | 289.3 | 299.5 | 302.1 | 305.3 | 297.6 | 288.0 | 295.0 | 292.5 | 292.5 |
| 45° | 799.1 | 361.7 | 280.9 | 286.0 | 288.6 | 293.7 | 289.3 | 280.9 | 288.6 | 273.9 | 271.3 |
| 47.5° | 844.0 | 364.3 | 275.1 | 272.6 | 280.3 | 289.3 | 284.1 | 273.9 | 271.3 | 245.0 | 240.5 |
| 50° | 891.5 | 377.8 | 269.4 | 261.7 | 271.3 | 283.5 | 277.1 | 261.0 | 245.6 | 232.2 | 229.6 |
| 52.5° | 947.3 | 400.2 | 264.2 | 249.5 | 261.0 | 277.1 | 272.6 | 255.3 | 239.2 | 229.6 | 227.7 |
| 55° | 1008.9 | 422.0 | 257.8 | 235.4 | 247.6 | 275.1 | 273.9 | 251.4 | 230.2 | 225.8 | 224.5 |
| 57.5° | 1078.1 | 440.0 | 250.1 | 219.3 | 234.1 | 269.4 | 268.1 | 242.4 | 227.7 | 223.8 | 223.2 |
| 60° | 1164.7 | 461.1 | 236.7 | 200.7 | 220.6 | 258.5 | 257.2 | 237.9 | 221.9 | 218.7 | 217.4 |
| 62.5° | 1282.7 | 500.3 | 213.6 | 183.4 | 206.5 | 239.2 | 246.9 | 229.0 | 213.6 | 212.9 | 212.9 |
| 65° | 1477.0 | 575.9 | 189.8 | 168.7 | 190.5 | 220.6 | 233.5 | 218.7 | 205.9 | 209.1 | 209.1 |
| 67.5° | 1844.5 | 677.9 | 165.5 | 154.6 | 175.1 | 202.7 | 221.9 | 208.4 | 197.5 | 204.0 | 204.0 |
| 70° | 2128.0 | 640.1 | 146.2 | 141.1 | 159.7 | 186.6 | 207.2 | 197.5 | 187.3 | 198.2 | 196.9 |
| 72° | 1941.4 | 468.8 | 133.4 | 130.2 | 146.9 | 173.2 | 194.3 | 187.3 | 176.4 | 185.4 | 182.8 |
| 72.5° | 1863.8 | 425.9 | 129.6 | 127.0 | 143.0 | 170.6 | 191.8 | 184.7 | 173.2 | 182.1 | 178.3 |
| 75° | 1625.8 | 359.2 | 112.9 | 111.6 | 127.0 | 153.3 | 175.1 | 171.2 | 159.7 | 164.8 | 161.0 |
| 77.5° | 1345.6 | 302.7 | 94.9 | 97.5 | 108.4 | 136.6 | 157.8 | 153.9 | 143.0 | 142.4 | 141.7 |
| 80° | 631.1 | 168.7 | 78.2 | 80.2 | 91.1 | 116.7 | 136.0 | 133.4 | 123.1 | 121.9 | 119.9 |
| 82.5° | 182.8 | 80.8 | 60.3 | 61.6 | 73.1 | 95.6 | 116.7 | 115.4 | 107.7 | 105.8 | 101.3 |
| 85° | 34.0 | 26.3 | 32.7 | 38.5 | 53.2 | 79.5 | 106.5 | 103.9 | 92.4 | 84.0 | 77.6 |
| 87.5° | 1.9 | 5.1 | 10.9 | 18.6 | 34.0 | 59.6 | 85.9 | 84.0 | 73.8 | 63.5 | 64.1 |
| 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)