

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: P401246

Luminaire Tested: **ENC-SA1C-722-U-T3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401246
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: ENC-SA1C-722-U-T3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3376 lumens
Efficiency: N/A
Efficacy: 101.4 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

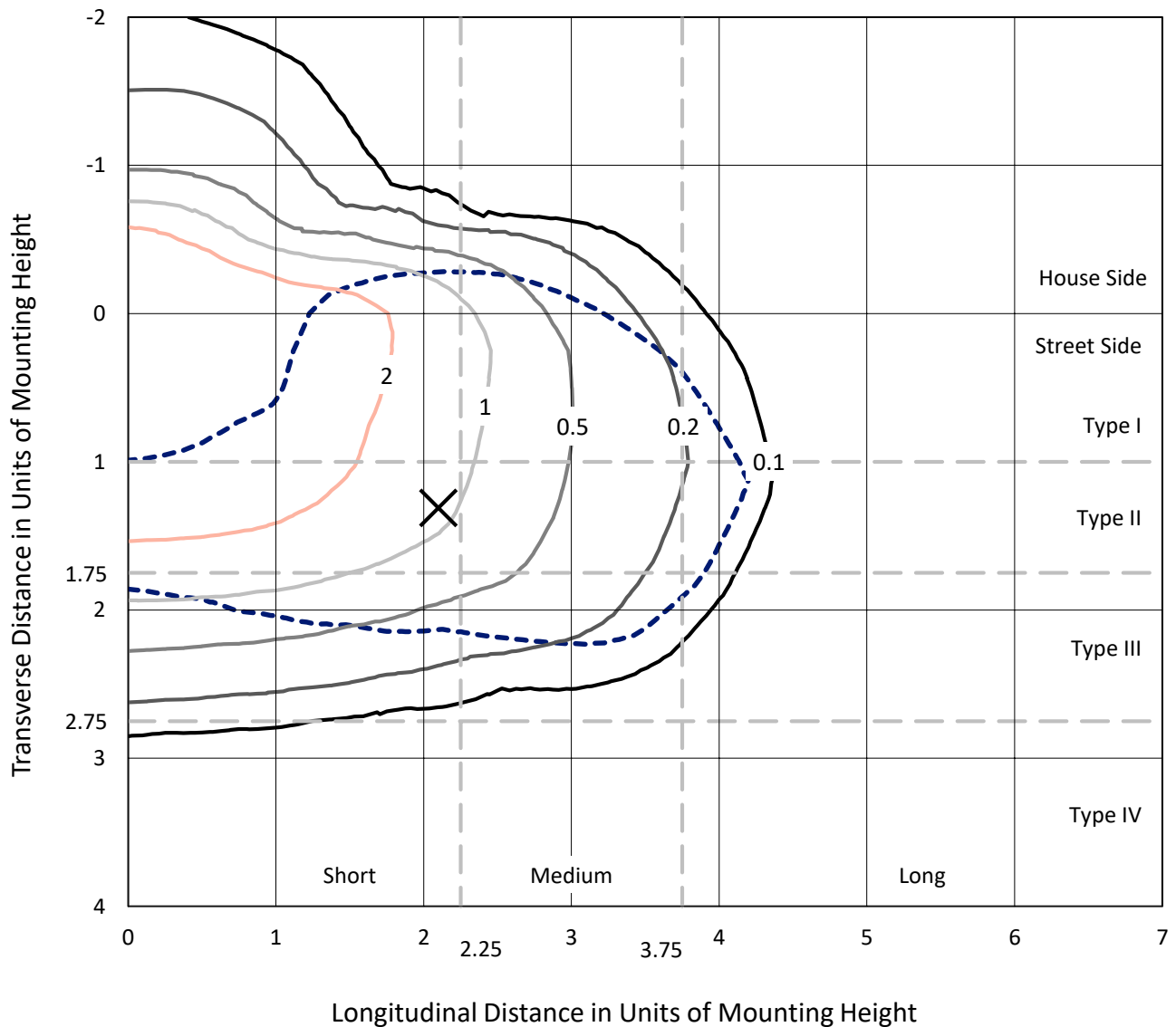
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

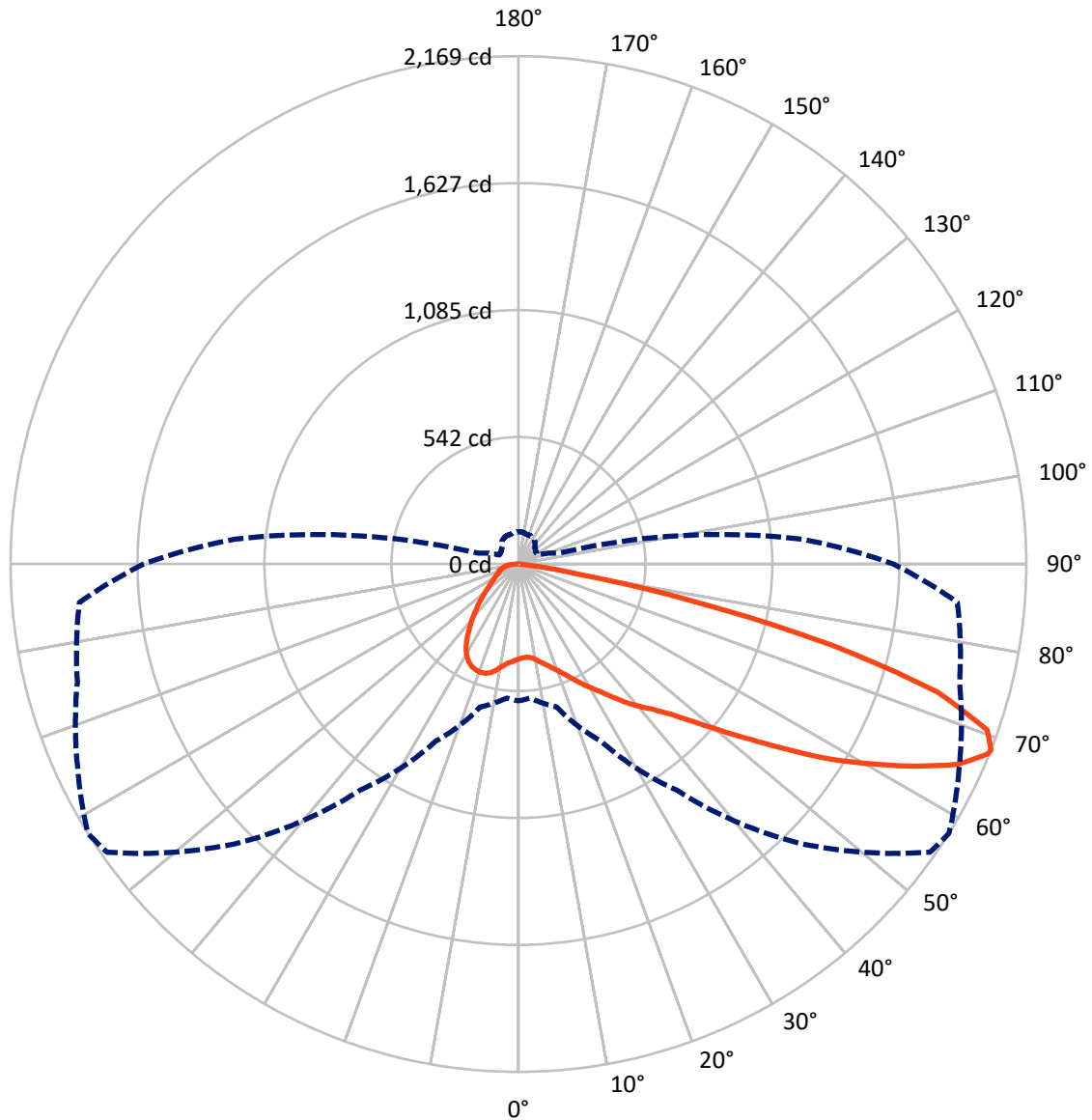
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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 | 790.5 | 0.0 | 790.5 |
| | % Fixture | 23.4 | 0.0 | 23.4 |
| Street Side | Lumens | 2585.5 | 0.0 | 2585.5 |
| | % Fixture | 76.6 | 0.0 | 76.6 |
| Total | Lumens | 3376.0 | 0.0 | 3376.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 39.9 | 1.2 |
| 10°-20° | 130.6 | 3.9 |
| 20°-30° | 234.9 | 7.0 |
| 30°-40° | 345.0 | 10.2 |
| 40°-50° | 506.0 | 15.0 |
| 50°-60° | 756.4 | 22.4 |
| 60°-70° | 884.5 | 26.2 |
| 70°-80° | 436.1 | 12.9 |
| 80°-90° | 42.6 | 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° | 3376.0 | 100.0 |
| 0°-180° | 3376.0 | 100.0 |



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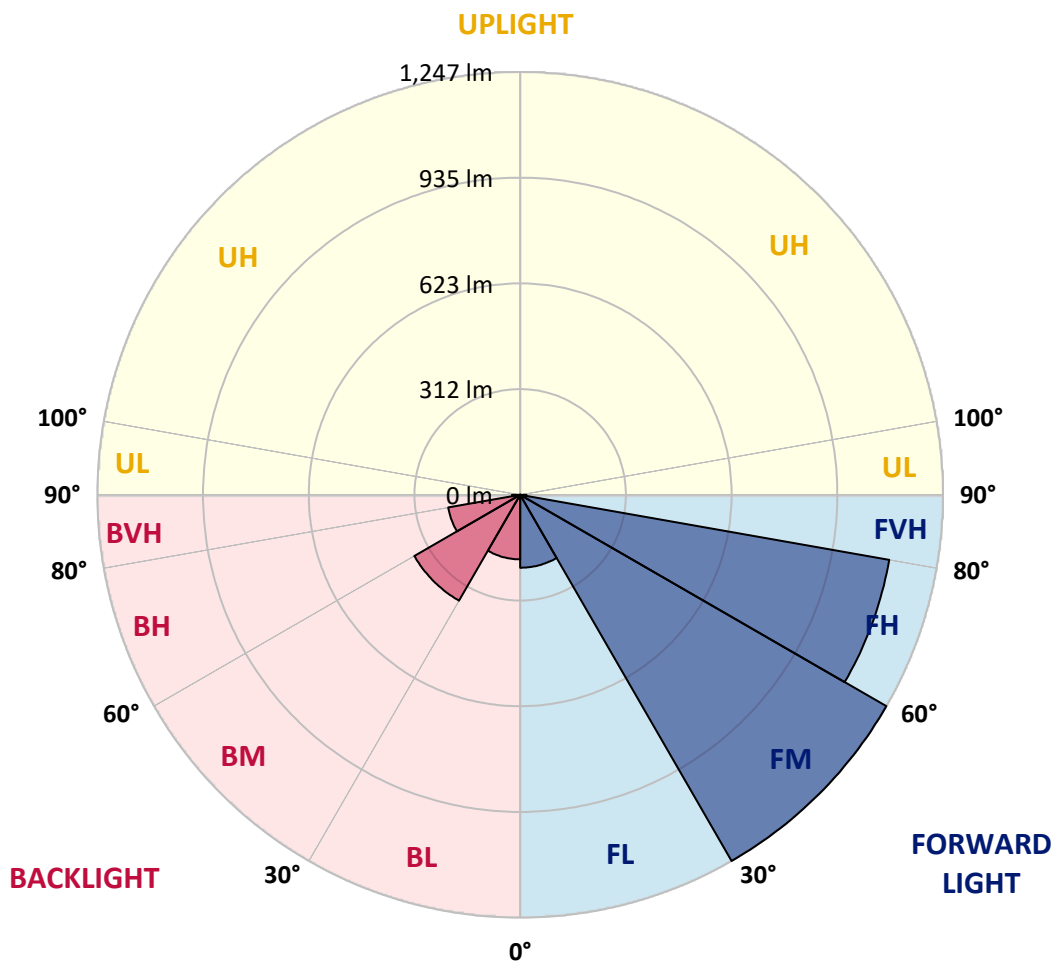
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 215.1 | 6.4 | | | |
| FM (30°-60°) | 1247.0 | 36.9 | | | |
| FH (60°-80°) | 1105.2 | 32.7 | | | G1/1800 |
| FVH (80°-90°) | 18.3 | 0.5 | | | G1/100 |
| BL (0°-30°) | 190.3 | 5.6 | B1/500 | | |
| BM (30°-60°) | 360.5 | 10.7 | B1/1000 | | |
| BH (60°-80°) | 215.4 | 6.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 24.2 | 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° | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 |
| 2.5° | 395.5 | 395.5 | 396.9 | 397.4 | 398.3 | 399.3 | 400.2 | 400.7 | 402.1 | 404.0 | 404.9 |
| 5° | 392.2 | 392.7 | 393.6 | 394.1 | 395.5 | 397.4 | 398.8 | 399.8 | 402.1 | 405.9 | 408.2 |
| 7.5° | 399.8 | 401.2 | 401.6 | 402.1 | 402.6 | 404.0 | 404.0 | 404.5 | 406.8 | 410.6 | 413.9 |
| 10° | 412.0 | 413.0 | 414.4 | 415.8 | 417.2 | 418.1 | 415.3 | 415.8 | 416.7 | 420.5 | 425.2 |
| 12.5° | 427.6 | 427.6 | 428.0 | 429.9 | 431.3 | 434.2 | 431.3 | 431.3 | 431.3 | 434.6 | 440.3 |
| 15° | 445.0 | 444.1 | 444.1 | 446.0 | 446.4 | 448.3 | 446.9 | 446.9 | 448.8 | 452.1 | 457.7 |
| 17.5° | 464.8 | 466.2 | 464.8 | 463.9 | 462.5 | 463.4 | 464.3 | 465.3 | 469.1 | 474.2 | 477.5 |
| 20° | 493.6 | 495.9 | 495.0 | 491.2 | 485.1 | 482.3 | 485.6 | 487.4 | 495.0 | 501.1 | 501.6 |
| 22.5° | 539.3 | 537.9 | 536.5 | 529.9 | 517.6 | 510.1 | 510.5 | 513.4 | 525.1 | 534.6 | 529.9 |
| 25° | 581.7 | 583.1 | 583.1 | 573.7 | 557.7 | 542.1 | 543.5 | 544.9 | 556.7 | 565.2 | 552.5 |
| 27.5° | 633.1 | 632.2 | 631.7 | 619.0 | 599.6 | 584.5 | 576.5 | 580.3 | 588.8 | 592.1 | 567.6 |
| 30° | 686.4 | 690.1 | 686.4 | 668.5 | 650.1 | 630.7 | 614.7 | 613.8 | 618.0 | 617.5 | 585.5 |
| 32.5° | 750.5 | 747.2 | 745.8 | 725.0 | 701.9 | 676.5 | 656.2 | 652.9 | 650.5 | 647.2 | 606.7 |
| 35° | 800.0 | 804.2 | 804.2 | 786.3 | 759.0 | 734.0 | 702.4 | 699.6 | 693.9 | 683.1 | 634.5 |
| 37.5° | 858.4 | 857.5 | 860.8 | 840.1 | 812.7 | 788.7 | 759.4 | 751.4 | 738.7 | 722.7 | 667.5 |
| 40° | 915.5 | 917.8 | 925.4 | 900.4 | 875.4 | 856.6 | 815.1 | 800.5 | 781.1 | 766.5 | 715.6 |
| 42.5° | 993.3 | 996.6 | 999.4 | 978.6 | 948.9 | 932.0 | 867.9 | 849.5 | 838.6 | 835.8 | 779.2 |
| 45° | 1087.5 | 1093.2 | 1095.6 | 1076.7 | 1059.7 | 1019.2 | 934.3 | 917.4 | 905.6 | 917.8 | 866.0 |
| 47.5° | 1178.1 | 1175.2 | 1186.1 | 1185.6 | 1187.5 | 1138.9 | 1030.0 | 1004.6 | 993.3 | 1024.4 | 965.4 |
| 50° | 1229.0 | 1233.2 | 1256.8 | 1280.8 | 1314.3 | 1279.4 | 1140.8 | 1115.4 | 1102.2 | 1140.8 | 1082.4 |
| 52.5° | 1255.4 | 1261.0 | 1292.6 | 1360.0 | 1431.2 | 1414.7 | 1274.2 | 1245.9 | 1234.6 | 1272.3 | 1207.8 |
| 55° | 1257.7 | 1261.0 | 1303.4 | 1408.1 | 1520.3 | 1525.5 | 1426.5 | 1399.6 | 1384.1 | 1408.6 | 1344.5 |
| 57.5° | 1218.6 | 1208.7 | 1281.8 | 1415.2 | 1577.3 | 1641.0 | 1593.8 | 1574.5 | 1530.7 | 1557.1 | 1514.2 |
| 60° | 1148.8 | 1158.7 | 1230.4 | 1385.9 | 1601.4 | 1731.0 | 1761.7 | 1732.4 | 1681.5 | 1692.4 | 1697.1 |
| 62.5° | 1043.2 | 1056.0 | 1130.4 | 1318.1 | 1582.0 | 1807.4 | 1916.7 | 1902.1 | 1833.8 | 1828.1 | 1836.6 |
| 65° | 892.8 | 885.3 | 968.3 | 1169.6 | 1490.6 | 1832.8 | 2069.0 | 2062.9 | 1981.3 | 1914.9 | 1918.2 |
| 67.5° | 643.9 | 636.9 | 694.9 | 902.7 | 1243.1 | 1738.1 | 2150.1 | 2163.8 | 2070.4 | 1953.0 | 1902.1 |
| 68° | 584.5 | 574.6 | 632.6 | 834.4 | 1179.5 | 1683.4 | 2145.9 | 2169.4 | 2077.0 | 1950.7 | 1882.3 |
| 70° | 336.6 | 320.6 | 376.7 | 544.5 | 868.3 | 1417.1 | 2059.1 | 2124.2 | 2061.5 | 1905.0 | 1752.7 |
| 72.5° | 105.6 | 105.6 | 145.7 | 220.1 | 426.2 | 896.6 | 1761.7 | 1872.4 | 1885.6 | 1731.5 | 1456.7 |
| 75° | 66.0 | 66.0 | 75.9 | 104.2 | 169.7 | 380.4 | 1215.3 | 1384.1 | 1498.1 | 1457.6 | 1062.1 |
| 77.5° | 44.8 | 43.8 | 50.4 | 64.6 | 94.8 | 122.1 | 610.0 | 749.5 | 916.4 | 995.1 | 621.3 |
| 80° | 24.5 | 25.0 | 31.1 | 38.7 | 53.7 | 56.6 | 179.1 | 253.1 | 403.5 | 472.8 | 235.7 |
| 82.5° | 14.1 | 13.7 | 15.1 | 17.0 | 23.6 | 24.5 | 51.4 | 63.2 | 105.6 | 98.1 | 63.2 |
| 85° | 0.0 | 0.5 | 0.5 | 0.5 | 0.9 | 2.4 | 6.6 | 9.9 | 16.0 | 22.2 | 15.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 1.4 |
| 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° | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 | 405.4 |
| 2.5° | 405.9 | 407.3 | 409.7 | 411.5 | 412.5 | 411.5 | 414.8 | 414.4 | 415.3 | 415.3 | 416.3 |
| 5° | 410.1 | 412.0 | 416.3 | 418.6 | 421.0 | 421.9 | 425.7 | 426.6 | 428.5 | 429.5 | 429.0 |
| 7.5° | 416.3 | 418.6 | 423.8 | 428.0 | 431.3 | 433.7 | 439.8 | 442.7 | 445.5 | 446.4 | 447.4 |
| 10° | 427.6 | 430.9 | 436.5 | 441.7 | 446.4 | 449.7 | 454.9 | 458.7 | 461.5 | 462.5 | 463.4 |
| 12.5° | 442.7 | 446.4 | 453.5 | 460.6 | 465.8 | 467.6 | 467.2 | 466.2 | 466.2 | 465.8 | 466.2 |
| 15° | 460.1 | 463.9 | 472.8 | 479.4 | 479.9 | 473.8 | 465.3 | 461.0 | 460.1 | 460.1 | 460.6 |
| 17.5° | 480.4 | 485.1 | 490.7 | 494.5 | 485.6 | 470.5 | 460.6 | 456.3 | 455.4 | 454.9 | 454.0 |
| 20° | 503.5 | 506.3 | 508.2 | 503.5 | 483.7 | 466.2 | 454.9 | 448.8 | 444.1 | 443.6 | 441.7 |
| 22.5° | 528.0 | 527.0 | 524.7 | 507.7 | 478.5 | 456.3 | 440.8 | 429.5 | 423.3 | 422.9 | 421.0 |
| 25° | 545.9 | 542.1 | 535.0 | 508.7 | 469.1 | 440.3 | 418.1 | 400.2 | 392.2 | 388.4 | 389.4 |
| 27.5° | 557.7 | 549.7 | 537.4 | 503.9 | 452.6 | 415.8 | 384.7 | 361.1 | 349.3 | 347.4 | 348.8 |
| 30° | 571.8 | 559.1 | 539.3 | 492.2 | 429.0 | 381.4 | 340.8 | 317.3 | 310.7 | 307.4 | 308.3 |
| 32.5° | 588.8 | 572.3 | 545.4 | 474.2 | 399.3 | 341.3 | 297.5 | 281.0 | 273.4 | 267.3 | 269.2 |
| 35° | 610.9 | 590.2 | 555.3 | 448.8 | 361.6 | 298.9 | 266.3 | 251.3 | 237.6 | 231.0 | 231.5 |
| 37.5° | 636.9 | 613.3 | 563.8 | 419.1 | 320.6 | 266.8 | 239.5 | 221.6 | 204.6 | 191.9 | 189.5 |
| 40° | 678.4 | 659.0 | 570.9 | 386.1 | 281.4 | 240.4 | 213.1 | 192.8 | 176.8 | 164.1 | 162.6 |
| 42.5° | 747.7 | 714.2 | 571.3 | 346.5 | 248.0 | 217.8 | 191.4 | 169.2 | 151.3 | 140.5 | 140.0 |
| 45° | 829.2 | 777.4 | 561.4 | 304.1 | 218.7 | 195.2 | 172.1 | 147.1 | 136.7 | 129.6 | 128.7 |
| 47.5° | 925.8 | 850.0 | 539.8 | 264.5 | 193.7 | 173.0 | 152.3 | 137.2 | 129.6 | 124.5 | 124.5 |
| 50° | 1036.2 | 935.3 | 518.1 | 230.5 | 169.7 | 155.1 | 141.0 | 132.9 | 127.3 | 122.6 | 122.1 |
| 52.5° | 1160.6 | 1036.2 | 511.0 | 196.1 | 149.9 | 138.6 | 137.2 | 129.6 | 124.9 | 121.6 | 120.7 |
| 55° | 1309.1 | 1149.3 | 517.6 | 169.2 | 134.4 | 132.0 | 134.8 | 128.7 | 125.4 | 120.2 | 118.8 |
| 57.5° | 1480.7 | 1259.6 | 510.5 | 146.6 | 123.5 | 125.9 | 132.0 | 128.7 | 125.9 | 119.3 | 117.4 |
| 60° | 1642.4 | 1358.1 | 462.5 | 127.8 | 113.1 | 118.3 | 128.2 | 124.5 | 120.2 | 118.8 | 117.9 |
| 62.5° | 1729.1 | 1390.2 | 368.6 | 113.1 | 105.1 | 110.8 | 122.1 | 117.4 | 114.6 | 117.9 | 118.3 |
| 65° | 1730.1 | 1353.9 | 271.1 | 102.3 | 98.5 | 104.2 | 116.0 | 114.6 | 116.4 | 124.0 | 125.4 |
| 67.5° | 1633.9 | 1243.6 | 191.4 | 92.4 | 91.9 | 99.0 | 118.8 | 128.2 | 129.6 | 137.2 | 137.2 |
| 68° | 1600.9 | 1216.2 | 177.7 | 91.0 | 90.5 | 99.0 | 121.2 | 130.6 | 131.5 | 138.6 | 138.1 |
| 70° | 1419.9 | 1028.1 | 128.7 | 85.3 | 88.2 | 106.1 | 133.9 | 137.2 | 131.5 | 139.5 | 139.1 |
| 72.5° | 1109.7 | 760.4 | 96.2 | 79.2 | 83.9 | 104.7 | 134.8 | 131.5 | 123.0 | 124.9 | 122.6 |
| 75° | 750.0 | 484.6 | 79.2 | 72.6 | 74.5 | 88.6 | 122.6 | 124.0 | 114.1 | 112.2 | 109.4 |
| 77.5° | 392.7 | 227.2 | 64.1 | 64.6 | 66.5 | 76.8 | 109.4 | 112.7 | 103.7 | 98.1 | 97.1 |
| 80° | 144.7 | 90.0 | 52.3 | 57.0 | 58.0 | 67.4 | 93.8 | 99.0 | 90.5 | 86.3 | 85.3 |
| 82.5° | 52.8 | 44.8 | 43.4 | 50.0 | 49.0 | 57.5 | 82.0 | 85.8 | 76.8 | 72.6 | 70.2 |
| 85° | 14.6 | 16.5 | 27.3 | 39.1 | 38.2 | 44.8 | 66.0 | 69.3 | 61.8 | 50.9 | 49.5 |
| 87.5° | 0.9 | 3.3 | 10.8 | 23.1 | 24.0 | 27.8 | 47.6 | 52.3 | 45.7 | 37.7 | 37.2 |
| 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)