

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: LUMARK

Report Number: P960268

Luminaire Tested: **NAV-SB1C-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4803.2 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

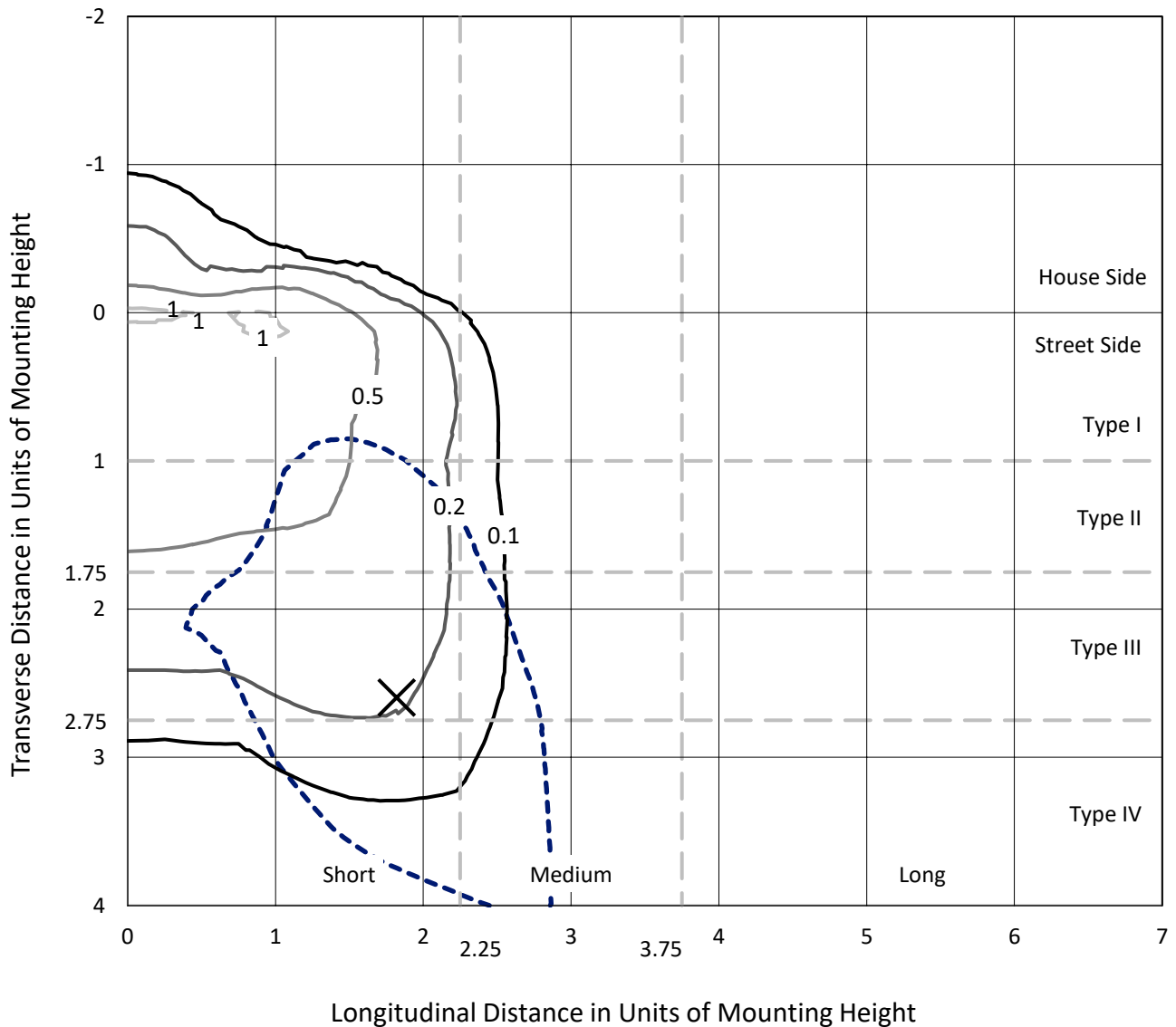
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

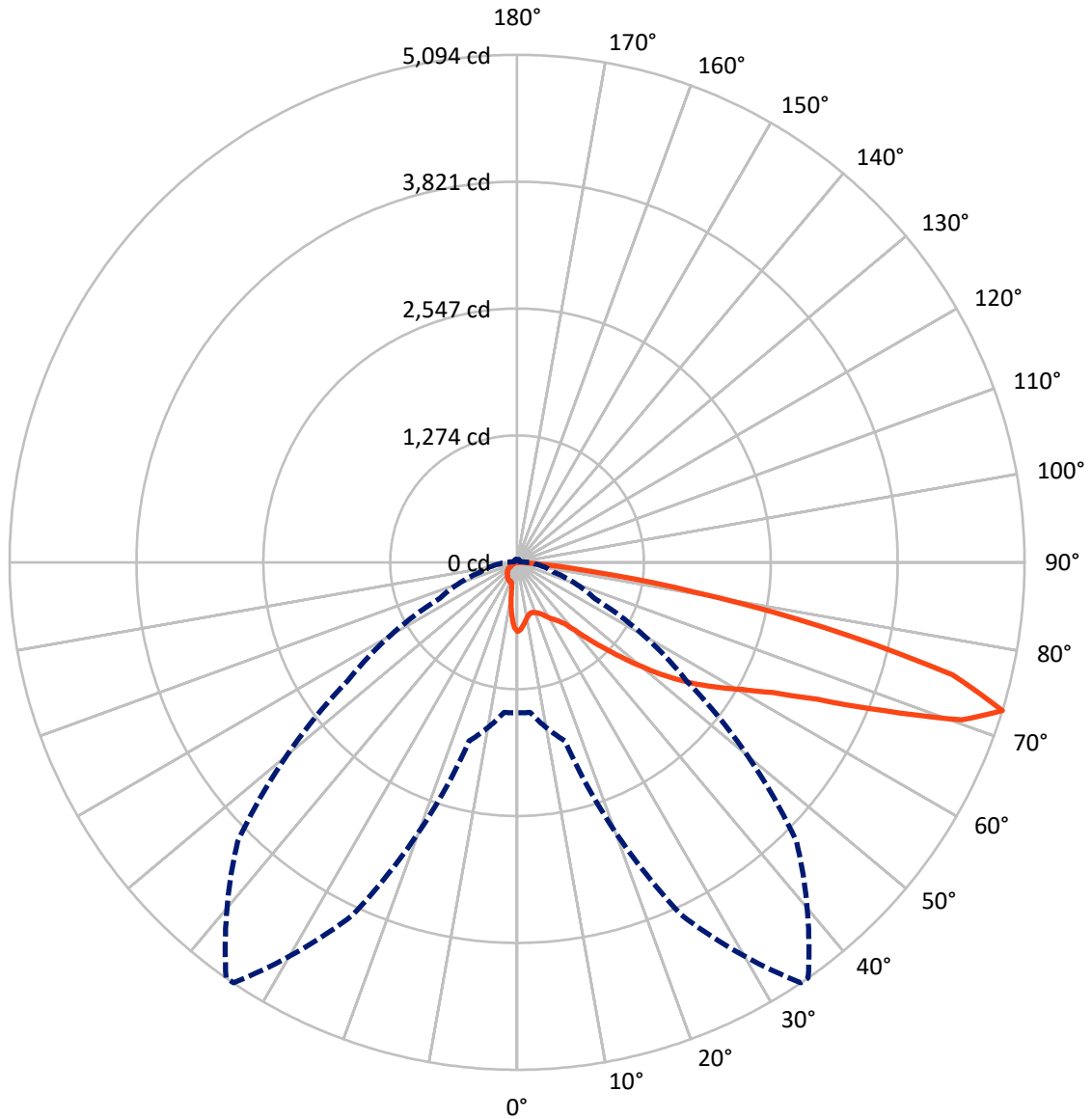
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 540.6 | 0.0 | 540.6 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 4262.6 | 0.0 | 4262.6 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 4803.2 | 0.0 | 4803.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.2 | 1.2 |
| 10°-20° | 133.8 | 2.8 |
| 20°-30° | 217.4 | 4.5 |
| 30°-40° | 362.7 | 7.6 |
| 40°-50° | 686.3 | 14.3 |
| 50°-60° | 1090.5 | 22.7 |
| 60°-70° | 1349.0 | 28.1 |
| 70°-80° | 838.5 | 17.5 |
| 80°-90° | 67.8 | 1.4 |
| 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° | 4803.2 | 100.0 |
| 0°-180° | 4803.2 | 100.0 |

Coefficient of Utilization



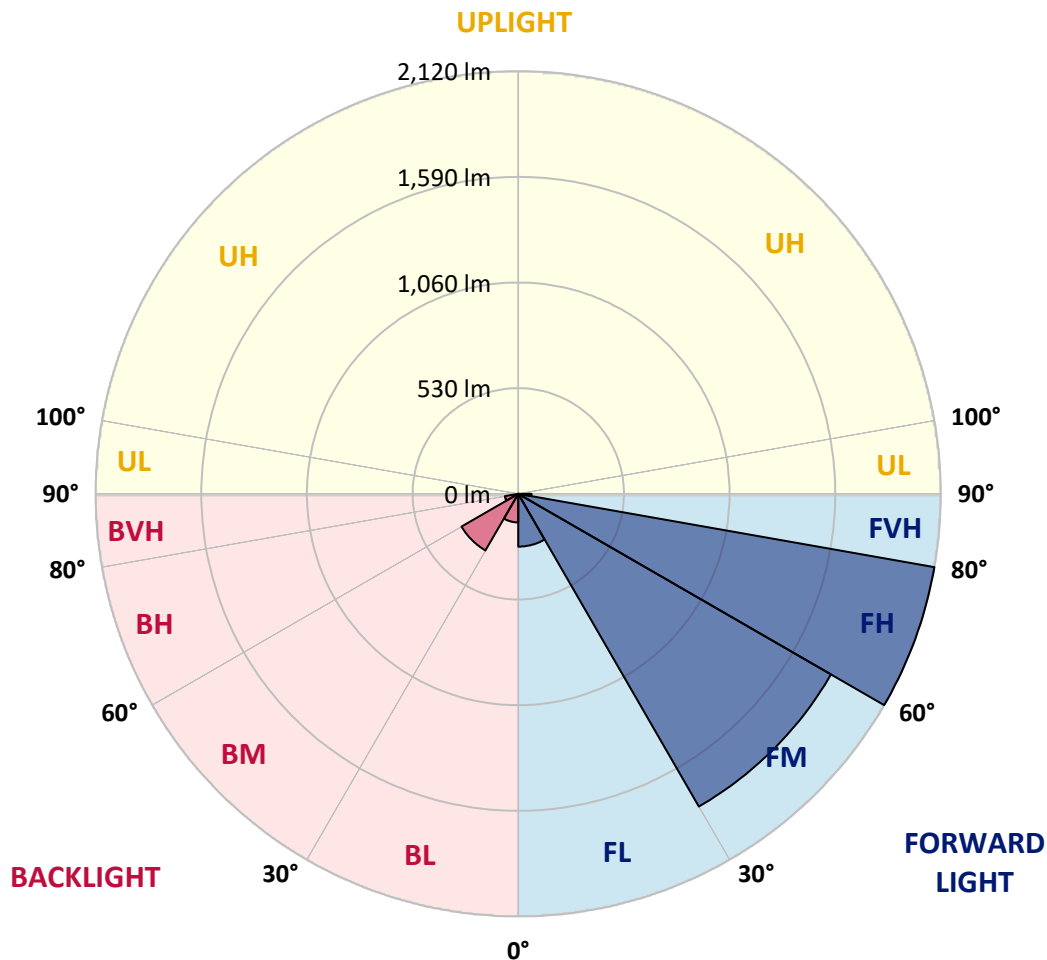
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 CATALOG NUMBER: NAV-SB1C-722-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 264.8 | 5.5 | | | |
| FM (30°-60°) | 1811.3 | 37.7 | | | |
| FH (60°-80°) | 2119.7 | 44.1 | | | G2/5000 |
| FVH (80°-90°) | 66.8 | 1.4 | | | G1/100 |
| BL (0°-30°) | 143.6 | 3.0 | B1/500 | | |
| BM (30°-60°) | 328.2 | 6.8 | B1/1000 | | |
| BH (60°-80°) | 67.8 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 |
| 2.5° | 665.1 | 670.8 | 671.9 | 673.6 | 673.6 | 675.7 | 679.3 | 684.2 | 692.3 | 696.5 | 699.3 |
| 5° | 613.1 | 617.3 | 622.6 | 626.8 | 634.9 | 635.9 | 649.6 | 663.1 | 681.7 | 695.8 | 705.6 |
| 7.5° | 560.7 | 565.6 | 572.6 | 582.8 | 593.4 | 596.6 | 617.3 | 639.8 | 669.4 | 695.8 | 712.4 |
| 10° | 523.7 | 524.1 | 530.3 | 540.6 | 557.5 | 561.4 | 586.7 | 618.7 | 655.7 | 691.6 | 718.6 |
| 12.5° | 503.0 | 505.4 | 508.2 | 516.0 | 532.2 | 534.6 | 561.7 | 599.3 | 642.0 | 689.1 | 726.0 |
| 15° | 503.0 | 504.7 | 506.5 | 510.3 | 523.4 | 525.4 | 549.4 | 587.0 | 634.9 | 690.1 | 738.0 |
| 17.5° | 508.2 | 511.1 | 509.6 | 514.1 | 527.9 | 529.3 | 550.4 | 583.5 | 634.6 | 696.8 | 756.3 |
| 20° | 520.9 | 523.0 | 520.2 | 523.0 | 536.7 | 539.6 | 561.4 | 590.2 | 640.5 | 708.5 | 779.2 |
| 22.5° | 540.9 | 542.0 | 535.3 | 537.4 | 551.4 | 555.0 | 580.4 | 609.2 | 655.0 | 727.1 | 809.9 |
| 25° | 566.3 | 568.4 | 558.2 | 560.7 | 574.0 | 578.2 | 607.4 | 637.8 | 677.8 | 752.8 | 848.9 |
| 27.5° | 595.5 | 596.6 | 587.7 | 587.4 | 604.6 | 610.6 | 640.2 | 672.9 | 708.5 | 785.2 | 898.1 |
| 30° | 628.9 | 632.1 | 623.6 | 622.3 | 644.0 | 648.9 | 678.1 | 716.2 | 753.5 | 833.7 | 968.2 |
| 32.5° | 655.3 | 657.7 | 652.8 | 656.4 | 678.6 | 682.4 | 724.3 | 777.5 | 824.2 | 902.7 | 1063.5 |
| 35° | 693.3 | 694.7 | 683.5 | 689.8 | 715.1 | 725.0 | 787.3 | 863.4 | 913.3 | 989.3 | 1188.2 |
| 37.5° | 831.0 | 831.0 | 783.1 | 751.7 | 776.0 | 784.8 | 873.5 | 971.4 | 1023.1 | 1105.5 | 1345.1 |
| 40° | 1021.3 | 1018.1 | 948.1 | 884.1 | 880.9 | 898.1 | 996.3 | 1107.5 | 1164.9 | 1244.9 | 1521.8 |
| 42.5° | 1224.4 | 1219.4 | 1124.1 | 1060.8 | 1050.2 | 1056.2 | 1138.2 | 1275.4 | 1333.8 | 1414.8 | 1711.9 |
| 45° | 1404.6 | 1403.2 | 1315.9 | 1230.7 | 1211.8 | 1230.7 | 1315.2 | 1471.8 | 1513.7 | 1598.9 | 1901.6 |
| 47.5° | 1555.5 | 1555.5 | 1491.9 | 1436.2 | 1426.4 | 1437.7 | 1554.8 | 1689.7 | 1685.8 | 1794.9 | 2086.3 |
| 50° | 1729.5 | 1728.0 | 1667.5 | 1643.6 | 1653.7 | 1669.6 | 1830.8 | 1919.1 | 1863.9 | 1987.4 | 2251.3 |
| 52.5° | 1851.3 | 1859.7 | 1838.8 | 1835.1 | 1887.1 | 1914.6 | 2111.0 | 2143.7 | 2023.4 | 2170.0 | 2374.9 |
| 55° | 1947.6 | 1957.4 | 1981.4 | 2008.5 | 2108.8 | 2144.7 | 2382.3 | 2356.6 | 2156.7 | 2328.4 | 2446.0 |
| 57.5° | 2084.2 | 2070.1 | 2107.1 | 2160.6 | 2322.9 | 2366.1 | 2645.2 | 2557.6 | 2264.0 | 2456.9 | 2453.7 |
| 60° | 2250.0 | 2252.0 | 2258.4 | 2325.9 | 2536.5 | 2592.0 | 2904.2 | 2747.6 | 2333.0 | 2535.7 | 2367.9 |
| 62.5° | 2449.1 | 2452.3 | 2465.3 | 2569.2 | 2823.3 | 2875.7 | 3180.2 | 2903.1 | 2364.7 | 2513.5 | 2146.1 |
| 65° | 2435.4 | 2448.8 | 2594.2 | 2949.2 | 3259.3 | 3311.1 | 3502.1 | 3012.3 | 2316.8 | 2310.9 | 1747.4 |
| 67.5° | 2218.6 | 2240.4 | 2483.7 | 3403.3 | 3916.7 | 3974.4 | 3891.4 | 3033.7 | 2110.3 | 1797.0 | 1139.9 |
| 70° | 1934.3 | 1942.0 | 2234.5 | 3811.5 | 4678.0 | 4736.4 | 4239.8 | 2797.5 | 1601.4 | 1002.3 | 510.7 |
| 72.5° | 1510.5 | 1512.3 | 1855.5 | 3906.2 | 5091.2 | 5094.4 | 3966.3 | 2076.8 | 861.2 | 385.0 | 177.4 |
| 75° | 1079.0 | 1068.5 | 1242.7 | 3167.8 | 4479.1 | 4515.0 | 2973.5 | 974.2 | 329.0 | 181.9 | 88.4 |
| 77.5° | 578.6 | 590.2 | 703.2 | 1878.6 | 3094.3 | 3155.5 | 1622.5 | 280.8 | 167.5 | 123.9 | 58.4 |
| 80° | 178.8 | 188.6 | 288.2 | 860.2 | 1752.6 | 1789.6 | 601.5 | 124.9 | 116.8 | 88.4 | 38.3 |
| 82.5° | 56.3 | 58.4 | 134.5 | 361.4 | 727.4 | 744.4 | 174.2 | 70.7 | 79.8 | 58.4 | 22.5 |
| 85° | 16.2 | 16.5 | 59.9 | 134.8 | 179.9 | 183.4 | 48.9 | 27.5 | 45.7 | 36.3 | 11.6 |
| 87.5° | 1.7 | 5.6 | 22.5 | 22.5 | 15.9 | 15.5 | 5.3 | 5.9 | 13.0 | 4.6 | 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° | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 | 696.2 |
| 2.5° | 697.5 | 697.9 | 693.3 | 685.6 | 677.1 | 670.1 | 661.3 | 654.3 | 649.3 | 647.9 | 650.4 |
| 5° | 702.4 | 700.0 | 687.0 | 663.4 | 635.3 | 611.0 | 583.8 | 562.4 | 548.3 | 542.3 | 544.5 |
| 7.5° | 709.8 | 702.8 | 674.3 | 627.8 | 574.0 | 526.1 | 477.5 | 439.9 | 415.9 | 404.1 | 405.8 |
| 10° | 716.2 | 702.1 | 653.2 | 576.5 | 494.2 | 421.6 | 356.2 | 310.8 | 285.5 | 273.5 | 273.8 |
| 12.5° | 722.2 | 701.8 | 625.8 | 515.6 | 404.1 | 315.3 | 254.4 | 232.0 | 224.9 | 222.4 | 221.7 |
| 15° | 733.5 | 702.8 | 591.2 | 445.9 | 314.3 | 238.3 | 216.1 | 215.8 | 217.2 | 216.5 | 216.1 |
| 17.5° | 749.0 | 703.9 | 552.2 | 372.0 | 242.5 | 210.1 | 209.1 | 212.2 | 214.3 | 213.3 | 212.9 |
| 20° | 769.0 | 708.1 | 510.7 | 298.8 | 208.4 | 203.1 | 205.5 | 208.4 | 210.1 | 208.4 | 208.0 |
| 22.5° | 797.1 | 715.4 | 465.2 | 240.1 | 197.4 | 198.8 | 201.0 | 204.1 | 205.9 | 203.5 | 203.1 |
| 25° | 831.7 | 727.1 | 420.6 | 208.7 | 192.2 | 193.9 | 197.1 | 200.6 | 202.7 | 200.3 | 199.9 |
| 27.5° | 876.4 | 745.8 | 379.4 | 201.6 | 186.9 | 188.0 | 192.5 | 197.8 | 200.6 | 197.4 | 197.4 |
| 30° | 941.1 | 776.3 | 343.9 | 204.8 | 183.7 | 181.2 | 187.6 | 195.0 | 198.1 | 195.4 | 195.0 |
| 32.5° | 1026.9 | 819.7 | 322.1 | 209.7 | 182.3 | 173.5 | 179.5 | 189.0 | 194.2 | 192.5 | 192.5 |
| 35° | 1139.6 | 885.5 | 313.5 | 215.4 | 181.2 | 165.4 | 169.6 | 179.9 | 189.0 | 190.8 | 190.8 |
| 37.5° | 1276.1 | 977.0 | 316.0 | 217.8 | 178.0 | 158.8 | 160.8 | 169.6 | 181.6 | 187.3 | 188.6 |
| 40° | 1431.3 | 1083.6 | 330.2 | 215.4 | 174.6 | 153.1 | 153.4 | 160.1 | 170.7 | 179.2 | 181.9 |
| 42.5° | 1591.5 | 1208.2 | 356.2 | 206.2 | 171.4 | 148.2 | 147.1 | 151.7 | 158.8 | 164.7 | 167.2 |
| 45° | 1743.8 | 1336.3 | 381.8 | 193.5 | 167.5 | 143.2 | 140.7 | 142.6 | 143.9 | 146.4 | 147.8 |
| 47.5° | 1876.9 | 1426.4 | 374.4 | 181.9 | 162.3 | 137.7 | 133.4 | 132.6 | 128.4 | 128.1 | 127.7 |
| 50° | 1968.7 | 1446.2 | 332.6 | 170.4 | 154.5 | 131.3 | 124.5 | 120.3 | 113.0 | 109.5 | 109.8 |
| 52.5° | 1997.9 | 1368.4 | 271.7 | 158.8 | 141.9 | 122.8 | 113.4 | 106.6 | 97.5 | 94.3 | 94.0 |
| 55° | 1959.3 | 1216.0 | 217.2 | 144.6 | 124.2 | 111.5 | 101.0 | 92.2 | 84.8 | 81.0 | 81.0 |
| 57.5° | 1864.6 | 1022.0 | 171.8 | 128.1 | 105.6 | 98.9 | 88.4 | 79.5 | 73.2 | 69.3 | 68.7 |
| 60° | 1707.6 | 811.6 | 135.8 | 108.4 | 90.1 | 85.2 | 74.2 | 68.7 | 63.0 | 58.4 | 57.4 |
| 62.5° | 1469.3 | 579.3 | 106.6 | 85.9 | 75.3 | 69.7 | 63.3 | 59.1 | 52.5 | 46.1 | 45.0 |
| 65° | 1146.7 | 354.4 | 82.3 | 63.0 | 60.6 | 57.7 | 53.8 | 50.0 | 41.9 | 35.6 | 34.4 |
| 67.5° | 723.2 | 167.9 | 58.7 | 47.6 | 47.9 | 46.4 | 44.7 | 41.5 | 35.6 | 29.9 | 29.2 |
| 70° | 318.5 | 81.3 | 38.7 | 36.3 | 35.6 | 35.6 | 37.0 | 35.9 | 30.2 | 25.0 | 23.9 |
| 72.5° | 108.4 | 43.7 | 28.9 | 27.5 | 25.7 | 25.3 | 31.0 | 29.9 | 24.3 | 19.4 | 18.3 |
| 75° | 56.7 | 29.2 | 21.1 | 19.7 | 15.5 | 18.7 | 24.6 | 23.3 | 17.2 | 12.7 | 11.6 |
| 77.5° | 37.0 | 20.8 | 14.5 | 12.7 | 8.8 | 12.3 | 18.3 | 16.2 | 10.2 | 6.4 | 5.6 |
| 80° | 23.3 | 13.7 | 8.4 | 5.9 | 4.2 | 6.7 | 9.8 | 7.1 | 3.9 | 1.4 | 1.0 |
| 82.5° | 12.3 | 7.1 | 3.2 | 2.2 | 1.7 | 2.2 | 2.5 | 1.7 | 0.7 | 0.0 | 0.0 |
| 85° | 4.9 | 2.5 | 1.0 | 0.7 | 0.3 | 0.0 | 0.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.7 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)