

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: P960260

Luminaire Tested: **NAV-SB1C-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6460.6 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

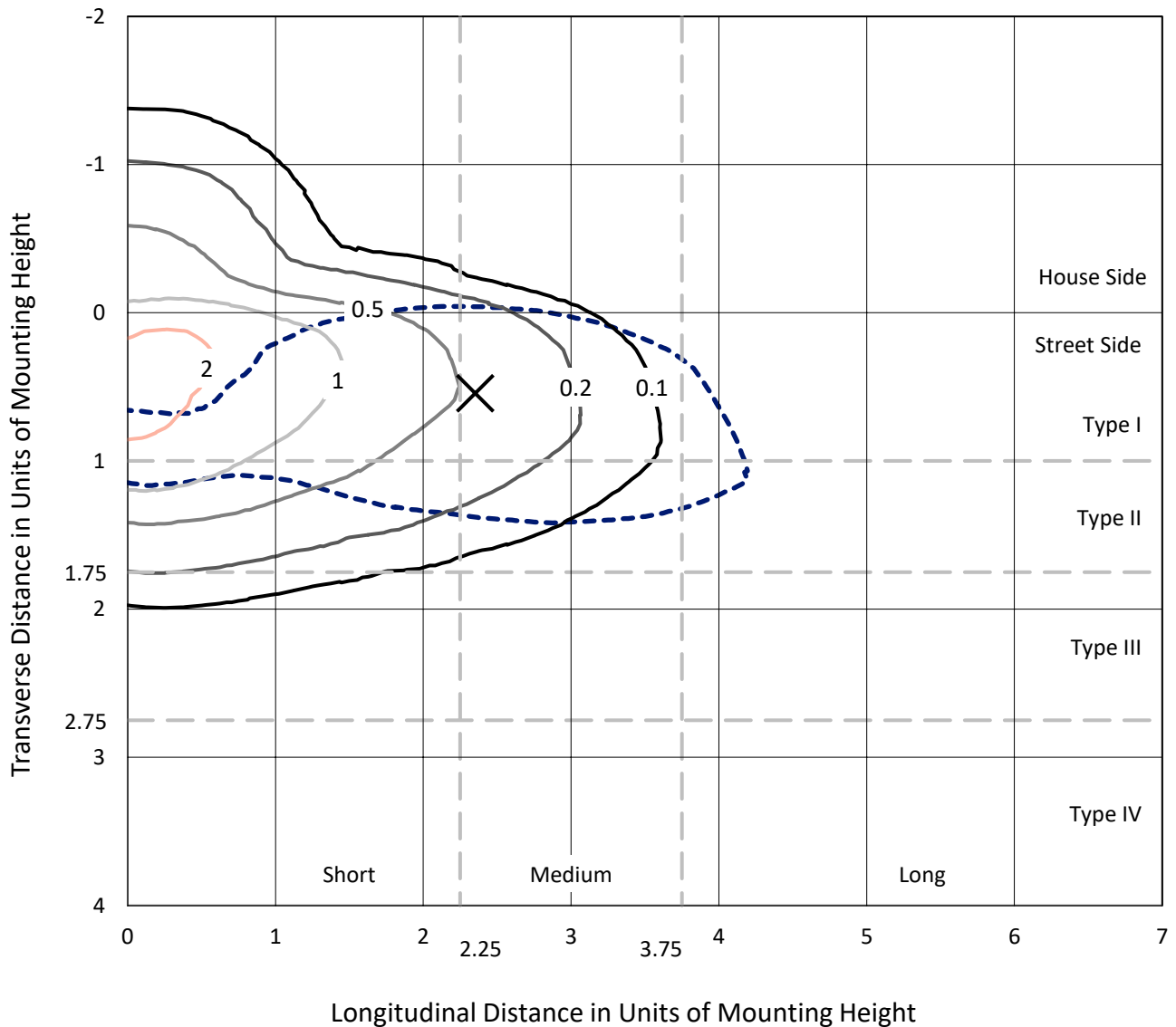
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

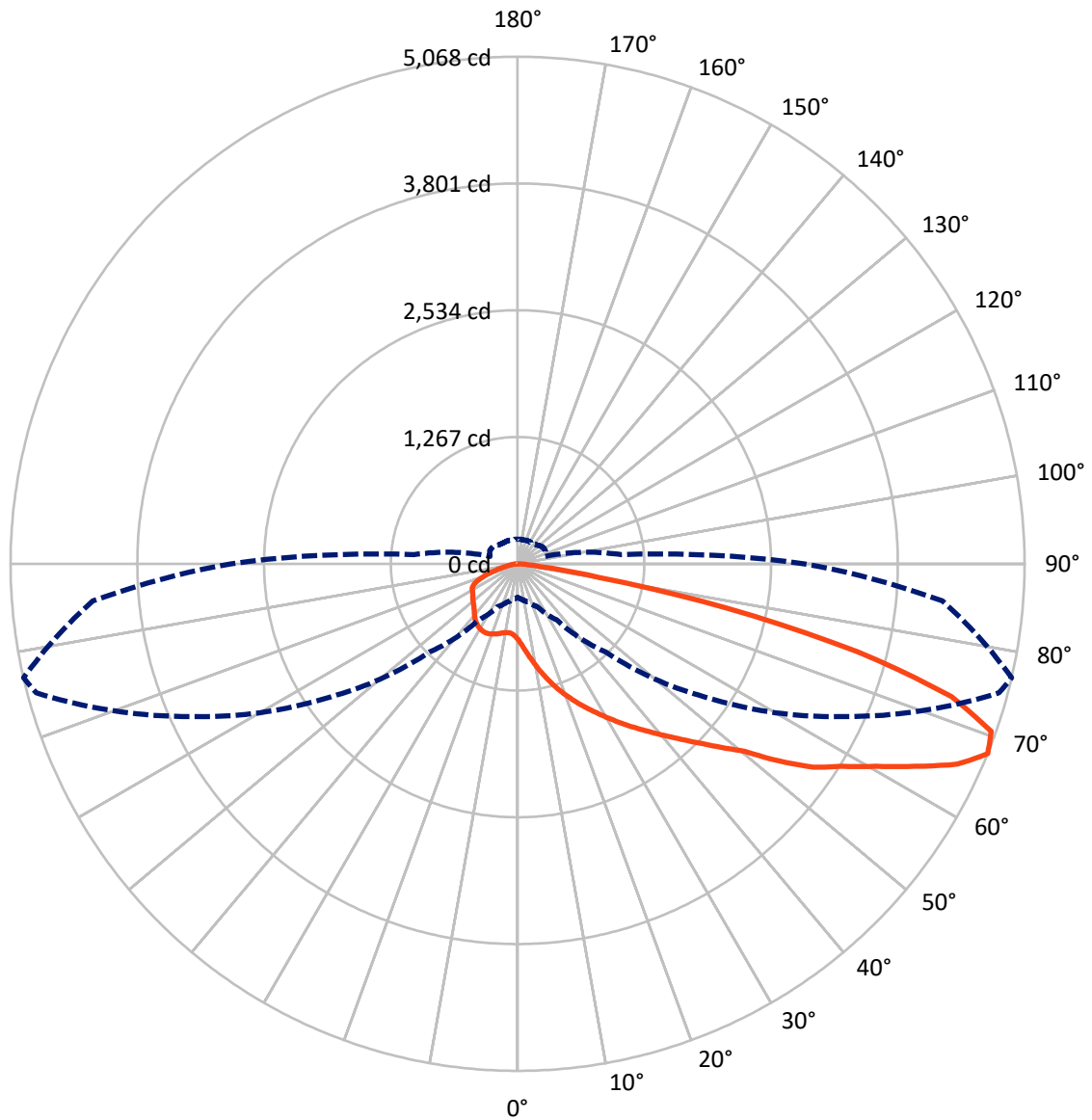
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1222.1 | 0.0 | 1222.1 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| Street Side | Lumens | 5238.5 | 0.0 | 5238.5 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| Total | Lumens | 6460.6 | 0.0 | 6460.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.3 | 1.3 |
| 10°-20° | 291.9 | 4.5 |
| 20°-30° | 551.1 | 8.5 |
| 30°-40° | 887.9 | 13.7 |
| 40°-50° | 1214.4 | 18.8 |
| 50°-60° | 1369.9 | 21.2 |
| 60°-70° | 1278.6 | 19.8 |
| 70°-80° | 700.9 | 10.8 |
| 80°-90° | 84.6 | 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° | 6460.6 | 100.0 |
| 0°-180° | 6460.6 | 100.0 |

Coefficient of Utilization

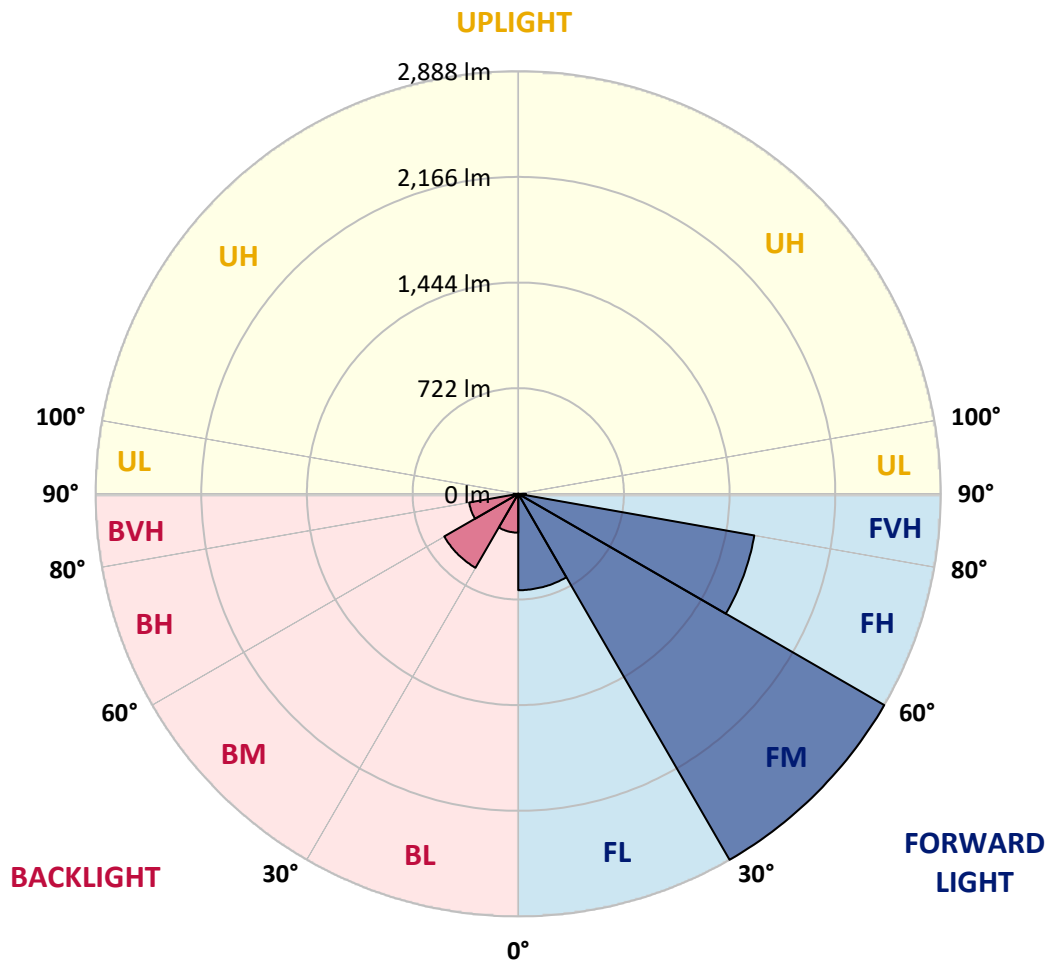


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 658.6 | 10.2 | | | |
| FM (30°-60°) | 2888.4 | 44.7 | | | |
| FH (60°-80°) | 1638.6 | 25.4 | | | G1/1800 |
| FVH (80°-90°) | 52.9 | 0.8 | | | G1/100 |
| BL (0°-30°) | 265.7 | 4.1 | B1/500 | | |
| BM (30°-60°) | 583.8 | 9.0 | B1/1000 | | |
| BH (60°-80°) | 340.9 | 5.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 31.7 | 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-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 |
| 2.5° | 949.1 | 955.8 | 947.4 | 947.4 | 919.4 | 904.8 | 876.8 | 855.4 | 817.0 | 810.4 | 785.0 |
| 5° | 1121.9 | 1130.2 | 1118.5 | 1113.6 | 1080.6 | 1050.2 | 1003.2 | 956.8 | 888.5 | 881.4 | 821.7 |
| 7.5° | 1255.6 | 1266.3 | 1255.9 | 1250.6 | 1221.3 | 1187.3 | 1132.2 | 1067.5 | 971.1 | 957.5 | 871.0 |
| 10° | 1364.7 | 1366.3 | 1362.9 | 1365.0 | 1341.9 | 1313.9 | 1257.6 | 1182.2 | 1061.8 | 1043.1 | 930.8 |
| 12.5° | 1426.4 | 1434.0 | 1440.6 | 1452.7 | 1448.7 | 1431.3 | 1380.7 | 1290.6 | 1157.8 | 1133.9 | 995.8 |
| 15° | 1455.4 | 1468.7 | 1483.7 | 1511.4 | 1533.7 | 1538.0 | 1499.4 | 1407.0 | 1255.6 | 1226.6 | 1061.5 |
| 17.5° | 1465.6 | 1478.4 | 1502.0 | 1542.1 | 1590.1 | 1622.5 | 1605.0 | 1520.1 | 1352.3 | 1319.0 | 1130.6 |
| 20° | 1518.0 | 1521.7 | 1536.1 | 1574.1 | 1626.1 | 1679.8 | 1692.8 | 1628.7 | 1448.0 | 1410.3 | 1201.9 |
| 22.5° | 1630.1 | 1622.8 | 1626.8 | 1644.1 | 1681.5 | 1733.5 | 1763.2 | 1724.8 | 1546.4 | 1503.1 | 1274.0 |
| 25° | 1815.2 | 1793.9 | 1772.5 | 1752.5 | 1771.5 | 1800.8 | 1834.5 | 1820.9 | 1649.4 | 1594.4 | 1346.6 |
| 27.5° | 2049.0 | 2022.9 | 1975.9 | 1910.2 | 1887.2 | 1897.6 | 1912.5 | 1909.9 | 1744.9 | 1689.1 | 1421.7 |
| 30° | 2279.1 | 2248.7 | 2192.7 | 2097.7 | 2037.0 | 2009.6 | 1998.2 | 1990.7 | 1848.6 | 1789.1 | 1497.4 |
| 32.5° | 2462.9 | 2438.8 | 2383.8 | 2277.4 | 2189.4 | 2142.7 | 2105.0 | 2077.7 | 1956.9 | 1897.6 | 1577.4 |
| 35° | 2623.6 | 2601.2 | 2538.2 | 2422.2 | 2326.4 | 2276.7 | 2227.4 | 2169.0 | 2069.7 | 2009.6 | 1663.5 |
| 37.5° | 2770.3 | 2747.9 | 2661.6 | 2540.9 | 2444.5 | 2410.2 | 2366.1 | 2267.1 | 2182.7 | 2126.1 | 1754.5 |
| 40° | 2863.0 | 2858.0 | 2777.3 | 2640.6 | 2540.6 | 2523.5 | 2508.9 | 2380.8 | 2308.1 | 2255.4 | 1854.5 |
| 42.5° | 2886.7 | 2897.7 | 2833.7 | 2721.3 | 2625.9 | 2612.2 | 2646.5 | 2509.5 | 2448.8 | 2398.5 | 1967.9 |
| 45° | 2829.7 | 2861.4 | 2819.4 | 2743.0 | 2686.6 | 2679.2 | 2768.6 | 2650.2 | 2604.5 | 2558.5 | 2104.6 |
| 47.5° | 2685.3 | 2739.0 | 2721.6 | 2710.9 | 2702.9 | 2734.6 | 2876.0 | 2799.7 | 2781.0 | 2741.0 | 2260.7 |
| 50° | 2393.8 | 2495.6 | 2525.9 | 2593.2 | 2670.6 | 2777.6 | 2973.7 | 2962.8 | 2987.1 | 2946.8 | 2450.9 |
| 52.5° | 1889.9 | 2030.0 | 2206.0 | 2374.8 | 2571.2 | 2763.3 | 3081.1 | 3196.9 | 3299.6 | 3277.5 | 2752.9 |
| 55° | 1560.0 | 1623.1 | 1758.5 | 2067.9 | 2378.5 | 2702.9 | 3129.5 | 3386.0 | 3609.7 | 3590.1 | 2982.0 |
| 57.5° | 1306.7 | 1362.9 | 1446.4 | 1704.8 | 2087.0 | 2565.9 | 3159.5 | 3501.3 | 3822.1 | 3820.2 | 3208.1 |
| 60° | 1034.8 | 1094.5 | 1179.9 | 1362.9 | 1746.5 | 2329.1 | 3152.8 | 3632.7 | 4093.2 | 4109.9 | 3484.0 |
| 62.5° | 728.1 | 793.8 | 888.5 | 1059.1 | 1398.6 | 2022.3 | 3016.8 | 3727.7 | 4412.4 | 4457.8 | 3815.8 |
| 65° | 478.6 | 521.9 | 593.3 | 740.7 | 1042.1 | 1627.8 | 2756.9 | 3740.1 | 4754.0 | 4830.6 | 4127.3 |
| 67.5° | 335.5 | 352.2 | 394.2 | 474.3 | 687.0 | 1248.2 | 2343.1 | 3612.4 | 4981.7 | 5068.1 | 4262.4 |
| 70° | 261.8 | 270.1 | 291.5 | 323.5 | 431.5 | 839.4 | 1795.5 | 3280.2 | 4933.0 | 5023.0 | 4121.3 |
| 72.5° | 226.1 | 234.1 | 242.1 | 246.1 | 289.5 | 518.2 | 1216.3 | 2742.6 | 4474.4 | 4535.5 | 3583.4 |
| 75° | 205.1 | 207.0 | 213.8 | 212.5 | 220.8 | 336.2 | 702.0 | 1998.2 | 3530.3 | 3509.3 | 2645.2 |
| 77.5° | 172.4 | 175.1 | 186.0 | 184.4 | 196.1 | 229.8 | 364.5 | 1289.7 | 2288.7 | 2146.0 | 1472.4 |
| 80° | 146.1 | 147.4 | 159.4 | 157.4 | 170.5 | 166.5 | 186.0 | 657.3 | 970.8 | 822.4 | 424.6 |
| 82.5° | 50.7 | 62.7 | 121.8 | 125.4 | 130.1 | 100.8 | 107.4 | 268.1 | 296.4 | 227.1 | 89.1 |
| 85° | 24.7 | 26.3 | 62.0 | 88.0 | 87.7 | 50.7 | 52.4 | 95.7 | 93.4 | 73.4 | 29.7 |
| 87.5° | 4.0 | 5.0 | 7.4 | 34.3 | 27.4 | 13.3 | 18.0 | 18.7 | 19.4 | 16.7 | 6.7 |
| 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° | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 | 758.0 |
| 2.5° | 766.4 | 749.7 | 714.6 | 682.3 | 657.0 | 632.6 | 619.0 | 607.3 | 600.6 | 599.3 | 599.3 |
| 5° | 787.0 | 752.7 | 689.0 | 635.3 | 600.2 | 574.3 | 560.6 | 552.0 | 547.6 | 544.9 | 544.6 |
| 7.5° | 816.7 | 766.4 | 675.7 | 614.6 | 577.9 | 559.2 | 552.3 | 550.9 | 550.6 | 550.9 | 552.0 |
| 10° | 857.7 | 788.7 | 674.3 | 609.7 | 578.9 | 568.6 | 568.3 | 568.6 | 569.9 | 570.3 | 570.6 |
| 12.5° | 902.1 | 811.7 | 679.7 | 614.0 | 591.6 | 586.0 | 585.0 | 584.7 | 585.6 | 586.3 | 586.6 |
| 15° | 950.5 | 842.0 | 688.7 | 623.3 | 605.6 | 599.6 | 598.6 | 596.7 | 596.2 | 595.9 | 595.6 |
| 17.5° | 1000.1 | 872.1 | 698.6 | 633.3 | 614.6 | 606.3 | 602.6 | 598.0 | 594.3 | 593.3 | 594.3 |
| 20° | 1050.5 | 901.8 | 705.7 | 638.3 | 615.3 | 603.6 | 596.2 | 588.2 | 581.9 | 578.3 | 579.6 |
| 22.5° | 1104.2 | 932.7 | 710.0 | 636.9 | 609.3 | 593.3 | 579.9 | 570.6 | 561.0 | 554.6 | 554.9 |
| 25° | 1156.5 | 959.8 | 709.7 | 630.0 | 597.6 | 577.3 | 560.3 | 548.3 | 534.9 | 528.3 | 528.3 |
| 27.5° | 1206.9 | 984.1 | 701.3 | 617.7 | 581.0 | 558.2 | 537.9 | 523.6 | 510.6 | 504.2 | 503.9 |
| 30° | 1258.9 | 1004.5 | 688.3 | 599.6 | 561.3 | 536.3 | 513.9 | 501.5 | 489.9 | 483.9 | 483.6 |
| 32.5° | 1310.7 | 1023.2 | 669.9 | 577.3 | 538.6 | 514.6 | 492.6 | 481.2 | 474.3 | 474.3 | 474.6 |
| 35° | 1365.3 | 1036.2 | 645.6 | 551.2 | 514.6 | 491.6 | 474.3 | 467.6 | 466.9 | 462.9 | 461.9 |
| 37.5° | 1423.0 | 1044.5 | 615.9 | 524.6 | 490.9 | 469.2 | 463.9 | 455.9 | 449.3 | 440.5 | 439.2 |
| 40° | 1483.7 | 1052.9 | 580.3 | 496.9 | 465.9 | 453.9 | 451.5 | 440.9 | 421.9 | 400.6 | 397.5 |
| 42.5° | 1557.4 | 1058.5 | 543.2 | 469.2 | 439.5 | 435.5 | 438.9 | 420.6 | 390.2 | 374.2 | 374.5 |
| 45° | 1642.8 | 1067.8 | 509.2 | 441.9 | 412.6 | 412.6 | 426.5 | 402.5 | 377.5 | 367.5 | 369.2 |
| 47.5° | 1753.5 | 1089.5 | 477.5 | 411.8 | 387.6 | 394.2 | 399.2 | 380.9 | 366.8 | 354.5 | 354.1 |
| 50° | 1913.6 | 1141.5 | 444.8 | 381.5 | 368.5 | 381.8 | 374.8 | 364.2 | 347.8 | 337.8 | 336.8 |
| 52.5° | 2112.3 | 1172.2 | 415.8 | 354.1 | 352.2 | 365.5 | 355.5 | 345.5 | 333.1 | 319.8 | 317.1 |
| 55° | 2247.7 | 1177.9 | 391.5 | 334.2 | 341.1 | 339.8 | 336.2 | 327.2 | 320.5 | 302.8 | 303.2 |
| 57.5° | 2399.1 | 1189.2 | 371.5 | 322.2 | 334.2 | 319.5 | 318.2 | 310.5 | 301.8 | 289.8 | 285.8 |
| 60° | 2580.2 | 1206.9 | 354.1 | 317.4 | 328.2 | 306.2 | 299.5 | 296.4 | 287.8 | 281.8 | 283.5 |
| 62.5° | 2777.6 | 1222.9 | 336.5 | 318.2 | 321.1 | 293.2 | 283.1 | 282.2 | 276.8 | 274.8 | 274.8 |
| 65° | 2912.3 | 1179.3 | 314.5 | 317.4 | 310.2 | 279.8 | 267.1 | 266.8 | 262.5 | 261.8 | 261.5 |
| 67.5° | 2865.4 | 1040.8 | 284.8 | 308.1 | 298.8 | 266.5 | 252.5 | 251.1 | 245.5 | 245.8 | 245.8 |
| 70° | 2629.9 | 843.4 | 243.7 | 285.2 | 284.8 | 254.4 | 237.1 | 232.8 | 225.1 | 226.4 | 227.8 |
| 72.5° | 2188.4 | 624.9 | 188.8 | 246.8 | 262.5 | 243.4 | 219.5 | 212.5 | 202.7 | 204.1 | 203.8 |
| 75° | 1580.4 | 424.9 | 137.4 | 187.8 | 228.5 | 230.4 | 202.1 | 190.1 | 178.5 | 180.4 | 181.1 |
| 77.5° | 808.7 | 240.8 | 101.1 | 129.4 | 179.4 | 209.4 | 186.4 | 170.5 | 167.8 | 186.4 | 183.8 |
| 80° | 263.8 | 120.7 | 70.0 | 90.7 | 117.8 | 171.4 | 163.4 | 145.0 | 144.4 | 148.7 | 127.7 |
| 82.5° | 78.7 | 51.0 | 45.0 | 59.7 | 65.0 | 131.4 | 141.0 | 109.7 | 94.4 | 99.4 | 102.7 |
| 85° | 27.1 | 24.7 | 25.7 | 29.7 | 31.1 | 77.1 | 98.7 | 72.7 | 68.7 | 75.7 | 74.7 |
| 87.5° | 6.4 | 8.7 | 7.4 | 6.7 | 6.7 | 18.7 | 38.3 | 30.3 | 42.0 | 28.0 | 27.1 |
| 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)