

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: P959261

Luminaire Tested: **NAV-SB1A-730-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-730-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3510.6 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

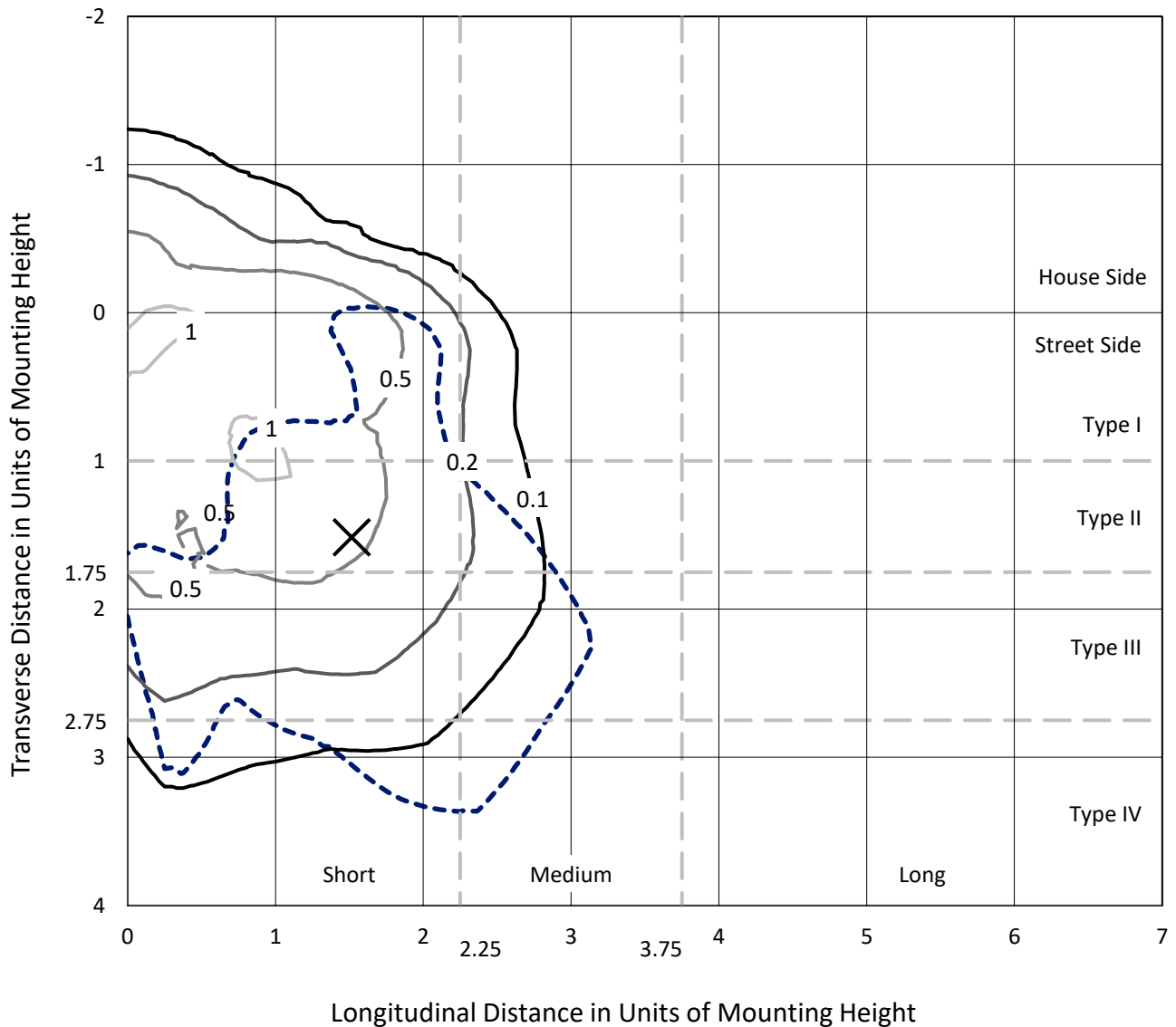
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959261
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Iso-Footcandle Lines of Horizontal Illumination

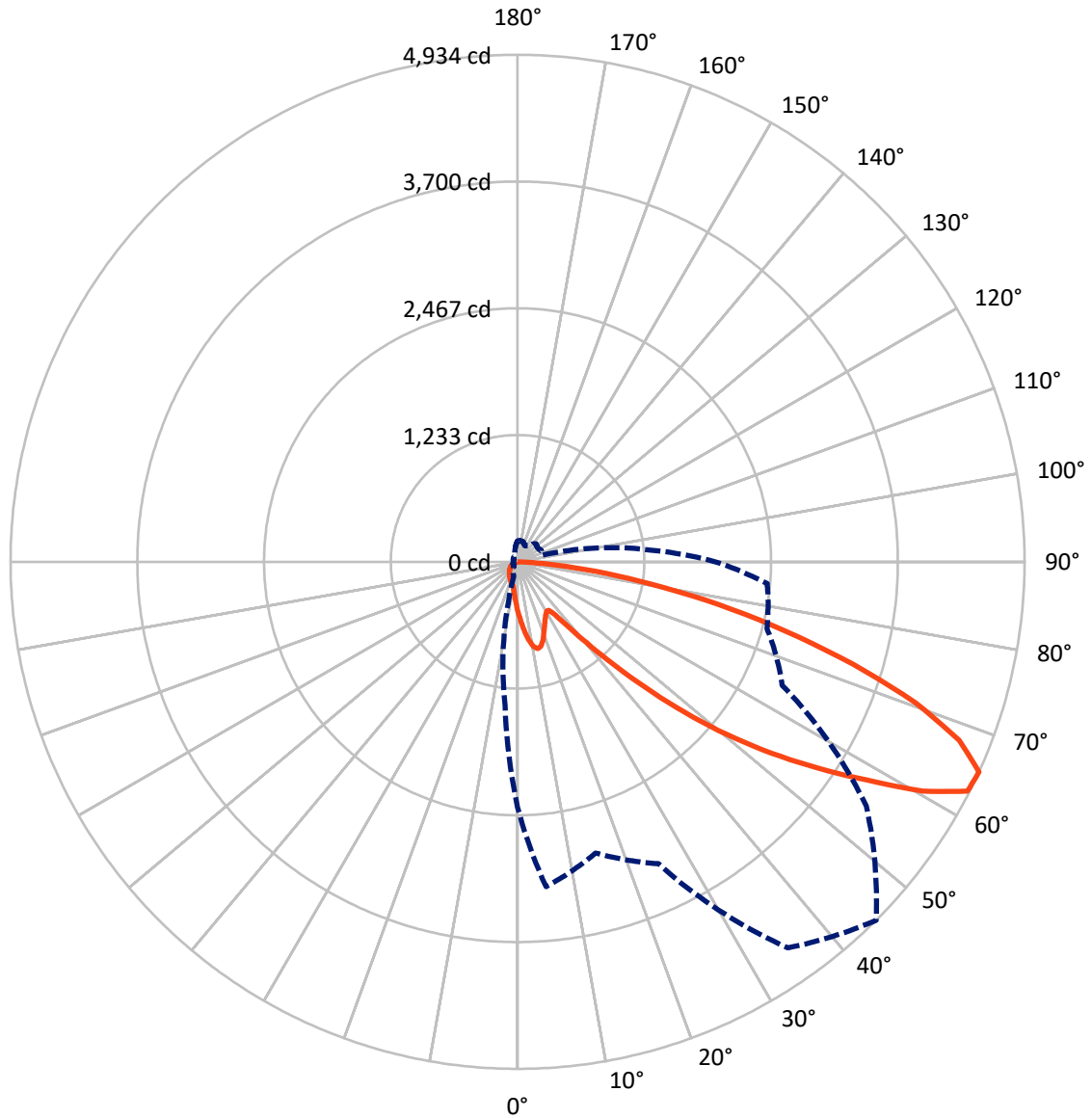
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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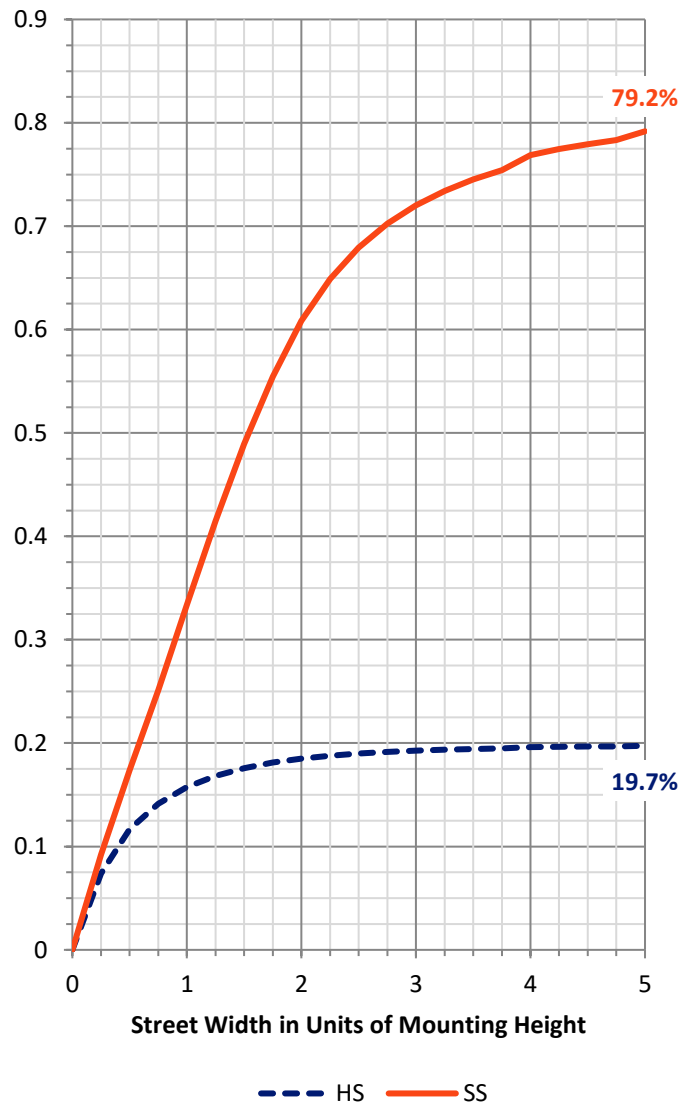
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 697.8 | 0.0 | 697.8 |
| | % Fixture | 19.9 | 0.0 | 19.9 |
| Street Side | Lumens | 2812.8 | 0.0 | 2812.8 |
| | % Fixture | 80.1 | 0.0 | 80.1 |
| Total | Lumens | 3510.6 | 0.0 | 3510.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.9 | 1.4 |
| 10°-20° | 143.5 | 4.1 |
| 20°-30° | 211.4 | 6.0 |
| 30°-40° | 271.5 | 7.7 |
| 40°-50° | 439.2 | 12.5 |
| 50°-60° | 770.1 | 21.9 |
| 60°-70° | 963.6 | 27.4 |
| 70°-80° | 563.1 | 16.0 |
| 80°-90° | 100.5 | 2.9 |
| 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° | 3510.6 | 100.0 |
| 0°-180° | 3510.6 | 100.0 |

Coefficient of Utilization



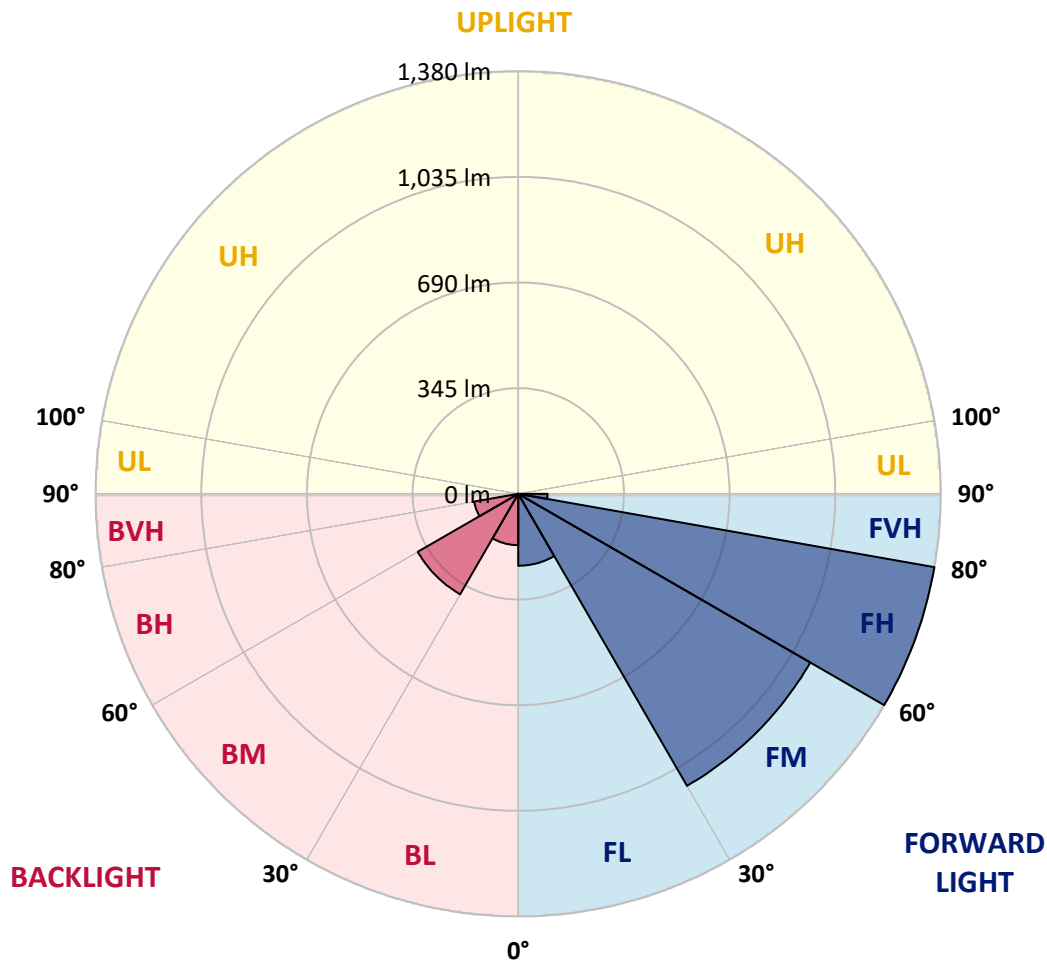
REPORT NUMBER: P959261
 CATALOG NUMBER: NAV-SB1A-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 234.9 | 6.7 | | | |
| FM (30°-60°) | 1101.7 | 31.4 | | | |
| FH (60°-80°) | 1380.5 | 39.3 | | | G1/1800 |
| FVH (80°-90°) | 95.8 | 2.7 | | | G1/100 |
| BL (0°-30°) | 167.8 | 4.8 | B1/500 | | |
| BM (30°-60°) | 379.1 | 10.8 | B1/1000 | | |
| BH (60°-80°) | 146.2 | 4.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.7 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Short



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 CATALOG NUMBER: NAV-SB1A-730-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 |
| 2.5° | 544.7 | 548.8 | 557.9 | 562.7 | 570.3 | 570.7 | 570.7 | 564.3 | 564.0 | 550.7 | 549.2 |
| 5° | 608.7 | 618.4 | 640.2 | 662.7 | 667.5 | 668.7 | 666.2 | 653.2 | 643.6 | 617.7 | 612.1 |
| 7.5° | 672.3 | 691.0 | 724.1 | 754.1 | 763.7 | 763.7 | 758.0 | 736.7 | 716.8 | 679.4 | 665.3 |
| 10° | 725.1 | 748.6 | 793.5 | 827.1 | 838.2 | 835.8 | 824.0 | 797.1 | 769.8 | 724.4 | 705.9 |
| 12.5° | 759.8 | 786.3 | 835.6 | 862.6 | 874.0 | 867.8 | 854.2 | 828.1 | 799.3 | 751.4 | 730.6 |
| 15° | 777.3 | 804.8 | 847.7 | 861.9 | 858.7 | 852.3 | 850.5 | 838.0 | 816.2 | 771.5 | 748.8 |
| 17.5° | 784.7 | 810.5 | 840.2 | 831.2 | 804.6 | 799.5 | 816.5 | 832.4 | 827.1 | 788.9 | 767.6 |
| 20° | 791.8 | 813.3 | 822.3 | 782.6 | 736.2 | 731.5 | 764.0 | 809.4 | 832.7 | 805.1 | 785.6 |
| 22.5° | 801.4 | 814.8 | 796.4 | 731.3 | 681.3 | 670.7 | 706.4 | 774.9 | 834.4 | 825.6 | 806.1 |
| 25° | 814.8 | 818.4 | 767.8 | 682.8 | 632.4 | 621.8 | 655.2 | 736.5 | 831.5 | 847.9 | 831.2 |
| 27.5° | 830.8 | 823.3 | 740.6 | 642.1 | 593.5 | 583.5 | 616.9 | 699.5 | 823.3 | 870.1 | 858.3 |
| 30° | 851.6 | 829.5 | 713.4 | 610.7 | 565.7 | 558.4 | 590.6 | 667.5 | 813.1 | 898.4 | 892.0 |
| 32.5° | 872.6 | 832.2 | 688.3 | 592.2 | 559.3 | 562.0 | 588.5 | 650.4 | 802.0 | 925.6 | 928.6 |
| 35° | 895.3 | 840.7 | 676.0 | 610.4 | 611.8 | 635.1 | 646.0 | 666.2 | 800.2 | 962.3 | 974.7 |
| 37.5° | 926.3 | 859.6 | 690.7 | 700.6 | 750.9 | 799.1 | 790.1 | 744.4 | 819.9 | 1017.2 | 1040.2 |
| 40° | 970.8 | 892.7 | 755.0 | 854.2 | 957.5 | 1035.6 | 1001.5 | 886.3 | 879.9 | 1096.2 | 1130.7 |
| 42.5° | 1035.6 | 945.4 | 869.2 | 1041.9 | 1217.0 | 1345.6 | 1254.2 | 1069.5 | 984.8 | 1209.2 | 1253.0 |
| 45° | 1131.4 | 1030.7 | 1007.3 | 1239.9 | 1536.9 | 1739.6 | 1549.5 | 1264.6 | 1131.8 | 1380.2 | 1414.6 |
| 47.5° | 1264.1 | 1156.3 | 1136.6 | 1448.6 | 1925.8 | 2188.0 | 1877.0 | 1445.6 | 1299.2 | 1613.4 | 1621.3 |
| 50° | 1440.4 | 1325.3 | 1259.3 | 1677.0 | 2352.2 | 2645.0 | 2204.2 | 1620.1 | 1491.0 | 1898.2 | 1889.1 |
| 52.5° | 1673.1 | 1561.1 | 1402.2 | 1894.4 | 2790.7 | 3092.5 | 2532.9 | 1773.5 | 1729.0 | 2228.9 | 2210.0 |
| 55° | 1990.3 | 1915.9 | 1597.7 | 2101.9 | 3228.9 | 3542.5 | 2848.7 | 1918.1 | 2043.3 | 2621.6 | 2507.5 |
| 57.5° | 2384.1 | 2437.3 | 1879.3 | 2342.5 | 3622.9 | 4006.4 | 3166.0 | 2120.2 | 2451.6 | 3060.8 | 2680.2 |
| 60° | 2638.0 | 3130.7 | 2418.9 | 2698.3 | 4070.5 | 4531.0 | 3600.8 | 2504.8 | 2880.7 | 3218.2 | 2647.3 |
| 62.5° | 2576.6 | 3351.2 | 3065.2 | 3152.5 | 4482.1 | 4912.3 | 4026.9 | 2891.0 | 2961.4 | 2986.3 | 2393.8 |
| 65° | 2388.2 | 3173.3 | 2933.3 | 3240.7 | 4586.4 | 4933.8 | 4140.9 | 2841.2 | 2512.1 | 2438.1 | 1924.1 |
| 67.5° | 2128.9 | 2962.1 | 2620.1 | 3006.6 | 4398.0 | 4633.0 | 3928.8 | 2513.3 | 1941.2 | 1829.5 | 1395.9 |
| 70° | 1849.1 | 2728.5 | 2414.6 | 2744.0 | 4038.8 | 4108.7 | 3568.2 | 2210.5 | 1427.8 | 1235.6 | 895.7 |
| 72.5° | 1583.6 | 2485.2 | 2273.9 | 2474.8 | 3559.7 | 3415.1 | 3098.8 | 1942.8 | 1039.7 | 891.2 | 636.7 |
| 75° | 1312.0 | 2126.3 | 2073.4 | 2155.1 | 2929.8 | 2690.0 | 2574.7 | 1608.5 | 816.0 | 644.7 | 439.4 |
| 77.5° | 1012.4 | 1661.5 | 1783.4 | 1725.8 | 2062.2 | 1998.1 | 1995.7 | 1208.8 | 596.1 | 430.2 | 275.4 |
| 80° | 692.9 | 1157.9 | 1393.3 | 1217.5 | 1338.3 | 1305.7 | 1503.1 | 810.9 | 432.4 | 259.0 | 153.3 |
| 82.5° | 407.2 | 705.0 | 969.8 | 589.4 | 740.0 | 759.6 | 895.0 | 394.4 | 254.4 | 59.8 | 33.4 |
| 85° | 165.2 | 278.4 | 379.2 | 230.7 | 357.0 | 301.1 | 339.8 | 110.8 | 70.8 | 1.4 | 0.0 |
| 87.5° | 41.6 | 89.0 | 62.4 | 25.8 | 41.3 | 37.9 | 30.0 | 13.5 | 2.9 | 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 |

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 CATALOG NUMBER: NAV-SB1A-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 |
| 2.5° | 539.8 | 534.2 | 520.5 | 506.7 | 495.6 | 480.5 | 470.7 | 458.8 | 447.4 | 437.3 | 435.3 |
| 5° | 596.9 | 578.5 | 553.3 | 530.3 | 506.9 | 484.2 | 461.7 | 438.0 | 416.3 | 402.9 | 394.4 |
| 7.5° | 643.3 | 610.9 | 577.5 | 548.3 | 520.0 | 493.3 | 463.6 | 434.8 | 400.8 | 382.6 | 366.1 |
| 10° | 677.9 | 635.3 | 591.5 | 557.9 | 529.4 | 503.5 | 478.4 | 449.4 | 408.3 | 385.5 | 360.8 |
| 12.5° | 700.6 | 650.1 | 598.8 | 560.4 | 528.4 | 508.4 | 497.2 | 485.8 | 445.0 | 418.4 | 382.6 |
| 15° | 716.4 | 660.5 | 603.9 | 554.8 | 515.6 | 500.8 | 512.0 | 525.0 | 499.0 | 468.2 | 421.6 |
| 17.5° | 733.5 | 674.0 | 606.1 | 539.8 | 490.7 | 484.4 | 513.2 | 543.5 | 542.2 | 511.8 | 466.1 |
| 20° | 751.6 | 685.8 | 604.6 | 515.6 | 460.4 | 466.1 | 502.8 | 537.8 | 552.6 | 536.2 | 495.6 |
| 22.5° | 770.3 | 697.2 | 599.0 | 484.2 | 432.1 | 449.6 | 486.4 | 517.1 | 534.4 | 529.4 | 498.5 |
| 25° | 793.8 | 713.2 | 590.8 | 450.3 | 408.7 | 432.9 | 467.2 | 492.2 | 504.2 | 504.0 | 482.7 |
| 27.5° | 821.7 | 734.5 | 586.5 | 423.0 | 392.1 | 414.0 | 444.5 | 466.8 | 475.2 | 475.2 | 458.3 |
| 30° | 854.4 | 759.6 | 581.7 | 405.1 | 382.3 | 394.4 | 418.2 | 439.9 | 448.3 | 448.3 | 434.1 |
| 32.5° | 890.7 | 783.8 | 570.0 | 394.2 | 375.2 | 375.4 | 390.3 | 410.2 | 420.4 | 421.8 | 411.6 |
| 35° | 934.3 | 809.6 | 544.7 | 385.5 | 366.6 | 356.7 | 364.0 | 380.4 | 392.5 | 395.6 | 389.4 |
| 37.5° | 991.3 | 841.4 | 508.4 | 372.7 | 353.6 | 337.1 | 338.9 | 351.4 | 364.7 | 369.5 | 365.4 |
| 40° | 1067.9 | 878.6 | 470.7 | 354.3 | 335.2 | 315.6 | 314.9 | 324.1 | 337.1 | 342.5 | 340.3 |
| 42.5° | 1169.3 | 923.3 | 434.6 | 336.6 | 312.9 | 292.8 | 291.7 | 298.9 | 310.3 | 315.8 | 314.9 |
| 45° | 1299.0 | 978.3 | 403.6 | 322.9 | 291.2 | 271.3 | 270.9 | 277.0 | 286.8 | 292.6 | 291.4 |
| 47.5° | 1479.2 | 1033.2 | 382.6 | 315.6 | 274.0 | 253.7 | 254.7 | 259.9 | 269.0 | 273.1 | 271.3 |
| 50° | 1714.0 | 1049.8 | 372.0 | 315.6 | 264.9 | 238.0 | 242.8 | 247.1 | 253.9 | 256.4 | 254.2 |
| 52.5° | 1939.4 | 994.7 | 362.2 | 317.5 | 266.0 | 224.7 | 235.0 | 238.2 | 244.1 | 245.0 | 241.8 |
| 55° | 2049.9 | 855.2 | 349.0 | 318.1 | 273.6 | 213.3 | 228.8 | 234.6 | 236.8 | 236.6 | 231.2 |
| 57.5° | 2011.9 | 691.5 | 326.5 | 316.1 | 278.6 | 206.0 | 221.1 | 232.2 | 233.6 | 231.4 | 221.5 |
| 60° | 1878.6 | 509.1 | 309.3 | 301.9 | 276.6 | 203.9 | 209.2 | 226.8 | 229.0 | 226.1 | 209.9 |
| 62.5° | 1655.2 | 353.3 | 296.0 | 270.4 | 268.2 | 203.2 | 190.5 | 215.2 | 220.6 | 216.5 | 192.7 |
| 65° | 1303.1 | 249.6 | 254.9 | 237.0 | 249.8 | 199.3 | 171.3 | 201.2 | 208.5 | 202.2 | 168.8 |
| 67.5° | 881.8 | 180.2 | 206.5 | 214.7 | 220.1 | 190.5 | 157.2 | 185.2 | 195.0 | 186.8 | 141.0 |
| 70° | 476.2 | 126.5 | 136.4 | 180.9 | 187.0 | 175.6 | 144.6 | 169.0 | 180.2 | 171.3 | 114.9 |
| 72.5° | 281.3 | 90.9 | 95.5 | 145.3 | 155.7 | 154.6 | 130.6 | 150.2 | 163.7 | 153.1 | 93.4 |
| 75° | 155.0 | 61.4 | 68.2 | 105.5 | 126.5 | 119.2 | 112.2 | 127.2 | 141.0 | 130.6 | 72.1 |
| 77.5° | 69.4 | 36.8 | 47.4 | 69.2 | 99.4 | 81.7 | 86.8 | 99.1 | 111.9 | 101.1 | 48.2 |
| 80° | 26.9 | 20.6 | 31.5 | 37.7 | 72.3 | 45.2 | 55.9 | 73.1 | 82.2 | 73.5 | 29.2 |
| 82.5° | 3.4 | 9.2 | 13.5 | 14.8 | 42.1 | 24.0 | 32.4 | 45.9 | 45.2 | 39.2 | 14.8 |
| 85° | 0.0 | 1.7 | 1.9 | 0.9 | 18.1 | 8.7 | 10.7 | 15.0 | 14.0 | 10.7 | 1.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 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 |

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CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 |
| 2.5° | 423.4 | 414.7 | 410.4 | 406.8 | 410.2 | 412.2 | 412.2 | 420.4 | 425.2 | 427.1 | 440.6 |
| 5° | 373.2 | 357.0 | 346.0 | 339.6 | 341.7 | 344.2 | 346.8 | 357.2 | 364.2 | 368.8 | 389.8 |
| 7.5° | 333.5 | 308.8 | 293.6 | 285.7 | 286.8 | 288.5 | 290.7 | 300.8 | 307.9 | 314.0 | 337.3 |
| 10° | 314.0 | 279.1 | 259.0 | 249.4 | 247.6 | 246.7 | 246.0 | 252.0 | 257.3 | 262.2 | 285.4 |
| 12.5° | 314.9 | 266.3 | 241.8 | 230.0 | 224.9 | 219.1 | 214.5 | 215.5 | 218.8 | 224.9 | 239.6 |
| 15° | 327.2 | 262.2 | 232.9 | 218.1 | 209.7 | 203.0 | 197.3 | 196.2 | 197.3 | 198.3 | 207.5 |
| 17.5° | 343.9 | 261.7 | 225.2 | 206.7 | 198.0 | 192.5 | 187.5 | 185.7 | 185.9 | 187.2 | 189.6 |
| 20° | 357.2 | 260.2 | 216.5 | 195.9 | 188.2 | 183.3 | 178.2 | 176.5 | 177.0 | 177.2 | 179.9 |
| 22.5° | 364.2 | 258.1 | 206.7 | 185.0 | 178.5 | 173.6 | 169.0 | 168.8 | 168.8 | 170.3 | 172.2 |
| 25° | 364.2 | 253.5 | 198.0 | 174.7 | 168.8 | 164.4 | 158.9 | 159.9 | 160.3 | 162.3 | 165.2 |
| 27.5° | 355.5 | 244.8 | 191.1 | 165.6 | 159.6 | 155.3 | 150.2 | 151.4 | 152.1 | 154.3 | 158.0 |
| 30° | 344.4 | 234.3 | 183.1 | 157.2 | 150.2 | 147.1 | 142.7 | 143.2 | 144.1 | 146.6 | 150.7 |
| 32.5° | 332.5 | 222.0 | 176.5 | 148.7 | 141.8 | 139.3 | 134.5 | 135.2 | 136.1 | 138.8 | 143.4 |
| 35° | 319.5 | 207.5 | 168.8 | 141.0 | 134.0 | 132.0 | 126.5 | 127.0 | 128.4 | 131.3 | 135.9 |
| 37.5° | 305.7 | 195.7 | 161.0 | 133.5 | 126.3 | 124.3 | 118.5 | 119.0 | 120.6 | 124.0 | 128.4 |
| 40° | 292.1 | 184.1 | 152.8 | 125.6 | 118.3 | 116.5 | 110.3 | 110.8 | 112.7 | 116.3 | 121.0 |
| 42.5° | 277.4 | 175.1 | 142.2 | 117.3 | 109.6 | 107.8 | 102.1 | 102.8 | 105.0 | 108.5 | 113.2 |
| 45° | 259.7 | 169.3 | 130.4 | 109.6 | 100.9 | 99.1 | 93.8 | 95.3 | 97.7 | 101.4 | 106.2 |
| 47.5° | 241.6 | 166.9 | 120.4 | 101.4 | 91.9 | 90.4 | 86.1 | 88.6 | 91.2 | 94.1 | 99.4 |
| 50° | 224.2 | 163.7 | 110.3 | 93.6 | 84.2 | 82.7 | 79.8 | 82.9 | 85.6 | 88.3 | 93.4 |
| 52.5° | 204.4 | 156.9 | 101.1 | 86.8 | 77.6 | 77.2 | 75.7 | 78.6 | 81.0 | 83.4 | 87.7 |
| 55° | 183.8 | 146.1 | 93.1 | 80.8 | 72.1 | 72.6 | 71.9 | 74.2 | 76.2 | 78.3 | 82.2 |
| 57.5° | 165.9 | 132.3 | 86.8 | 74.2 | 67.2 | 68.7 | 67.8 | 68.9 | 70.1 | 72.8 | 76.0 |
| 60° | 147.8 | 115.8 | 79.8 | 66.5 | 62.4 | 64.1 | 61.4 | 61.2 | 61.7 | 62.4 | 68.2 |
| 62.5° | 123.3 | 98.7 | 71.1 | 59.8 | 57.1 | 57.8 | 52.7 | 48.9 | 48.9 | 49.6 | 58.3 |
| 65° | 99.1 | 82.7 | 61.4 | 52.0 | 49.8 | 49.3 | 42.1 | 36.8 | 36.3 | 38.4 | 45.9 |
| 67.5° | 81.5 | 68.7 | 51.8 | 43.3 | 41.8 | 42.3 | 37.0 | 31.7 | 31.2 | 33.6 | 39.2 |
| 70° | 67.4 | 55.4 | 41.3 | 33.4 | 34.8 | 37.0 | 31.7 | 26.6 | 25.8 | 28.1 | 33.4 |
| 72.5° | 53.7 | 43.3 | 31.7 | 24.7 | 28.8 | 31.5 | 25.8 | 21.0 | 20.6 | 22.4 | 27.6 |
| 75° | 39.5 | 31.0 | 21.5 | 17.9 | 22.2 | 24.7 | 18.9 | 15.0 | 14.2 | 16.0 | 21.0 |
| 77.5° | 24.4 | 17.4 | 13.5 | 10.7 | 15.3 | 16.4 | 9.9 | 8.7 | 8.5 | 9.6 | 13.3 |
| 80° | 11.4 | 7.5 | 6.6 | 3.6 | 5.5 | 6.6 | 4.1 | 4.6 | 4.8 | 5.8 | 8.2 |
| 82.5° | 3.2 | 1.2 | 0.2 | 0.0 | 0.0 | 1.9 | 0.9 | 1.9 | 2.5 | 3.6 | 5.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.2 | 2.2 | 3.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 1.9 |
| 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):

| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 0° | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 | 486.2 |
| 2.5° | 450.8 | 460.4 | 475.9 | 491.9 | 507.7 | 523.6 | 539.0 | 544.7 |
| 5° | 409.0 | 431.2 | 462.0 | 494.8 | 528.7 | 563.0 | 594.5 | 608.7 |
| 7.5° | 362.2 | 394.2 | 440.4 | 491.9 | 545.8 | 599.7 | 649.3 | 672.3 |
| 10° | 312.4 | 352.8 | 405.6 | 475.2 | 552.6 | 627.1 | 695.3 | 725.1 |
| 12.5° | 265.1 | 307.4 | 365.7 | 449.2 | 547.2 | 642.8 | 724.8 | 759.8 |
| 15° | 225.4 | 262.9 | 325.7 | 418.2 | 530.1 | 643.8 | 738.8 | 777.3 |
| 17.5° | 195.7 | 220.1 | 285.2 | 383.8 | 507.7 | 634.9 | 743.6 | 784.7 |
| 20° | 180.9 | 187.7 | 232.4 | 339.8 | 486.6 | 626.4 | 748.6 | 791.8 |
| 22.5° | 172.2 | 173.8 | 190.1 | 283.0 | 461.5 | 623.7 | 757.0 | 801.4 |
| 25° | 165.2 | 165.6 | 170.0 | 224.2 | 423.0 | 622.1 | 770.1 | 814.8 |
| 27.5° | 158.2 | 158.2 | 160.6 | 180.7 | 370.7 | 614.8 | 787.0 | 830.8 |
| 30° | 151.2 | 151.2 | 152.8 | 159.9 | 309.5 | 600.5 | 807.3 | 851.6 |
| 32.5° | 143.9 | 143.9 | 145.3 | 150.5 | 247.1 | 582.6 | 825.9 | 872.6 |
| 35° | 136.6 | 136.1 | 138.1 | 143.4 | 196.6 | 559.9 | 844.5 | 895.3 |
| 37.5° | 128.9 | 128.6 | 130.6 | 136.6 | 169.7 | 533.5 | 858.5 | 926.3 |
| 40° | 120.6 | 120.6 | 122.9 | 129.4 | 162.1 | 500.4 | 880.8 | 970.8 |
| 42.5° | 113.2 | 112.7 | 115.1 | 123.1 | 156.2 | 468.7 | 920.7 | 1035.6 |
| 45° | 105.9 | 105.0 | 107.1 | 117.1 | 146.1 | 457.6 | 995.2 | 1131.4 |
| 47.5° | 99.1 | 96.8 | 98.7 | 109.8 | 136.8 | 499.2 | 1117.0 | 1264.1 |
| 50° | 93.6 | 89.0 | 90.7 | 102.5 | 129.9 | 589.4 | 1275.2 | 1440.4 |
| 52.5° | 87.7 | 81.7 | 82.7 | 93.6 | 123.6 | 675.3 | 1446.7 | 1673.1 |
| 55° | 81.7 | 74.9 | 75.4 | 84.7 | 114.6 | 688.1 | 1614.1 | 1990.3 |
| 57.5° | 74.9 | 68.7 | 68.7 | 76.5 | 108.1 | 596.3 | 1742.7 | 2384.1 |
| 60° | 67.4 | 63.3 | 62.1 | 69.9 | 113.9 | 420.8 | 1757.8 | 2638.0 |
| 62.5° | 59.2 | 57.1 | 55.4 | 63.7 | 118.3 | 249.4 | 1637.0 | 2576.6 |
| 65° | 49.8 | 49.3 | 48.2 | 69.9 | 99.6 | 147.3 | 1405.4 | 2388.2 |
| 67.5° | 41.8 | 41.1 | 41.1 | 73.3 | 75.7 | 92.7 | 1098.0 | 2128.9 |
| 70° | 36.1 | 33.4 | 33.4 | 55.4 | 45.9 | 64.1 | 766.7 | 1849.1 |
| 72.5° | 30.2 | 27.4 | 25.4 | 44.3 | 34.3 | 46.9 | 479.1 | 1583.6 |
| 75° | 24.2 | 22.0 | 19.6 | 29.2 | 25.6 | 35.6 | 278.4 | 1312.0 |
| 77.5° | 17.4 | 16.4 | 13.7 | 21.5 | 18.7 | 25.6 | 165.6 | 1012.4 |
| 80° | 8.9 | 9.2 | 8.7 | 12.3 | 12.6 | 17.4 | 94.3 | 692.9 |
| 82.5° | 5.3 | 4.1 | 4.6 | 6.0 | 7.3 | 9.9 | 35.6 | 407.2 |
| 85° | 3.4 | 2.2 | 2.2 | 2.9 | 3.6 | 3.9 | 10.9 | 165.2 |
| 87.5° | 1.7 | 0.7 | 0.9 | 1.4 | 1.2 | 0.9 | 0.5 | 41.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)