

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: P963596

Luminaire Tested: **NAV-SB3A-760-U-SL2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P963596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3A-760-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 14506.8 lumens  
Efficiency: N/A  
Efficacy: 171.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

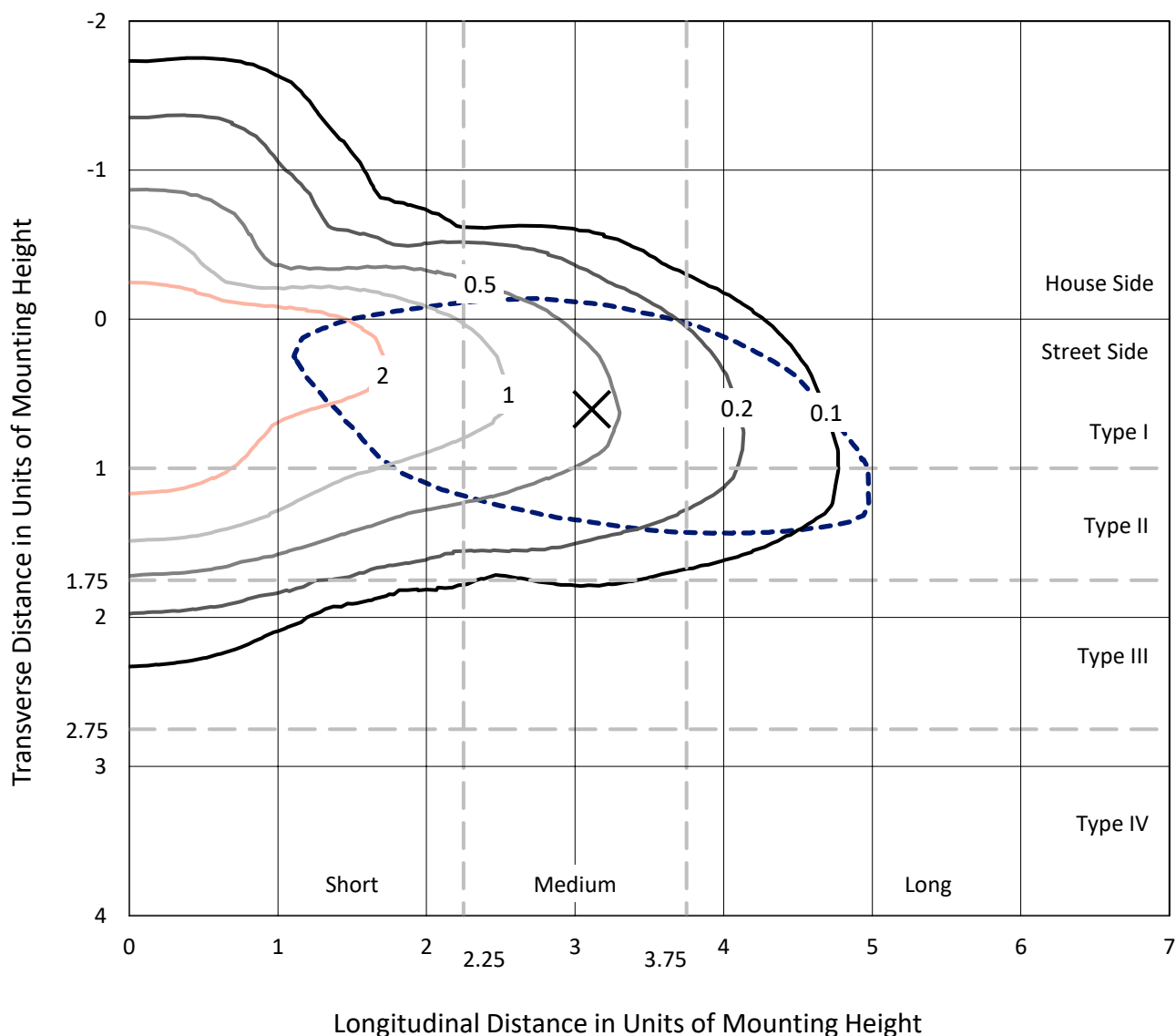
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

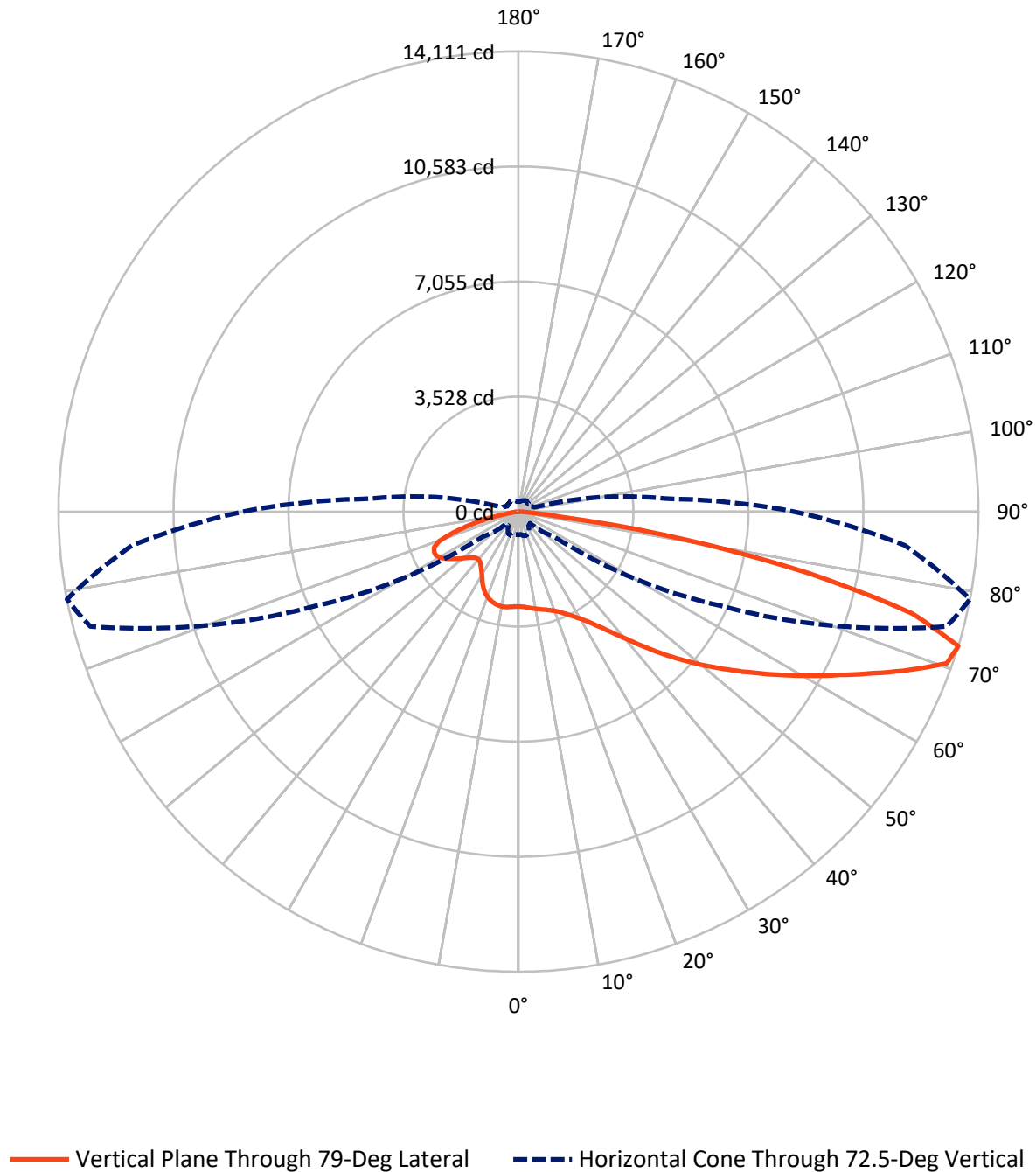
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3192.3   | 0.0    | 3192.3  |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 11314.5  | 0.0    | 11314.5 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 14506.8  | 0.0    | 14506.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 264.3   | 1.8       |
| 10°-20°   | 691.1   | 4.8       |
| 20°-30°   | 1115.2  | 7.7       |
| 30°-40°   | 1673.7  | 11.5      |
| 40°-50°   | 2374.2  | 16.4      |
| 50°-60°   | 2998.3  | 20.7      |
| 60°-70°   | 3045.2  | 21.0      |
| 70°-80°   | 2075.4  | 14.3      |
| 80°-90°   | 269.3   | 1.9       |
| 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°    | 14506.8 | 100.0     |
| 0°-180°   | 14506.8 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P963596

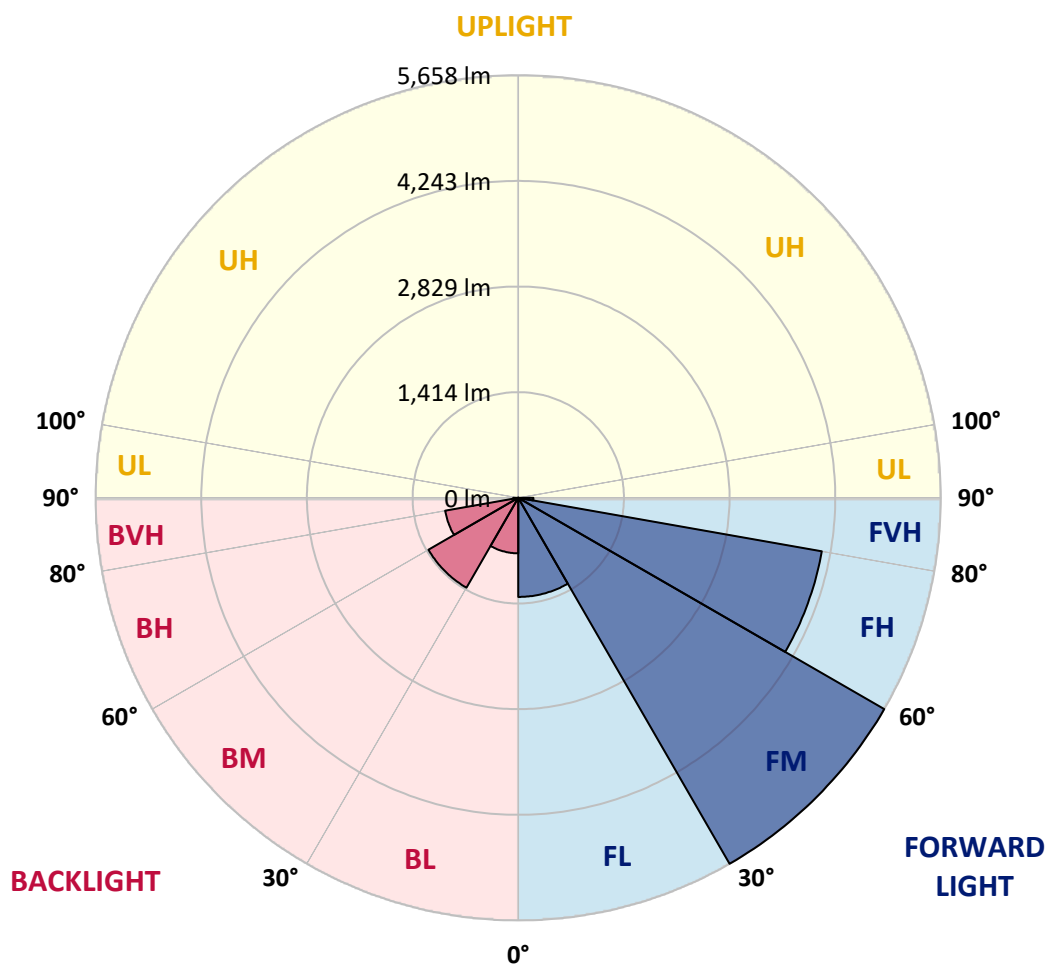
CATALOG NUMBER: NAV-SB3A-760-U-SL2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1327.0 | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 5658.0 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 4126.7 | 28.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 202.8  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 743.6  | 5.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1388.3 | 9.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 994.0  | 6.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 66.4   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium



REPORT NUMBER: P963596

CATALOG NUMBER: NAV-SB3A-760-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 79°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 2912.1 | 2912.1 | 2912.1 | 2912.1 | 2912.1 | 2912.1 | 2912.1 | 2912.1 | 2912.1  | 2912.1  | 2912.1  |
| 2.5°  | 2913.7 | 2899.8 | 2908.2 | 2905.2 | 2909.1 | 2913.7 | 2915.2 | 2917.5 | 2925.1  | 2924.4  | 2923.6  |
| 5°    | 2907.5 | 2893.7 | 2905.2 | 2901.4 | 2911.3 | 2922.1 | 2931.3 | 2939.7 | 2952.0  | 2957.3  | 2949.7  |
| 7.5°  | 2894.5 | 2885.3 | 2896.8 | 2908.2 | 2926.7 | 2942.8 | 2955.9 | 2975.1 | 2992.7  | 2995.8  | 3001.1  |
| 10°   | 2818.4 | 2811.6 | 2838.4 | 2868.4 | 2919.0 | 2962.8 | 2991.2 | 3013.4 | 3032.6  | 3035.6  | 3043.3  |
| 12.5° | 2739.4 | 2731.0 | 2760.9 | 2801.6 | 2883.7 | 2962.8 | 3022.6 | 3051.7 | 3068.6  | 3078.6  | 3090.2  |
| 15°   | 2726.4 | 2719.5 | 2736.3 | 2771.7 | 2840.0 | 2942.1 | 3044.0 | 3097.9 | 3112.4  | 3123.9  | 3128.5  |
| 17.5° | 2789.3 | 2776.3 | 2783.2 | 2795.5 | 2835.4 | 2922.9 | 3061.0 | 3150.0 | 3172.3  | 3184.5  | 3184.5  |
| 20°   | 2935.1 | 2916.7 | 2906.0 | 2881.4 | 2874.5 | 2926.0 | 3059.4 | 3212.9 | 3242.1  | 3257.4  | 3261.2  |
| 22.5° | 3129.2 | 3117.0 | 3094.0 | 3031.8 | 2964.3 | 2963.5 | 3088.6 | 3293.5 | 3348.0  | 3362.5  | 3353.3  |
| 25°   | 3364.0 | 3345.7 | 3316.5 | 3232.1 | 3102.4 | 3038.0 | 3137.7 | 3396.3 | 3487.7  | 3491.5  | 3464.6  |
| 27.5° | 3634.1 | 3606.6 | 3566.7 | 3455.4 | 3280.4 | 3154.5 | 3212.9 | 3514.5 | 3648.0  | 3646.4  | 3591.2  |
| 30°   | 3918.9 | 3891.2 | 3849.1 | 3714.0 | 3493.7 | 3311.9 | 3317.3 | 3641.8 | 3838.3  | 3829.9  | 3735.5  |
| 32.5° | 4126.9 | 4106.2 | 4097.6 | 3993.3 | 3739.3 | 3497.6 | 3436.9 | 3783.1 | 4073.1  | 4065.5  | 3933.4  |
| 35°   | 4286.4 | 4259.6 | 4269.5 | 4216.6 | 4007.1 | 3705.6 | 3583.5 | 3951.1 | 4358.6  | 4357.8  | 4193.6  |
| 37.5° | 4444.5 | 4420.7 | 4429.1 | 4393.9 | 4255.0 | 3969.5 | 3762.4 | 4156.8 | 4712.3  | 4729.2  | 4508.2  |
| 40°   | 4588.8 | 4563.4 | 4597.2 | 4564.2 | 4447.6 | 4250.4 | 3965.7 | 4389.3 | 5122.1  | 5154.3  | 4888.8  |
| 42.5° | 4675.4 | 4655.5 | 4711.5 | 4712.3 | 4614.9 | 4487.4 | 4189.0 | 4645.6 | 5596.3  | 5668.5  | 5356.9  |
| 45°   | 4705.4 | 4698.5 | 4783.0 | 4800.6 | 4763.0 | 4624.8 | 4390.1 | 4924.9 | 6107.4  | 6236.3  | 5890.2  |
| 47.5° | 4673.2 | 4660.2 | 4776.8 | 4842.0 | 4871.9 | 4689.3 | 4556.5 | 5227.2 | 6629.2  | 6817.9  | 6471.8  |
| 50°   | 4510.5 | 4485.2 | 4658.6 | 4796.0 | 4902.6 | 4731.5 | 4724.6 | 5576.4 | 7222.4  | 7428.8  | 7056.6  |
| 52.5° | 4218.2 | 4198.9 | 4396.1 | 4634.8 | 4835.1 | 4752.2 | 4913.3 | 5957.7 | 7785.6  | 8052.6  | 7655.9  |
| 55°   | 3844.5 | 3819.2 | 4036.2 | 4347.8 | 4667.0 | 4745.3 | 5102.1 | 6384.4 | 8450.1  | 8721.0  | 8275.1  |
| 57.5° | 3252.0 | 3201.4 | 3476.1 | 3844.5 | 4393.2 | 4736.8 | 5298.5 | 6808.8 | 9125.4  | 9450.0  | 8935.8  |
| 60°   | 2388.0 | 2312.8 | 2649.6 | 3086.3 | 3857.5 | 4654.7 | 5541.9 | 7284.5 | 9935.7  | 10228.1 | 9657.1  |
| 62.5° | 1390.4 | 1346.7 | 1566.9 | 1974.4 | 2907.5 | 4171.3 | 5678.4 | 7837.8 | 10732.2 | 11039.1 | 10366.1 |
| 65°   | 1079.6 | 1067.4 | 1086.6 | 1118.1 | 1618.4 | 3123.2 | 5257.1 | 8377.2 | 11745.1 | 11960.0 | 11105.2 |
| 67.5° | 987.6  | 978.4  | 986.8  | 927.7  | 821.0  | 1739.6 | 4159.0 | 8513.8 | 12830.1 | 12960.6 | 11752.0 |
| 70°   | 877.8  | 867.2  | 894.7  | 844.1  | 646.2  | 791.1  | 2687.2 | 8018.1 | 13693.4 | 13938.3 | 12243.9 |
| 72.5° | 715.1  | 702.9  | 767.3  | 744.4  | 544.1  | 508.0  | 1349.8 | 6840.2 | 13602.9 | 14110.9 | 11891.6 |
| 75°   | 549.4  | 542.5  | 619.3  | 638.5  | 443.5  | 399.7  | 647.7  | 5084.5 | 11970.7 | 12482.6 | 10248.8 |
| 77.5° | 426.6  | 421.3  | 460.4  | 530.2  | 357.6  | 310.0  | 398.2  | 3225.2 | 9021.0  | 9110.8  | 7062.8  |
| 80°   | 320.0  | 304.6  | 340.7  | 410.5  | 278.6  | 226.3  | 270.1  | 1880.8 | 5702.2  | 5168.9  | 3074.0  |
| 82.5° | 200.3  | 192.6  | 222.5  | 274.0  | 196.5  | 155.8  | 175.7  | 1039.0 | 2285.1  | 1345.9  | 593.2   |
| 85°   | 114.3  | 111.3  | 121.3  | 156.5  | 106.7  | 89.8   | 100.6  | 458.9  | 417.5   | 287.0   | 178.8   |
| 87.5° | 46.0   | 44.5   | 55.2   | 69.8   | 39.2   | 33.0   | 35.3   | 110.5  | 92.0    | 85.2    | 59.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P963596

CATALOG NUMBER: NAV-SB3A-760-U-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2912.1 | 2912.1 | 2912.1 | 2912.1 | 2912.1 | 2912.1 | 2912.1 | 2912.1 | 2912.1 | 2912.1 | 2912.1 |
| 2.5°  | 2920.5 | 2920.5 | 2909.8 | 2893.0 | 2873.7 | 2861.5 | 2841.5 | 2836.2 | 2815.5 | 2809.3 | 2819.3 |
| 5°    | 2955.9 | 2949.7 | 2916.7 | 2869.2 | 2803.9 | 2744.0 | 2678.0 | 2636.6 | 2578.3 | 2557.6 | 2573.0 |
| 7.5°  | 3000.4 | 2983.5 | 2926.7 | 2822.3 | 2685.7 | 2551.4 | 2411.8 | 2305.9 | 2204.6 | 2168.6 | 2173.1 |
| 10°   | 3041.1 | 3017.2 | 2920.5 | 2737.9 | 2501.6 | 2269.0 | 2046.5 | 1890.7 | 1772.6 | 1724.3 | 1735.0 |
| 12.5° | 3081.7 | 3038.0 | 2879.8 | 2597.5 | 2239.9 | 1924.5 | 1687.5 | 1566.2 | 1493.2 | 1435.0 | 1454.2 |
| 15°   | 3120.1 | 3058.7 | 2816.9 | 2409.5 | 1952.9 | 1632.9 | 1458.0 | 1361.3 | 1303.0 | 1264.6 | 1271.5 |
| 17.5° | 3164.6 | 3076.3 | 2722.6 | 2170.8 | 1679.8 | 1431.1 | 1288.4 | 1230.1 | 1218.5 | 1213.9 | 1217.0 |
| 20°   | 3226.7 | 3092.4 | 2598.3 | 1903.8 | 1478.7 | 1270.0 | 1196.3 | 1190.9 | 1190.1 | 1187.9 | 1195.6 |
| 22.5° | 3293.5 | 3111.6 | 2434.1 | 1661.3 | 1307.6 | 1169.4 | 1156.4 | 1145.6 | 1138.8 | 1138.0 | 1146.5 |
| 25°   | 3372.6 | 3117.7 | 2228.4 | 1462.6 | 1161.7 | 1121.9 | 1106.5 | 1090.4 | 1085.8 | 1085.8 | 1090.4 |
| 27.5° | 3449.2 | 3097.0 | 1989.0 | 1290.0 | 1079.6 | 1078.1 | 1058.2 | 1052.8 | 1052.1 | 1054.3 | 1060.5 |
| 30°   | 3526.0 | 3057.9 | 1751.1 | 1130.3 | 1032.1 | 1032.1 | 1025.2 | 1029.0 | 1032.1 | 1039.8 | 1045.1 |
| 32.5° | 3629.6 | 3016.5 | 1552.4 | 1012.2 | 990.7  | 983.0  | 989.8  | 997.5  | 1000.6 | 1010.6 | 1019.1 |
| 35°   | 3781.5 | 2987.3 | 1394.3 | 947.7  | 947.7  | 937.7  | 941.6  | 940.0  | 933.1  | 928.5  | 939.2  |
| 37.5° | 3982.5 | 2985.7 | 1263.8 | 917.8  | 911.6  | 910.1  | 910.8  | 900.9  | 874.0  | 841.8  | 842.6  |
| 40°   | 4224.3 | 3027.2 | 1163.3 | 897.1  | 892.5  | 901.6  | 897.1  | 870.2  | 796.5  | 740.5  | 738.9  |
| 42.5° | 4548.8 | 3145.4 | 1098.8 | 871.8  | 885.5  | 897.1  | 878.6  | 785.8  | 735.8  | 698.3  | 696.8  |
| 45°   | 4931.0 | 3337.2 | 1065.9 | 844.9  | 872.5  | 886.3  | 797.2  | 756.7  | 716.7  | 671.5  | 668.4  |
| 47.5° | 5363.8 | 3578.9 | 1058.2 | 819.5  | 843.4  | 851.8  | 762.7  | 744.4  | 699.0  | 650.0  | 646.2  |
| 50°   | 5834.9 | 3865.2 | 1078.9 | 789.6  | 801.1  | 771.9  | 751.2  | 734.3  | 687.6  | 639.2  | 633.9  |
| 52.5° | 6322.2 | 4180.6 | 1120.3 | 749.0  | 758.9  | 726.7  | 746.6  | 732.1  | 680.6  | 615.4  | 610.8  |
| 55°   | 6801.1 | 4498.2 | 1160.2 | 701.4  | 716.0  | 686.0  | 733.6  | 722.8  | 649.1  | 575.5  | 571.6  |
| 57.5° | 7287.5 | 4814.4 | 1199.4 | 659.2  | 674.6  | 646.9  | 712.9  | 698.3  | 613.9  | 538.6  | 537.1  |
| 60°   | 7793.3 | 5121.3 | 1217.8 | 618.5  | 629.2  | 610.8  | 681.4  | 656.1  | 574.0  | 501.1  | 498.8  |
| 62.5° | 8266.7 | 5376.8 | 1187.9 | 577.8  | 584.8  | 577.1  | 640.0  | 606.2  | 534.1  | 458.9  | 458.1  |
| 65°   | 8741.7 | 5528.7 | 1095.8 | 537.9  | 539.5  | 535.6  | 581.7  | 552.5  | 487.3  | 422.1  | 417.5  |
| 67.5° | 9172.2 | 5613.9 | 949.3  | 495.0  | 491.1  | 489.5  | 527.2  | 494.2  | 442.0  | 385.2  | 380.6  |
| 70°   | 9263.5 | 5397.5 | 725.2  | 444.3  | 444.3  | 440.4  | 467.3  | 433.6  | 392.2  | 346.0  | 344.5  |
| 72.5° | 8460.9 | 4540.4 | 514.9  | 386.7  | 392.9  | 385.2  | 407.4  | 379.0  | 341.4  | 310.8  | 301.6  |
| 75°   | 6822.5 | 3329.5 | 374.4  | 327.7  | 338.4  | 325.3  | 346.0  | 326.2  | 293.9  | 293.2  | 263.9  |
| 77.5° | 4687.7 | 2058.8 | 271.6  | 270.1  | 277.8  | 260.9  | 284.6  | 274.0  | 244.8  | 231.8  | 217.2  |
| 80°   | 2000.5 | 821.0  | 197.9  | 208.7  | 208.7  | 193.4  | 221.0  | 224.1  | 198.7  | 192.6  | 192.6  |
| 82.5° | 398.2  | 233.3  | 138.9  | 143.5  | 135.1  | 130.5  | 156.5  | 173.4  | 239.4  | 266.3  | 267.0  |
| 85°   | 119.7  | 85.9   | 83.6   | 78.3   | 69.1   | 69.8   | 92.0   | 174.1  | 214.8  | 122.8  | 105.9  |
| 87.5° | 33.0   | 21.5   | 22.2   | 17.6   | 14.6   | 19.2   | 31.5   | 132.0  | 72.2   | 30.6   | 26.1   |
| 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)