

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: P971315

Luminaire Tested: **NAV-SB6D-722-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971315  
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-SB6D-722-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

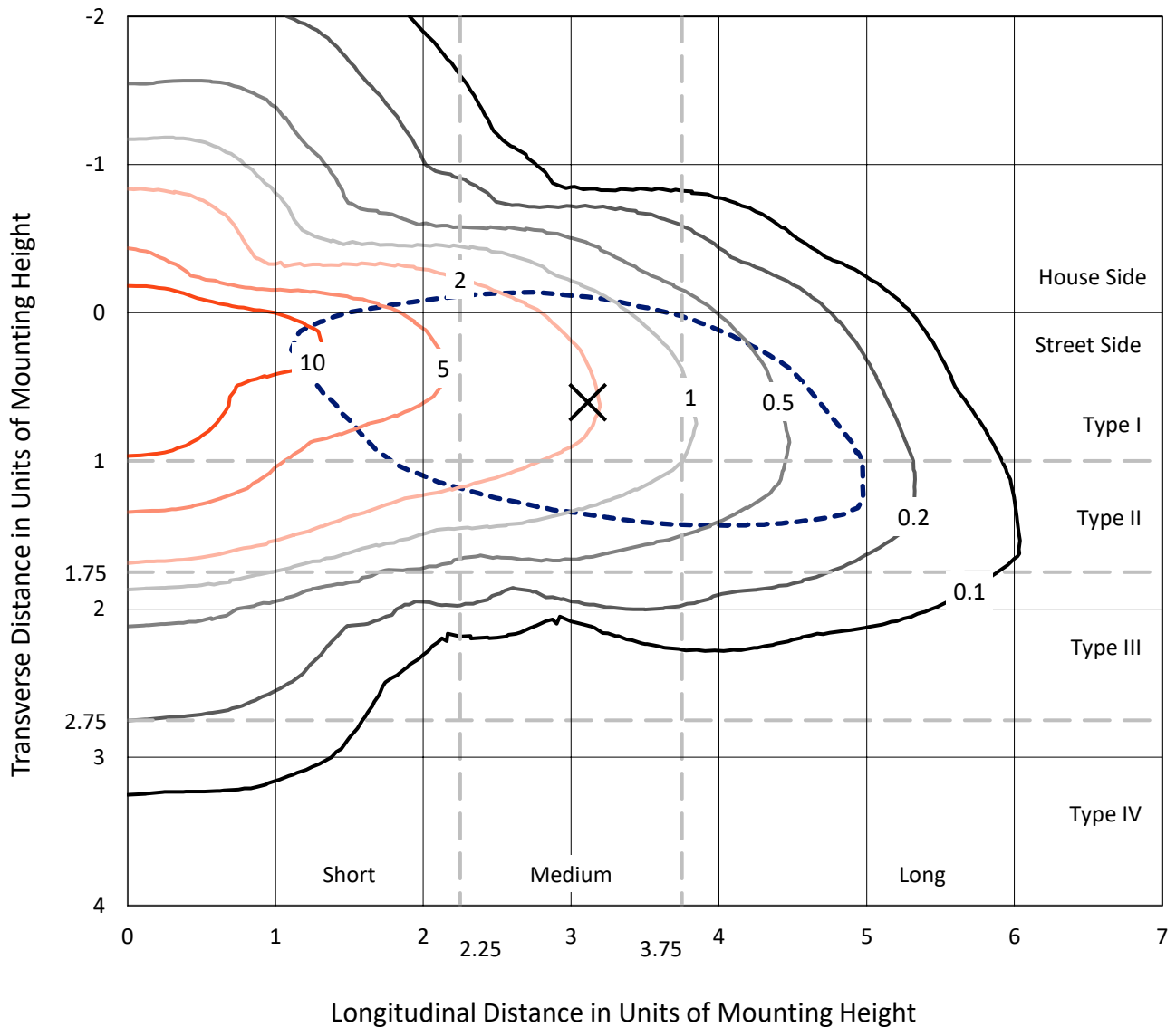
Lumens per Lamp: N/A  
Luminaire Lumens: 51934.7 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): 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: P971315  
 CATALOG NUMBER: NAV-SB6D-722-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

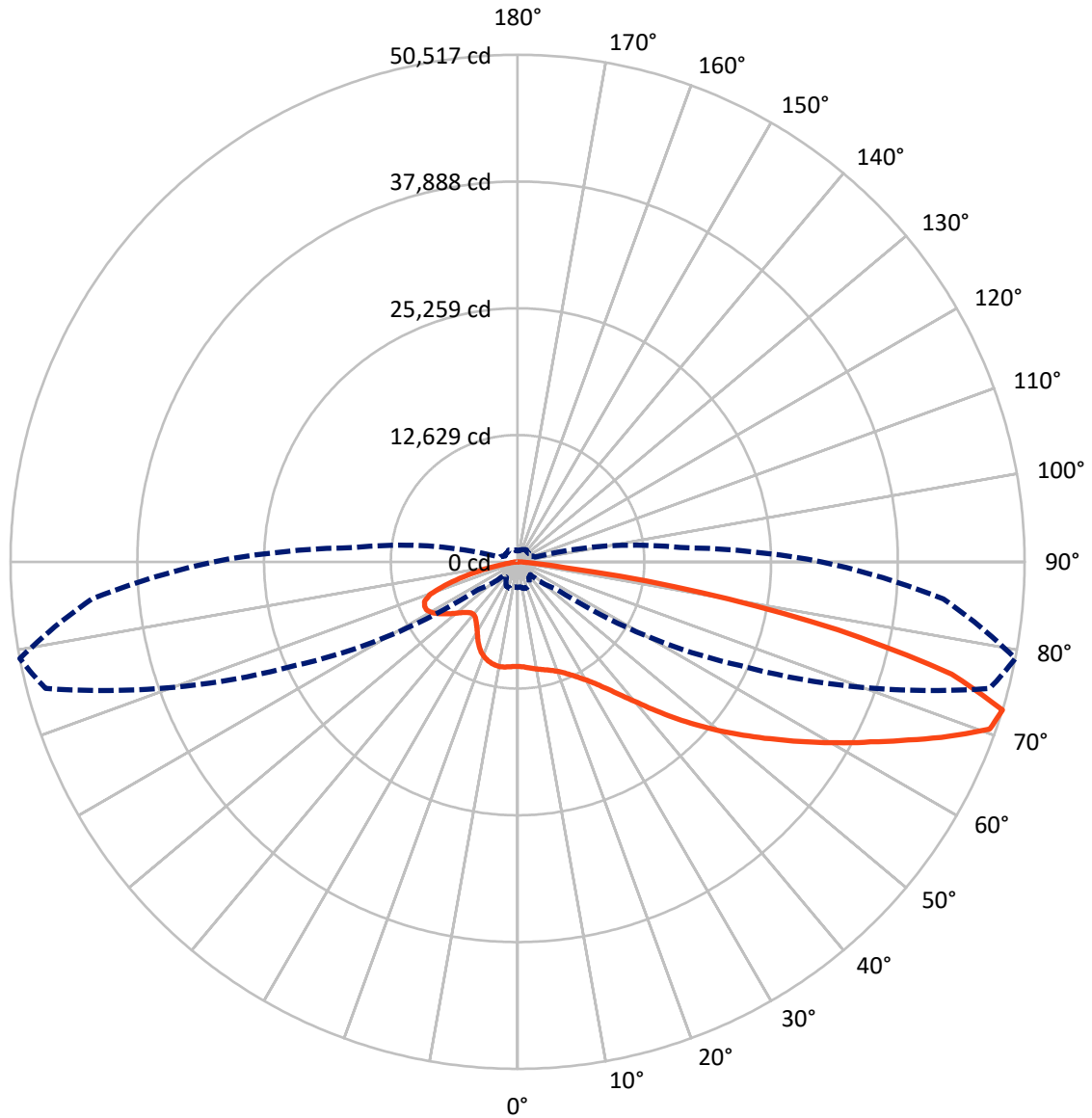
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P971315  
CATALOG NUMBER: NAV-SB6D-722-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P971315  
 CATALOG NUMBER: NAV-SB6D-722-U-SL2

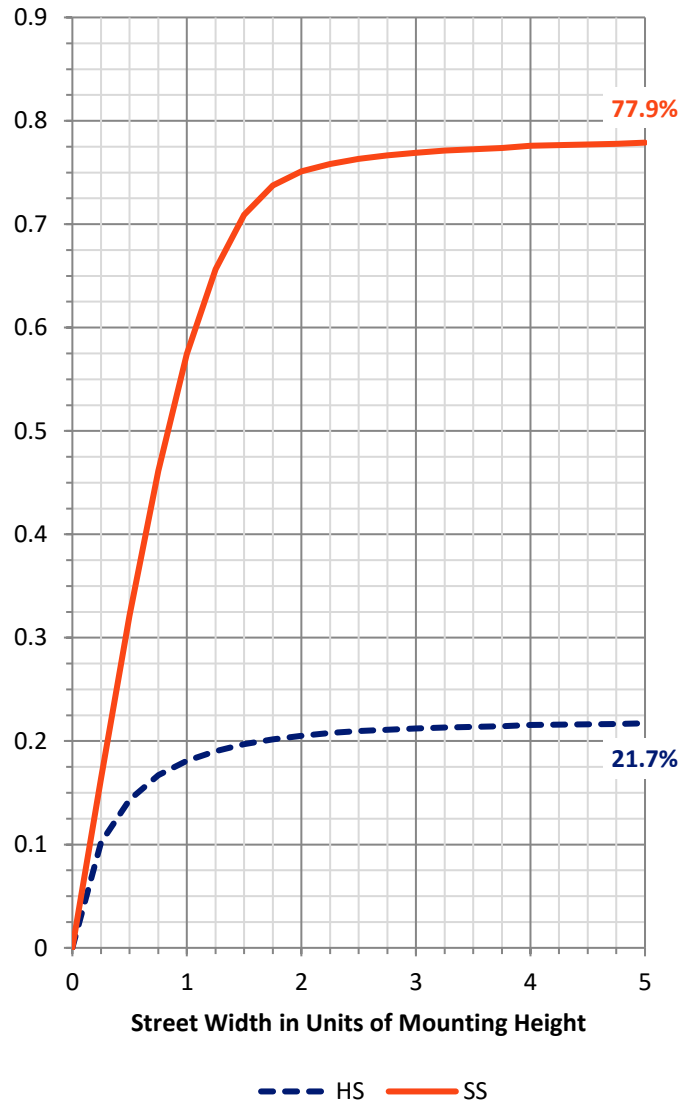
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11428.5  | 0.0    | 11428.5 |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 40506.2  | 0.0    | 40506.2 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 51934.7  | 0.0    | 51934.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 946.3   | 1.8       |
| 10°-20°   | 2474.2  | 4.8       |
| 20°-30°   | 3992.3  | 7.7       |
| 30°-40°   | 5991.9  | 11.5      |
| 40°-50°   | 8499.8  | 16.4      |
| 50°-60°   | 10734.1 | 20.7      |
| 60°-70°   | 10902.0 | 21.0      |
| 70°-80°   | 7430.2  | 14.3      |
| 80°-90°   | 964.0   | 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°    | 51934.7 | 100.0     |
| 0°-180°   | 51934.7 | 100.0     |

**Coefficient of Utilization**

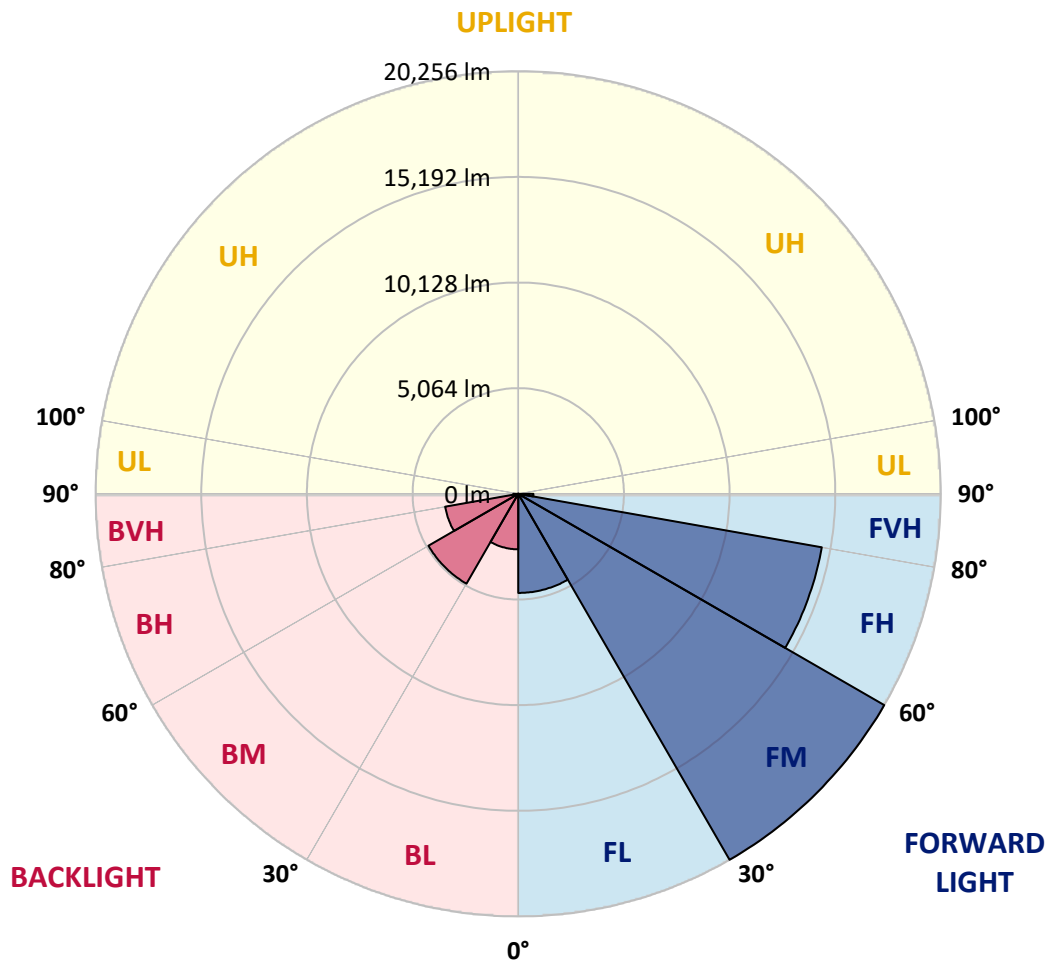


REPORT NUMBER: P971315  
 CATALOG NUMBER: NAV-SB6D-722-U-SL2

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4750.8  | 9.1       |                         |      |         |
| FM (30°-60°)   | 20255.6 | 39.0      |                         |      |         |
| FH (60°-80°)   | 14773.7 | 28.4      |                         |      | G5      |
| FVH (80°-90°)  | 726.2   | 1.4       |                         |      | G4/750  |
| BL (0°-30°)    | 2662.0  | 5.1       | B4/5000                 |      |         |
| BM (30°-60°)   | 4970.2  | 9.6       | B3/5000                 |      |         |
| BH (60°-80°)   | 3558.5  | 6.9       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 237.8   | 0.5       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type II Medium



REPORT NUMBER: P971315  
 CATALOG NUMBER: NAV-SB6D-722-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 |
| 2.5°  | 10430.9 | 10381.4 | 10411.6 | 10400.7 | 10414.4 | 10430.9 | 10436.3 | 10444.6 | 10472.1 | 10469.3 | 10466.6 |
| 5°    | 10408.9 | 10359.5 | 10400.7 | 10386.9 | 10422.6 | 10461.2 | 10494.1 | 10524.3 | 10568.3 | 10587.4 | 10560.0 |
| 7.5°  | 10362.2 | 10329.2 | 10370.4 | 10411.6 | 10477.6 | 10535.3 | 10582.0 | 10650.7 | 10713.8 | 10724.9 | 10744.0 |
| 10°   | 10090.2 | 10065.5 | 10161.6 | 10268.9 | 10450.1 | 10606.7 | 10708.4 | 10788.0 | 10856.7 | 10867.7 | 10895.1 |
| 12.5° | 9807.3  | 9777.1  | 9884.2  | 10029.8 | 10323.8 | 10606.7 | 10821.0 | 10925.4 | 10985.8 | 11021.5 | 11062.7 |
| 15°   | 9760.6  | 9735.9  | 9796.3  | 9922.7  | 10167.2 | 10532.5 | 10897.9 | 11090.2 | 11142.4 | 11183.6 | 11200.1 |
| 17.5° | 9985.9  | 9939.1  | 9963.9  | 10007.8 | 10150.7 | 10463.8 | 10958.4 | 11277.0 | 11356.7 | 11400.7 | 11400.7 |
| 20°   | 10507.8 | 10441.9 | 10403.4 | 10315.5 | 10290.8 | 10474.9 | 10952.8 | 11502.2 | 11606.7 | 11661.6 | 11675.4 |
| 22.5° | 11202.8 | 11158.9 | 11076.5 | 10853.9 | 10612.2 | 10609.5 | 11057.3 | 11790.7 | 11985.7 | 12038.0 | 12005.0 |
| 25°   | 12043.4 | 11977.5 | 11873.2 | 11570.9 | 11106.7 | 10876.0 | 11233.1 | 12158.9 | 12485.7 | 12499.5 | 12403.3 |
| 27.5° | 13010.4 | 12911.5 | 12768.7 | 12370.4 | 11744.0 | 11293.4 | 11502.2 | 12581.9 | 13059.9 | 13054.4 | 12856.6 |
| 30°   | 14029.7 | 13930.8 | 13779.7 | 13296.2 | 12507.8 | 11856.7 | 11875.9 | 13037.9 | 13741.2 | 13711.0 | 13373.1 |
| 32.5° | 14774.1 | 14699.9 | 14669.7 | 14296.1 | 13386.8 | 12521.5 | 12304.4 | 13543.4 | 14581.9 | 14554.4 | 14081.9 |
| 35°   | 15345.5 | 15249.3 | 15285.1 | 15095.6 | 14345.6 | 13266.0 | 12829.1 | 14145.0 | 15603.8 | 15601.0 | 15013.1 |
| 37.5° | 15911.5 | 15826.3 | 15856.4 | 15730.2 | 15232.9 | 14210.9 | 13469.2 | 14881.3 | 16870.2 | 16930.6 | 16139.4 |
| 40°   | 16427.9 | 16337.3 | 16458.1 | 16340.0 | 15922.5 | 15216.4 | 14197.2 | 15713.7 | 18337.1 | 18452.6 | 17502.1 |
| 42.5° | 16738.4 | 16666.9 | 16867.4 | 16870.2 | 16521.3 | 16065.2 | 14996.7 | 16631.1 | 20034.9 | 20293.2 | 19177.8 |
| 45°   | 16845.5 | 16820.8 | 17122.9 | 17186.1 | 17051.5 | 16557.0 | 15716.4 | 17631.1 | 21864.5 | 22326.0 | 21087.0 |
| 47.5° | 16730.0 | 16683.4 | 17101.0 | 17334.5 | 17441.6 | 16787.8 | 16312.6 | 18713.5 | 23732.5 | 24408.3 | 23169.4 |
| 50°   | 16147.6 | 16057.0 | 16677.9 | 17169.7 | 17551.5 | 16938.8 | 16914.1 | 19963.5 | 25856.0 | 26595.1 | 25262.7 |
| 52.5° | 15101.0 | 15032.3 | 15738.4 | 16592.7 | 17309.7 | 17013.1 | 17589.9 | 21328.8 | 27872.5 | 28828.5 | 27408.2 |
| 55°   | 13763.2 | 13672.5 | 14449.9 | 15565.3 | 16708.1 | 16988.4 | 18265.7 | 22856.2 | 30251.5 | 31221.3 | 29625.2 |
| 57.5° | 11642.4 | 11461.0 | 12444.5 | 13763.2 | 15727.4 | 16958.1 | 18969.0 | 24375.4 | 32669.0 | 33831.0 | 31990.5 |
| 60°   | 8549.1  | 8279.8  | 9485.9  | 11049.0 | 13809.8 | 16664.1 | 19839.8 | 26078.6 | 35570.0 | 36616.6 | 34572.7 |
| 62.5° | 4977.8  | 4821.2  | 5609.6  | 7068.4  | 10408.9 | 14933.4 | 20328.8 | 28059.3 | 38421.5 | 39520.3 | 37111.1 |
| 65°   | 3865.3  | 3821.3  | 3890.0  | 4002.6  | 5793.7  | 11180.9 | 18820.6 | 29990.6 | 42047.8 | 42816.9 | 39756.6 |
| 67.5° | 3535.5  | 3502.6  | 3532.9  | 3321.3  | 2939.4  | 6227.8  | 14889.5 | 30479.5 | 45932.2 | 46399.2 | 42072.5 |
| 70°   | 3142.8  | 3104.3  | 3203.1  | 3021.9  | 2313.1  | 2832.3  | 9620.4  | 28704.8 | 49022.7 | 49899.0 | 43833.4 |
| 72.5° | 2560.3  | 2516.4  | 2747.1  | 2664.7  | 1947.7  | 1818.7  | 4832.3  | 24488.0 | 48698.6 | 50517.1 | 42572.5 |
| 75°   | 1967.0  | 1942.3  | 2217.0  | 2285.6  | 1587.8  | 1431.3  | 2318.5  | 18202.6 | 42855.4 | 44687.7 | 36690.8 |
| 77.5° | 1527.5  | 1508.2  | 1648.3  | 1898.3  | 1280.1  | 1109.9  | 1425.8  | 11546.2 | 32295.4 | 32616.8 | 25284.7 |
| 80°   | 1145.5  | 1090.6  | 1219.8  | 1469.7  | 997.2   | 810.4   | 967.0   | 6733.2  | 20414.0 | 18504.7 | 11005.0 |
| 82.5° | 717.0   | 689.5   | 796.6   | 980.7   | 703.3   | 557.7   | 629.1   | 3719.6  | 8180.9  | 4818.5  | 2123.5  |
| 85°   | 409.3   | 398.3   | 434.1   | 560.4   | 381.8   | 321.4   | 359.9   | 1642.8  | 1494.4  | 1027.5  | 640.1   |
| 87.5° | 164.8   | 159.3   | 197.8   | 250.0   | 140.1   | 118.1   | 126.4   | 395.5   | 329.6   | 304.9   | 211.6   |
| 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: P971315  
 CATALOG NUMBER: NAV-SB6D-722-U-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 | 10425.4 |
| 2.5°  | 10455.6 | 10455.6 | 10417.2 | 10356.7 | 10288.0 | 10244.1 | 10172.6 | 10153.4 | 10079.2 | 10057.3 | 10093.0 |
| 5°    | 10582.0 | 10560.0 | 10441.9 | 10271.5 | 10038.0 | 9823.8  | 9587.5  | 9439.2  | 9230.4  | 9156.2  | 9211.2  |
| 7.5°  | 10741.3 | 10680.9 | 10477.6 | 10103.9 | 9615.0  | 9134.3  | 8634.3  | 8255.1  | 7892.5  | 7763.5  | 7779.9  |
| 10°   | 10886.9 | 10801.8 | 10455.6 | 9801.8  | 8955.6  | 8123.3  | 7326.6  | 6769.0  | 6345.9  | 6172.9  | 6211.3  |
| 12.5° | 11032.5 | 10876.0 | 10310.1 | 9299.1  | 8018.9  | 6889.8  | 6040.9  | 5607.0  | 5345.9  | 5137.2  | 5205.9  |
| 15°   | 11169.8 | 10950.1 | 10084.8 | 8626.0  | 6991.4  | 5845.9  | 5219.6  | 4873.5  | 4664.7  | 4527.3  | 4552.0  |
| 17.5° | 11329.2 | 11013.3 | 9746.8  | 7771.7  | 6013.5  | 5123.5  | 4612.4  | 4403.7  | 4362.5  | 4346.0  | 4357.0  |
| 20°   | 11551.7 | 11071.0 | 9301.8  | 6815.6  | 5293.7  | 4546.5  | 4282.8  | 4263.6  | 4260.8  | 4252.6  | 4280.1  |
| 22.5° | 11790.7 | 11139.7 | 8713.9  | 5947.6  | 4681.2  | 4186.6  | 4140.0  | 4101.4  | 4076.7  | 4074.0  | 4104.2  |
| 25°   | 12073.7 | 11161.6 | 7977.7  | 5236.0  | 4159.1  | 4016.4  | 3961.4  | 3903.7  | 3887.2  | 3887.2  | 3903.7  |
| 27.5° | 12348.4 | 11087.4 | 7120.6  | 4617.9  | 3865.3  | 3859.7  | 3788.3  | 3769.0  | 3766.4  | 3774.6  | 3796.5  |
| 30°   | 12623.1 | 10947.3 | 6269.0  | 4046.5  | 3694.9  | 3694.9  | 3670.2  | 3684.0  | 3694.9  | 3722.4  | 3741.6  |
| 32.5° | 12993.9 | 10799.0 | 5557.4  | 3623.5  | 3546.6  | 3519.1  | 3543.8  | 3571.3  | 3582.3  | 3617.9  | 3648.2  |
| 35°   | 13537.9 | 10694.6 | 4991.5  | 3392.7  | 3392.7  | 3357.0  | 3370.7  | 3365.3  | 3340.5  | 3324.1  | 3362.5  |
| 37.5° | 14257.6 | 10689.1 | 4524.6  | 3285.5  | 3263.6  | 3258.1  | 3260.8  | 3225.2  | 3129.0  | 3013.6  | 3016.4  |
| 40°   | 15123.1 | 10837.4 | 4164.7  | 3211.4  | 3194.9  | 3227.9  | 3211.4  | 3115.3  | 2851.5  | 2651.0  | 2645.5  |
| 42.5° | 16285.1 | 11260.5 | 3934.0  | 3120.7  | 3170.2  | 3211.4  | 3145.5  | 2813.1  | 2634.6  | 2499.9  | 2494.4  |
| 45°   | 17653.2 | 11947.3 | 3815.8  | 3024.6  | 3123.5  | 3173.0  | 2854.3  | 2708.7  | 2565.8  | 2403.7  | 2392.8  |
| 47.5° | 19202.6 | 12812.7 | 3788.3  | 2934.0  | 3019.1  | 3049.4  | 2730.7  | 2664.7  | 2502.6  | 2326.9  | 2313.1  |
| 50°   | 20889.3 | 13837.3 | 3862.5  | 2826.8  | 2868.1  | 2763.6  | 2689.5  | 2629.0  | 2461.4  | 2288.4  | 2269.1  |
| 52.5° | 22633.6 | 14966.4 | 4010.8  | 2681.2  | 2717.0  | 2601.6  | 2673.0  | 2620.8  | 2436.7  | 2203.2  | 2186.7  |
| 55°   | 24348.0 | 16103.8 | 4153.7  | 2510.8  | 2563.1  | 2455.9  | 2626.3  | 2587.8  | 2324.1  | 2060.4  | 2046.6  |
| 57.5° | 26089.6 | 17235.6 | 4293.8  | 2359.8  | 2414.7  | 2315.9  | 2552.0  | 2499.9  | 2197.7  | 1928.5  | 1923.0  |
| 60°   | 27900.0 | 18334.4 | 4359.7  | 2214.2  | 2252.6  | 2186.7  | 2439.5  | 2348.8  | 2054.8  | 1793.9  | 1785.7  |
| 62.5° | 29594.9 | 19249.2 | 4252.6  | 2068.6  | 2093.4  | 2065.9  | 2291.1  | 2170.2  | 1912.0  | 1642.8  | 1640.0  |
| 65°   | 31295.4 | 19793.2 | 3922.9  | 1925.8  | 1931.2  | 1917.5  | 2082.3  | 1977.9  | 1744.4  | 1511.0  | 1494.4  |
| 67.5° | 32836.6 | 20098.1 | 3398.2  | 1771.9  | 1758.2  | 1752.6  | 1887.3  | 1769.2  | 1582.4  | 1379.0  | 1362.5  |
| 70°   | 33163.5 | 19323.4 | 2596.0  | 1590.6  | 1590.6  | 1576.9  | 1673.0  | 1552.2  | 1403.7  | 1238.9  | 1233.5  |
| 72.5° | 30290.0 | 16254.9 | 1843.4  | 1384.6  | 1406.5  | 1379.0  | 1458.8  | 1357.1  | 1222.5  | 1112.6  | 1079.6  |
| 75°   | 24424.8 | 11919.8 | 1340.6  | 1173.0  | 1211.4  | 1164.8  | 1238.9  | 1167.6  | 1052.2  | 1049.4  | 945.0   |
| 77.5° | 16782.3 | 7370.6  | 972.5   | 967.0   | 994.5   | 934.0   | 1019.2  | 980.7   | 876.4   | 829.6   | 777.5   |
| 80°   | 7161.8  | 2939.4  | 708.8   | 747.2   | 747.2   | 692.3   | 791.2   | 802.2   | 711.6   | 689.5   | 689.5   |
| 82.5° | 1425.8  | 835.2   | 497.2   | 513.7   | 483.5   | 467.0   | 560.4   | 620.8   | 857.1   | 953.2   | 956.0   |
| 85°   | 428.6   | 307.7   | 299.4   | 280.2   | 247.2   | 250.0   | 329.6   | 623.6   | 769.2   | 439.5   | 379.1   |
| 87.5° | 118.1   | 76.9    | 79.6    | 63.1    | 52.2    | 68.7    | 112.6   | 472.5   | 258.2   | 109.9   | 93.4    |
| 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)