

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: P971486

Luminaire Tested: **NAV-SB6D-750-U-T3-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P971486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-750-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 52482 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - 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

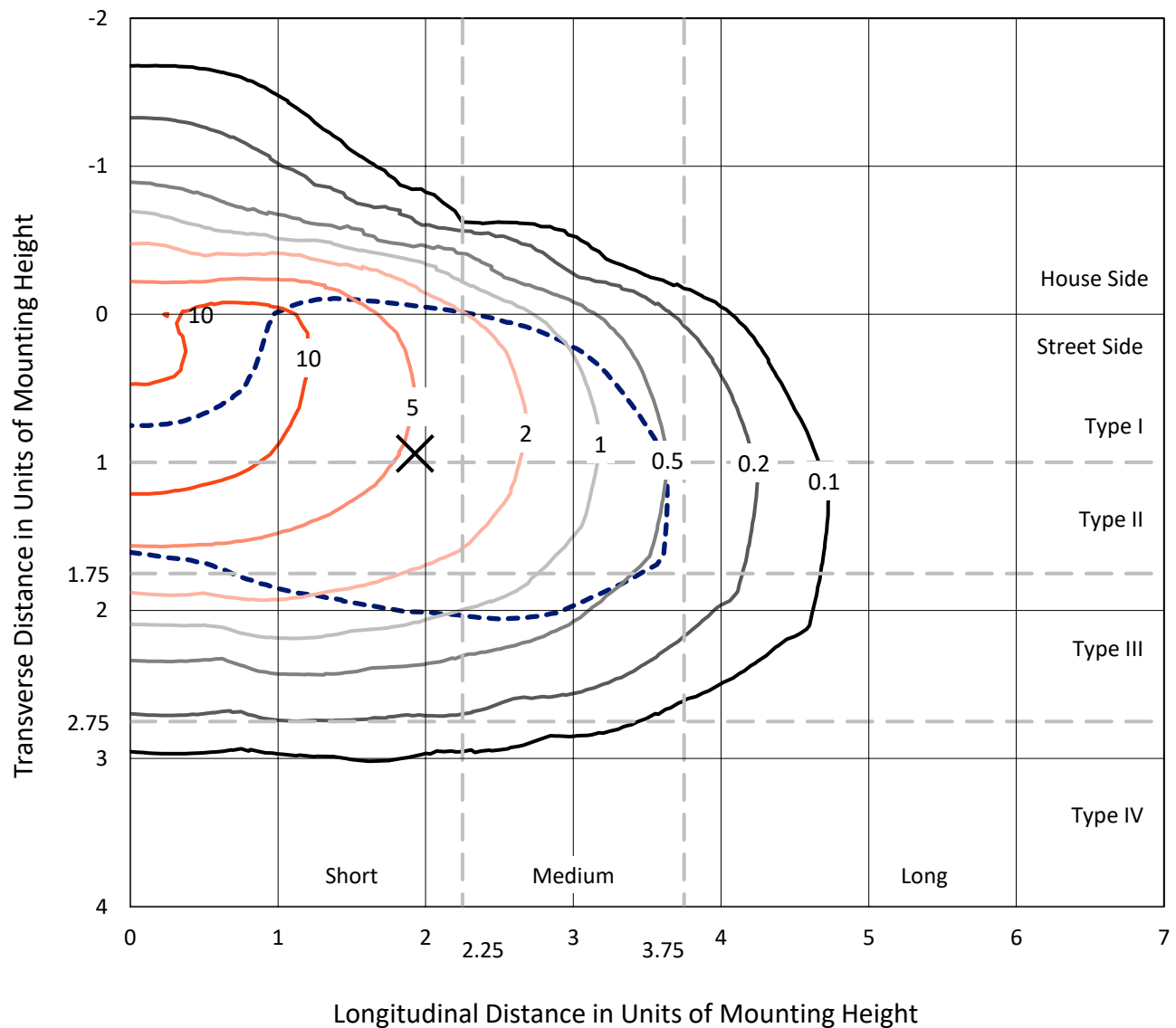


REPORT NUMBER: P971486

CATALOG NUMBER: NAV-SB6D-750-U-T3-HSS

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

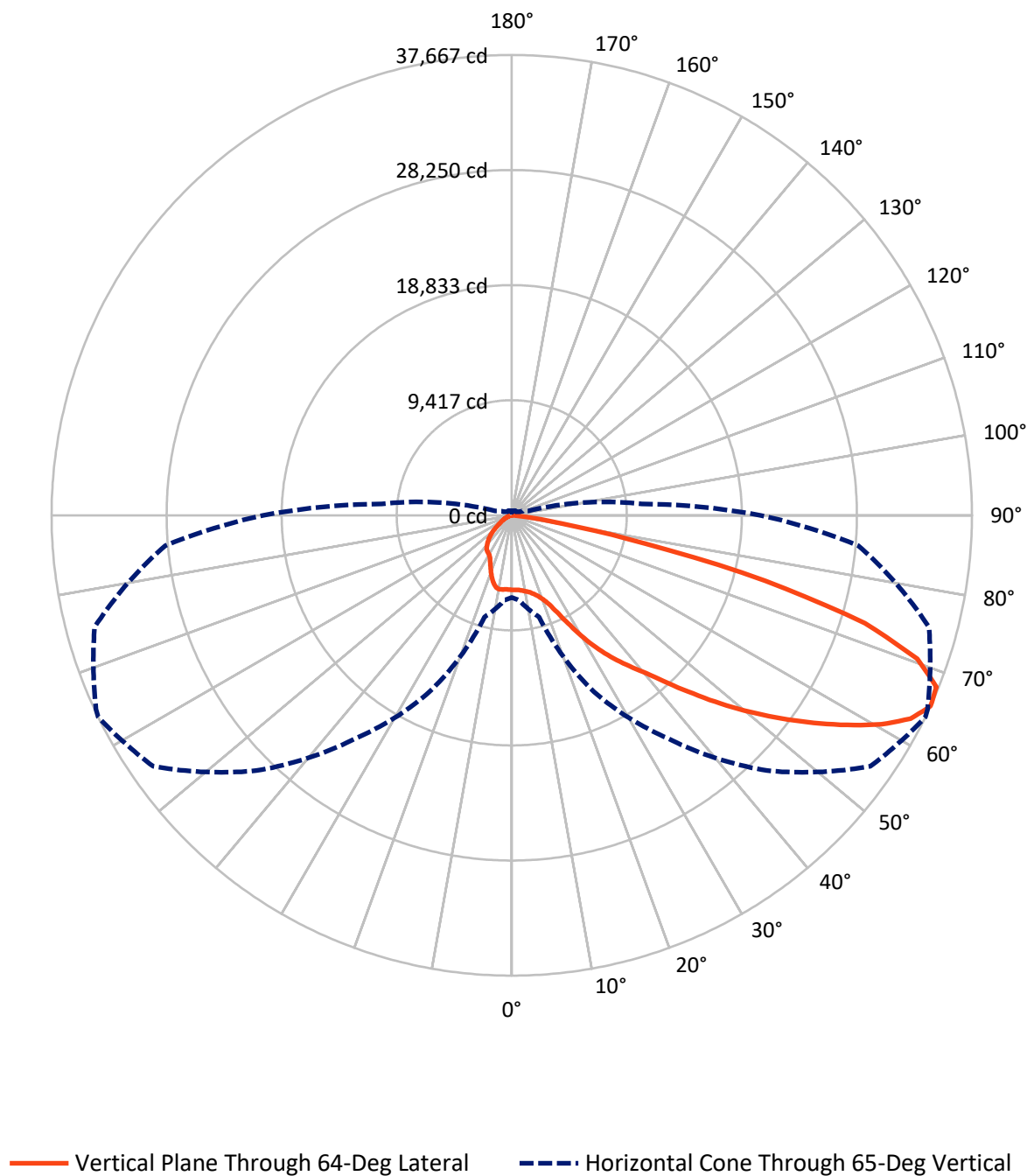


Based on 25 foot mounting height. Maximum calculated value = 15.4 fc  
Type III - Short - N/A

REPORT NUMBER: P971486

CATALOG NUMBER: NAV-SB6D-750-U-T3-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P971486

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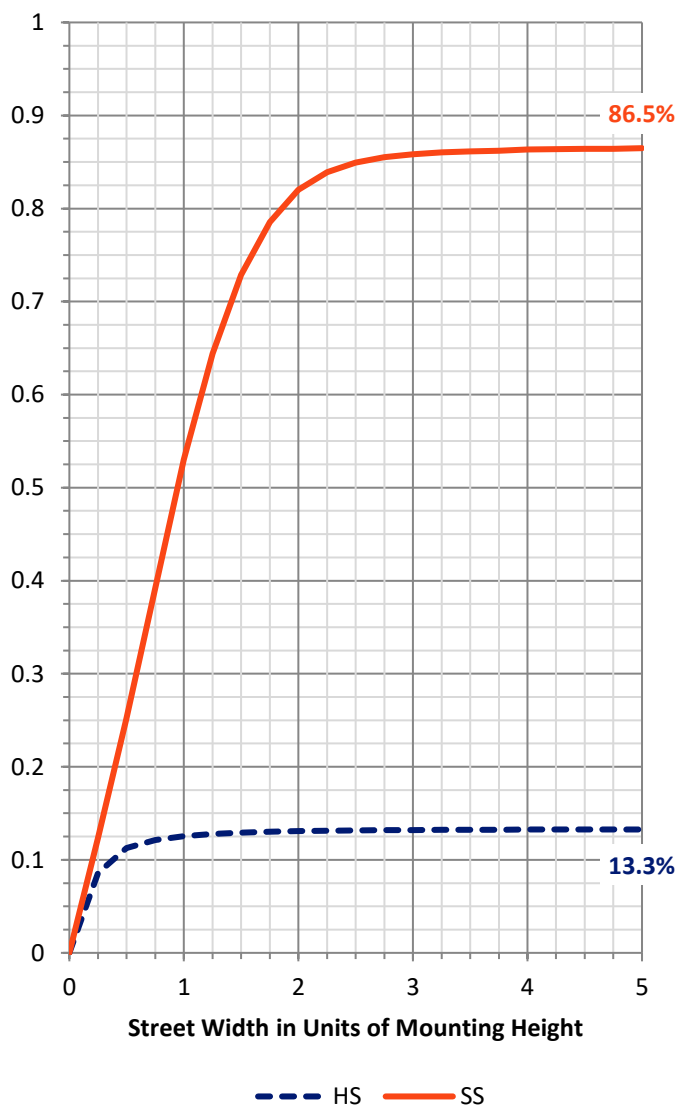
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7018.4   | 0.0    | 7018.4  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 45463.6  | 0.0    | 45463.6 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 52482.0  | 0.0    | 52482.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 563.2   | 1.1       |
| 10°-20°   | 1527.5  | 2.9       |
| 20°-30°   | 2894.5  | 5.5       |
| 30°-40°   | 5857.0  | 11.2      |
| 40°-50°   | 9977.5  | 19.0      |
| 50°-60°   | 13568.6 | 25.9      |
| 60°-70°   | 12741.6 | 24.3      |
| 70°-80°   | 5104.8  | 9.7       |
| 80°-90°   | 247.3   | 0.5       |
| 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°    | 52482.0 | 100.0     |
| 0°-180°   | 52482.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P971486

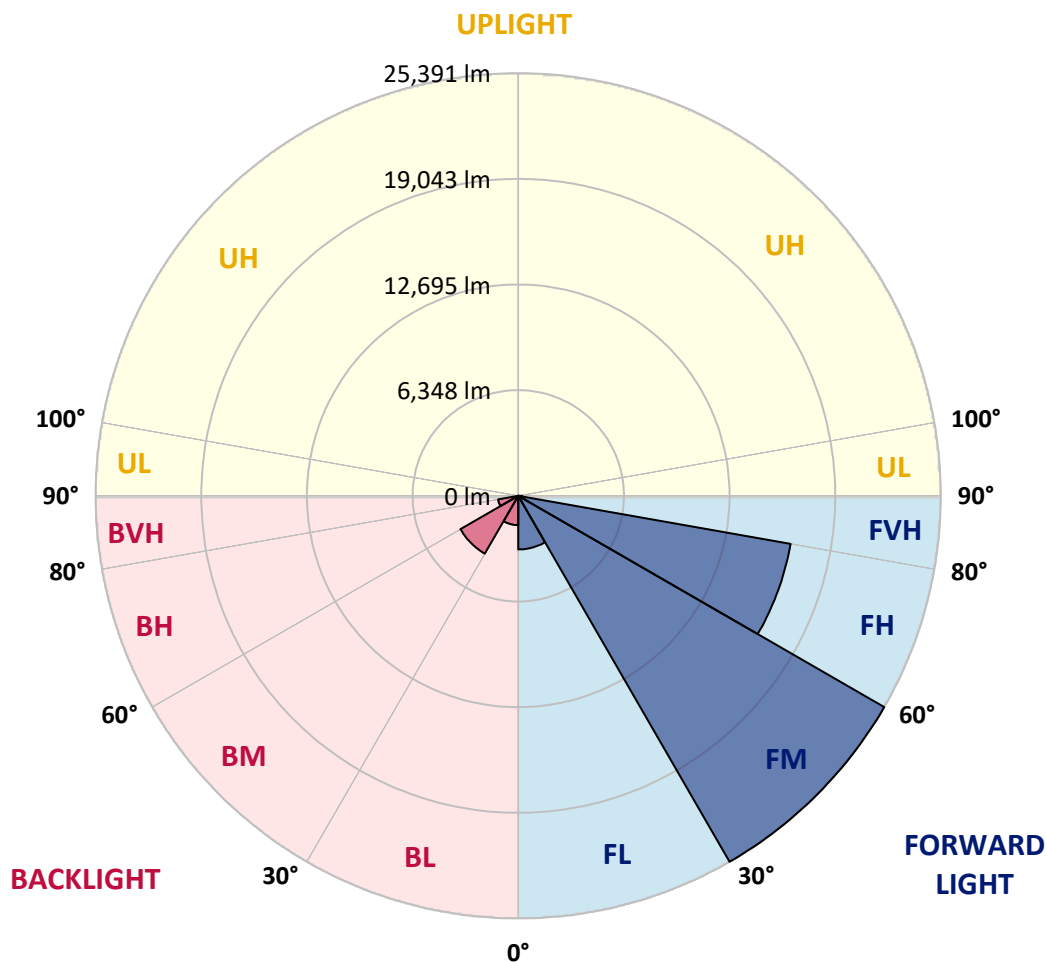
CATALOG NUMBER: NAV-SB6D-750-U-T3-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3223.0  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 25390.8 | 48.4      |                         |      |         |
| FH   | (60°-80°)   | 16614.6 | 31.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 235.2   | 0.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1762.1  | 3.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4012.4  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1231.8  | 2.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 12.1    | 0.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short



REPORT NUMBER: P971486

CATALOG NUMBER: NAV-SB6D-750-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6104.2  | 6104.2  | 6104.2  | 6104.2  | 6104.2  | 6104.2  | 6104.2  | 6104.2  | 6104.2  | 6104.2  | 6104.2  |
| 2.5°  | 6083.1  | 6125.3  | 6114.7  | 6104.2  | 6100.7  | 6107.8  | 6111.3  | 6107.8  | 6107.8  | 6107.8  | 6111.3  |
| 5°    | 5967.0  | 6002.2  | 6002.2  | 6026.8  | 6062.0  | 6104.2  | 6135.9  | 6142.9  | 6149.9  | 6160.5  | 6157.0  |
| 7.5°  | 5745.3  | 5773.5  | 5794.6  | 5875.5  | 5963.4  | 6076.1  | 6171.0  | 6220.3  | 6227.4  | 6266.0  | 6280.1  |
| 10°   | 5594.0  | 5629.2  | 5664.5  | 5748.8  | 5875.5  | 6044.4  | 6206.3  | 6325.9  | 6343.4  | 6435.0  | 6477.2  |
| 12.5° | 5587.1  | 5622.2  | 5667.9  | 5759.4  | 5907.2  | 6086.7  | 6283.7  | 6456.1  | 6487.7  | 6621.4  | 6709.3  |
| 15°   | 5660.9  | 5703.1  | 5745.3  | 5858.0  | 6016.2  | 6234.4  | 6445.5  | 6660.1  | 6691.7  | 6881.7  | 6976.8  |
| 17.5° | 5812.2  | 5868.4  | 5900.1  | 6012.8  | 6181.6  | 6424.4  | 6702.3  | 6948.6  | 6976.8  | 7198.4  | 7318.0  |
| 20°   | 6111.3  | 6178.1  | 6188.6  | 6280.1  | 6445.5  | 6705.9  | 7036.5  | 7342.7  | 7377.8  | 7631.1  | 7764.8  |
| 22.5° | 6730.5  | 6825.5  | 6741.0  | 6786.7  | 6934.5  | 7194.9  | 7553.7  | 7940.8  | 7990.0  | 8278.5  | 8398.1  |
| 25°   | 7821.2  | 7954.8  | 7736.7  | 7659.3  | 7722.7  | 7993.6  | 8443.8  | 8932.9  | 8989.1  | 9221.4  | 9281.2  |
| 27.5° | 9963.7  | 9791.3  | 9460.6  | 9137.0  | 8947.0  | 9101.8  | 9608.5  | 10213.5 | 10283.9 | 10509.1 | 10438.7 |
| 30°   | 12317.5 | 12166.2 | 11719.3 | 11001.6 | 10551.3 | 10526.6 | 10994.6 | 11670.1 | 11751.0 | 11965.6 | 11751.0 |
| 32.5° | 14674.7 | 14530.5 | 14045.0 | 13161.8 | 12380.8 | 11993.8 | 12317.5 | 13066.9 | 13109.1 | 13246.3 | 12929.7 |
| 35°   | 16993.3 | 16845.5 | 16360.0 | 15455.8 | 14495.2 | 13615.7 | 13552.3 | 14396.7 | 14410.9 | 14555.1 | 14083.7 |
| 37.5° | 19325.9 | 19202.8 | 18685.5 | 17798.9 | 16852.5 | 15638.7 | 15051.2 | 15656.4 | 15673.9 | 15814.6 | 15325.6 |
| 40°   | 20990.1 | 21042.8 | 20687.5 | 20001.4 | 19188.7 | 17862.3 | 16732.9 | 16996.8 | 16891.3 | 17126.9 | 16834.9 |
| 42.5° | 22418.5 | 22524.0 | 22214.4 | 21869.6 | 21398.1 | 20230.1 | 18815.7 | 18770.0 | 18601.1 | 18727.8 | 18425.2 |
| 45°   | 23653.4 | 23741.4 | 23463.4 | 23382.5 | 23371.9 | 22552.2 | 21092.0 | 20817.6 | 20581.9 | 20557.3 | 20194.9 |
| 47.5° | 24107.2 | 24276.1 | 24395.7 | 24666.6 | 25194.4 | 24849.6 | 23445.7 | 23020.1 | 22756.2 | 22562.7 | 21989.2 |
| 50°   | 24279.6 | 24459.1 | 24867.2 | 25655.2 | 26904.2 | 27052.0 | 25789.0 | 25310.4 | 24986.8 | 24635.0 | 23790.6 |
| 52.5° | 24047.4 | 24367.5 | 24916.4 | 26242.8 | 28054.8 | 28818.2 | 28037.1 | 27618.4 | 27249.0 | 26675.5 | 25423.1 |
| 55°   | 22678.8 | 22998.9 | 24121.3 | 26235.8 | 28628.2 | 30056.6 | 30162.2 | 29975.7 | 29560.6 | 28656.3 | 26742.5 |
| 57.5° | 19793.8 | 20268.8 | 22045.5 | 25342.1 | 28617.7 | 31122.7 | 32245.0 | 32378.7 | 31914.3 | 30619.5 | 27780.3 |
| 60°   | 15797.1 | 16440.9 | 18608.2 | 23361.4 | 27734.6 | 31699.7 | 34071.0 | 34739.4 | 34246.9 | 32554.6 | 28621.2 |
| 62.5° | 11022.7 | 11768.6 | 13819.8 | 20258.2 | 25715.1 | 31284.5 | 35404.4 | 36639.3 | 36266.3 | 34285.6 | 28944.9 |
| 65°   | 6723.4  | 6962.6  | 8616.3  | 15941.3 | 22281.2 | 29546.4 | 35816.1 | 37666.7 | 37543.5 | 35344.6 | 28466.4 |
| 67.5° | 4478.7  | 4679.3  | 5154.3  | 10931.3 | 17295.8 | 26073.9 | 34830.9 | 37487.2 | 37522.4 | 35172.2 | 26714.3 |
| 70°   | 2698.5  | 2870.9  | 3180.5  | 6357.6  | 11209.2 | 20638.2 | 31780.5 | 35200.3 | 35404.4 | 32867.8 | 23393.1 |
| 72.5° | 1111.8  | 1227.8  | 1509.3  | 2881.5  | 5805.2  | 13098.6 | 25306.9 | 30222.0 | 30696.9 | 27636.0 | 17953.8 |
| 75°   | 629.8   | 689.6   | 886.6   | 1446.0  | 2519.0  | 6104.2  | 15329.1 | 21454.5 | 22154.6 | 19048.0 | 10801.1 |
| 77.5° | 418.7   | 446.8   | 573.5   | 935.8   | 1417.9  | 2082.8  | 6551.0  | 11177.5 | 12514.5 | 10403.5 | 4675.7  |
| 80°   | 281.5   | 306.1   | 394.0   | 626.3   | 921.8   | 893.6   | 2086.4  | 4141.0  | 5094.5  | 3574.6  | 1139.9  |
| 82.5° | 190.0   | 193.5   | 281.5   | 411.6   | 584.0   | 432.8   | 615.7   | 1287.7  | 1618.4  | 1034.3  | 432.8   |
| 85°   | 109.1   | 105.6   | 207.6   | 239.2   | 260.3   | 179.5   | 186.4   | 387.0   | 506.7   | 436.2   | 246.3   |
| 87.5° | 14.0    | 21.1    | 80.9    | 63.3    | 35.2    | 38.7    | 38.7    | 66.8    | 98.5    | 105.6   | 52.8    |
| 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: P971486

CATALOG NUMBER: NAV-SB6D-750-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6104.2  | 6104.2  | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 | 6104.2 |
| 2.5°  | 6111.3  | 6107.8  | 6097.2 | 6086.7 | 6062.0 | 6047.9 | 6055.0 | 6047.9 | 6044.4 | 6047.9 | 6062.0 |
| 5°    | 6157.0  | 6146.4  | 6118.3 | 6083.1 | 6033.9 | 5974.0 | 5935.4 | 5879.0 | 5826.3 | 5794.6 | 5801.6 |
| 7.5°  | 6280.1  | 6269.6  | 6230.9 | 6132.4 | 5974.0 | 5724.2 | 5495.5 | 5295.0 | 5143.8 | 5055.8 | 5059.3 |
| 10°   | 6477.2  | 6459.5  | 6399.8 | 6181.6 | 5766.4 | 5221.1 | 4767.3 | 4390.8 | 4144.5 | 4028.5 | 4017.9 |
| 12.5° | 6709.3  | 6688.2  | 6582.7 | 6135.9 | 5372.4 | 4521.0 | 3894.7 | 3476.1 | 3247.4 | 3145.3 | 3134.8 |
| 15°   | 6983.7  | 6955.6  | 6748.1 | 5917.7 | 4798.9 | 3747.0 | 3173.5 | 2860.4 | 2712.6 | 2621.1 | 2624.6 |
| 17.5° | 7325.1  | 7275.8  | 6871.2 | 5590.6 | 4176.2 | 3155.9 | 2730.2 | 2494.4 | 2364.3 | 2276.3 | 2269.2 |
| 20°   | 7768.4  | 7687.4  | 6969.7 | 5200.0 | 3602.7 | 2783.0 | 2431.1 | 2234.1 | 2135.6 | 2058.2 | 2044.2 |
| 22.5° | 8387.6  | 8271.4  | 7089.3 | 4777.8 | 3198.1 | 2526.1 | 2209.5 | 2065.3 | 1984.3 | 1896.4 | 1882.3 |
| 25°   | 9154.6  | 9017.3  | 7237.1 | 4387.3 | 2920.1 | 2304.5 | 2047.6 | 1928.0 | 1833.0 | 1731.0 | 1720.5 |
| 27.5° | 10227.7 | 9981.3  | 7413.0 | 4067.1 | 2680.9 | 2114.5 | 1899.8 | 1766.2 | 1657.1 | 1572.7 | 1555.0 |
| 30°   | 11423.8 | 11019.3 | 7567.8 | 3873.6 | 2462.8 | 1938.6 | 1706.3 | 1572.7 | 1470.7 | 1410.8 | 1400.3 |
| 32.5° | 12556.8 | 12007.9 | 7669.9 | 3789.2 | 2265.8 | 1738.0 | 1495.3 | 1351.1 | 1273.7 | 1256.0 | 1266.6 |
| 35°   | 13626.2 | 12901.5 | 7659.3 | 3708.2 | 2089.9 | 1537.5 | 1287.7 | 1139.9 | 1080.1 | 1090.7 | 1090.7 |
| 37.5° | 14857.7 | 13854.9 | 7585.4 | 3581.6 | 1945.7 | 1354.5 | 1108.2 | 978.1  | 925.3  | 928.9  | 942.9  |
| 40°   | 16289.6 | 14956.2 | 7539.7 | 3342.3 | 1787.3 | 1185.6 | 960.5  | 855.0  | 816.2  | 802.2  | 798.7  |
| 42.5° | 17816.6 | 16022.2 | 7546.7 | 3071.4 | 1590.3 | 1034.3 | 858.4  | 770.5  | 735.3  | 724.8  | 721.3  |
| 45°   | 19350.5 | 17039.0 | 7557.2 | 2789.9 | 1382.7 | 918.3  | 784.5  | 710.7  | 689.6  | 675.5  | 675.5  |
| 47.5° | 20793.0 | 17904.5 | 7360.2 | 2487.5 | 1178.6 | 830.4  | 724.8  | 675.5  | 657.9  | 640.3  | 640.3  |
| 50°   | 22137.0 | 18481.5 | 6885.2 | 2135.6 | 1016.8 | 759.9  | 679.1  | 643.8  | 626.3  | 608.6  | 608.6  |
| 52.5° | 23181.9 | 18573.0 | 6100.7 | 1773.2 | 904.2  | 707.1  | 650.9  | 619.2  | 598.1  | 580.6  | 577.0  |
| 55°   | 23646.3 | 17999.5 | 4985.4 | 1435.4 | 816.2  | 661.4  | 622.7  | 591.1  | 566.4  | 548.9  | 545.3  |
| 57.5° | 23526.7 | 16792.7 | 3887.7 | 1153.9 | 731.8  | 615.7  | 587.5  | 566.4  | 538.3  | 510.1  | 506.7  |
| 60°   | 22939.2 | 15177.8 | 2930.7 | 960.5  | 654.4  | 566.4  | 548.9  | 531.3  | 492.5  | 450.4  | 443.3  |
| 62.5° | 21922.4 | 13147.8 | 2089.9 | 795.1  | 570.0  | 510.1  | 503.1  | 489.0  | 432.8  | 355.4  | 348.3  |
| 65°   | 20367.3 | 10681.5 | 1407.3 | 661.4  | 489.0  | 446.8  | 450.4  | 425.7  | 351.8  | 263.8  | 256.9  |
| 67.5° | 18094.5 | 7810.6  | 900.7  | 541.8  | 408.2  | 372.9  | 376.5  | 362.3  | 299.1  | 225.2  | 214.6  |
| 70°   | 15198.9 | 5171.8  | 587.5  | 411.6  | 327.2  | 288.5  | 309.7  | 313.1  | 253.3  | 183.0  | 175.9  |
| 72.5° | 11142.4 | 3053.9  | 411.6  | 306.1  | 239.2  | 200.6  | 253.3  | 260.3  | 204.1  | 137.2  | 130.2  |
| 75°   | 6350.5  | 1449.6  | 309.7  | 221.6  | 147.8  | 140.7  | 197.0  | 197.0  | 140.7  | 91.4   | 84.5   |
| 77.5° | 2666.8  | 605.2   | 218.1  | 144.2  | 84.5   | 80.9   | 133.7  | 123.1  | 70.3   | 42.2   | 42.2   |
| 80°   | 770.5   | 270.9   | 116.1  | 70.3   | 35.2   | 31.7   | 52.8   | 38.7   | 17.6   | 7.1    | 7.1    |
| 82.5° | 302.6   | 119.6   | 45.7   | 28.2   | 14.0   | 14.0   | 7.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 179.5   | 49.3    | 21.1   | 10.6   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 45.7    | 10.6    | 7.1    | 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)