

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: P969492

Luminaire Tested: **NAV-SB5D-835-U-SLL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5D-835-U-SLL  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48695.7 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 364.9  
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

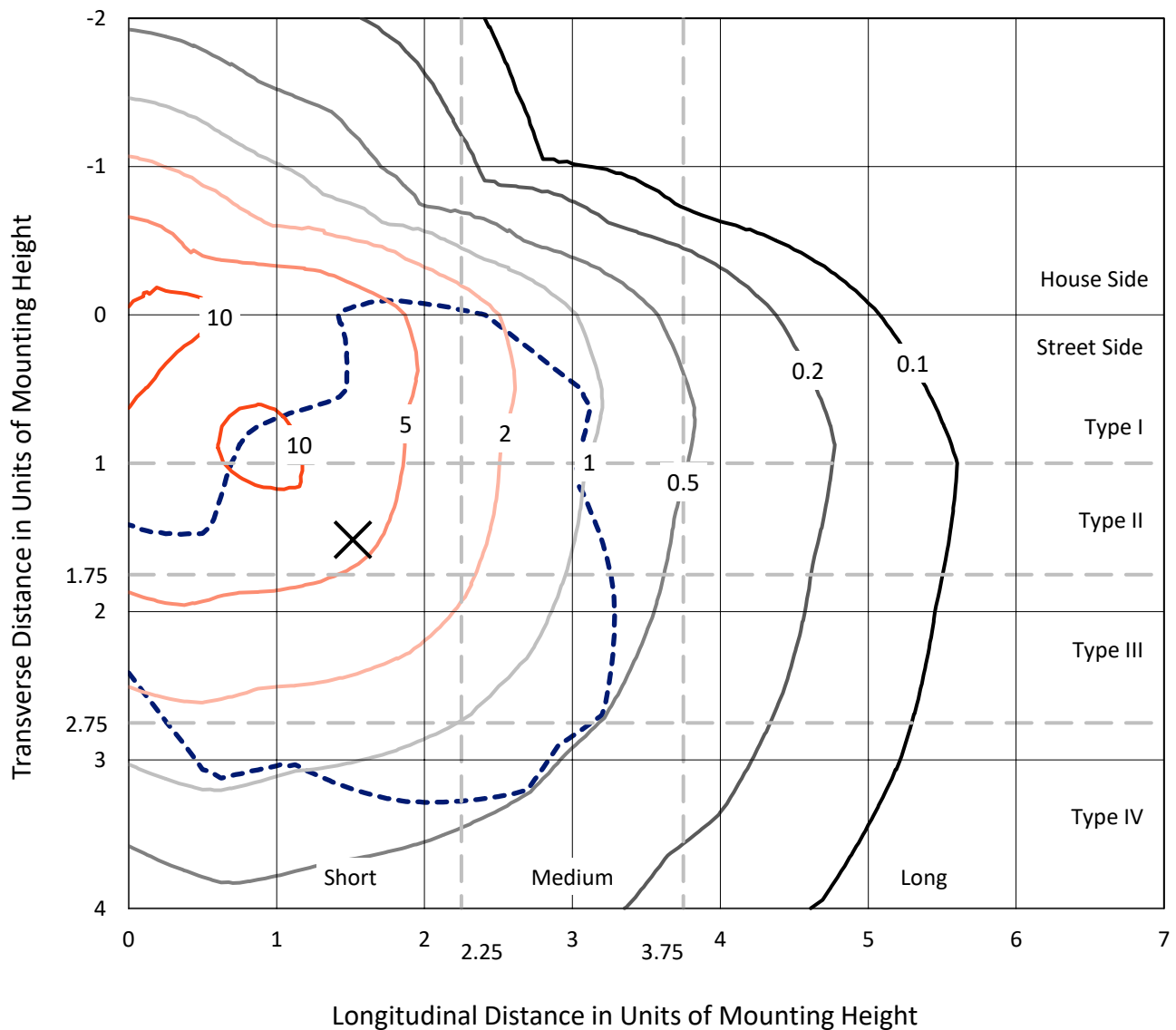


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

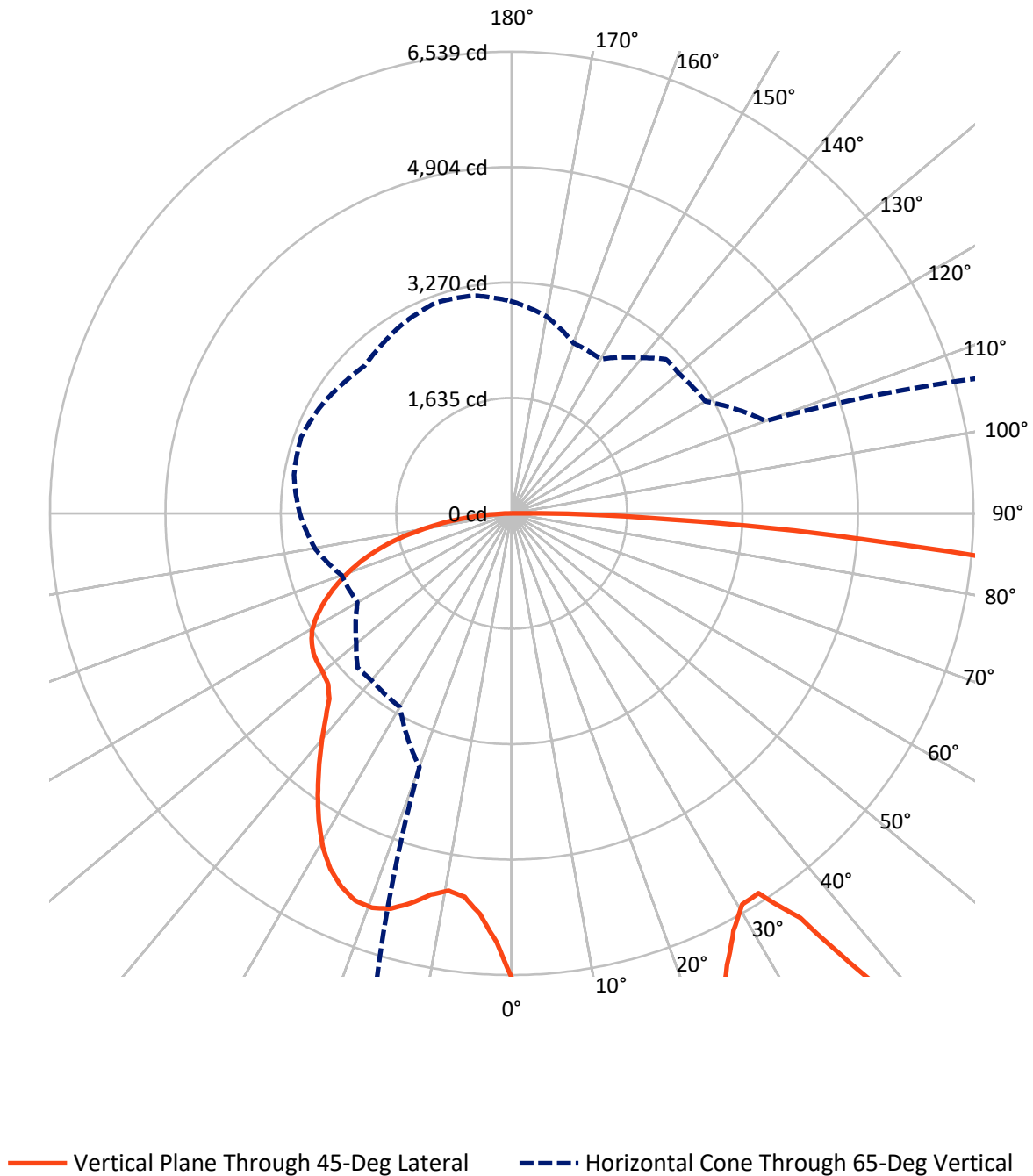


Based on 25 foot mounting height. Maximum calculated value = 14.8 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12376.0  | 0.0    | 12376.0 |
|                    | % Fixture | 25.4     | 0.0    | 25.4    |
| <b>Street Side</b> | Lumens    | 36319.7  | 0.0    | 36319.7 |
|                    | % Fixture | 74.6     | 0.0    | 74.6    |
| <b>Total</b>       | Lumens    | 48695.7  | 0.0    | 48695.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 664.2   | 1.4       |
| 10°-20°   | 2085.2  | 4.3       |
| 20°-30°   | 3220.9  | 6.6       |
| 30°-40°   | 4081.7  | 8.4       |
| 40°-50°   | 6156.3  | 12.6      |
| 50°-60°   | 9946.3  | 20.4      |
| 60°-70°   | 12399.7 | 25.5      |
| 70°-80°   | 8131.1  | 16.7      |
| 80°-90°   | 2010.2  | 4.1       |
| 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°    | 48695.7 | 100.0     |
| 0°-180°   | 48695.7 | 100.0     |

**Coefficient of Utilization**



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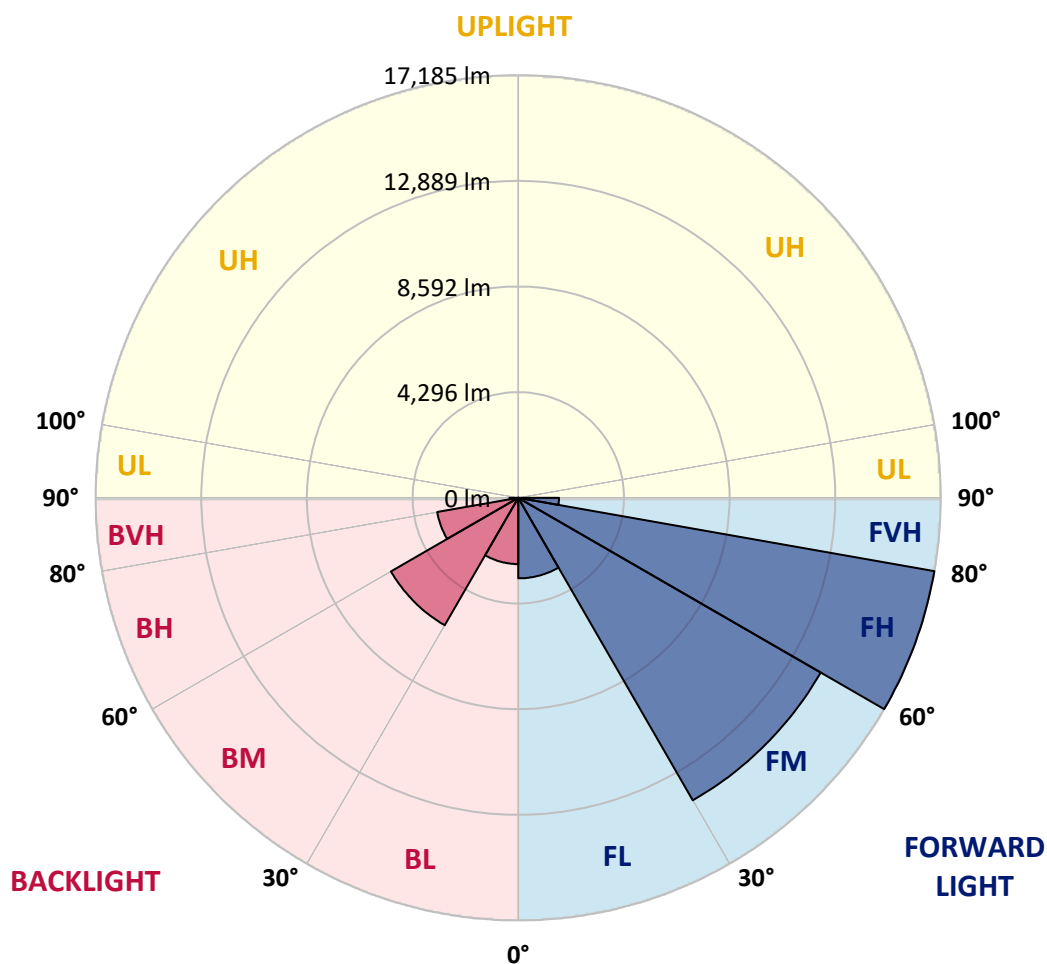
CATALOG NUMBER: NAV-SB5D-835-U-SLL

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3275.3  | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 14203.5 | 29.2      |                         |      |         |
| FH   | (60°-80°)   | 17184.9 | 35.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 1656.0  | 3.4       |                         |      | G5      |
| BL   | (0°-30°)    | 2695.0  | 5.5       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5980.8  | 12.3      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3345.9  | 6.9       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 354.2   | 0.7       |                         |      | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  |
| 2.5°  | 7200.9  | 7228.2  | 7255.7  | 7294.5  | 7333.3  | 7356.4  | 7379.6  | 7391.2  | 7402.7  | 7397.5  | 7402.7  |
| 5°    | 7743.2  | 7838.5  | 7934.0  | 8028.6  | 8123.4  | 8174.8  | 8226.2  | 8257.3  | 8288.7  | 8312.2  | 8288.7  |
| 7.5°  | 8287.8  | 8443.0  | 8598.0  | 8737.5  | 8877.0  | 8961.1  | 9045.1  | 9090.6  | 9135.8  | 9157.7  | 9135.8  |
| 10°   | 8705.4  | 8888.9  | 9072.4  | 9236.0  | 9399.7  | 9498.9  | 9597.6  | 9641.8  | 9685.6  | 9702.3  | 9685.6  |
| 12.5° | 8961.1  | 9159.9  | 9358.6  | 9506.6  | 9654.1  | 9726.0  | 9798.0  | 9822.1  | 9846.3  | 9848.8  | 9846.3  |
| 15°   | 9116.6  | 9288.1  | 9459.5  | 9552.3  | 9645.4  | 9647.9  | 9650.5  | 9624.8  | 9599.1  | 9568.8  | 9599.1  |
| 17.5° | 9203.9  | 9319.8  | 9435.6  | 9437.5  | 9439.0  | 9335.0  | 9230.8  | 9135.5  | 9040.0  | 8972.6  | 9040.0  |
| 20°   | 9300.2  | 9340.6  | 9381.2  | 9259.1  | 9137.1  | 8907.4  | 8677.6  | 8510.4  | 8343.1  | 8240.4  | 8343.1  |
| 22.5° | 9412.1  | 9359.1  | 9306.2  | 9053.3  | 8800.4  | 8462.6  | 8124.7  | 7915.6  | 7706.4  | 7592.8  | 7706.4  |
| 25°   | 9555.9  | 9388.9  | 9221.9  | 8838.0  | 8454.1  | 8043.8  | 7633.4  | 7413.5  | 7194.1  | 7086.6  | 7194.1  |
| 27.5° | 9751.2  | 9452.7  | 9153.8  | 8645.3  | 8137.1  | 7682.3  | 7227.5  | 7011.1  | 6795.0  | 6693.6  | 6795.0  |
| 30°   | 10014.6 | 9569.3  | 9124.2  | 8498.3  | 7872.4  | 7398.6  | 6924.8  | 6724.1  | 6523.4  | 6428.9  | 6523.4  |
| 32.5° | 10325.4 | 9715.8  | 9106.3  | 8398.1  | 7690.0  | 7244.7  | 6799.3  | 6641.9  | 6484.0  | 6416.0  | 6484.0  |
| 35°   | 10703.2 | 9957.1  | 9211.1  | 8473.2  | 7735.5  | 7426.0  | 7117.0  | 7080.2  | 7043.5  | 7037.9  | 7043.5  |
| 37.5° | 11339.2 | 10461.4 | 9583.6  | 8913.0  | 8242.4  | 8222.3  | 8202.4  | 8370.4  | 8538.4  | 8625.8  | 8538.4  |
| 40°   | 12300.1 | 11345.5 | 10391.0 | 9892.3  | 9393.5  | 9745.5  | 10097.6 | 10506.1 | 10914.6 | 11118.2 | 10914.6 |
| 42.5° | 13574.6 | 12627.5 | 11680.4 | 11393.1 | 11105.9 | 11873.6 | 12641.3 | 13384.4 | 14127.6 | 14563.8 | 14127.6 |
| 45°   | 15148.4 | 14297.6 | 13446.7 | 13320.0 | 13193.0 | 14423.1 | 15653.3 | 16874.4 | 18095.6 | 18836.9 | 18095.6 |
| 47.5° | 17116.6 | 16289.0 | 15461.1 | 15435.4 | 15409.7 | 17184.2 | 18958.2 | 20745.8 | 22533.1 | 23582.7 | 22533.1 |
| 50°   | 19696.4 | 18674.0 | 17651.8 | 17656.2 | 17660.5 | 19947.4 | 22234.3 | 24593.8 | 26953.4 | 28380.0 | 26953.4 |
| 52.5° | 22657.7 | 21419.7 | 20182.0 | 20056.9 | 19931.5 | 22663.2 | 25394.8 | 28314.2 | 31233.4 | 32943.4 | 31233.4 |
| 55°   | 25810.5 | 24587.4 | 23364.4 | 22876.4 | 22388.5 | 25428.6 | 28468.7 | 31948.9 | 35429.3 | 37463.1 | 35429.3 |
| 57.5° | 28678.1 | 28012.0 | 27345.8 | 26367.0 | 25388.5 | 28458.3 | 31528.1 | 35470.2 | 39412.1 | 41934.0 | 39412.1 |
| 60°   | 30411.1 | 31445.6 | 32480.3 | 31265.0 | 30049.6 | 32954.7 | 35859.7 | 40080.4 | 44301.0 | 47026.7 | 44301.0 |
| 62.5° | 29531.1 | 32357.8 | 35184.5 | 35047.5 | 34910.3 | 37571.5 | 40233.0 | 44248.6 | 48264.0 | 50783.3 | 48264.0 |
| 65°   | 27769.7 | 30422.7 | 33075.7 | 33600.6 | 34125.3 | 37507.3 | 40889.5 | 44783.3 | 48676.8 | 50821.9 | 48676.8 |
| 67.5° | 25409.6 | 27932.9 | 30456.1 | 30702.2 | 30948.1 | 34472.0 | 37995.5 | 41906.0 | 45816.5 | 47497.0 | 45816.5 |
| 70°   | 22574.2 | 25318.6 | 28063.4 | 28173.4 | 28283.6 | 31434.8 | 34585.8 | 37951.0 | 41316.0 | 42250.1 | 41316.0 |
| 72.5° | 19195.4 | 22344.8 | 25494.4 | 25573.5 | 25652.5 | 28117.9 | 30583.3 | 33103.7 | 35623.9 | 35718.4 | 35623.9 |
| 75°   | 14921.0 | 18180.6 | 21440.3 | 21733.0 | 22025.6 | 23943.8 | 25861.9 | 27636.0 | 29410.3 | 28934.9 | 29410.3 |
| 77.5° | 10660.8 | 13703.5 | 16746.7 | 17165.5 | 17584.3 | 19042.4 | 20500.6 | 21758.9 | 23017.4 | 22200.4 | 23017.4 |
| 80°   | 6977.5  | 9537.4  | 12097.2 | 12617.7 | 13138.2 | 14239.6 | 15340.4 | 16001.2 | 16661.8 | 15347.5 | 16661.8 |
| 82.5° | 4055.9  | 5806.0  | 7556.3  | 8137.8  | 8719.6  | 9477.6  | 10235.5 | 10511.3 | 10786.7 | 9753.8  | 10786.7 |
| 85°   | 1784.5  | 2713.4  | 3642.2  | 4136.9  | 4631.5  | 5254.4  | 5876.9  | 6033.5  | 6189.9  | 5362.5  | 6189.9  |
| 87.5° | 552.5   | 864.6   | 1176.8  | 1452.8  | 1728.8  | 2040.2  | 2351.6  | 2365.0  | 2378.1  | 1996.5  | 2378.1  |
| 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):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     | 95°     | 100°    | 105°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  | 6696.1  |
| 2.5°  | 7391.2  | 7379.6  | 7356.4  | 7333.3  | 7294.5  | 7255.7  | 7228.2  | 7200.9  | 7145.8  | 7090.5  | 7031.6  |
| 5°    | 8257.3  | 8226.2  | 8174.8  | 8123.4  | 8028.6  | 7934.0  | 7838.5  | 7743.2  | 7621.1  | 7499.0  | 7377.2  |
| 7.5°  | 9090.6  | 9045.1  | 8961.1  | 8877.0  | 8737.5  | 8598.0  | 8443.0  | 8287.8  | 8086.4  | 7885.2  | 7699.2  |
| 10°   | 9641.8  | 9597.6  | 9498.9  | 9399.7  | 9236.0  | 9072.4  | 8888.9  | 8705.4  | 8450.8  | 8196.1  | 7950.2  |
| 12.5° | 9822.1  | 9798.0  | 9726.0  | 9654.1  | 9506.6  | 9358.6  | 9159.9  | 8961.1  | 8681.2  | 8401.7  | 8123.1  |
| 15°   | 9624.8  | 9650.5  | 9647.9  | 9645.4  | 9552.3  | 9459.5  | 9288.1  | 9116.6  | 8824.9  | 8533.2  | 8231.1  |
| 17.5° | 9135.5  | 9230.8  | 9335.0  | 9439.0  | 9437.5  | 9435.6  | 9319.8  | 9203.9  | 8908.2  | 8612.4  | 8282.7  |
| 20°   | 8510.4  | 8677.6  | 8907.4  | 9137.1  | 9259.1  | 9381.2  | 9340.6  | 9300.2  | 8992.9  | 8685.3  | 8323.1  |
| 22.5° | 7915.6  | 8124.7  | 8462.6  | 8800.4  | 9053.3  | 9306.2  | 9359.1  | 9412.1  | 9098.0  | 8783.7  | 8377.5  |
| 25°   | 7413.5  | 7633.4  | 8043.8  | 8454.1  | 8838.0  | 9221.9  | 9388.9  | 9555.9  | 9248.1  | 8940.6  | 8476.2  |
| 27.5° | 7011.1  | 7227.5  | 7682.3  | 8137.1  | 8645.3  | 9153.8  | 9452.7  | 9751.2  | 9457.8  | 9164.1  | 8630.4  |
| 30°   | 6724.1  | 6924.8  | 7398.6  | 7872.4  | 8498.3  | 9124.2  | 9569.3  | 10014.6 | 9730.9  | 9447.5  | 8830.1  |
| 32.5° | 6641.9  | 6799.3  | 7244.7  | 7690.0  | 8398.1  | 9106.3  | 9715.8  | 10325.4 | 10044.6 | 9764.0  | 9038.4  |
| 35°   | 7080.2  | 7117.0  | 7426.0  | 7735.5  | 8473.2  | 9211.1  | 9957.1  | 10703.2 | 10434.4 | 10165.4 | 9275.8  |
| 37.5° | 8370.4  | 8202.4  | 8222.3  | 8242.4  | 8913.0  | 9583.6  | 10461.4 | 11339.2 | 10996.4 | 10653.6 | 9541.8  |
| 40°   | 10506.1 | 10097.6 | 9745.5  | 9393.5  | 9892.3  | 10391.0 | 11345.5 | 12300.1 | 11800.6 | 11301.1 | 9879.5  |
| 42.5° | 13384.4 | 12641.3 | 11873.6 | 11105.9 | 11393.1 | 11680.4 | 12627.5 | 13574.6 | 12853.6 | 12132.6 | 10321.1 |
| 45°   | 16874.4 | 15653.3 | 14423.1 | 13193.0 | 13320.0 | 13446.7 | 14297.6 | 15148.4 | 14175.9 | 13203.3 | 10902.3 |
| 47.5° | 20745.8 | 18958.2 | 17184.2 | 15409.7 | 15435.4 | 15461.1 | 16289.0 | 17116.6 | 15747.9 | 14378.8 | 11521.6 |
| 50°   | 24593.8 | 22234.3 | 19947.4 | 17660.5 | 17656.2 | 17651.8 | 18674.0 | 19696.4 | 17632.9 | 15569.0 | 12096.1 |
| 52.5° | 28314.2 | 25394.8 | 22663.2 | 19931.5 | 20056.9 | 20182.0 | 21419.7 | 22657.7 | 19612.9 | 16568.0 | 12469.2 |
| 55°   | 31948.9 | 28468.7 | 25428.6 | 22388.5 | 22876.4 | 23364.4 | 24587.4 | 25810.5 | 21368.4 | 16926.4 | 12387.0 |
| 57.5° | 35470.2 | 31528.1 | 28458.3 | 25388.5 | 26367.0 | 27345.8 | 28012.0 | 28678.1 | 22612.5 | 16547.0 | 11808.3 |
| 60°   | 40080.4 | 35859.7 | 32954.7 | 30049.6 | 31265.0 | 32480.3 | 31445.6 | 30411.1 | 22923.4 | 15435.4 | 10731.4 |
| 62.5° | 44248.6 | 40233.0 | 37571.5 | 34910.3 | 35047.5 | 35184.5 | 32357.8 | 29531.1 | 21614.3 | 13697.4 | 9275.3  |
| 65°   | 44783.3 | 40889.5 | 37507.3 | 34125.3 | 33600.6 | 33075.7 | 30422.7 | 27769.7 | 19761.9 | 11754.1 | 7789.7  |
| 67.5° | 41906.0 | 37995.5 | 34472.0 | 30948.1 | 30702.2 | 30456.1 | 27932.9 | 25409.6 | 17557.5 | 9705.4  | 6334.3  |
| 70°   | 37951.0 | 34585.8 | 31434.8 | 28283.6 | 28173.4 | 28063.4 | 25318.6 | 22574.2 | 15152.3 | 7730.3  | 4987.3  |
| 72.5° | 33103.7 | 30583.3 | 28117.9 | 25652.5 | 25573.5 | 25494.4 | 22344.8 | 19195.4 | 12544.8 | 5894.4  | 3812.9  |
| 75°   | 27636.0 | 25861.9 | 23943.8 | 22025.6 | 21733.0 | 21440.3 | 18180.6 | 14921.0 | 9555.7  | 4190.3  | 2767.3  |
| 77.5° | 21758.9 | 20500.6 | 19042.4 | 17584.3 | 17165.5 | 16746.7 | 13703.5 | 10660.8 | 6688.1  | 2715.4  | 1875.2  |
| 80°   | 16001.2 | 15340.4 | 14239.6 | 13138.2 | 12617.7 | 12097.2 | 9537.4  | 6977.5  | 4309.0  | 1640.6  | 1208.2  |
| 82.5° | 10511.3 | 10235.5 | 9477.6  | 8719.6  | 8137.8  | 7556.3  | 5806.0  | 4055.9  | 2493.9  | 932.2   | 743.1   |
| 85°   | 6033.5  | 5876.9  | 5254.4  | 4631.5  | 4136.9  | 3642.2  | 2713.4  | 1784.5  | 1121.9  | 459.4   | 397.3   |
| 87.5° | 2365.0  | 2351.6  | 2040.2  | 1728.8  | 1452.8  | 1176.8  | 864.6   | 552.5   | 367.5   | 182.4   | 164.7   |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 |
| 2.5°  | 6973.1 | 6913.9 | 6854.9 | 6798.3 | 6741.8 | 6687.1 | 6626.2 | 6576.8 | 6527.8 | 6483.3 | 6439.2 |
| 5°    | 7255.7 | 7133.2 | 7010.8 | 6896.5 | 6782.1 | 6674.3 | 6567.6 | 6474.6 | 6381.3 | 6303.2 | 6225.3 |
| 7.5°  | 7513.1 | 7332.0 | 7150.9 | 6991.3 | 6831.7 | 6684.5 | 6546.6 | 6422.6 | 6299.1 | 6196.3 | 6093.5 |
| 10°   | 7704.6 | 7484.7 | 7264.5 | 7075.9 | 6886.8 | 6705.0 | 6556.8 | 6426.2 | 6295.8 | 6192.9 | 6090.2 |
| 12.5° | 7844.6 | 7585.1 | 7325.6 | 7112.1 | 6898.6 | 6707.6 | 6569.6 | 6462.7 | 6356.4 | 6288.1 | 6220.2 |
| 15°   | 7928.9 | 7630.1 | 7331.2 | 7084.1 | 6836.9 | 6625.4 | 6514.9 | 6463.8 | 6412.9 | 6422.1 | 6431.5 |
| 17.5° | 7953.1 | 7606.2 | 7259.4 | 6962.0 | 6664.8 | 6416.0 | 6347.9 | 6366.7 | 6385.1 | 6497.2 | 6609.2 |
| 20°   | 7960.8 | 7540.4 | 7120.1 | 6751.6 | 6383.1 | 6093.5 | 6075.6 | 6162.9 | 6250.2 | 6444.8 | 6639.5 |
| 22.5° | 7971.0 | 7459.7 | 6948.4 | 6504.6 | 6060.9 | 5731.3 | 5766.4 | 5895.7 | 6025.0 | 6247.0 | 6469.5 |
| 25°   | 8011.6 | 7380.1 | 6748.7 | 6228.9 | 5709.4 | 5371.5 | 5466.5 | 5615.6 | 5764.6 | 5964.3 | 6164.1 |
| 27.5° | 8096.5 | 7326.9 | 6557.3 | 5976.9 | 5396.4 | 5088.8 | 5204.5 | 5348.3 | 5492.3 | 5656.5 | 5820.4 |
| 30°   | 8212.6 | 7302.0 | 6390.8 | 5766.1 | 5141.5 | 4883.3 | 4974.0 | 5088.1 | 5202.7 | 5338.9 | 5475.0 |
| 32.5° | 8312.8 | 7271.1 | 6228.9 | 5584.5 | 4939.9 | 4731.7 | 4772.1 | 4839.6 | 4907.2 | 5015.9 | 5124.8 |
| 35°   | 8386.2 | 7213.0 | 6040.3 | 5406.0 | 4771.6 | 4598.0 | 4581.4 | 4599.9 | 4618.6 | 4701.7 | 4784.4 |
| 37.5° | 8430.0 | 7113.6 | 5797.3 | 5195.7 | 4594.3 | 4442.7 | 4381.5 | 4361.0 | 4340.4 | 4400.0 | 4459.4 |
| 40°   | 8457.5 | 6976.7 | 5496.2 | 4945.0 | 4393.9 | 4256.3 | 4162.5 | 4116.1 | 4069.6 | 4112.5 | 4155.3 |
| 42.5° | 8509.7 | 6835.3 | 5161.6 | 4668.3 | 4174.9 | 4048.2 | 3930.1 | 3868.3 | 3806.6 | 3841.6 | 3876.9 |
| 45°   | 8601.4 | 6704.0 | 4806.9 | 4374.3 | 3941.6 | 3813.1 | 3698.8 | 3638.6 | 3578.8 | 3608.1 | 3637.8 |
| 47.5° | 8664.3 | 6595.6 | 4526.9 | 4141.7 | 3756.6 | 3590.9 | 3492.5 | 3442.1 | 3391.7 | 3419.5 | 3447.0 |
| 50°   | 8623.2 | 6477.4 | 4331.6 | 3987.4 | 3643.1 | 3425.1 | 3310.7 | 3266.1 | 3221.6 | 3264.8 | 3308.2 |
| 52.5° | 8370.0 | 6277.7 | 4185.7 | 3885.6 | 3585.8 | 3335.1 | 3175.3 | 3131.2 | 3087.2 | 3152.3 | 3217.0 |
| 55°   | 7847.2 | 5946.8 | 4046.4 | 3811.9 | 3577.2 | 3344.2 | 3103.4 | 3033.5 | 2963.9 | 3056.1 | 3148.1 |
| 57.5° | 7069.9 | 5480.2 | 3890.2 | 3724.4 | 3558.7 | 3353.2 | 3060.2 | 2958.5 | 2856.8 | 2955.9 | 3055.1 |
| 60°   | 6027.5 | 4874.3 | 3721.2 | 3590.9 | 3460.6 | 3324.9 | 3019.6 | 2887.8 | 2755.8 | 2842.8 | 2929.8 |
| 62.5° | 4853.3 | 4149.2 | 3445.1 | 3358.6 | 3272.2 | 3255.5 | 2972.4 | 2807.4 | 2642.8 | 2698.0 | 2753.3 |
| 65°   | 3825.4 | 3496.8 | 3168.2 | 3127.3 | 3086.5 | 3088.5 | 2872.7 | 2697.5 | 2521.9 | 2543.2 | 2564.3 |
| 67.5° | 2963.2 | 2869.9 | 2776.3 | 2799.2 | 2821.8 | 2816.2 | 2694.8 | 2549.0 | 2403.0 | 2396.3 | 2389.6 |
| 70°   | 2244.4 | 2271.2 | 2297.6 | 2403.5 | 2509.1 | 2509.1 | 2469.2 | 2365.5 | 2261.7 | 2238.5 | 2215.4 |
| 72.5° | 1731.3 | 1811.8 | 1892.5 | 2042.5 | 2192.3 | 2217.5 | 2218.0 | 2146.8 | 2075.6 | 2041.7 | 2008.1 |
| 75°   | 1344.4 | 1417.4 | 1490.4 | 1658.3 | 1826.3 | 1942.6 | 1932.7 | 1878.0 | 1823.1 | 1790.7 | 1758.1 |
| 77.5° | 1034.9 | 1084.6 | 1134.5 | 1297.5 | 1460.7 | 1652.2 | 1647.1 | 1603.1 | 1559.1 | 1526.2 | 1493.4 |
| 80°   | 776.0  | 796.5  | 817.1  | 955.3  | 1093.3 | 1322.0 | 1321.2 | 1284.5 | 1247.5 | 1220.0 | 1192.3 |
| 82.5° | 554.5  | 558.1  | 562.2  | 664.0  | 765.7  | 960.9  | 971.8  | 953.8  | 935.8  | 916.2  | 896.8  |
| 85°   | 335.3  | 333.5  | 331.5  | 406.0  | 480.5  | 625.7  | 639.8  | 620.5  | 601.3  | 579.4  | 557.6  |
| 87.5° | 147.0  | 145.1  | 143.4  | 173.7  | 204.3  | 264.7  | 282.6  | 274.9  | 267.2  | 263.1  | 259.0  |
| 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: P969492

CATALOG NUMBER: NAV-SB5D-835-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 |
| 2.5°  | 6400.3 | 6361.6 | 6322.5 | 6283.7 | 6253.6 | 6223.3 | 6198.9 | 6174.5 | 6155.4 | 6136.5 | 6118.9 |
| 5°    | 6156.5 | 6087.6 | 6025.2 | 5962.5 | 5914.5 | 5866.2 | 5832.5 | 5798.8 | 5775.0 | 5751.1 | 5732.8 |
| 7.5°  | 6006.9 | 5920.1 | 5843.5 | 5767.2 | 5709.9 | 5652.9 | 5612.8 | 5572.7 | 5545.2 | 5518.0 | 5501.5 |
| 10°   | 5997.0 | 5903.4 | 5817.3 | 5731.3 | 5662.9 | 5594.2 | 5549.6 | 5504.4 | 5478.4 | 5452.5 | 5438.5 |
| 12.5° | 6146.7 | 6073.7 | 5984.6 | 5895.7 | 5808.4 | 5720.9 | 5663.1 | 5605.3 | 5576.3 | 5547.5 | 5535.7 |
| 15°   | 6412.4 | 6393.4 | 6316.0 | 6238.7 | 6114.3 | 5990.0 | 5902.2 | 5814.2 | 5773.9 | 5733.8 | 5718.4 |
| 17.5° | 6668.9 | 6728.2 | 6665.8 | 6603.6 | 6438.8 | 6274.1 | 6144.7 | 6015.2 | 5955.6 | 5895.7 | 5876.1 |
| 20°   | 6764.2 | 6888.8 | 6860.0 | 6831.0 | 6642.6 | 6454.5 | 6295.8 | 6137.2 | 6060.9 | 5984.4 | 5960.0 |
| 22.5° | 6631.5 | 6793.7 | 6811.2 | 6828.4 | 6648.6 | 6468.7 | 6305.3 | 6141.6 | 6061.1 | 5980.5 | 5953.5 |
| 25°   | 6323.7 | 6483.3 | 6543.0 | 6602.3 | 6454.8 | 6307.5 | 6162.1 | 6017.3 | 5947.4 | 5877.7 | 5852.2 |
| 27.5° | 5948.4 | 6076.3 | 6142.6 | 6209.1 | 6104.1 | 5999.2 | 5886.5 | 5773.6 | 5726.9 | 5679.8 | 5668.2 |
| 30°   | 5581.2 | 5687.5 | 5741.5 | 5795.5 | 5715.6 | 5635.3 | 5554.7 | 5473.5 | 5449.6 | 5425.4 | 5425.4 |
| 32.5° | 5226.6 | 5328.6 | 5388.4 | 5448.6 | 5375.1 | 5301.4 | 5236.8 | 5172.4 | 5156.7 | 5141.0 | 5143.0 |
| 35°   | 4885.2 | 4986.1 | 5058.1 | 5130.0 | 5077.5 | 5025.4 | 4965.8 | 4906.5 | 4882.5 | 4858.9 | 4853.8 |
| 37.5° | 4559.8 | 4660.6 | 4749.4 | 4838.3 | 4814.2 | 4790.0 | 4735.3 | 4680.4 | 4636.9 | 4593.7 | 4570.9 |
| 40°   | 4252.5 | 4349.6 | 4451.9 | 4554.4 | 4560.3 | 4566.0 | 4519.4 | 4473.0 | 4409.8 | 4347.0 | 4304.4 |
| 42.5° | 3968.8 | 4061.0 | 4171.5 | 4282.0 | 4311.6 | 4341.2 | 4301.8 | 4262.8 | 4184.4 | 4106.0 | 4044.1 |
| 45°   | 3725.3 | 3812.6 | 3927.2 | 4041.8 | 4084.2 | 4126.5 | 4091.2 | 4055.9 | 3966.2 | 3876.9 | 3804.1 |
| 47.5° | 3532.6 | 3617.8 | 3730.9 | 3844.0 | 3892.7 | 3941.6 | 3916.9 | 3892.2 | 3812.6 | 3732.9 | 3665.6 |
| 50°   | 3388.9 | 3469.3 | 3570.6 | 3671.8 | 3734.5 | 3797.2 | 3795.7 | 3794.7 | 3730.9 | 3667.1 | 3605.0 |
| 52.5° | 3291.0 | 3364.8 | 3459.1 | 3553.6 | 3627.9 | 3702.1 | 3715.5 | 3728.8 | 3677.0 | 3625.0 | 3569.3 |
| 55°   | 3227.8 | 3307.5 | 3390.2 | 3472.7 | 3551.3 | 3630.1 | 3648.7 | 3667.1 | 3621.9 | 3576.7 | 3527.9 |
| 57.5° | 3148.7 | 3242.2 | 3323.9 | 3405.9 | 3485.2 | 3564.4 | 3583.2 | 3602.0 | 3556.1 | 3510.4 | 3462.1 |
| 60°   | 3037.2 | 3144.5 | 3227.5 | 3310.7 | 3390.4 | 3470.1 | 3490.6 | 3511.2 | 3466.4 | 3422.1 | 3372.1 |
| 62.5° | 2878.3 | 3003.8 | 3092.4 | 3181.0 | 3254.0 | 3326.9 | 3346.7 | 3366.5 | 3326.2 | 3285.8 | 3233.5 |
| 65°   | 2698.5 | 2832.9 | 2917.7 | 3002.4 | 3066.7 | 3131.0 | 3151.3 | 3171.2 | 3132.5 | 3093.7 | 3042.8 |
| 67.5° | 2513.5 | 2637.5 | 2718.0 | 2798.1 | 2853.7 | 2909.2 | 2928.9 | 2948.5 | 2912.7 | 2877.3 | 2830.0 |
| 70°   | 2324.4 | 2433.4 | 2502.6 | 2572.0 | 2622.2 | 2672.3 | 2691.2 | 2710.3 | 2681.3 | 2652.2 | 2607.0 |
| 72.5° | 2093.9 | 2179.5 | 2242.1 | 2304.8 | 2353.9 | 2403.0 | 2425.6 | 2448.2 | 2424.0 | 2399.9 | 2356.8 |
| 75°   | 1821.7 | 1885.5 | 1942.3 | 1999.1 | 2043.7 | 2088.4 | 2112.1 | 2135.8 | 2123.9 | 2112.1 | 2075.9 |
| 77.5° | 1545.3 | 1596.9 | 1645.7 | 1694.5 | 1741.6 | 1788.3 | 1810.5 | 1832.6 | 1816.1 | 1799.2 | 1762.7 |
| 80°   | 1235.4 | 1278.3 | 1319.4 | 1360.6 | 1396.3 | 1431.7 | 1461.0 | 1490.4 | 1483.1 | 1476.2 | 1427.1 |
| 82.5° | 893.2  | 889.6  | 875.1  | 860.8  | 936.8  | 1012.9 | 1062.7 | 1112.6 | 1109.5 | 1106.2 | 1064.8 |
| 85°   | 539.0  | 520.3  | 480.5  | 440.6  | 511.9  | 583.2  | 644.9  | 706.6  | 701.5  | 696.3  | 664.0  |
| 87.5° | 258.2  | 257.5  | 227.1  | 196.6  | 226.4  | 256.5  | 281.4  | 306.3  | 300.1  | 293.5  | 277.0  |
| 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-SB5D-835-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 |
| 2.5°  | 6101.2 | 6079.4 | 6101.2 | 6118.9 | 6136.5 | 6155.4 | 6174.5 | 6198.9 | 6223.3 | 6253.6 | 6283.7 |
| 5°    | 5714.6 | 5696.5 | 5714.6 | 5732.8 | 5751.1 | 5775.0 | 5798.8 | 5832.5 | 5866.2 | 5914.5 | 5962.5 |
| 7.5°  | 5485.3 | 5473.0 | 5485.3 | 5501.5 | 5518.0 | 5545.2 | 5572.7 | 5612.8 | 5652.9 | 5709.9 | 5767.2 |
| 10°   | 5424.7 | 5419.1 | 5424.7 | 5438.5 | 5452.5 | 5478.4 | 5504.4 | 5549.6 | 5594.2 | 5662.9 | 5731.3 |
| 12.5° | 5523.9 | 5521.8 | 5523.9 | 5535.7 | 5547.5 | 5576.3 | 5605.3 | 5663.1 | 5720.9 | 5808.4 | 5895.7 |
| 15°   | 5703.0 | 5701.7 | 5703.0 | 5718.4 | 5733.8 | 5773.9 | 5814.2 | 5902.2 | 5990.0 | 6114.3 | 6238.7 |
| 17.5° | 5856.3 | 5853.3 | 5856.3 | 5876.1 | 5895.7 | 5955.6 | 6015.2 | 6144.7 | 6274.1 | 6438.8 | 6603.6 |
| 20°   | 5935.5 | 5927.8 | 5935.5 | 5960.0 | 5984.4 | 6060.9 | 6137.2 | 6295.8 | 6454.5 | 6642.6 | 6831.0 |
| 22.5° | 5926.5 | 5915.0 | 5926.5 | 5953.5 | 5980.5 | 6061.1 | 6141.6 | 6305.3 | 6468.7 | 6648.6 | 6828.4 |
| 25°   | 5827.1 | 5812.2 | 5827.1 | 5852.2 | 5877.7 | 5947.4 | 6017.3 | 6162.1 | 6307.5 | 6454.8 | 6602.3 |
| 27.5° | 5656.8 | 5652.9 | 5656.8 | 5668.2 | 5679.8 | 5726.9 | 5773.6 | 5886.5 | 5999.2 | 6104.1 | 6209.1 |
| 30°   | 5425.4 | 5429.3 | 5425.4 | 5425.4 | 5425.4 | 5449.6 | 5473.5 | 5554.7 | 5635.3 | 5715.6 | 5795.5 |
| 32.5° | 5145.4 | 5149.3 | 5145.4 | 5143.0 | 5141.0 | 5156.7 | 5172.4 | 5236.8 | 5301.4 | 5375.1 | 5448.6 |
| 35°   | 4848.7 | 4846.1 | 4848.7 | 4853.8 | 4858.9 | 4882.5 | 4906.5 | 4965.8 | 5025.4 | 5077.5 | 5130.0 |
| 37.5° | 4548.0 | 4535.1 | 4548.0 | 4570.9 | 4593.7 | 4636.9 | 4680.4 | 4735.3 | 4790.0 | 4814.2 | 4838.3 |
| 40°   | 4262.3 | 4237.0 | 4262.3 | 4304.4 | 4347.0 | 4409.8 | 4473.0 | 4519.4 | 4566.0 | 4560.3 | 4554.4 |
| 42.5° | 3982.2 | 3941.6 | 3982.2 | 4044.1 | 4106.0 | 4184.4 | 4262.8 | 4301.8 | 4341.2 | 4311.6 | 4282.0 |
| 45°   | 3731.4 | 3684.7 | 3731.4 | 3804.1 | 3876.9 | 3966.2 | 4055.9 | 4091.2 | 4126.5 | 4084.2 | 4041.8 |
| 47.5° | 3598.6 | 3553.6 | 3598.6 | 3665.6 | 3732.9 | 3812.6 | 3892.2 | 3916.9 | 3941.6 | 3892.7 | 3844.0 |
| 50°   | 3542.8 | 3499.7 | 3542.8 | 3605.0 | 3667.1 | 3730.9 | 3794.7 | 3795.7 | 3797.2 | 3734.5 | 3671.8 |
| 52.5° | 3513.8 | 3473.9 | 3513.8 | 3569.3 | 3625.0 | 3677.0 | 3728.8 | 3715.5 | 3702.1 | 3627.9 | 3553.6 |
| 55°   | 3479.1 | 3443.1 | 3479.1 | 3527.9 | 3576.7 | 3621.9 | 3667.1 | 3648.7 | 3630.1 | 3551.3 | 3472.7 |
| 57.5° | 3413.6 | 3376.4 | 3413.6 | 3462.1 | 3510.4 | 3556.1 | 3602.0 | 3583.2 | 3564.4 | 3485.2 | 3405.9 |
| 60°   | 3322.3 | 3283.8 | 3322.3 | 3372.1 | 3422.1 | 3466.4 | 3511.2 | 3490.6 | 3470.1 | 3390.4 | 3310.7 |
| 62.5° | 3181.0 | 3134.8 | 3181.0 | 3233.5 | 3285.8 | 3326.2 | 3366.5 | 3346.7 | 3326.9 | 3254.0 | 3181.0 |
| 65°   | 2992.2 | 2952.3 | 2992.2 | 3042.8 | 3093.7 | 3132.5 | 3171.2 | 3151.3 | 3131.0 | 3066.7 | 3002.4 |
| 67.5° | 2782.8 | 2746.8 | 2782.8 | 2830.0 | 2877.3 | 2912.7 | 2948.5 | 2928.9 | 2909.2 | 2853.7 | 2798.1 |
| 70°   | 2561.8 | 2520.7 | 2561.8 | 2607.0 | 2652.2 | 2681.3 | 2710.3 | 2691.2 | 2672.3 | 2622.2 | 2572.0 |
| 72.5° | 2313.8 | 2274.0 | 2313.8 | 2356.8 | 2399.9 | 2424.0 | 2448.2 | 2425.6 | 2403.0 | 2353.9 | 2304.8 |
| 75°   | 2039.6 | 2001.6 | 2039.6 | 2075.9 | 2112.1 | 2123.9 | 2135.8 | 2112.1 | 2088.4 | 2043.7 | 1999.1 |
| 77.5° | 1726.2 | 1695.9 | 1726.2 | 1762.7 | 1799.2 | 1816.1 | 1832.6 | 1810.5 | 1788.3 | 1741.6 | 1694.5 |
| 80°   | 1377.8 | 1320.7 | 1377.8 | 1427.1 | 1476.2 | 1483.1 | 1490.4 | 1461.0 | 1431.7 | 1396.3 | 1360.6 |
| 82.5° | 1023.2 | 986.7  | 1023.2 | 1064.8 | 1106.2 | 1109.5 | 1112.6 | 1062.7 | 1012.9 | 936.8  | 860.8  |
| 85°   | 631.6  | 598.7  | 631.6  | 664.0  | 696.3  | 701.5  | 706.6  | 644.9  | 583.2  | 511.9  | 440.6  |
| 87.5° | 260.0  | 244.1  | 260.0  | 277.0  | 293.5  | 300.1  | 306.3  | 281.4  | 256.5  | 226.4  | 196.6  |
| 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-SB5D-835-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 | 6696.1 |
| 2.5°  | 6322.5 | 6361.6 | 6400.3 | 6439.2 | 6483.3 | 6527.8 | 6576.8 | 6626.2 | 6687.1 | 6741.8 | 6798.3 |
| 5°    | 6025.2 | 6087.6 | 6156.5 | 6225.3 | 6303.2 | 6381.3 | 6474.6 | 6567.6 | 6674.3 | 6782.1 | 6896.5 |
| 7.5°  | 5843.5 | 5920.1 | 6006.9 | 6093.5 | 6196.3 | 6299.1 | 6422.6 | 6546.6 | 6684.5 | 6831.7 | 6991.3 |
| 10°   | 5817.3 | 5903.4 | 5997.0 | 6090.2 | 6192.9 | 6295.8 | 6426.2 | 6556.8 | 6705.0 | 6886.8 | 7075.9 |
| 12.5° | 5984.6 | 6073.7 | 6146.7 | 6220.2 | 6288.1 | 6356.4 | 6462.7 | 6569.6 | 6707.6 | 6898.6 | 7112.1 |
| 15°   | 6316.0 | 6393.4 | 6412.4 | 6431.5 | 6422.1 | 6412.9 | 6463.8 | 6514.9 | 6625.4 | 6836.9 | 7084.1 |
| 17.5° | 6665.8 | 6728.2 | 6668.9 | 6609.2 | 6497.2 | 6385.1 | 6366.7 | 6347.9 | 6416.0 | 6664.8 | 6962.0 |
| 20°   | 6860.0 | 6888.8 | 6764.2 | 6639.5 | 6444.8 | 6250.2 | 6162.9 | 6075.6 | 6093.5 | 6383.1 | 6751.6 |
| 22.5° | 6811.2 | 6793.7 | 6631.5 | 6469.5 | 6247.0 | 6025.0 | 5895.7 | 5766.4 | 5731.3 | 6060.9 | 6504.6 |
| 25°   | 6543.0 | 6483.3 | 6323.7 | 6164.1 | 5964.3 | 5764.6 | 5615.6 | 5466.5 | 5371.5 | 5709.4 | 6228.9 |
| 27.5° | 6142.6 | 6076.3 | 5948.4 | 5820.4 | 5656.5 | 5492.3 | 5348.3 | 5204.5 | 5088.8 | 5396.4 | 5976.9 |
| 30°   | 5741.5 | 5687.5 | 5581.2 | 5475.0 | 5338.9 | 5202.7 | 5088.1 | 4974.0 | 4883.3 | 5141.5 | 5766.1 |
| 32.5° | 5388.4 | 5328.6 | 5226.6 | 5124.8 | 5015.9 | 4907.2 | 4839.6 | 4772.1 | 4731.7 | 4939.9 | 5584.5 |
| 35°   | 5058.1 | 4986.1 | 4885.2 | 4784.4 | 4701.7 | 4618.6 | 4599.9 | 4581.4 | 4598.0 | 4771.6 | 5406.0 |
| 37.5° | 4749.4 | 4660.6 | 4559.8 | 4459.4 | 4400.0 | 4340.4 | 4361.0 | 4381.5 | 4442.7 | 4594.3 | 5195.7 |
| 40°   | 4451.9 | 4349.6 | 4252.5 | 4155.3 | 4112.5 | 4069.6 | 4116.1 | 4162.5 | 4256.3 | 4393.9 | 4945.0 |
| 42.5° | 4171.5 | 4061.0 | 3968.8 | 3876.9 | 3841.6 | 3806.6 | 3868.3 | 3930.1 | 4048.2 | 4174.9 | 4668.3 |
| 45°   | 3927.2 | 3812.6 | 3725.3 | 3637.8 | 3608.1 | 3578.8 | 3638.6 | 3698.8 | 3813.1 | 3941.6 | 4374.3 |
| 47.5° | 3730.9 | 3617.8 | 3532.6 | 3447.0 | 3419.5 | 3391.7 | 3442.1 | 3492.5 | 3590.9 | 3756.6 | 4141.7 |
| 50°   | 3570.6 | 3469.3 | 3388.9 | 3308.2 | 3264.8 | 3221.6 | 3266.1 | 3310.7 | 3425.1 | 3643.1 | 3987.4 |
| 52.5° | 3459.1 | 3364.8 | 3291.0 | 3217.0 | 3152.3 | 3087.2 | 3131.2 | 3175.3 | 3335.1 | 3585.8 | 3885.6 |
| 55°   | 3390.2 | 3307.5 | 3227.8 | 3148.1 | 3056.1 | 2963.9 | 3033.5 | 3103.4 | 3344.2 | 3577.2 | 3811.9 |
| 57.5° | 3323.9 | 3242.2 | 3148.7 | 3055.1 | 2955.9 | 2856.8 | 2958.5 | 3060.2 | 3353.2 | 3558.7 | 3724.4 |
| 60°   | 3227.5 | 3144.5 | 3037.2 | 2929.8 | 2842.8 | 2755.8 | 2887.8 | 3019.6 | 3324.9 | 3460.6 | 3590.9 |
| 62.5° | 3092.4 | 3003.8 | 2878.3 | 2753.3 | 2698.0 | 2642.8 | 2807.4 | 2972.4 | 3255.5 | 3272.2 | 3358.6 |
| 65°   | 2917.7 | 2832.9 | 2698.5 | 2564.3 | 2543.2 | 2521.9 | 2697.5 | 2872.7 | 3088.5 | 3086.5 | 3127.3 |
| 67.5° | 2718.0 | 2637.5 | 2513.5 | 2389.6 | 2396.3 | 2403.0 | 2549.0 | 2694.8 | 2816.2 | 2821.8 | 2799.2 |
| 70°   | 2502.6 | 2433.4 | 2324.4 | 2215.4 | 2238.5 | 2261.7 | 2365.5 | 2469.2 | 2509.1 | 2509.1 | 2403.5 |
| 72.5° | 2242.1 | 2179.5 | 2093.9 | 2008.1 | 2041.7 | 2075.6 | 2146.8 | 2218.0 | 2217.5 | 2192.3 | 2042.5 |
| 75°   | 1942.3 | 1885.5 | 1821.7 | 1758.1 | 1790.7 | 1823.1 | 1878.0 | 1932.7 | 1942.6 | 1826.3 | 1658.3 |
| 77.5° | 1645.7 | 1596.9 | 1545.3 | 1493.4 | 1526.2 | 1559.1 | 1603.1 | 1647.1 | 1652.2 | 1460.7 | 1297.5 |
| 80°   | 1319.4 | 1278.3 | 1235.4 | 1192.3 | 1220.0 | 1247.5 | 1284.5 | 1321.2 | 1322.0 | 1093.3 | 955.3  |
| 82.5° | 875.1  | 889.6  | 893.2  | 896.8  | 916.2  | 935.8  | 953.8  | 971.8  | 960.9  | 765.7  | 664.0  |
| 85°   | 480.5  | 520.3  | 539.0  | 557.6  | 579.4  | 601.3  | 620.5  | 639.8  | 625.7  | 480.5  | 406.0  |
| 87.5° | 227.1  | 257.5  | 258.2  | 259.0  | 263.1  | 267.2  | 274.9  | 282.6  | 264.7  | 204.3  | 173.7  |
| 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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|       | 330°   | 335°   | 340°   | 345°    | 350°    | 355°    | 360°    |
|-------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 6696.1 | 6696.1 | 6696.1 | 6696.1  | 6696.1  | 6696.1  | 6696.1  |
| 2.5°  | 6854.9 | 6913.9 | 6973.1 | 7031.6  | 7090.5  | 7145.8  | 7200.9  |
| 5°    | 7010.8 | 7133.2 | 7255.7 | 7377.2  | 7499.0  | 7621.1  | 7743.2  |
| 7.5°  | 7150.9 | 7332.0 | 7513.1 | 7699.2  | 7885.2  | 8086.4  | 8287.8  |
| 10°   | 7264.5 | 7484.7 | 7704.6 | 7950.2  | 8196.1  | 8450.8  | 8705.4  |
| 12.5° | 7325.6 | 7585.1 | 7844.6 | 8123.1  | 8401.7  | 8681.2  | 8961.1  |
| 15°   | 7331.2 | 7630.1 | 7928.9 | 8231.1  | 8533.2  | 8824.9  | 9116.6  |
| 17.5° | 7259.4 | 7606.2 | 7953.1 | 8282.7  | 8612.4  | 8908.2  | 9203.9  |
| 20°   | 7120.1 | 7540.4 | 7960.8 | 8323.1  | 8685.3  | 8992.9  | 9300.2  |
| 22.5° | 6948.4 | 7459.7 | 7971.0 | 8377.5  | 8783.7  | 9098.0  | 9412.1  |
| 25°   | 6748.7 | 7380.1 | 8011.6 | 8476.2  | 8940.6  | 9248.1  | 9555.9  |
| 27.5° | 6557.3 | 7326.9 | 8096.5 | 8630.4  | 9164.1  | 9457.8  | 9751.2  |
| 30°   | 6390.8 | 7302.0 | 8212.6 | 8830.1  | 9447.5  | 9730.9  | 10014.6 |
| 32.5° | 6228.9 | 7271.1 | 8312.8 | 9038.4  | 9764.0  | 10044.6 | 10325.4 |
| 35°   | 6040.3 | 7213.0 | 8386.2 | 9275.8  | 10165.4 | 10434.4 | 10703.2 |
| 37.5° | 5797.3 | 7113.6 | 8430.0 | 9541.8  | 10653.6 | 10996.4 | 11339.2 |
| 40°   | 5496.2 | 6976.7 | 8457.5 | 9879.5  | 11301.1 | 11800.6 | 12300.1 |
| 42.5° | 5161.6 | 6835.3 | 8509.7 | 10321.1 | 12132.6 | 12853.6 | 13574.6 |
| 45°   | 4806.9 | 6704.0 | 8601.4 | 10902.3 | 13203.3 | 14175.9 | 15148.4 |
| 47.5° | 4526.9 | 6595.6 | 8664.3 | 11521.6 | 14378.8 | 15747.9 | 17116.6 |
| 50°   | 4331.6 | 6477.4 | 8623.2 | 12096.1 | 15569.0 | 17632.9 | 19696.4 |
| 52.5° | 4185.7 | 6277.7 | 8370.0 | 12469.2 | 16568.0 | 19612.9 | 22657.7 |
| 55°   | 4046.4 | 5946.8 | 7847.2 | 12387.0 | 16926.4 | 21368.4 | 25810.5 |
| 57.5° | 3890.2 | 5480.2 | 7069.9 | 11808.3 | 16547.0 | 22612.5 | 28678.1 |
| 60°   | 3721.2 | 4874.3 | 6027.5 | 10731.4 | 15435.4 | 22923.4 | 30411.1 |
| 62.5° | 3445.1 | 4149.2 | 4853.3 | 9275.3  | 13697.4 | 21614.3 | 29531.1 |
| 65°   | 3168.2 | 3496.8 | 3825.4 | 7789.7  | 11754.1 | 19761.9 | 27769.7 |
| 67.5° | 2776.3 | 2869.9 | 2963.2 | 6334.3  | 9705.4  | 17557.5 | 25409.6 |
| 70°   | 2297.6 | 2271.2 | 2244.4 | 4987.3  | 7730.3  | 15152.3 | 22574.2 |
| 72.5° | 1892.5 | 1811.8 | 1731.3 | 3812.9  | 5894.4  | 12544.8 | 19195.4 |
| 75°   | 1490.4 | 1417.4 | 1344.4 | 2767.3  | 4190.3  | 9555.7  | 14921.0 |
| 77.5° | 1134.5 | 1084.6 | 1034.9 | 1875.2  | 2715.4  | 6688.1  | 10660.8 |
| 80°   | 817.1  | 796.5  | 776.0  | 1208.2  | 1640.6  | 4309.0  | 6977.5  |
| 82.5° | 562.2  | 558.1  | 554.5  | 743.1   | 932.2   | 2493.9  | 4055.9  |
| 85°   | 331.5  | 333.5  | 335.3  | 397.3   | 459.4   | 1121.9  | 1784.5  |
| 87.5° | 143.4  | 145.1  | 147.0  | 164.7   | 182.4   | 367.5   | 552.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     |

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