

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: P970881

Luminaire Tested: **NAV-SB6C-735-U-SL2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P970881  
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-SB6C-735-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 46267.5 lumens  
Efficiency: N/A  
Efficacy: 153.8 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): 300.9  
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



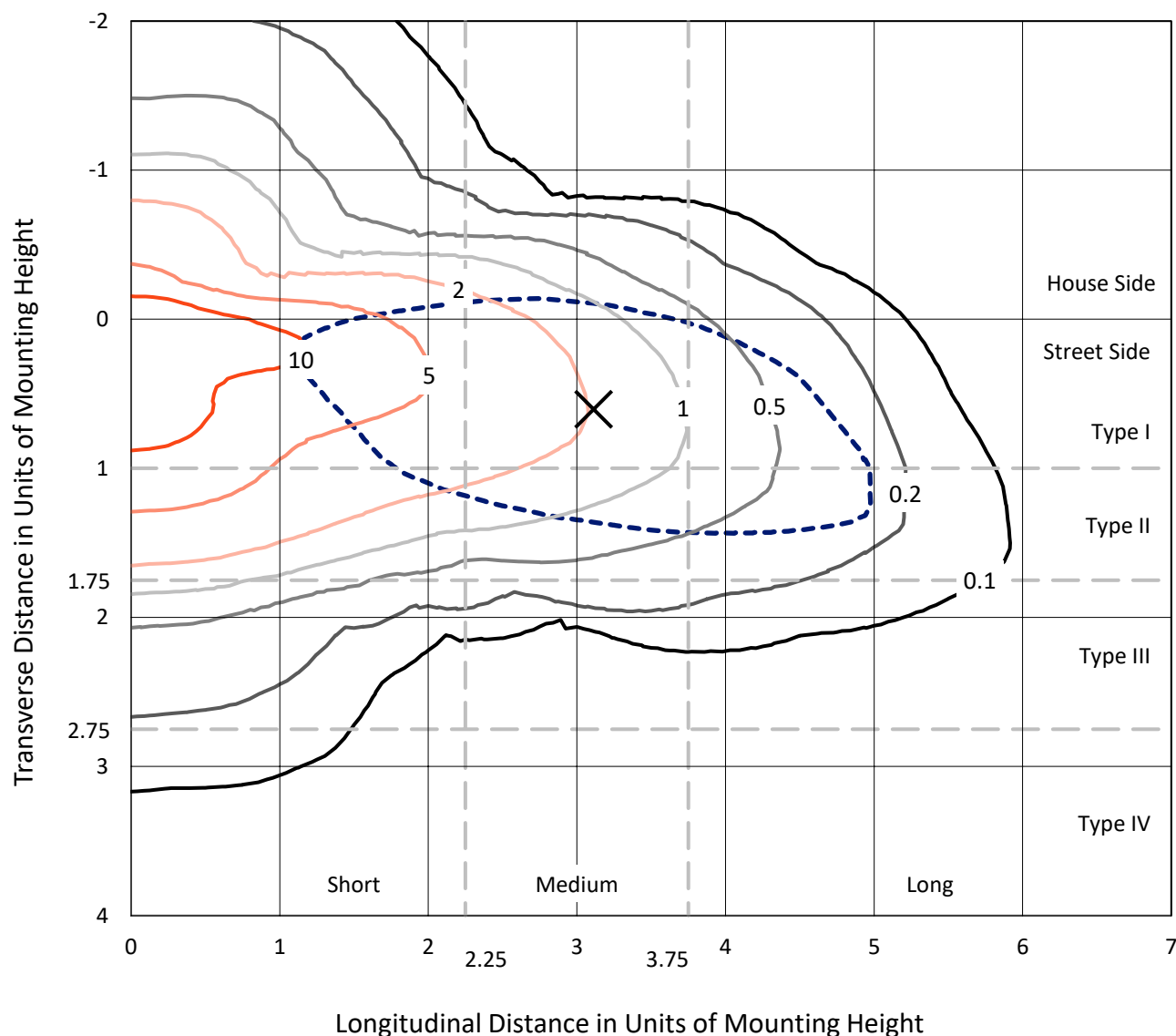
REPORT NUMBER: P970881

CATALOG NUMBER: NAV-SB6C-735-U-SL2

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

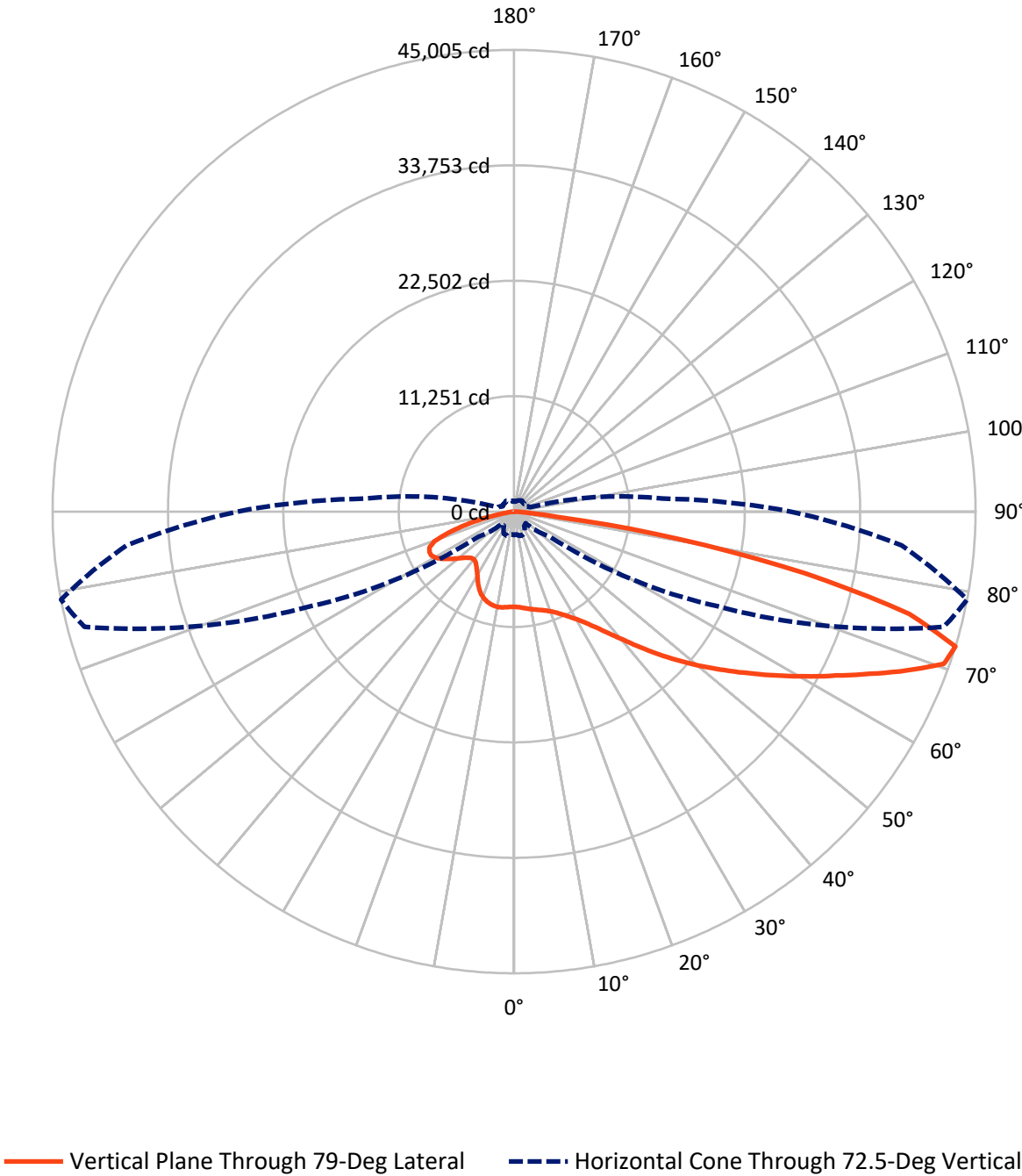
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
Type II - Medium - N/A

REPORT NUMBER: P970881  
CATALOG NUMBER: NAV-SB6C-735-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P970881

CATALOG NUMBER: NAV-SB6C-735-U-SL2

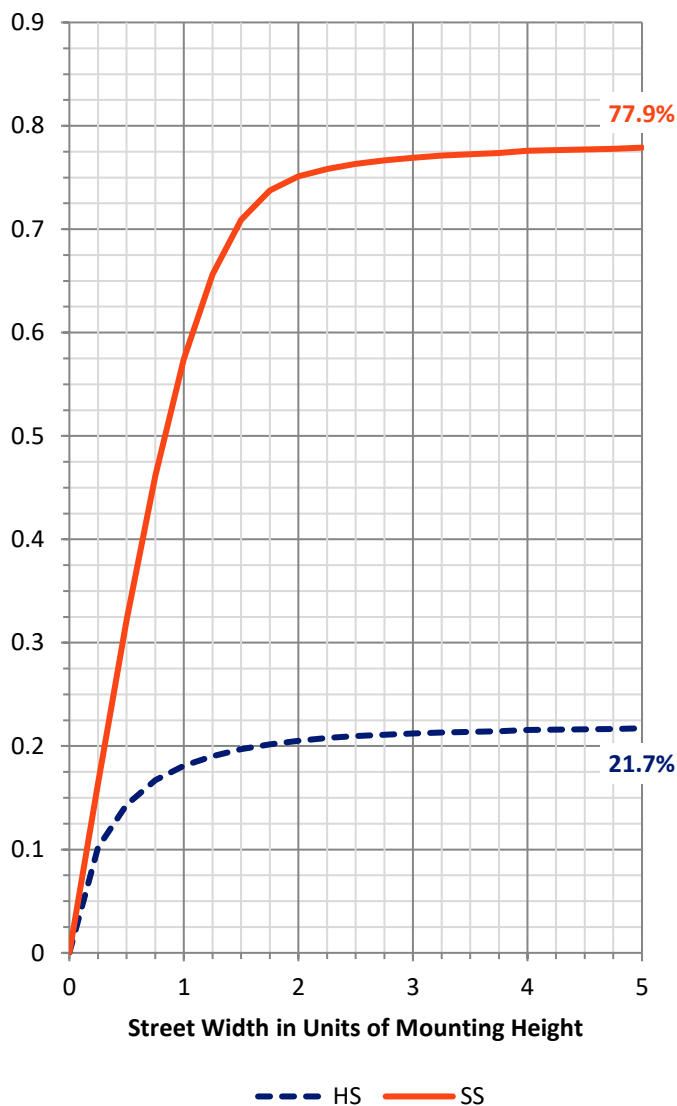
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10181.4  | 0.0    | 10181.4 |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 36086.1  | 0.0    | 36086.1 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 46267.5  | 0.0    | 46267.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 843.1   | 1.8       |
| 10°-20°   | 2204.2  | 4.8       |
| 20°-30°   | 3556.6  | 7.7       |
| 30°-40°   | 5338.0  | 11.5      |
| 40°-50°   | 7572.3  | 16.4      |
| 50°-60°   | 9562.8  | 20.7      |
| 60°-70°   | 9712.3  | 21.0      |
| 70°-80°   | 6619.4  | 14.3      |
| 80°-90°   | 858.8   | 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°    | 46267.5 | 100.0     |
| 0°-180°   | 46267.5 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P970881

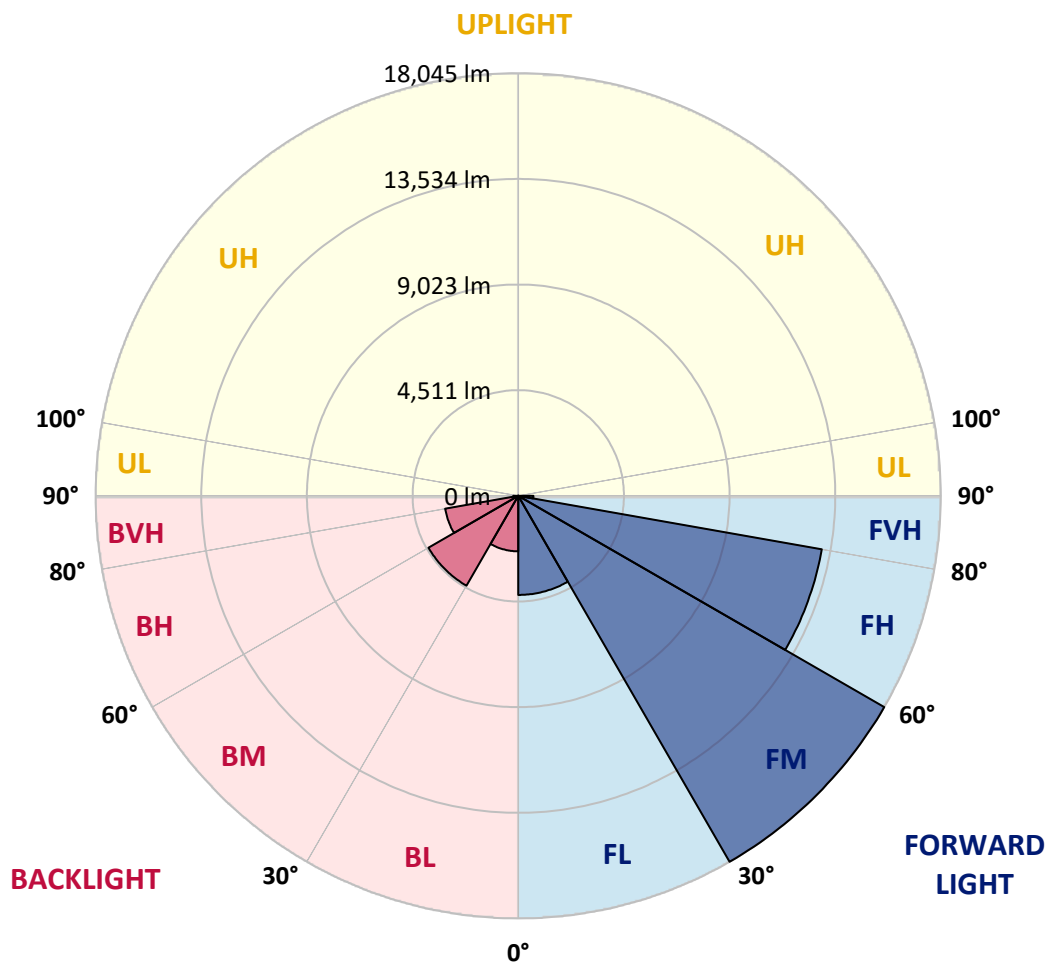
CATALOG NUMBER: NAV-SB6C-735-U-SL2

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4232.4  | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 18045.3 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 13161.5 | 28.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 646.9   | 1.4       |                         |      | G4/750  |
| BL   | (0°-30°)    | 2371.5  | 5.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4427.8  | 9.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3170.2  | 6.9       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 211.9   | 0.5       |                         |      | G2/225  |
| 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: P970881

CATALOG NUMBER: NAV-SB6C-735-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9287.7  | 9287.7  | 9287.7  | 9287.7  | 9287.7  | 9287.7  | 9287.7  | 9287.7  | 9287.7  | 9287.7  | 9287.7  |
| 2.5°  | 9292.6  | 9248.6  | 9275.5  | 9265.7  | 9278.0  | 9292.6  | 9297.6  | 9304.8  | 9329.3  | 9326.9  | 9324.4  |
| 5°    | 9273.1  | 9229.0  | 9265.7  | 9253.5  | 9285.3  | 9319.6  | 9348.9  | 9375.9  | 9415.0  | 9432.2  | 9407.7  |
| 7.5°  | 9231.5  | 9202.1  | 9238.8  | 9275.5  | 9334.3  | 9385.6  | 9427.2  | 9488.4  | 9544.7  | 9554.5  | 9571.7  |
| 10°   | 8989.1  | 8967.1  | 9052.8  | 9148.2  | 9309.8  | 9449.3  | 9539.9  | 9610.8  | 9672.0  | 9681.7  | 9706.2  |
| 12.5° | 8737.1  | 8710.1  | 8805.7  | 8935.3  | 9197.2  | 9449.3  | 9640.2  | 9733.2  | 9787.0  | 9818.9  | 9855.6  |
| 15°   | 8695.5  | 8673.4  | 8727.3  | 8839.9  | 9057.7  | 9383.2  | 9708.7  | 9880.0  | 9926.5  | 9963.2  | 9977.9  |
| 17.5° | 8896.2  | 8854.6  | 8876.6  | 8915.8  | 9043.1  | 9322.1  | 9762.5  | 10046.4 | 10117.4 | 10156.5 | 10156.5 |
| 20°   | 9361.2  | 9302.5  | 9268.2  | 9189.8  | 9167.8  | 9331.8  | 9757.7  | 10247.1 | 10340.1 | 10389.1 | 10401.3 |
| 22.5° | 9980.3  | 9941.2  | 9867.8  | 9669.5  | 9454.2  | 9451.7  | 9850.7  | 10504.1 | 10677.8 | 10724.4 | 10695.0 |
| 25°   | 10729.3 | 10670.6 | 10577.5 | 10308.3 | 9894.7  | 9689.1  | 10007.3 | 10832.0 | 11123.3 | 11135.5 | 11049.9 |
| 27.5° | 11590.7 | 11502.7 | 11375.3 | 11020.5 | 10462.5 | 10061.1 | 10247.1 | 11208.9 | 11634.8 | 11629.9 | 11453.7 |
| 30°   | 12498.7 | 12410.6 | 12276.0 | 11845.2 | 11142.9 | 10562.8 | 10579.9 | 11615.2 | 12241.7 | 12214.8 | 11913.8 |
| 32.5° | 13161.9 | 13095.8 | 13069.0 | 12736.1 | 11926.0 | 11155.1 | 10961.8 | 12065.5 | 12990.6 | 12966.1 | 12545.2 |
| 35°   | 13671.0 | 13585.4 | 13617.1 | 13448.3 | 12780.1 | 11818.4 | 11429.2 | 12601.5 | 13901.0 | 13898.6 | 13374.8 |
| 37.5° | 14175.1 | 14099.3 | 14126.2 | 14013.6 | 13570.7 | 12660.2 | 11999.5 | 13257.4 | 15029.3 | 15083.1 | 14378.3 |
| 40°   | 14635.3 | 14554.5 | 14662.2 | 14556.9 | 14185.0 | 13555.9 | 12648.0 | 13998.9 | 16336.1 | 16438.9 | 15592.2 |
| 42.5° | 14911.8 | 14848.1 | 15026.8 | 15029.3 | 14718.5 | 14312.2 | 13360.2 | 14816.4 | 17848.6 | 18078.7 | 17085.1 |
| 45°   | 15007.2 | 14985.2 | 15254.5 | 15310.7 | 15190.8 | 14750.3 | 14001.4 | 15707.2 | 19478.6 | 19889.7 | 18786.0 |
| 47.5° | 14904.4 | 14862.8 | 15234.9 | 15442.9 | 15538.3 | 14955.9 | 14532.4 | 16671.4 | 21142.8 | 21744.9 | 20641.0 |
| 50°   | 14385.7 | 14304.9 | 14858.0 | 15296.1 | 15636.3 | 15090.5 | 15068.4 | 17785.0 | 23034.6 | 23693.0 | 22506.0 |
| 52.5° | 13453.1 | 13392.0 | 14021.0 | 14782.1 | 15420.8 | 15156.6 | 15670.5 | 19001.3 | 24830.9 | 25682.7 | 24417.3 |
| 55°   | 12261.3 | 12180.6 | 12873.2 | 13866.8 | 14884.8 | 15134.5 | 16272.5 | 20362.1 | 26950.4 | 27814.3 | 26392.4 |
| 57.5° | 10372.0 | 10210.4 | 11086.6 | 12261.3 | 14011.1 | 15107.6 | 16899.1 | 21715.4 | 29104.1 | 30139.3 | 28499.6 |
| 60°   | 7616.2  | 7376.4  | 8450.7  | 9843.3  | 12302.9 | 14845.7 | 17674.9 | 23232.9 | 31688.5 | 32620.9 | 30800.1 |
| 62.5° | 4434.7  | 4295.2  | 4997.5  | 6297.1  | 9273.1  | 13303.9 | 18110.5 | 24997.4 | 34228.8 | 35207.8 | 33061.5 |
| 65°   | 3443.5  | 3404.3  | 3465.4  | 3565.8  | 5161.5  | 9960.7  | 16766.9 | 26717.9 | 37459.3 | 38144.7 | 35418.3 |
| 67.5° | 3149.7  | 3120.4  | 3147.3  | 2958.9  | 2618.7  | 5548.2  | 13264.7 | 27153.5 | 40919.9 | 41336.0 | 37481.4 |
| 70°   | 2799.8  | 2765.6  | 2853.6  | 2692.1  | 2060.7  | 2523.2  | 8570.6  | 25572.5 | 43673.3 | 44453.9 | 39050.1 |
| 72.5° | 2280.9  | 2241.8  | 2447.4  | 2373.9  | 1735.2  | 1620.1  | 4304.9  | 21815.8 | 43384.5 | 45004.6 | 37926.8 |
| 75°   | 1752.3  | 1730.3  | 1975.1  | 2036.2  | 1414.6  | 1275.1  | 2065.6  | 16216.2 | 38178.9 | 39811.3 | 32687.0 |
| 77.5° | 1360.7  | 1343.6  | 1468.4  | 1691.1  | 1140.5  | 988.7   | 1270.2  | 10286.3 | 28771.2 | 29057.6 | 22525.6 |
| 80°   | 1020.6  | 971.6   | 1086.6  | 1309.3  | 888.4   | 722.0   | 861.5   | 5998.5  | 18186.4 | 16485.5 | 9804.1  |
| 82.5° | 638.8   | 614.3   | 709.7   | 873.7   | 626.5   | 496.8   | 560.5   | 3313.7  | 7288.3  | 4292.7  | 1891.8  |
| 85°   | 364.7   | 354.9   | 386.7   | 499.3   | 340.2   | 286.4   | 320.6   | 1463.5  | 1331.4  | 915.3   | 570.2   |
| 87.5° | 146.9   | 142.0   | 176.2   | 222.7   | 124.8   | 105.3   | 112.5   | 352.4   | 293.7   | 271.6   | 188.5   |
| 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: P970881

CATALOG NUMBER: NAV-SB6C-735-U-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9287.7  | 9287.7  | 9287.7 | 9287.7 | 9287.7 | 9287.7 | 9287.7 | 9287.7 | 9287.7 | 9287.7 | 9287.7 |
| 2.5°  | 9314.7  | 9314.7  | 9280.5 | 9226.5 | 9165.3 | 9126.2 | 9062.6 | 9045.4 | 8979.4 | 8959.8 | 8991.6 |
| 5°    | 9427.2  | 9407.7  | 9302.5 | 9150.7 | 8942.7 | 8751.8 | 8541.3 | 8409.1 | 8223.2 | 8157.1 | 8206.0 |
| 7.5°  | 9569.2  | 9515.4  | 9334.3 | 9001.4 | 8565.8 | 8137.5 | 7692.1 | 7354.4 | 7031.3 | 6916.3 | 6930.9 |
| 10°   | 9699.0  | 9623.0  | 9314.7 | 8732.2 | 7978.4 | 7236.9 | 6527.1 | 6030.3 | 5653.4 | 5499.2 | 5533.5 |
| 12.5° | 9828.6  | 9689.1  | 9184.9 | 8284.4 | 7143.8 | 6138.0 | 5381.8 | 4995.0 | 4762.6 | 4576.6 | 4637.7 |
| 15°   | 9951.0  | 9755.2  | 8984.3 | 7684.7 | 6228.5 | 5208.0 | 4650.0 | 4341.6 | 4155.7 | 4033.3 | 4055.3 |
| 17.5° | 10093.0 | 9811.5  | 8683.3 | 6923.6 | 5357.3 | 4564.3 | 4109.1 | 3923.1 | 3886.4 | 3871.7 | 3881.6 |
| 20°   | 10291.2 | 9862.9  | 8286.8 | 6071.9 | 4716.0 | 4050.4 | 3815.5 | 3798.3 | 3795.9 | 3788.5 | 3813.0 |
| 22.5° | 10504.1 | 9924.0  | 7763.0 | 5298.5 | 4170.3 | 3729.8 | 3688.2 | 3653.9 | 3631.9 | 3629.4 | 3656.4 |
| 25°   | 10756.1 | 9943.6  | 7107.1 | 4664.7 | 3705.3 | 3578.1 | 3529.1 | 3477.7 | 3463.1 | 3463.1 | 3477.7 |
| 27.5° | 11000.9 | 9877.6  | 6343.6 | 4114.0 | 3443.5 | 3438.6 | 3374.9 | 3357.8 | 3355.3 | 3362.7 | 3382.3 |
| 30°   | 11245.7 | 9752.8  | 5584.9 | 3604.9 | 3291.7 | 3291.7 | 3269.6 | 3281.9 | 3291.7 | 3316.2 | 3333.3 |
| 32.5° | 11576.0 | 9620.5  | 4951.1 | 3228.0 | 3159.6 | 3135.1 | 3157.1 | 3181.6 | 3191.3 | 3223.2 | 3250.1 |
| 35°   | 12060.7 | 9527.6  | 4446.9 | 3022.5 | 3022.5 | 2990.6 | 3002.9 | 2998.0 | 2976.0 | 2961.3 | 2995.6 |
| 37.5° | 12701.8 | 9522.7  | 4030.8 | 2927.1 | 2907.5 | 2902.6 | 2905.1 | 2873.2 | 2787.6 | 2684.8 | 2687.2 |
| 40°   | 13472.7 | 9654.9  | 3710.2 | 2861.0 | 2846.3 | 2875.6 | 2861.0 | 2775.3 | 2540.4 | 2361.7 | 2356.8 |
| 42.5° | 14508.0 | 10031.8 | 3504.7 | 2780.2 | 2824.3 | 2861.0 | 2802.2 | 2506.1 | 2347.0 | 2227.1 | 2222.2 |
| 45°   | 15726.8 | 10643.6 | 3399.4 | 2694.5 | 2782.7 | 2826.7 | 2542.8 | 2413.1 | 2285.9 | 2141.4 | 2131.7 |
| 47.5° | 17107.0 | 11414.5 | 3374.9 | 2613.8 | 2689.7 | 2716.6 | 2432.6 | 2373.9 | 2229.6 | 2073.0 | 2060.7 |
| 50°   | 18609.8 | 12327.4 | 3441.0 | 2518.3 | 2555.0 | 2462.0 | 2395.9 | 2342.1 | 2192.9 | 2038.6 | 2021.5 |
| 52.5° | 20163.9 | 13333.3 | 3573.2 | 2388.7 | 2420.4 | 2317.6 | 2381.3 | 2334.7 | 2170.8 | 1962.8 | 1948.1 |
| 55°   | 21691.0 | 14346.4 | 3700.5 | 2236.9 | 2283.4 | 2188.0 | 2339.7 | 2305.4 | 2070.5 | 1835.6 | 1823.3 |
| 57.5° | 23242.6 | 15354.8 | 3825.2 | 2102.3 | 2151.3 | 2063.1 | 2273.6 | 2227.1 | 1957.9 | 1718.0 | 1713.2 |
| 60°   | 24855.4 | 16333.7 | 3883.9 | 1972.6 | 2006.8 | 1948.1 | 2173.3 | 2092.5 | 1830.6 | 1598.2 | 1590.8 |
| 62.5° | 26365.5 | 17148.7 | 3788.5 | 1842.8 | 1864.9 | 1840.4 | 2041.1 | 1933.5 | 1703.3 | 1463.5 | 1461.0 |
| 65°   | 27880.4 | 17633.3 | 3494.8 | 1715.6 | 1720.5 | 1708.3 | 1855.1 | 1762.1 | 1554.1 | 1346.0 | 1331.4 |
| 67.5° | 29253.4 | 17904.9 | 3027.4 | 1578.6 | 1566.3 | 1561.4 | 1681.3 | 1576.1 | 1409.7 | 1228.6 | 1213.9 |
| 70°   | 29544.6 | 17214.8 | 2312.8 | 1417.1 | 1417.1 | 1404.8 | 1490.5 | 1382.7 | 1250.6 | 1103.7 | 1098.9 |
| 72.5° | 26984.7 | 14481.1 | 1642.2 | 1233.5 | 1253.1 | 1228.6 | 1299.6 | 1209.0 | 1089.1 | 991.2  | 961.9  |
| 75°   | 21759.5 | 10619.1 | 1194.3 | 1045.0 | 1079.3 | 1037.7 | 1103.7 | 1040.2 | 937.4  | 934.9  | 841.9  |
| 77.5° | 14951.0 | 6566.3  | 866.3  | 861.5  | 885.9  | 832.1  | 907.9  | 873.7  | 780.7  | 739.1  | 692.6  |
| 80°   | 6380.3  | 2618.7  | 631.4  | 665.6  | 665.6  | 616.7  | 704.9  | 714.6  | 633.9  | 614.3  | 614.3  |
| 82.5° | 1270.2  | 744.0   | 443.0  | 457.7  | 430.7  | 416.0  | 499.3  | 553.1  | 763.6  | 849.2  | 851.7  |
| 85°   | 381.8   | 274.1   | 266.8  | 249.6  | 220.3  | 222.7  | 293.7  | 555.6  | 685.2  | 391.5  | 337.7  |
| 87.5° | 105.3   | 68.6    | 70.9   | 56.3   | 46.5   | 61.2   | 100.3  | 421.0  | 230.0  | 97.9   | 83.2   |
| 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)