

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: P885310

Luminaire Tested: **NAV-SB6C-740-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885310  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-740-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

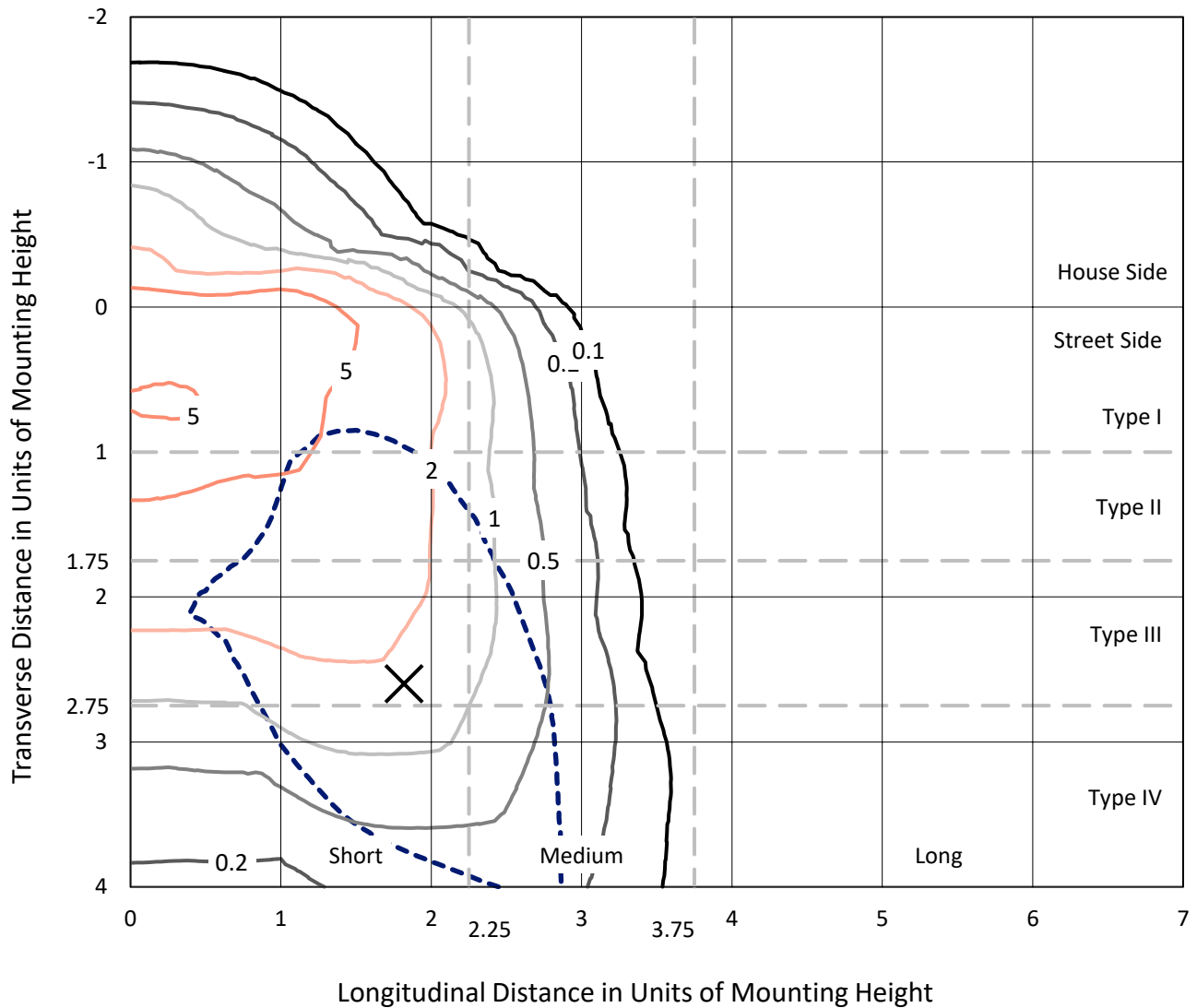
Lumens per Lamp: N/A  
Luminaire Lumens: 37106 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P885310  
 CATALOG NUMBER: NAV-SB6C-740-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

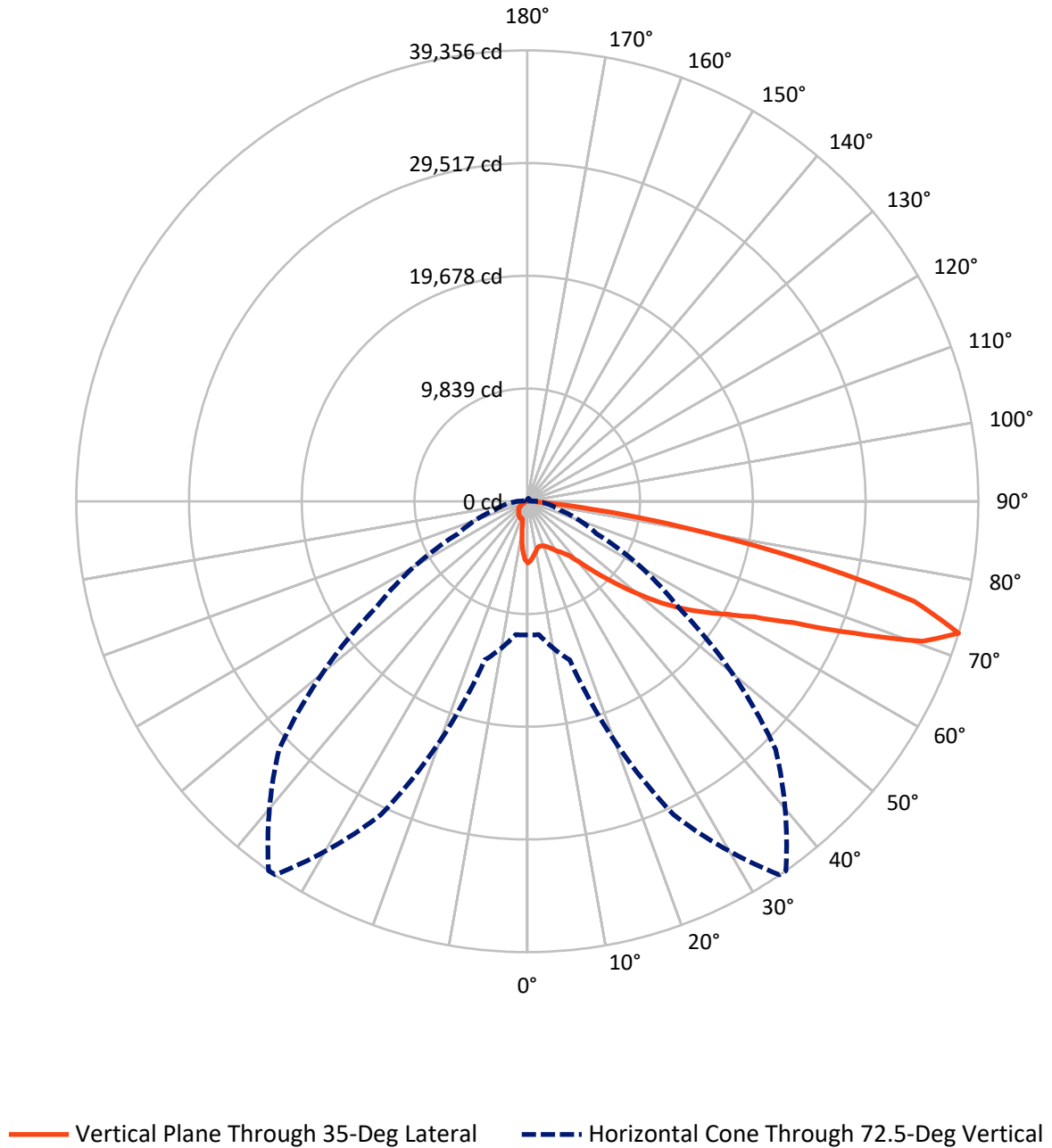
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P885310  
CATALOG NUMBER: NAV-SB6C-740-U-T4FT-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P885310  
 CATALOG NUMBER: NAV-SB6C-740-U-T4FT-HSS

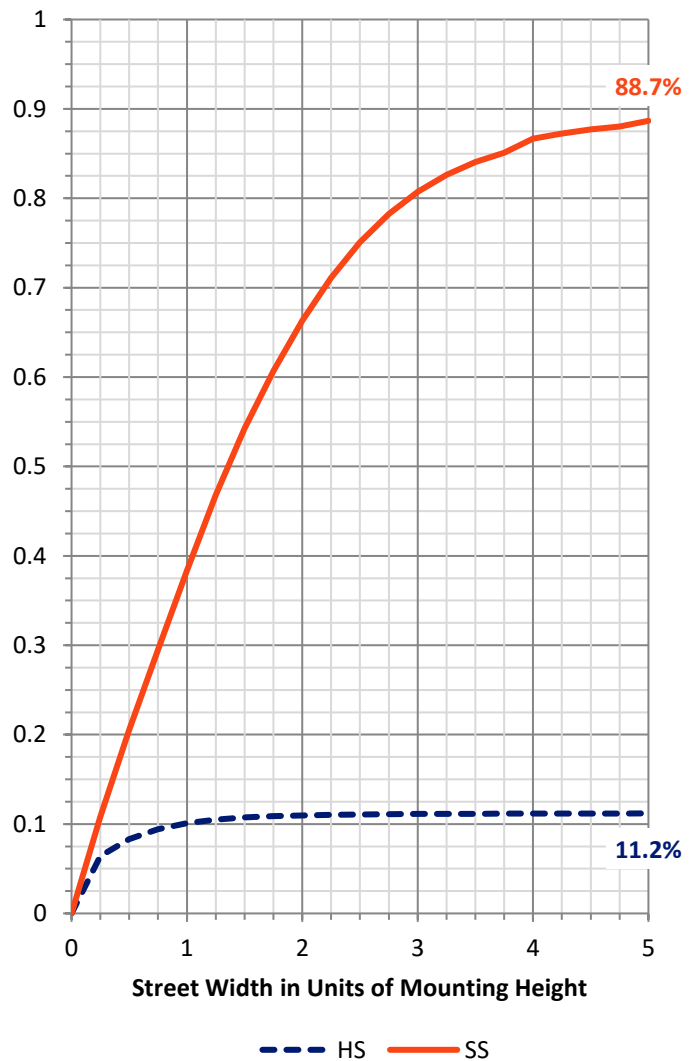
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4176.1   | 0.0    | 4176.1  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 32929.9  | 0.0    | 32929.9 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 37106.0  | 0.0    | 37106.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 441.9   | 1.2       |
| 10°-20°   | 1033.8  | 2.8       |
| 20°-30°   | 1679.4  | 4.5       |
| 30°-40°   | 2802.1  | 7.6       |
| 40°-50°   | 5301.6  | 14.3      |
| 50°-60°   | 8424.2  | 22.7      |
| 60°-70°   | 10421.4 | 28.1      |
| 70°-80°   | 6478.0  | 17.5      |
| 80°-90°   | 523.5   | 1.4       |
| 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°    | 37106.0 | 100.0     |
| 0°-180°   | 37106.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P885310

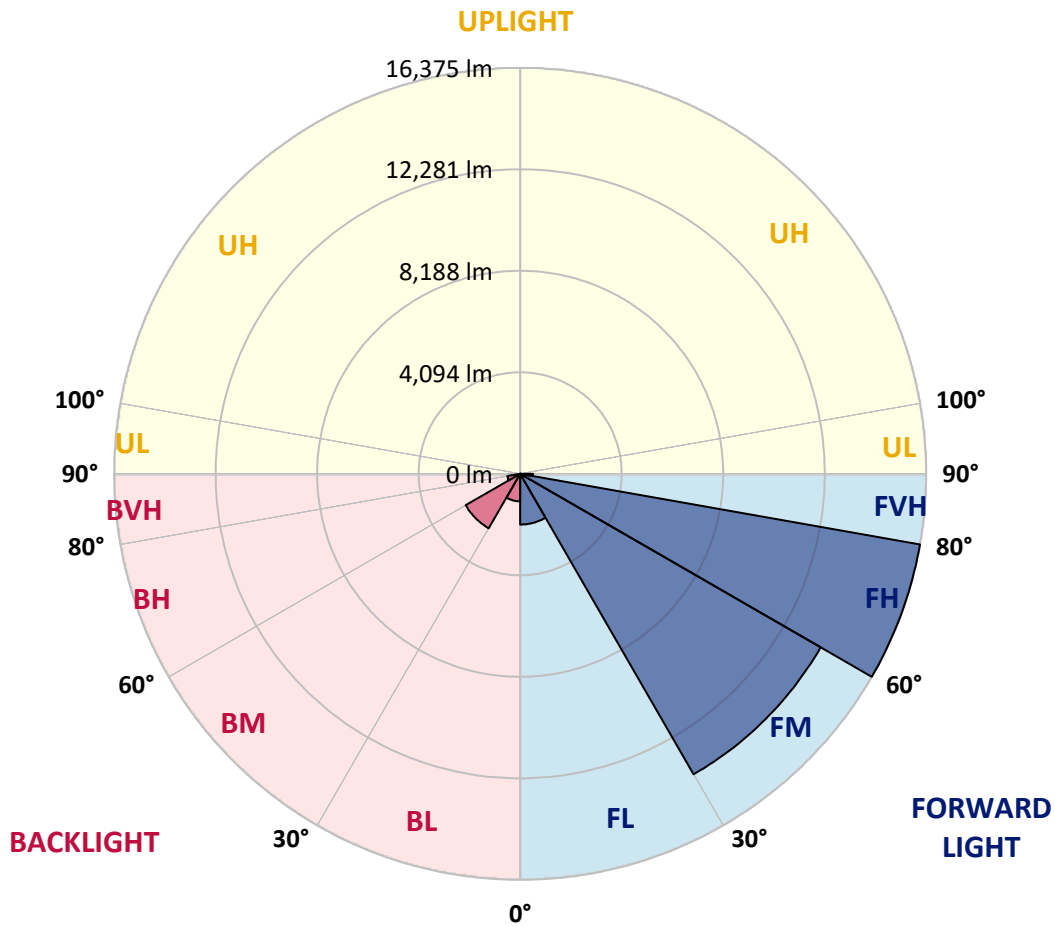
CATALOG NUMBER: NAV-SB6C-740-U-T4FT-HSS

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2045.5  | 5.5       |                         |      |         |
| FM (30°-60°)   | 13992.7 | 37.7      |                         |      |         |
| FH (60°-80°)   | 16375.3 | 44.1      |                         |      | G5      |
| FVH (80°-90°)  | 516.4   | 1.4       |                         |      | G4/750  |
| BL (0°-30°)    | 1109.7  | 3.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 2535.3  | 6.8       | B3/5000                 |      |         |
| BH (60°-80°)   | 524.0   | 1.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 7.1     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type IV Short



REPORT NUMBER: P885310  
 CATALOG NUMBER: NAV-SB6C-740-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5377.9  | 5377.9  | 5377.9  | 5377.9  | 5377.9  | 5377.9  | 5377.9  | 5377.9  | 5377.9  | 5377.9  | 5377.9  |
| 2.5°  | 5138.6  | 5182.1  | 5190.3  | 5203.9  | 5203.9  | 5220.2  | 5247.4  | 5285.5  | 5348.0  | 5380.6  | 5402.4  |
| 5°    | 4736.3  | 4768.9  | 4809.7  | 4842.3  | 4904.8  | 4913.0  | 5019.0  | 5122.3  | 5266.4  | 5375.2  | 5451.3  |
| 7.5°  | 4331.1  | 4369.2  | 4423.6  | 4502.4  | 4584.0  | 4608.5  | 4768.9  | 4942.9  | 5171.3  | 5375.2  | 5503.0  |
| 10°   | 4045.7  | 4048.4  | 4097.3  | 4176.2  | 4306.7  | 4336.6  | 4532.3  | 4779.8  | 5065.2  | 5342.6  | 5551.9  |
| 12.5° | 3885.2  | 3904.3  | 3926.0  | 3985.8  | 4110.9  | 4129.9  | 4339.3  | 4630.2  | 4959.2  | 5323.5  | 5609.0  |
| 15°   | 3885.2  | 3898.8  | 3912.4  | 3942.3  | 4042.9  | 4059.3  | 4244.1  | 4535.1  | 4904.8  | 5331.7  | 5701.4  |
| 17.5° | 3926.0  | 3947.8  | 3936.9  | 3972.3  | 4078.3  | 4089.2  | 4252.3  | 4507.9  | 4902.1  | 5383.3  | 5842.8  |
| 20°   | 4023.9  | 4040.2  | 4018.5  | 4040.2  | 4146.3  | 4168.0  | 4336.6  | 4559.5  | 4948.3  | 5473.1  | 6019.6  |
| 22.5° | 4178.9  | 4187.0  | 4135.4  | 4151.7  | 4260.5  | 4287.6  | 4483.4  | 4706.3  | 5059.8  | 5617.2  | 6256.1  |
| 25°   | 4374.6  | 4391.0  | 4312.1  | 4331.1  | 4434.5  | 4467.1  | 4692.8  | 4926.6  | 5236.5  | 5815.6  | 6557.9  |
| 27.5° | 4600.3  | 4608.5  | 4540.5  | 4537.8  | 4671.0  | 4717.2  | 4945.6  | 5198.5  | 5473.1  | 6065.8  | 6938.5  |
| 30°   | 4858.6  | 4883.1  | 4817.8  | 4806.9  | 4975.5  | 5013.6  | 5239.2  | 5532.9  | 5821.1  | 6441.0  | 7479.6  |
| 32.5° | 5062.5  | 5081.5  | 5043.5  | 5070.7  | 5242.0  | 5271.9  | 5595.4  | 6006.0  | 6367.6  | 6973.9  | 8216.4  |
| 35°   | 5356.2  | 5367.0  | 5280.0  | 5329.0  | 5524.7  | 5600.8  | 6082.1  | 6669.4  | 7055.4  | 7642.7  | 9178.9  |
| 37.5° | 6419.2  | 6419.2  | 6049.5  | 5807.5  | 5995.1  | 6063.1  | 6748.2  | 7504.1  | 7903.7  | 8539.9  | 10391.5 |
| 40°   | 7890.1  | 7865.7  | 7324.6  | 6829.8  | 6805.3  | 6938.5  | 7697.1  | 8556.2  | 8999.4  | 9616.6  | 11756.3 |
| 42.5° | 9458.9  | 9420.8  | 8684.0  | 8194.6  | 8113.1  | 8159.3  | 8792.8  | 9853.1  | 10304.5 | 10929.8 | 13224.5 |
| 45°   | 10851.0 | 10840.1 | 10165.8 | 9507.9  | 9361.0  | 9507.9  | 10160.4 | 11370.3 | 11693.8 | 12351.8 | 14690.0 |
| 47.5° | 12017.4 | 12017.4 | 11525.2 | 11095.7 | 11019.5 | 11106.5 | 12011.9 | 13053.2 | 13023.3 | 13866.2 | 16117.4 |
| 50°   | 13360.5 | 13349.6 | 12882.0 | 12697.1 | 12775.9 | 12898.3 | 14143.5 | 14825.9 | 14399.1 | 15353.4 | 17392.5 |
| 52.5° | 14301.2 | 14366.5 | 14206.0 | 14176.1 | 14578.5 | 14790.6 | 16307.7 | 16560.6 | 15630.7 | 16764.5 | 18346.9 |
| 55°   | 15046.2 | 15122.3 | 15307.2 | 15516.5 | 16291.4 | 16568.7 | 18404.0 | 18205.5 | 16661.2 | 17988.0 | 18896.1 |
| 57.5° | 16101.1 | 15992.3 | 16277.8 | 16691.1 | 17944.5 | 18278.9 | 20434.9 | 19757.9 | 17490.4 | 18980.4 | 18955.9 |
| 60°   | 17381.7 | 17398.0 | 17446.9 | 17968.9 | 19594.8 | 20024.4 | 22436.0 | 21226.1 | 18023.3 | 19589.4 | 18292.5 |
| 62.5° | 18920.5 | 18945.0 | 19045.6 | 19847.7 | 21810.7 | 22215.8 | 24567.6 | 22427.9 | 18268.0 | 19418.1 | 16579.6 |
| 65°   | 18814.5 | 18917.8 | 20040.7 | 22784.0 | 25179.4 | 25579.0 | 27055.4 | 23270.7 | 17898.3 | 17852.0 | 13499.1 |
| 67.5° | 17139.7 | 17308.3 | 19187.0 | 26291.4 | 30258.2 | 30704.1 | 30062.4 | 23436.6 | 16302.3 | 13882.5 | 8806.4  |
| 70°   | 14942.9 | 15002.7 | 17262.0 | 29445.2 | 36139.1 | 36590.4 | 32754.1 | 21612.2 | 12370.8 | 7743.3  | 3945.1  |
| 72.5° | 11669.3 | 11682.9 | 14333.8 | 30176.6 | 39331.0 | 39355.5 | 30641.5 | 16044.0 | 6653.0  | 2974.4  | 1370.3  |
| 75°   | 8336.0  | 8254.5  | 9600.3  | 24472.5 | 34602.9 | 34880.2 | 22971.6 | 7525.8  | 2542.1  | 1405.7  | 682.4   |
| 77.5° | 4469.8  | 4559.5  | 5432.3  | 14513.3 | 23904.2 | 24377.3 | 12533.9 | 2169.6  | 1294.2  | 957.0   | 451.3   |
| 80°   | 1381.2  | 1457.3  | 2226.7  | 6644.9  | 13539.9 | 13825.4 | 4646.5  | 965.2   | 902.7   | 682.4   | 296.4   |
| 82.5° | 435.0   | 451.3   | 1038.6  | 2792.3  | 5619.9  | 5750.4  | 1345.8  | 546.5   | 617.2   | 451.3   | 174.0   |
| 85°   | 125.1   | 127.8   | 462.2   | 1041.3  | 1389.3  | 1416.5  | 377.9   | 212.1   | 353.5   | 280.0   | 89.7    |
| 87.5° | 13.6    | 43.5    | 174.0   | 174.0   | 122.3   | 119.6   | 40.8    | 46.2    | 100.6   | 35.3    | 16.3    |
| 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: P885310  
 CATALOG NUMBER: NAV-SB6C-740-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5377.9  | 5377.9  | 5377.9 | 5377.9 | 5377.9 | 5377.9 | 5377.9 | 5377.9 | 5377.9 | 5377.9 | 5377.9 |
| 2.5°  | 5388.8  | 5391.5  | 5356.2 | 5296.3 | 5231.1 | 5176.7 | 5108.7 | 5054.4 | 5016.3 | 5005.4 | 5024.5 |
| 5°    | 5426.8  | 5407.8  | 5307.2 | 5125.0 | 4907.5 | 4719.9 | 4510.6 | 4344.7 | 4236.0 | 4189.8 | 4206.1 |
| 7.5°  | 5483.9  | 5429.6  | 5209.3 | 4850.4 | 4434.5 | 4064.7 | 3689.5 | 3398.6 | 3213.7 | 3121.3 | 3134.8 |
| 10°   | 5532.9  | 5424.1  | 5046.2 | 4453.5 | 3817.3 | 3257.2 | 2751.5 | 2400.8 | 2205.0 | 2112.6 | 2115.3 |
| 12.5° | 5579.1  | 5421.4  | 4834.1 | 3983.1 | 3121.3 | 2436.1 | 1965.7 | 1791.7 | 1737.4 | 1718.3 | 1712.9 |
| 15°   | 5666.1  | 5429.6  | 4567.7 | 3444.8 | 2427.9 | 1840.7 | 1669.4 | 1666.7 | 1677.5 | 1672.1 | 1669.4 |
| 17.5° | 5785.7  | 5437.7  | 4265.9 | 2873.8 | 1873.3 | 1623.2 | 1615.0 | 1639.5 | 1655.8 | 1647.6 | 1644.9 |
| 20°   | 5940.7  | 5470.3  | 3945.1 | 2308.3 | 1609.6 | 1568.8 | 1587.8 | 1609.6 | 1623.2 | 1609.6 | 1606.8 |
| 22.5° | 6158.2  | 5527.4  | 3594.3 | 1854.3 | 1525.3 | 1536.2 | 1552.5 | 1576.9 | 1590.5 | 1571.5 | 1568.8 |
| 25°   | 6424.7  | 5617.2  | 3249.0 | 1612.3 | 1484.5 | 1498.1 | 1522.6 | 1549.7 | 1566.1 | 1547.0 | 1544.3 |
| 27.5° | 6770.0  | 5761.3  | 2930.9 | 1557.9 | 1443.7 | 1451.9 | 1487.2 | 1528.0 | 1549.7 | 1525.3 | 1525.3 |
| 30°   | 7270.2  | 5997.8  | 2656.3 | 1582.4 | 1419.2 | 1400.2 | 1449.2 | 1506.2 | 1530.7 | 1509.0 | 1506.2 |
| 32.5° | 7933.6  | 6332.2  | 2487.8 | 1620.4 | 1408.4 | 1340.4 | 1386.6 | 1460.0 | 1500.8 | 1487.2 | 1487.2 |
| 35°   | 8803.7  | 6840.6  | 2422.5 | 1663.9 | 1400.2 | 1277.9 | 1310.5 | 1389.3 | 1460.0 | 1473.6 | 1473.6 |
| 37.5° | 9858.6  | 7547.6  | 2441.5 | 1683.0 | 1375.7 | 1226.2 | 1242.5 | 1310.5 | 1402.9 | 1446.4 | 1457.3 |
| 40°   | 11057.6 | 8371.4  | 2550.3 | 1663.9 | 1348.6 | 1182.7 | 1185.4 | 1237.1 | 1318.6 | 1383.9 | 1405.7 |
| 42.5° | 12294.7 | 9333.8  | 2751.5 | 1593.3 | 1324.1 | 1144.6 | 1136.5 | 1171.8 | 1226.2 | 1272.4 | 1291.5 |
| 45°   | 13471.9 | 10323.5 | 2950.0 | 1495.4 | 1294.2 | 1106.6 | 1087.5 | 1101.1 | 1112.0 | 1131.0 | 1141.9 |
| 47.5° | 14499.7 | 11019.5 | 2892.9 | 1405.7 | 1253.4 | 1063.1 | 1030.4 | 1025.0 | 992.4  | 989.7  | 986.9  |
| 50°   | 15209.3 | 11171.8 | 2569.3 | 1315.9 | 1193.6 | 1014.1 | 962.5  | 929.8  | 872.8  | 845.6  | 848.3  |
| 52.5° | 15435.0 | 10570.9 | 2099.0 | 1226.2 | 1095.7 | 948.9  | 875.5  | 823.8  | 753.1  | 728.7  | 725.9  |
| 55°   | 15135.9 | 9393.7  | 1677.5 | 1117.5 | 959.8  | 861.9  | 780.3  | 712.3  | 655.2  | 625.3  | 625.3  |
| 57.5° | 14404.5 | 7895.6  | 1326.8 | 989.7  | 815.7  | 764.0  | 682.4  | 614.5  | 565.5  | 535.6  | 530.2  |
| 60°   | 13191.9 | 6269.7  | 1049.5 | 837.4  | 696.0  | 658.0  | 573.7  | 530.2  | 486.7  | 451.3  | 443.2  |
| 62.5° | 11351.2 | 4475.2  | 823.8  | 663.4  | 581.8  | 538.3  | 489.4  | 456.8  | 405.1  | 356.2  | 348.0  |
| 65°   | 8858.0  | 2737.9  | 636.2  | 486.7  | 467.6  | 445.9  | 416.0  | 386.1  | 323.5  | 274.6  | 266.4  |
| 67.5° | 5587.3  | 1296.9  | 454.0  | 367.0  | 369.8  | 358.9  | 345.3  | 320.8  | 274.6  | 231.1  | 225.7  |
| 70°   | 2460.6  | 628.1   | 299.1  | 280.0  | 274.6  | 274.6  | 285.5  | 277.3  | 233.8  | 193.0  | 184.9  |
| 72.5° | 837.4   | 337.1   | 222.9  | 212.1  | 198.5  | 195.8  | 239.3  | 231.1  | 187.6  | 149.5  | 141.4  |
| 75°   | 437.7   | 225.7   | 163.1  | 152.3  | 119.6  | 144.1  | 190.3  | 179.4  | 133.2  | 97.9   | 89.7   |
| 77.5° | 285.5   | 160.4   | 111.5  | 97.9   | 68.0   | 95.2   | 141.4  | 125.1  | 78.8   | 48.9   | 43.5   |
| 80°   | 179.4   | 106.0   | 65.3   | 46.2   | 32.6   | 51.7   | 76.1   | 54.4   | 29.9   | 10.9   | 8.2    |
| 82.5° | 95.2    | 54.4    | 24.5   | 16.3   | 13.6   | 16.3   | 19.0   | 13.6   | 5.4    | 0.0    | 0.0    |
| 85°   | 38.1    | 19.0    | 8.2    | 5.4    | 2.7    | 0.0    | 5.4    | 2.7    | 0.0    | 0.0    | 0.0    |
| 87.5° | 13.6    | 2.7     | 0.0    | 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)