

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: STREETWORKS

Report Number: P969730

Luminaire Tested: **NVN-SB6A-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6A-722-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19638 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

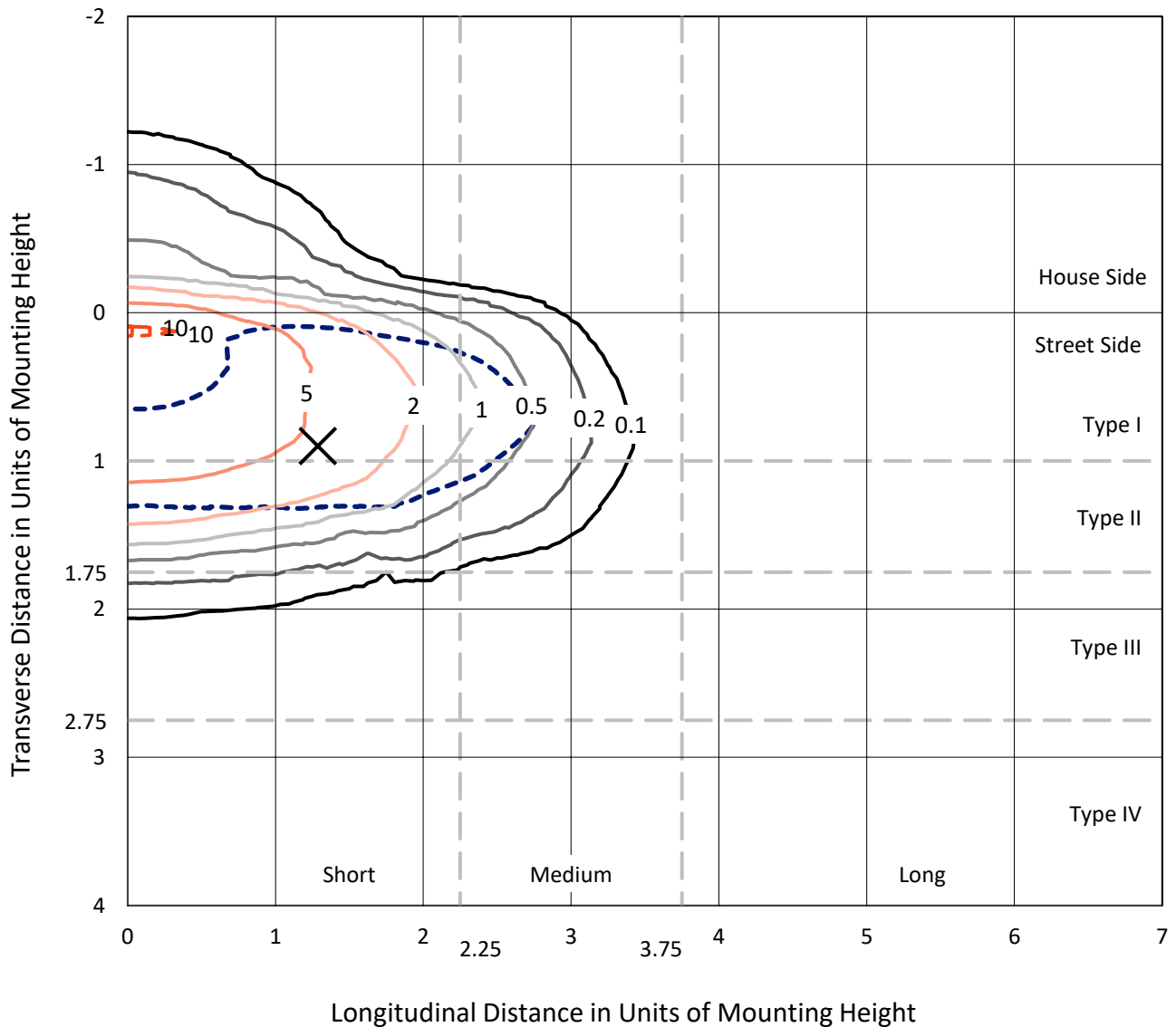
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P969730
 CATALOG NUMBER: NVN-SB6A-722-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

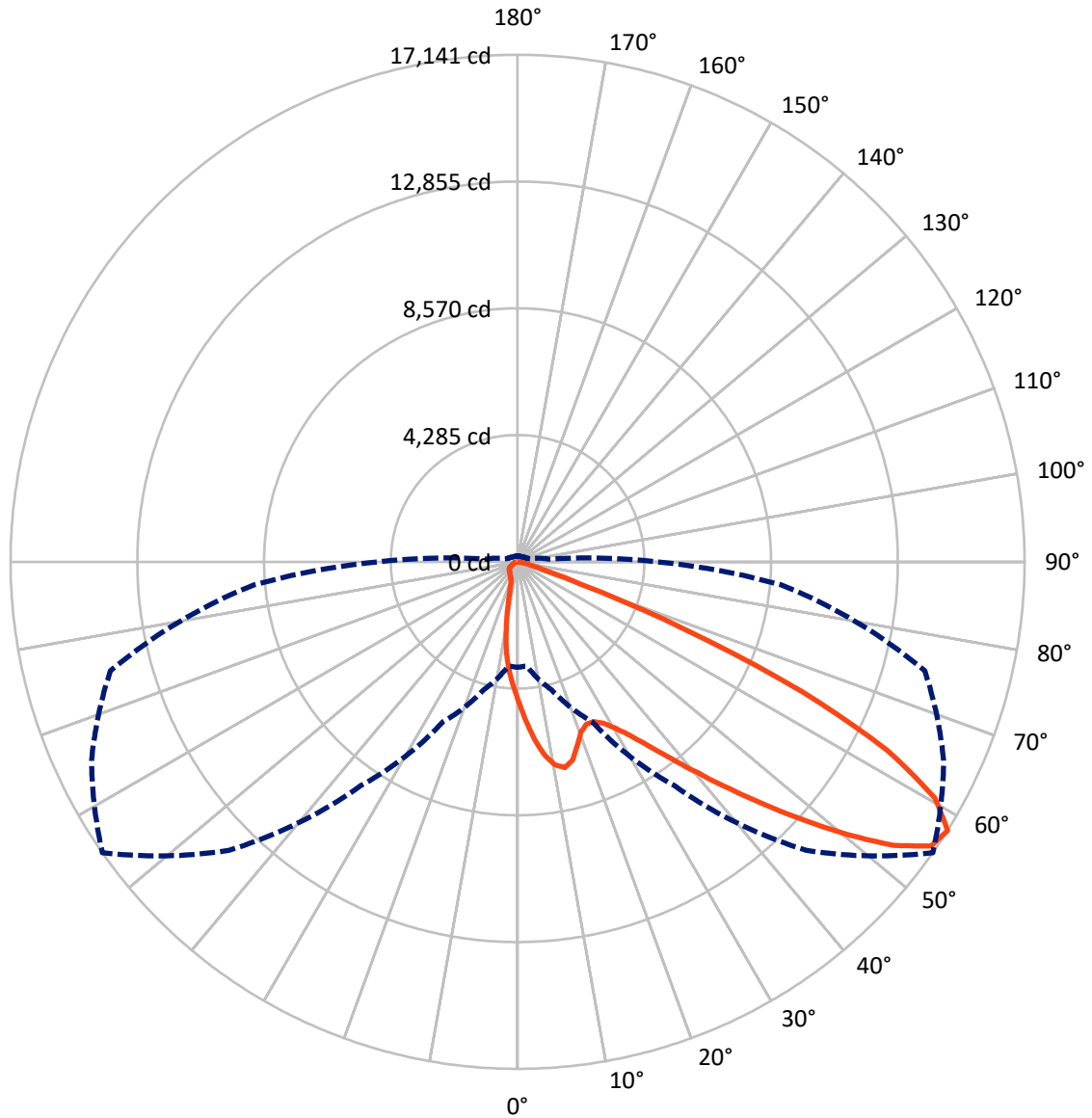
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

REPORT NUMBER: P969730
CATALOG NUMBER: NVN-SB6A-722-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P969730
 CATALOG NUMBER: NVN-SB6A-722-U-AFL-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1533.6 | 0.0 | 1533.6 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 18104.3 | 0.0 | 18104.3 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 19638.0 | 0.0 | 19638.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 440.3 | 2.2 |
| 10°-20° | 1063.6 | 5.4 |
| 20°-30° | 1701.7 | 8.7 |
| 30°-40° | 2880.2 | 14.7 |
| 40°-50° | 4728.7 | 24.1 |
| 50°-60° | 5197.2 | 26.5 |
| 60°-70° | 2981.1 | 15.2 |
| 70°-80° | 609.1 | 3.1 |
| 80°-90° | 35.9 | 0.2 |
| 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° | 19638.0 | 100.0 |
| 0°-180° | 19638.0 | 100.0 |

Coefficient of Utilization

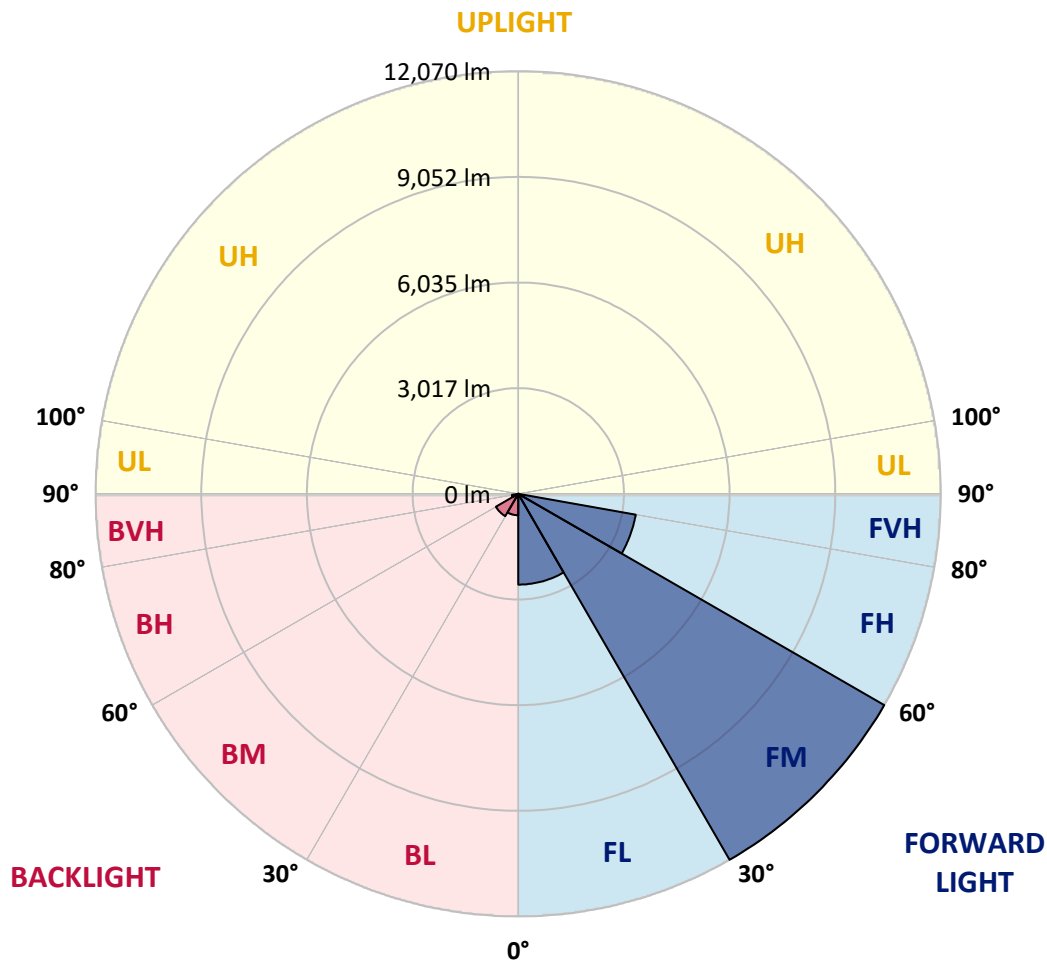


REPORT NUMBER: P969730
 CATALOG NUMBER: NVN-SB6A-722-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2593.3 | 13.2 | | | |
| FM (30°-60°) | 12069.6 | 61.5 | | | |
| FH (60°-80°) | 3407.9 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 33.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 612.3 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 736.5 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 182.4 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Short



REPORT NUMBER: P969730
 CATALOG NUMBER: NVN-SB6A-722-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 |
| 2.5° | 5871.7 | 5797.9 | 5786.9 | 5772.5 | 5632.0 | 5526.6 | 5374.1 | 5206.9 | 5019.2 | 4828.0 | 4743.2 |
| 5° | 6783.6 | 6725.4 | 6714.6 | 6646.7 | 6486.9 | 6307.6 | 6036.4 | 5693.8 | 5343.7 | 4932.1 | 4755.3 |
| 7.5° | 6960.4 | 6949.5 | 6999.1 | 6996.6 | 6974.9 | 6833.2 | 6604.4 | 6196.2 | 5670.7 | 5060.4 | 4786.8 |
| 10° | 6172.0 | 6199.9 | 6347.6 | 6477.2 | 6827.1 | 7030.6 | 6981.0 | 6644.4 | 6007.3 | 5206.9 | 4821.9 |
| 12.5° | 5454.0 | 5421.3 | 5526.6 | 5673.2 | 6080.0 | 6685.5 | 7137.2 | 7018.5 | 6392.4 | 5372.8 | 4874.0 |
| 15° | 5003.5 | 4990.2 | 5049.6 | 5117.3 | 5427.4 | 6037.7 | 6955.5 | 7322.4 | 6763.0 | 5569.0 | 4952.7 |
| 17.5° | 4859.4 | 4848.6 | 4866.7 | 4883.6 | 5084.6 | 5556.9 | 6523.2 | 7508.9 | 7117.8 | 5793.0 | 5039.8 |
| 20° | 4976.9 | 4962.3 | 4959.9 | 4946.6 | 5030.2 | 5352.2 | 6132.1 | 7522.3 | 7436.3 | 5996.5 | 5115.0 |
| 22.5° | 5319.5 | 5302.6 | 5243.3 | 5190.0 | 5197.3 | 5380.1 | 5957.7 | 7389.0 | 7676.0 | 6186.6 | 5162.1 |
| 25° | 5940.8 | 5912.9 | 5789.4 | 5610.1 | 5496.4 | 5573.8 | 5984.4 | 7213.4 | 7904.9 | 6335.5 | 5139.1 |
| 27.5° | 6718.2 | 6681.9 | 6523.2 | 6256.8 | 5996.5 | 5902.1 | 6176.9 | 7092.4 | 8094.9 | 6449.3 | 5089.5 |
| 30° | 7479.8 | 7432.6 | 7276.4 | 7069.3 | 6689.2 | 6391.2 | 6524.4 | 7145.6 | 8321.5 | 6568.0 | 5024.1 |
| 32.5° | 8302.1 | 8257.3 | 8050.1 | 7793.5 | 7478.6 | 7077.8 | 7000.3 | 7405.9 | 8598.7 | 6733.9 | 4978.1 |
| 35° | 9342.3 | 9272.0 | 8977.8 | 8627.8 | 8293.6 | 7887.9 | 7644.6 | 7855.2 | 8968.0 | 6987.0 | 5003.5 |
| 37.5° | 10526.5 | 10432.0 | 10114.8 | 9631.6 | 9195.7 | 8741.6 | 8429.2 | 8472.8 | 9509.3 | 7326.1 | 5082.3 |
| 40° | 11643.0 | 11557.0 | 11263.9 | 10808.6 | 10261.3 | 9710.3 | 9377.3 | 9280.5 | 10256.5 | 7739.0 | 5220.2 |
| 42.5° | 12312.6 | 12235.1 | 12111.6 | 11919.1 | 11457.8 | 10895.9 | 10475.6 | 10266.2 | 11140.4 | 8233.0 | 5388.6 |
| 45° | 12350.1 | 12282.4 | 12448.2 | 12672.3 | 12581.5 | 12207.2 | 11695.0 | 11311.2 | 12028.1 | 8696.8 | 5563.0 |
| 47.5° | 11749.6 | 11703.6 | 12207.2 | 12989.5 | 13379.4 | 13536.9 | 13064.5 | 12269.0 | 12760.6 | 9029.8 | 5634.4 |
| 50° | 10112.3 | 10095.4 | 11132.0 | 12568.1 | 13683.3 | 14701.8 | 14509.2 | 13160.3 | 13328.6 | 9201.7 | 5566.6 |
| 52.5° | 8768.3 | 8706.5 | 9310.8 | 11219.1 | 13241.4 | 15314.5 | 15921.1 | 14034.5 | 13725.8 | 9234.4 | 5408.0 |
| 55° | 6650.4 | 6595.9 | 7353.9 | 8962.0 | 11816.1 | 15096.5 | 16954.1 | 14936.7 | 14010.3 | 9150.9 | 5123.4 |
| 57.5° | 3567.4 | 3533.5 | 4491.3 | 5965.0 | 9236.9 | 13788.7 | 17140.6 | 15890.9 | 14250.1 | 8929.3 | 4725.0 |
| 60° | 1388.9 | 1382.8 | 1741.3 | 2894.1 | 5613.8 | 11217.9 | 16199.6 | 16463.7 | 14400.2 | 8656.8 | 4392.0 |
| 62.5° | 840.4 | 858.5 | 916.7 | 1299.3 | 2480.0 | 6968.9 | 14030.9 | 15812.2 | 14500.8 | 8407.4 | 4117.1 |
| 65° | 695.1 | 696.3 | 703.6 | 892.5 | 1187.9 | 2915.9 | 10562.8 | 13668.9 | 14252.5 | 7963.0 | 3727.2 |
| 67.5° | 595.7 | 606.7 | 634.5 | 708.4 | 837.9 | 1278.7 | 6081.2 | 10588.2 | 12742.5 | 6928.9 | 3119.3 |
| 70° | 469.9 | 484.4 | 519.5 | 582.4 | 646.7 | 800.4 | 2247.4 | 7045.1 | 9734.5 | 5222.7 | 2358.8 |
| 72.5° | 396.0 | 394.7 | 413.0 | 473.4 | 513.4 | 563.0 | 864.6 | 3947.6 | 5657.4 | 2493.3 | 1167.4 |
| 75° | 306.4 | 318.5 | 341.5 | 396.0 | 420.1 | 408.1 | 468.6 | 1442.2 | 2027.0 | 755.6 | 397.2 |
| 77.5° | 239.7 | 249.5 | 270.0 | 323.3 | 347.6 | 289.5 | 270.0 | 515.9 | 651.5 | 271.2 | 179.2 |
| 80° | 107.7 | 116.2 | 184.1 | 238.5 | 283.3 | 199.8 | 146.5 | 263.9 | 289.5 | 123.5 | 90.8 |
| 82.5° | 19.4 | 32.7 | 107.7 | 126.0 | 145.3 | 129.6 | 76.3 | 136.8 | 141.7 | 49.6 | 31.5 |
| 85° | 1.2 | 2.5 | 37.5 | 46.0 | 58.1 | 42.3 | 23.0 | 54.5 | 47.3 | 16.9 | 12.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 6.0 | 7.3 | 9.7 | 7.3 | 6.0 | 4.8 |
| 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: P969730
 CATALOG NUMBER: NVN-SB6A-722-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 | 4732.2 |
| 2.5° | 4656.0 | 4484.1 | 4316.9 | 4180.1 | 4100.2 | 3964.5 | 3874.9 | 3860.5 | 3822.8 | 3855.5 |
| 5° | 4566.4 | 4258.8 | 3947.6 | 3669.1 | 3440.2 | 3144.8 | 2924.3 | 2831.2 | 2750.0 | 2777.9 |
| 7.5° | 4523.9 | 4038.4 | 3554.1 | 3078.2 | 2588.9 | 2116.7 | 1765.6 | 1619.0 | 1507.6 | 1523.4 |
| 10° | 4467.1 | 3809.5 | 3050.3 | 2323.8 | 1668.6 | 1202.4 | 960.2 | 870.6 | 821.0 | 822.3 |
| 12.5° | 4423.5 | 3535.8 | 2465.4 | 1575.4 | 1016.0 | 767.7 | 692.7 | 670.9 | 656.3 | 657.5 |
| 15° | 4401.7 | 3213.8 | 1887.8 | 1049.9 | 726.5 | 650.3 | 632.1 | 622.4 | 612.7 | 611.5 |
| 17.5° | 4365.4 | 2855.3 | 1381.7 | 766.5 | 635.7 | 609.1 | 593.4 | 582.4 | 570.3 | 568.0 |
| 20° | 4310.8 | 2448.5 | 1009.9 | 647.8 | 595.7 | 575.2 | 553.4 | 538.8 | 524.3 | 521.9 |
| 22.5° | 4210.4 | 2018.6 | 776.2 | 599.4 | 566.7 | 543.7 | 517.1 | 500.1 | 485.5 | 483.2 |
| 25° | 4023.8 | 1615.4 | 653.8 | 569.2 | 541.3 | 513.4 | 484.4 | 461.4 | 448.0 | 445.6 |
| 27.5° | 3787.8 | 1269.1 | 593.4 | 541.3 | 508.6 | 483.2 | 450.5 | 428.7 | 416.6 | 414.1 |
| 30° | 3509.2 | 977.2 | 558.2 | 509.8 | 469.9 | 448.0 | 419.0 | 400.8 | 393.5 | 393.5 |
| 32.5° | 3209.0 | 781.0 | 543.7 | 478.3 | 435.9 | 411.7 | 388.7 | 381.4 | 379.0 | 377.8 |
| 35° | 2926.8 | 678.1 | 536.5 | 452.8 | 405.7 | 382.6 | 373.0 | 374.1 | 379.0 | 379.0 |
| 37.5° | 2676.2 | 645.4 | 532.8 | 434.7 | 379.0 | 358.4 | 364.5 | 375.4 | 370.5 | 370.5 |
| 40° | 2449.6 | 649.0 | 530.3 | 421.4 | 357.2 | 345.1 | 357.2 | 348.7 | 336.6 | 335.4 |
| 42.5° | 2276.5 | 679.4 | 525.5 | 410.5 | 343.9 | 335.4 | 330.6 | 317.2 | 316.0 | 318.5 |
| 45° | 2150.6 | 705.9 | 524.3 | 405.7 | 329.3 | 313.6 | 307.6 | 294.3 | 318.5 | 324.5 |
| 47.5° | 2001.6 | 705.9 | 524.3 | 388.7 | 305.1 | 299.1 | 289.5 | 274.9 | 299.1 | 305.1 |
| 50° | 1809.1 | 661.1 | 503.8 | 369.3 | 285.8 | 282.2 | 265.2 | 247.0 | 242.2 | 245.8 |
| 52.5° | 1565.7 | 580.0 | 451.7 | 342.7 | 266.4 | 259.1 | 238.5 | 225.2 | 221.6 | 221.6 |
| 55° | 1288.4 | 485.5 | 381.4 | 303.9 | 245.8 | 232.5 | 217.9 | 211.9 | 208.3 | 205.8 |
| 57.5° | 1047.4 | 398.4 | 306.4 | 270.0 | 226.4 | 209.5 | 204.7 | 197.4 | 191.4 | 187.7 |
| 60° | 859.8 | 313.6 | 253.1 | 239.7 | 207.0 | 191.4 | 190.1 | 180.4 | 164.7 | 162.3 |
| 62.5° | 663.6 | 230.1 | 213.1 | 208.3 | 187.7 | 174.4 | 172.0 | 152.6 | 128.3 | 123.5 |
| 65° | 468.6 | 179.2 | 172.0 | 182.9 | 167.1 | 155.0 | 148.9 | 119.9 | 94.4 | 90.8 |
| 67.5° | 329.3 | 150.2 | 135.6 | 159.8 | 145.3 | 129.6 | 126.0 | 101.7 | 78.7 | 76.3 |
| 70° | 234.9 | 122.3 | 111.4 | 136.8 | 116.2 | 113.9 | 106.6 | 84.8 | 64.2 | 61.8 |
| 72.5° | 165.8 | 93.3 | 86.0 | 118.7 | 79.9 | 98.1 | 87.2 | 65.4 | 48.5 | 46.0 |
| 75° | 122.3 | 66.6 | 60.6 | 69.0 | 58.1 | 73.9 | 61.8 | 43.6 | 30.2 | 29.1 |
| 77.5° | 89.6 | 42.3 | 36.3 | 33.9 | 33.9 | 46.0 | 33.9 | 18.1 | 13.3 | 12.1 |
| 80° | 62.9 | 19.4 | 16.9 | 14.6 | 13.3 | 10.9 | 4.8 | 2.5 | 1.2 | 1.2 |
| 82.5° | 37.5 | 8.5 | 8.5 | 6.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 8.5 | 3.6 | 3.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.2 | 1.2 | 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 |

(END OF REPORT)