

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: P962476

Luminaire Tested: **NVN-SB2C-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962476
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-SB2C-740-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA 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: 13847.7 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

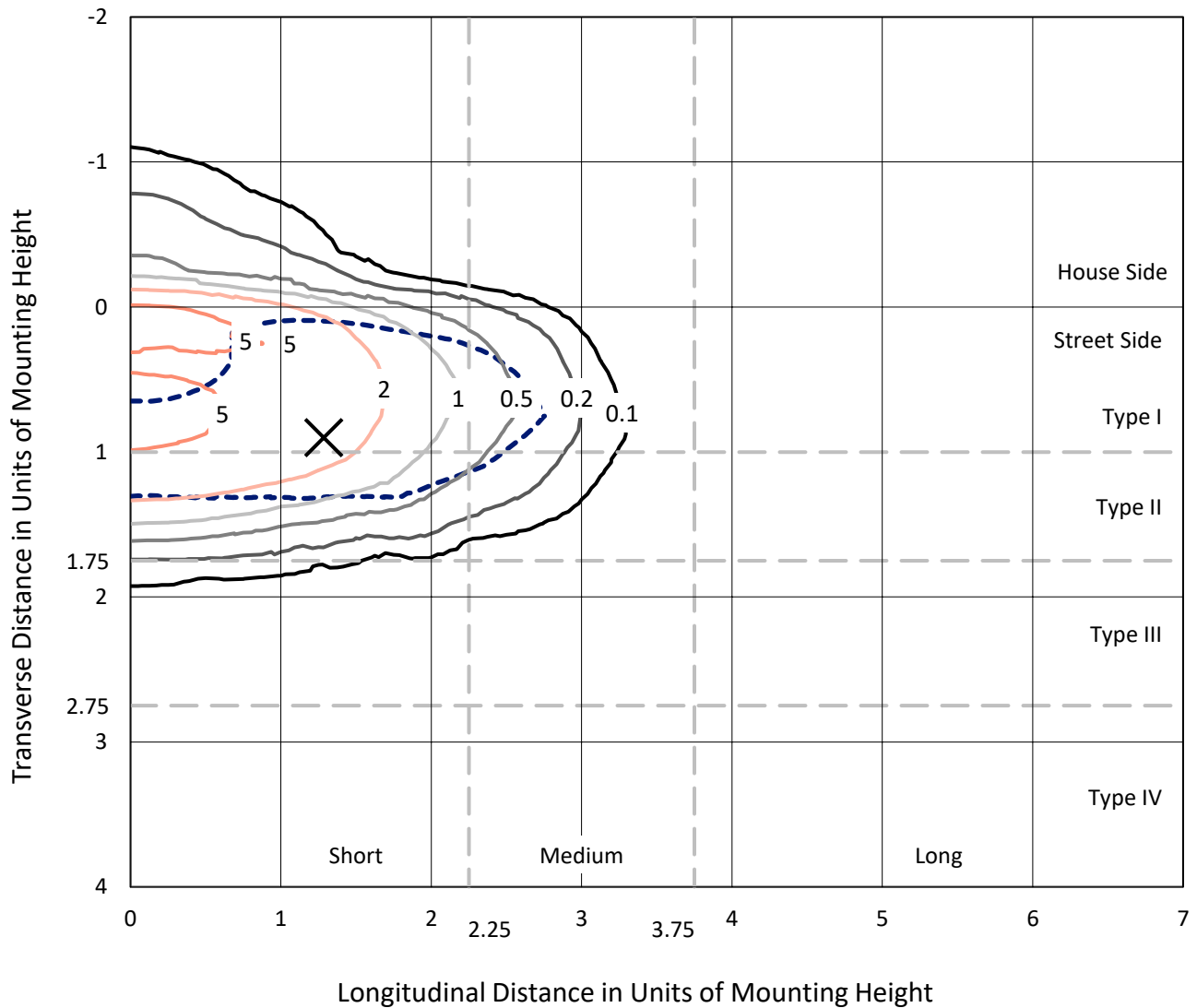
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P962476
 CATALOG NUMBER: NVN-SB2C-740-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

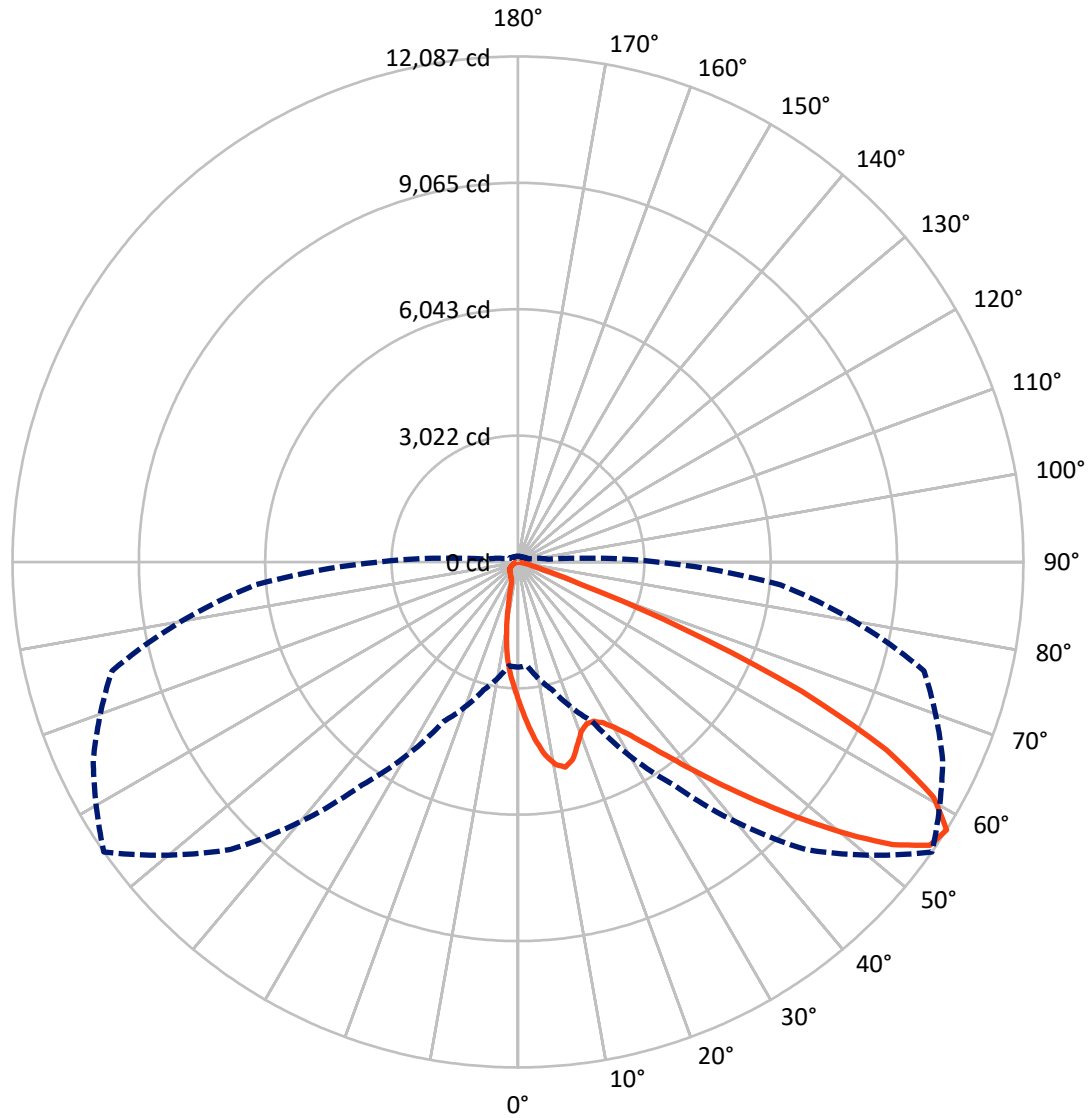
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

REPORT NUMBER: P962476
CATALOG NUMBER: NVN-SB2C-740-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P962476
 CATALOG NUMBER: NVN-SB2C-740-U-AFL-HSS

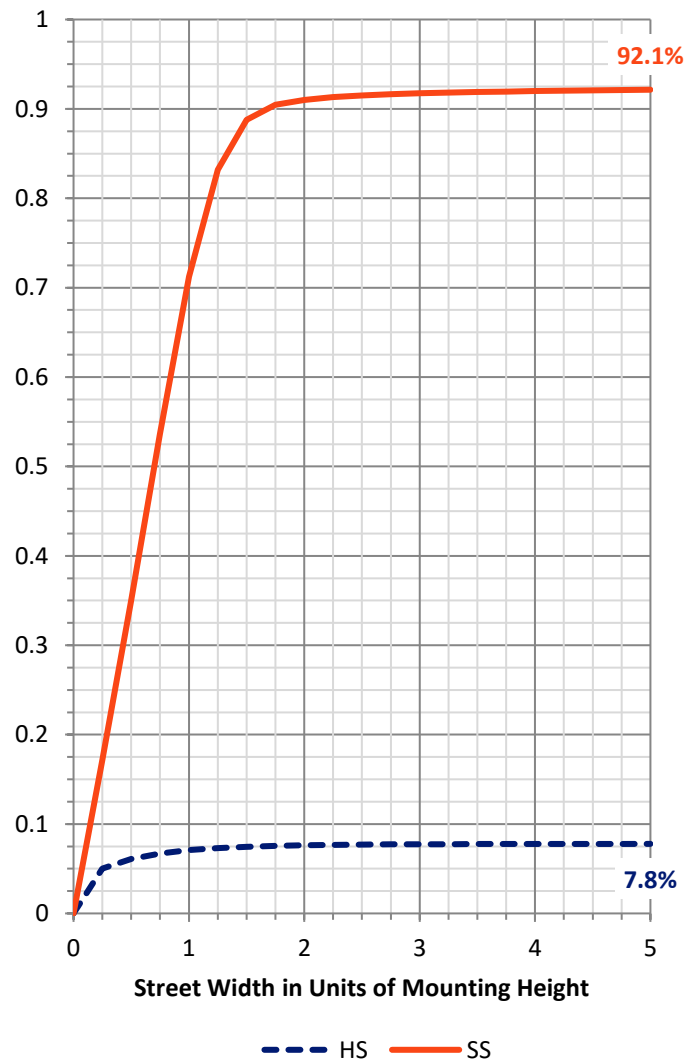
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1081.4 | 0.0 | 1081.4 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 12766.3 | 0.0 | 12766.3 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 13847.7 | 0.0 | 13847.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 310.5 | 2.2 |
| 10°-20° | 750.0 | 5.4 |
| 20°-30° | 1200.0 | 8.7 |
| 30°-40° | 2031.0 | 14.7 |
| 40°-50° | 3334.5 | 24.1 |
| 50°-60° | 3664.8 | 26.5 |
| 60°-70° | 2102.1 | 15.2 |
| 70°-80° | 429.5 | 3.1 |
| 80°-90° | 25.3 | 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° | 13847.7 | 100.0 |
| 0°-180° | 13847.7 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P962476

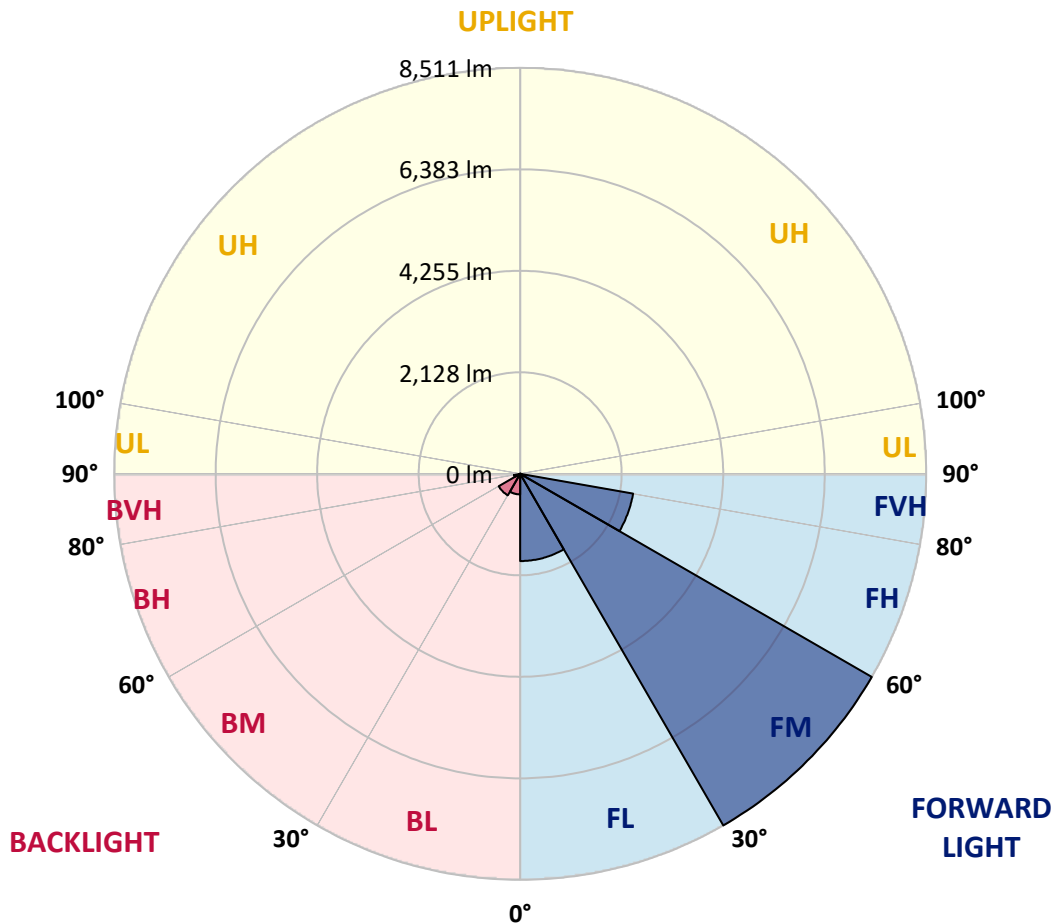
CATALOG NUMBER: NVN-SB2C-740-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1828.7 | 13.2 | | | |
| FM (30°-60°) | 8510.9 | 61.5 | | | |
| FH (60°-80°) | 2403.1 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 23.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 431.7 | 3.1 | B1/500 | | |
| BM (30°-60°) | 519.4 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 128.6 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short



REPORT NUMBER: P962476

CATALOG NUMBER: NVN-SB2C-740-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| 0° | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 |
| 2.5° | 4140.5 | 4088.4 | 4080.7 | 4070.5 | 3971.4 | 3897.2 | 3789.5 | 3671.7 | 3539.3 | 3404.4 | 3344.7 |
| 5° | 4783.5 | 4742.5 | 4734.8 | 4686.9 | 4574.3 | 4447.9 | 4256.6 | 4014.9 | 3768.2 | 3477.8 | 3353.2 |
| 7.5° | 4908.1 | 4900.4 | 4935.5 | 4933.7 | 4918.4 | 4818.4 | 4657.1 | 4369.3 | 3998.7 | 3568.3 | 3375.4 |
| 10° | 4352.3 | 4371.8 | 4476.1 | 4567.4 | 4814.2 | 4957.6 | 4922.7 | 4685.3 | 4236.1 | 3671.7 | 3400.1 |
| 12.5° | 3845.9 | 3822.8 | 3897.2 | 4000.5 | 4287.4 | 4714.3 | 5032.8 | 4949.1 | 4507.6 | 3788.7 | 3436.8 |
| 15° | 3528.3 | 3518.8 | 3560.6 | 3608.5 | 3827.1 | 4257.4 | 4904.7 | 5163.4 | 4768.9 | 3927.0 | 3492.4 |
| 17.5° | 3426.6 | 3419.0 | 3431.7 | 3443.7 | 3585.4 | 3918.5 | 4599.9 | 5294.9 | 5019.1 | 4084.9 | 3553.9 |
| 20° | 3509.5 | 3499.2 | 3497.5 | 3488.1 | 3547.0 | 3774.2 | 4324.1 | 5304.3 | 5243.7 | 4228.4 | 3606.8 |
| 22.5° | 3751.1 | 3739.1 | 3697.3 | 3659.8 | 3664.9 | 3793.8 | 4201.1 | 5210.4 | 5412.7 | 4362.5 | 3640.1 |
| 25° | 4189.2 | 4169.5 | 4082.4 | 3956.0 | 3875.7 | 3930.4 | 4219.9 | 5086.6 | 5574.2 | 4467.5 | 3623.9 |
| 27.5° | 4737.3 | 4711.7 | 4599.9 | 4412.0 | 4228.4 | 4161.8 | 4355.6 | 5001.2 | 5708.2 | 4547.7 | 3588.8 |
| 30° | 5274.4 | 5241.1 | 5130.9 | 4985.0 | 4716.8 | 4506.8 | 4600.7 | 5038.8 | 5867.9 | 4631.5 | 3542.7 |
| 32.5° | 5854.2 | 5822.6 | 5676.6 | 5495.5 | 5273.5 | 4990.9 | 4936.3 | 5222.4 | 6063.4 | 4748.4 | 3510.3 |
| 35° | 6587.7 | 6538.2 | 6330.7 | 6083.9 | 5848.2 | 5562.2 | 5390.6 | 5539.1 | 6323.8 | 4926.9 | 3528.3 |
| 37.5° | 7422.7 | 7356.2 | 7132.5 | 6791.8 | 6484.4 | 6164.1 | 5943.9 | 5974.6 | 6705.6 | 5166.0 | 3583.7 |
| 40° | 8210.0 | 8149.5 | 7942.8 | 7621.7 | 7235.8 | 6847.3 | 6612.5 | 6544.1 | 7232.4 | 5457.2 | 3681.1 |
| 42.5° | 8682.3 | 8627.6 | 8540.5 | 8404.8 | 8079.5 | 7683.2 | 7387.0 | 7239.2 | 7855.7 | 5805.5 | 3799.8 |
| 45° | 8708.7 | 8660.9 | 8777.9 | 8935.8 | 8871.8 | 8607.9 | 8246.7 | 7976.1 | 8481.6 | 6132.6 | 3922.8 |
| 47.5° | 8285.2 | 8252.8 | 8607.9 | 9159.6 | 9434.5 | 9545.5 | 9212.5 | 8651.5 | 8998.2 | 6367.4 | 3973.1 |
| 50° | 7130.7 | 7118.8 | 7849.8 | 8862.5 | 9648.8 | 10367.0 | 10231.2 | 9279.9 | 9398.6 | 6488.7 | 3925.3 |
| 52.5° | 6182.9 | 6139.4 | 6565.5 | 7911.3 | 9337.2 | 10799.0 | 11226.8 | 9896.5 | 9678.8 | 6511.7 | 3813.4 |
| 55° | 4689.5 | 4651.0 | 5185.6 | 6319.5 | 8332.1 | 10645.3 | 11955.2 | 10532.6 | 9879.4 | 6452.8 | 3612.8 |
| 57.5° | 2515.6 | 2491.7 | 3167.0 | 4206.2 | 6513.4 | 9723.2 | 12086.7 | 11205.5 | 10048.5 | 6296.5 | 3331.9 |
| 60° | 979.4 | 975.1 | 1227.8 | 2040.8 | 3958.6 | 7910.3 | 11423.2 | 11609.4 | 10154.4 | 6104.4 | 3097.0 |
| 62.5° | 592.6 | 605.4 | 646.4 | 916.2 | 1748.8 | 4914.1 | 9893.9 | 11149.9 | 10225.2 | 5928.5 | 2903.2 |
| 65° | 490.2 | 491.0 | 496.1 | 629.3 | 837.6 | 2056.1 | 7448.4 | 9638.6 | 10050.2 | 5615.2 | 2628.2 |
| 67.5° | 420.1 | 427.8 | 447.4 | 499.5 | 590.9 | 901.7 | 4288.2 | 7466.3 | 8985.4 | 4885.9 | 2199.5 |
| 70° | 331.3 | 341.5 | 366.3 | 410.7 | 456.0 | 564.4 | 1584.8 | 4967.9 | 6864.3 | 3682.8 | 1663.4 |
| 72.5° | 279.2 | 278.4 | 291.2 | 333.8 | 362.0 | 397.1 | 609.7 | 2783.7 | 3989.3 | 1758.2 | 823.2 |
| 75° | 216.1 | 224.6 | 240.8 | 279.2 | 296.3 | 287.7 | 330.5 | 1017.0 | 1429.4 | 532.8 | 280.0 |
| 77.5° | 169.0 | 175.9 | 190.4 | 228.0 | 245.1 | 204.1 | 190.4 | 363.8 | 459.4 | 191.3 | 126.4 |
| 80° | 76.0 | 82.0 | 129.8 | 168.2 | 199.8 | 140.9 | 103.3 | 186.1 | 204.1 | 87.1 | 64.1 |
| 82.5° | 13.6 | 23.1 | 76.0 | 88.8 | 102.5 | 91.3 | 53.8 | 96.5 | 99.9 | 35.1 | 22.2 |
| 85° | 0.8 | 1.7 | 26.4 | 32.5 | 41.0 | 29.9 | 16.2 | 38.4 | 33.3 | 12.0 | 8.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 4.3 | 5.1 | 6.9 | 5.1 | 4.3 | 3.4 |
| 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: P962476
 CATALOG NUMBER: NVN-SB2C-740-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 | 3337.0 |
| 2.5° | 3283.2 | 3161.9 | 3044.0 | 2947.6 | 2891.2 | 2795.6 | 2732.4 | 2722.2 | 2695.7 | 2718.7 |
| 5° | 3219.9 | 3003.1 | 2783.7 | 2587.3 | 2425.9 | 2217.5 | 2062.1 | 1996.4 | 1939.2 | 1958.8 |
| 7.5° | 3190.1 | 2847.7 | 2506.1 | 2170.5 | 1825.6 | 1492.6 | 1245.0 | 1141.6 | 1063.1 | 1074.2 |
| 10° | 3149.9 | 2686.3 | 2151.0 | 1638.6 | 1176.6 | 847.9 | 677.1 | 614.0 | 578.9 | 579.7 |
| 12.5° | 3119.2 | 2493.3 | 1738.5 | 1110.9 | 716.4 | 541.4 | 488.4 | 473.0 | 462.8 | 463.6 |
| 15° | 3103.9 | 2266.2 | 1331.2 | 740.4 | 512.3 | 458.6 | 445.8 | 438.9 | 432.0 | 431.2 |
| 17.5° | 3078.3 | 2013.4 | 974.3 | 540.5 | 448.3 | 429.5 | 418.4 | 410.7 | 402.2 | 400.5 |
| 20° | 3039.8 | 1726.5 | 712.2 | 456.8 | 420.1 | 405.6 | 390.2 | 380.0 | 369.7 | 368.0 |
| 22.5° | 2968.9 | 1423.4 | 547.3 | 422.7 | 399.6 | 383.3 | 364.6 | 352.7 | 342.5 | 340.7 |
| 25° | 2837.4 | 1139.1 | 461.0 | 401.3 | 381.7 | 362.0 | 341.5 | 325.3 | 315.9 | 314.3 |
| 27.5° | 2670.9 | 894.8 | 418.4 | 381.7 | 358.6 | 340.7 | 317.6 | 302.3 | 293.8 | 292.0 |
| 30° | 2474.6 | 689.1 | 393.6 | 359.5 | 331.3 | 315.9 | 295.4 | 282.6 | 277.5 | 277.5 |
| 32.5° | 2262.8 | 550.7 | 383.3 | 337.3 | 307.4 | 290.3 | 274.1 | 269.0 | 267.2 | 266.4 |
| 35° | 2063.8 | 478.2 | 378.2 | 319.4 | 286.1 | 269.8 | 263.0 | 263.8 | 267.2 | 267.2 |
| 37.5° | 1887.1 | 455.1 | 375.7 | 306.6 | 267.2 | 252.8 | 257.0 | 264.7 | 261.3 | 261.3 |
| 40° | 1727.4 | 457.7 | 374.0 | 297.1 | 251.9 | 243.3 | 251.9 | 245.9 | 237.4 | 236.6 |
| 42.5° | 1605.3 | 479.0 | 370.5 | 289.5 | 242.5 | 236.6 | 233.1 | 223.8 | 222.8 | 224.6 |
| 45° | 1516.5 | 497.8 | 369.7 | 286.1 | 232.3 | 221.2 | 216.9 | 207.5 | 224.6 | 228.9 |
| 47.5° | 1411.4 | 497.8 | 369.7 | 274.1 | 215.1 | 210.9 | 204.1 | 193.8 | 210.9 | 215.1 |
| 50° | 1275.7 | 466.2 | 355.3 | 260.5 | 201.5 | 199.0 | 187.0 | 174.1 | 170.8 | 173.3 |
| 52.5° | 1104.0 | 409.0 | 318.5 | 241.7 | 187.9 | 182.8 | 168.2 | 158.8 | 156.2 | 156.2 |
| 55° | 908.6 | 342.5 | 269.0 | 214.3 | 173.3 | 163.9 | 153.6 | 149.4 | 146.9 | 145.1 |
| 57.5° | 738.6 | 281.0 | 216.1 | 190.4 | 159.7 | 147.7 | 144.3 | 139.2 | 134.9 | 132.3 |
| 60° | 606.3 | 221.2 | 178.5 | 169.0 | 146.1 | 134.9 | 134.1 | 127.2 | 116.1 | 114.4 |
| 62.5° | 467.9 | 162.3 | 150.3 | 146.9 | 132.3 | 123.0 | 121.3 | 107.6 | 90.5 | 87.1 |
| 65° | 330.5 | 126.4 | 121.3 | 128.9 | 117.9 | 109.3 | 105.1 | 84.6 | 66.6 | 64.1 |
| 67.5° | 232.3 | 105.9 | 95.6 | 112.7 | 102.5 | 91.3 | 88.8 | 71.8 | 55.5 | 53.8 |
| 70° | 165.6 | 86.2 | 78.5 | 96.5 | 82.0 | 80.3 | 75.1 | 59.8 | 45.3 | 43.6 |
| 72.5° | 117.0 | 65.7 | 60.6 | 83.6 | 56.4 | 69.2 | 61.5 | 46.1 | 34.1 | 32.5 |
| 75° | 86.2 | 46.9 | 42.7 | 48.7 | 41.0 | 52.1 | 43.6 | 30.7 | 21.3 | 20.5 |
| 77.5° | 63.1 | 29.9 | 25.6 | 23.9 | 23.9 | 32.5 | 23.9 | 12.8 | 9.4 | 8.5 |
| 80° | 44.4 | 13.6 | 12.0 | 10.2 | 9.4 | 7.7 | 3.4 | 1.7 | 0.8 | 0.8 |
| 82.5° | 26.4 | 5.9 | 5.9 | 4.3 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.9 | 2.6 | 2.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.8 | 0.8 | 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)