

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: P963996

Luminaire Tested: **NVN-SB3B-730-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-730-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17612.6 lumens
Efficiency: N/A
Efficacy: 161.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

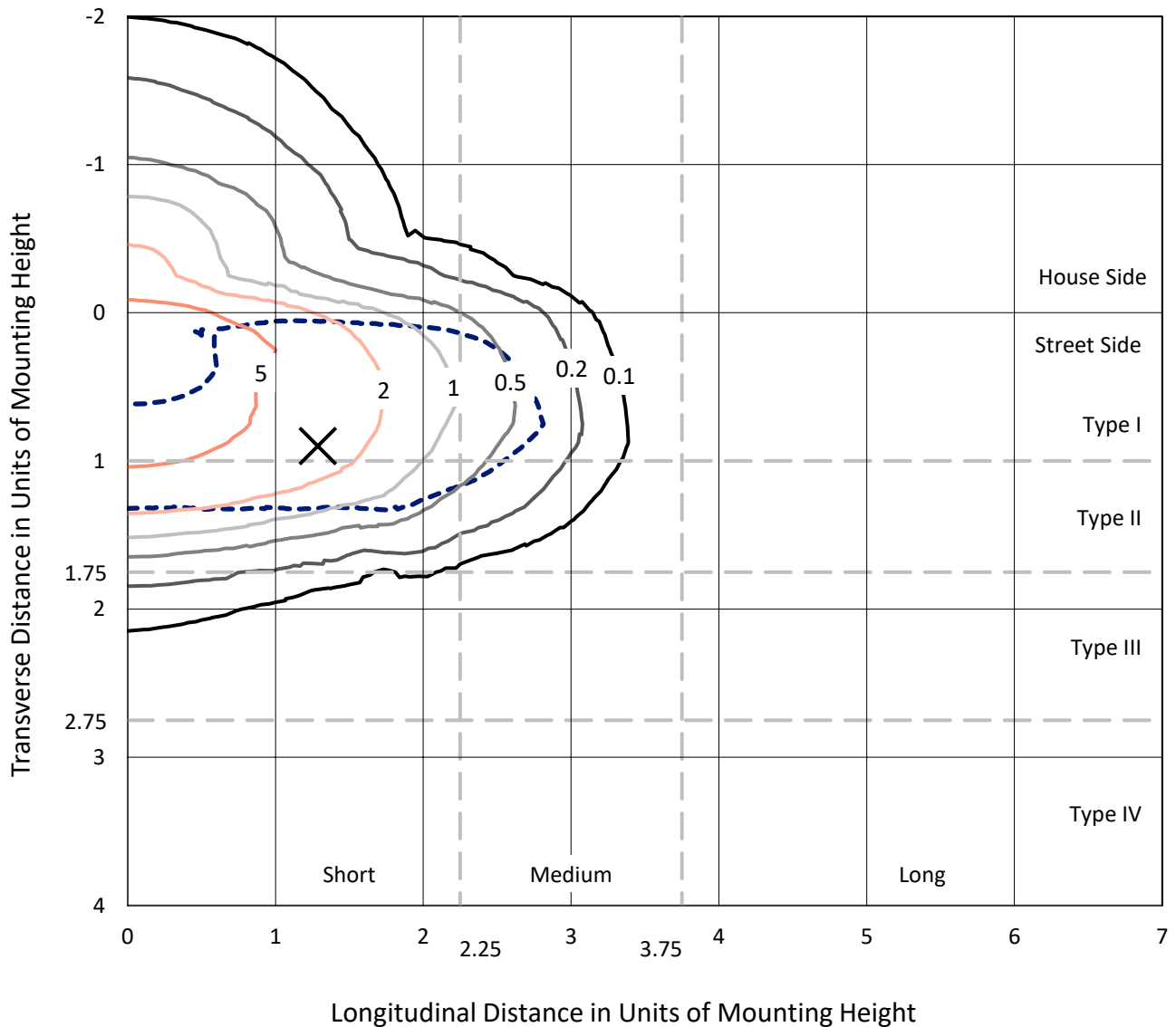
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P963996
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Iso-Footcandle Lines of Horizontal Illumination

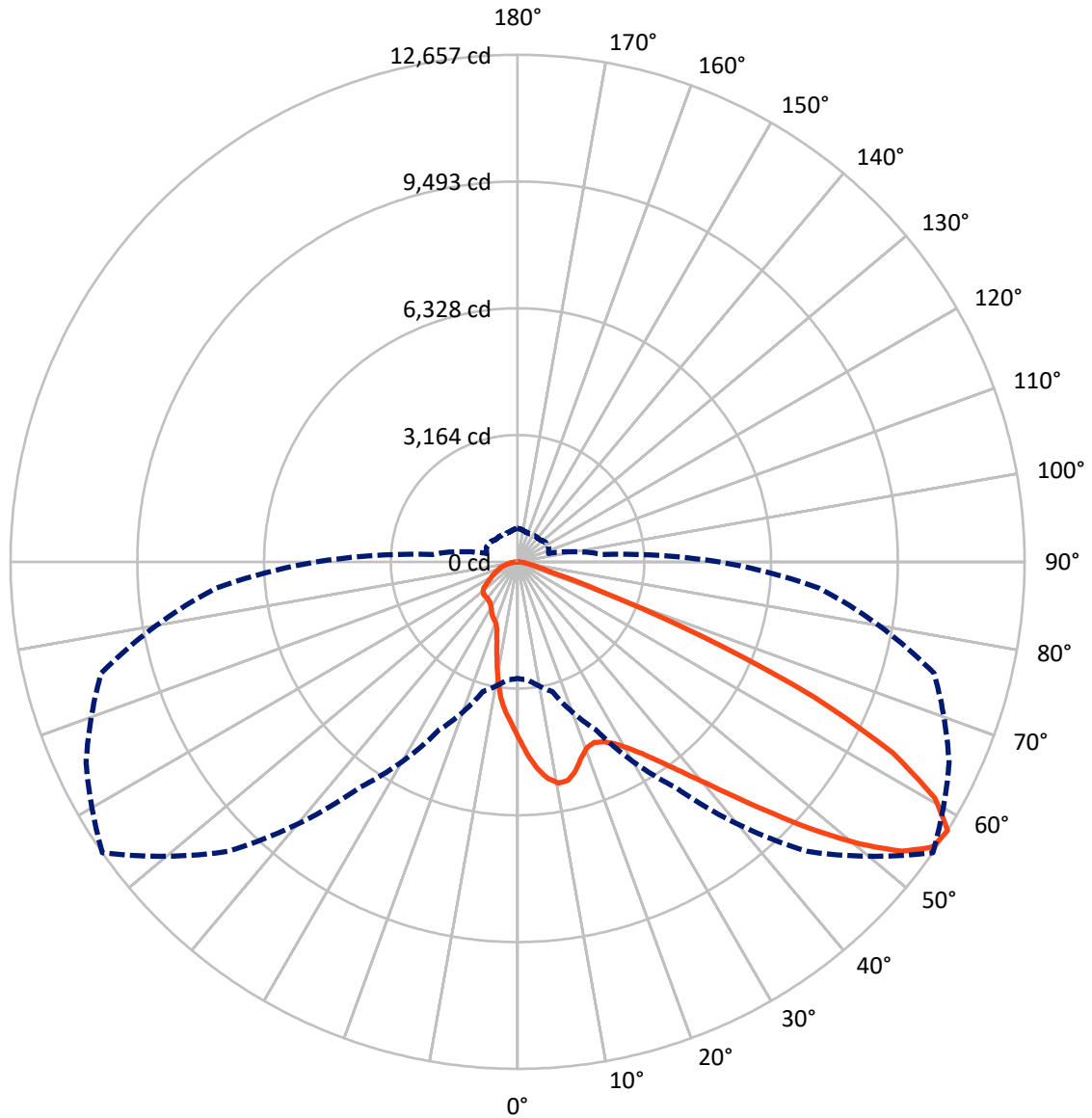
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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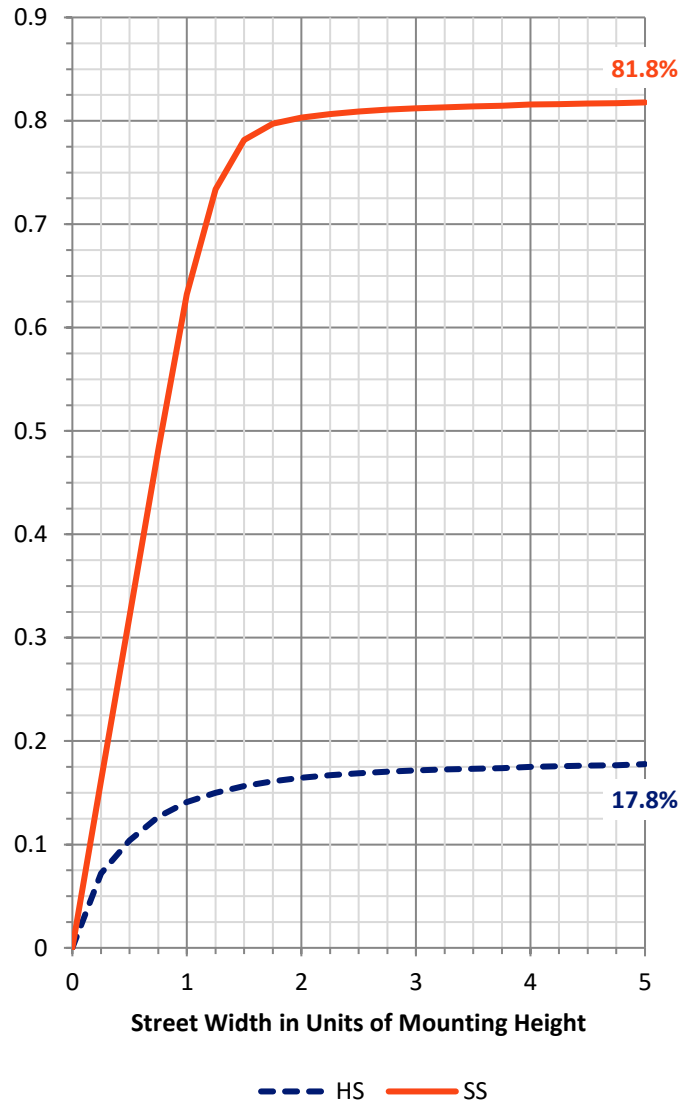
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3186.9 | 0.0 | 3186.9 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 14425.7 | 0.0 | 14425.7 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 17612.6 | 0.0 | 17612.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 409.5 | 2.3 |
| 10°-20° | 1033.6 | 5.9 |
| 20°-30° | 1649.4 | 9.4 |
| 30°-40° | 2611.4 | 14.8 |
| 40°-50° | 3997.0 | 22.7 |
| 50°-60° | 4281.1 | 24.3 |
| 60°-70° | 2693.3 | 15.3 |
| 70°-80° | 796.5 | 4.5 |
| 80°-90° | 140.8 | 0.8 |
| 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° | 17612.6 | 100.0 |
| 0°-180° | 17612.6 | 100.0 |

Coefficient of Utilization



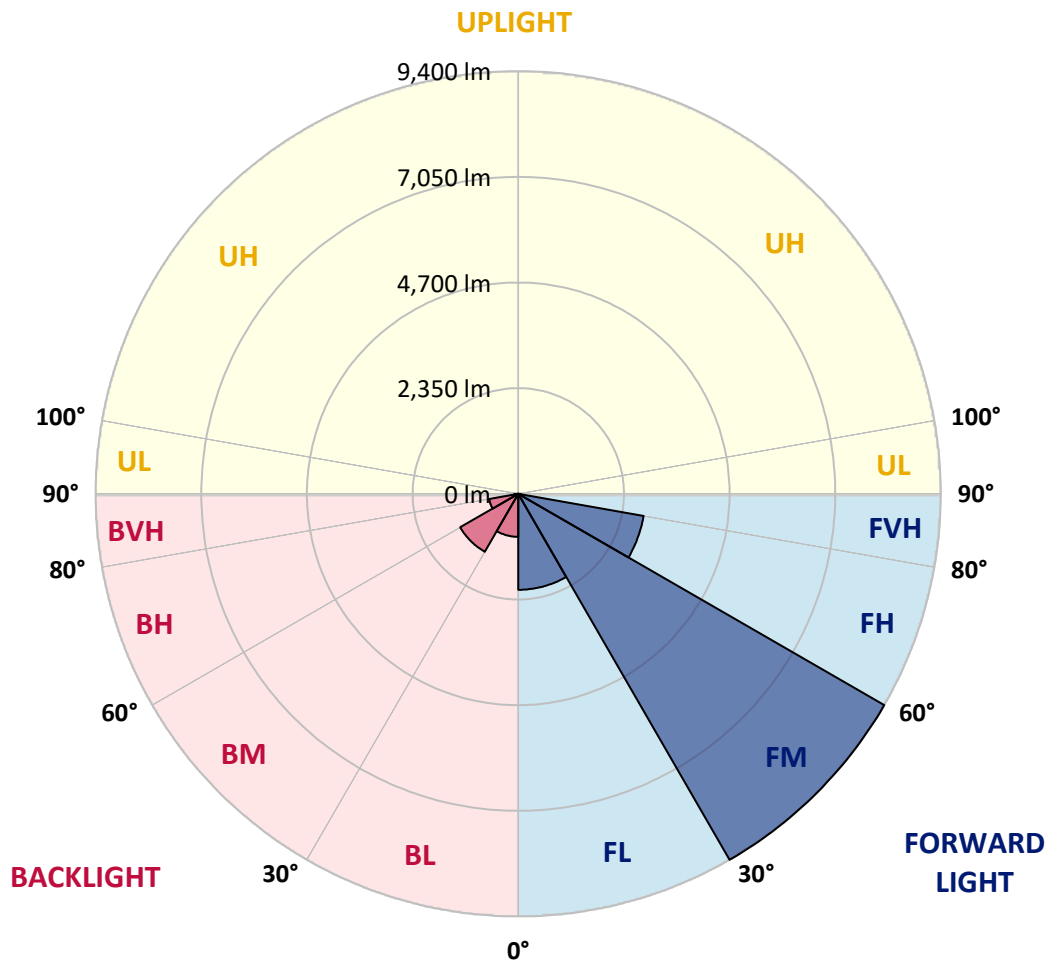
REPORT NUMBER: P963996
 CATALOG NUMBER: NVN-SB3B-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2134.6 | 12.1 | | | |
| FM (30°-60°) | 9400.0 | 53.4 | | | |
| FH (60°-80°) | 2831.6 | 16.1 | | | G2/5000 |
| FVH (80°-90°) | 59.5 | 0.3 | | | G1/100 |
| BL (0°-30°) | 957.9 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1489.5 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 658.2 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 81.3 | 0.5 | | | G1/100 |
| 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: P963996

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 |
| 2.5° | 5063.2 | 5059.6 | 5079.6 | 5011.3 | 4964.9 | 4902.1 | 4819.2 | 4713.6 | 4599.8 | 4479.6 | 4427.7 |
| 5° | 5519.4 | 5487.5 | 5508.5 | 5457.5 | 5406.5 | 5311.8 | 5188.9 | 5016.8 | 4806.4 | 4567.0 | 4439.6 |
| 7.5° | 5447.5 | 5425.6 | 5479.3 | 5524.9 | 5563.1 | 5551.3 | 5461.1 | 5280.8 | 5009.5 | 4661.7 | 4476.9 |
| 10° | 4867.5 | 4842.9 | 4918.5 | 5076.0 | 5307.2 | 5508.5 | 5617.7 | 5505.7 | 5217.1 | 4765.5 | 4513.3 |
| 12.5° | 4355.7 | 4344.0 | 4394.0 | 4521.5 | 4778.2 | 5164.3 | 5597.7 | 5702.4 | 5432.9 | 4888.4 | 4562.5 |
| 15° | 4137.3 | 4122.7 | 4154.5 | 4219.2 | 4383.1 | 4742.8 | 5415.6 | 5837.2 | 5645.0 | 5030.5 | 4640.8 |
| 17.5° | 4089.0 | 4072.6 | 4086.3 | 4120.0 | 4225.6 | 4499.6 | 5140.6 | 5903.6 | 5866.3 | 5188.9 | 4706.3 |
| 20° | 4178.2 | 4164.6 | 4166.4 | 4164.6 | 4238.4 | 4456.0 | 4949.4 | 5878.1 | 6059.3 | 5334.5 | 4770.0 |
| 22.5° | 4394.0 | 4371.2 | 4372.1 | 4324.0 | 4363.9 | 4532.4 | 4899.3 | 5809.8 | 6231.4 | 5462.0 | 4818.3 |
| 25° | 4745.4 | 4704.5 | 4712.6 | 4589.7 | 4578.9 | 4703.6 | 4977.6 | 5757.0 | 6402.6 | 5564.0 | 4827.4 |
| 27.5° | 5226.2 | 5179.7 | 5155.2 | 4972.2 | 4884.7 | 4946.6 | 5137.0 | 5775.3 | 6564.6 | 5652.4 | 4804.7 |
| 30° | 5827.1 | 5770.6 | 5720.6 | 5461.1 | 5302.7 | 5279.9 | 5384.6 | 5895.4 | 6755.9 | 5745.2 | 4765.5 |
| 32.5° | 6563.7 | 6498.2 | 6407.1 | 6063.0 | 5839.8 | 5720.6 | 5705.2 | 6109.4 | 6979.8 | 5863.5 | 4745.4 |
| 35° | 7440.5 | 7354.9 | 7225.6 | 6780.4 | 6498.2 | 6254.1 | 6127.6 | 6418.0 | 7286.6 | 6042.0 | 4768.2 |
| 37.5° | 8343.7 | 8247.3 | 8128.9 | 7598.9 | 7252.1 | 6892.4 | 6642.9 | 6836.9 | 7695.5 | 6284.2 | 4828.4 |
| 40° | 9176.8 | 9068.5 | 8958.3 | 8486.7 | 8114.3 | 7680.8 | 7273.9 | 7366.8 | 8195.3 | 6573.7 | 4930.2 |
| 42.5° | 9668.5 | 9588.4 | 9546.4 | 9291.5 | 9003.8 | 8564.1 | 8058.8 | 7995.0 | 8757.1 | 6907.0 | 5046.8 |
| 45° | 9646.6 | 9613.9 | 9743.1 | 9848.7 | 9780.4 | 9536.5 | 8978.3 | 8689.7 | 9320.6 | 7195.6 | 5154.3 |
| 47.5° | 9131.3 | 9153.1 | 9441.8 | 10035.4 | 10296.7 | 10424.1 | 10025.4 | 9371.7 | 9810.5 | 7411.4 | 5202.5 |
| 50° | 7729.1 | 7747.4 | 8415.7 | 9695.8 | 10429.7 | 11148.0 | 11064.3 | 10037.2 | 10190.2 | 7543.4 | 5191.6 |
| 52.5° | 6619.2 | 6631.1 | 6917.9 | 8688.8 | 9990.8 | 11512.2 | 12000.3 | 10664.5 | 10467.9 | 7579.8 | 5130.6 |
| 55° | 4985.8 | 5026.8 | 5348.2 | 6816.9 | 8849.0 | 11223.6 | 12570.2 | 11311.0 | 10643.6 | 7583.5 | 5066.9 |
| 57.5° | 2912.6 | 2957.2 | 3354.2 | 4627.1 | 6877.9 | 10217.5 | 12656.7 | 11884.6 | 10762.9 | 7554.4 | 5028.6 |
| 60° | 1426.7 | 1445.9 | 1618.9 | 2431.9 | 4241.0 | 8279.0 | 11961.1 | 12162.3 | 10829.3 | 7538.9 | 5026.8 |
| 62.5° | 961.4 | 958.8 | 966.1 | 1200.1 | 2089.6 | 5319.0 | 10511.6 | 11676.1 | 10793.9 | 7479.6 | 5008.6 |
| 65° | 826.8 | 816.7 | 789.4 | 842.2 | 1082.6 | 2432.8 | 8121.6 | 10224.8 | 10523.5 | 7331.2 | 4883.8 |
| 67.5° | 714.7 | 715.7 | 716.6 | 700.2 | 773.1 | 1122.7 | 4963.0 | 8054.1 | 9552.9 | 6628.4 | 4403.1 |
| 70° | 591.8 | 600.0 | 603.6 | 603.6 | 630.1 | 736.6 | 2118.7 | 5520.3 | 7535.2 | 5197.1 | 3546.4 |
| 72.5° | 539.0 | 521.7 | 523.6 | 514.4 | 514.4 | 560.9 | 853.1 | 3129.3 | 4747.3 | 2923.6 | 2164.2 |
| 75° | 439.7 | 450.7 | 452.5 | 446.2 | 425.2 | 427.9 | 506.2 | 1312.9 | 2031.3 | 1212.8 | 1069.8 |
| 77.5° | 379.7 | 379.7 | 383.3 | 378.7 | 362.3 | 320.5 | 337.8 | 508.9 | 691.1 | 497.1 | 534.4 |
| 80° | 305.0 | 304.1 | 319.6 | 328.7 | 303.2 | 236.8 | 215.8 | 281.4 | 306.9 | 218.5 | 277.7 |
| 82.5° | 148.4 | 157.5 | 219.5 | 250.4 | 230.3 | 171.2 | 132.0 | 174.9 | 163.9 | 96.6 | 124.7 |
| 85° | 86.5 | 81.9 | 98.3 | 139.3 | 132.0 | 94.7 | 63.8 | 91.0 | 85.6 | 49.2 | 50.1 |
| 87.5° | 27.3 | 25.5 | 20.0 | 47.4 | 38.2 | 26.4 | 17.3 | 26.4 | 23.7 | 11.0 | 11.0 |
| 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: P963996
 CATALOG NUMBER: NVN-SB3B-730-U-AFL

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 | 4413.1 |
| 2.5° | 4363.0 | 4255.6 | 4149.1 | 4051.7 | 3992.5 | 3954.2 | 3916.0 | 3873.3 | 3856.9 | 3832.3 |
| 5° | 4319.3 | 4111.8 | 3927.0 | 3767.6 | 3622.9 | 3509.0 | 3394.3 | 3301.4 | 3259.5 | 3287.8 |
| 7.5° | 4293.8 | 3993.4 | 3708.4 | 3416.1 | 3134.9 | 2909.9 | 2714.2 | 2576.6 | 2514.7 | 2530.2 |
| 10° | 4271.1 | 3859.5 | 3425.2 | 2963.7 | 2559.4 | 2280.7 | 2080.4 | 1975.8 | 1936.6 | 1944.8 |
| 12.5° | 4250.2 | 3709.4 | 3083.8 | 2476.5 | 2046.8 | 1862.8 | 1805.5 | 1806.5 | 1813.7 | 1819.2 |
| 15° | 4246.5 | 3528.2 | 2702.3 | 2050.4 | 1770.0 | 1758.2 | 1820.1 | 1859.2 | 1880.2 | 1886.5 |
| 17.5° | 4241.0 | 3311.5 | 2313.5 | 1759.9 | 1702.6 | 1782.8 | 1840.1 | 1865.6 | 1882.0 | 1882.9 |
| 20° | 4219.2 | 3036.5 | 1954.8 | 1621.6 | 1688.1 | 1757.3 | 1792.7 | 1812.8 | 1826.4 | 1831.0 |
| 22.5° | 4151.9 | 2730.6 | 1675.3 | 1559.6 | 1629.7 | 1685.3 | 1727.2 | 1750.0 | 1758.2 | 1763.6 |
| 25° | 4030.7 | 2388.2 | 1482.3 | 1500.5 | 1548.8 | 1618.9 | 1652.5 | 1657.1 | 1654.4 | 1662.6 |
| 27.5° | 3872.3 | 2021.3 | 1362.1 | 1420.3 | 1482.3 | 1542.3 | 1560.6 | 1557.9 | 1552.4 | 1561.5 |
| 30° | 3681.1 | 1691.7 | 1285.7 | 1330.2 | 1414.9 | 1469.5 | 1485.9 | 1479.6 | 1468.6 | 1478.7 |
| 32.5° | 3479.0 | 1422.2 | 1222.8 | 1267.4 | 1359.4 | 1413.1 | 1429.5 | 1423.1 | 1414.9 | 1423.1 |
| 35° | 3290.6 | 1233.7 | 1164.5 | 1225.5 | 1315.7 | 1368.5 | 1389.4 | 1390.3 | 1390.3 | 1400.4 |
| 37.5° | 3117.5 | 1123.5 | 1116.2 | 1199.1 | 1285.7 | 1332.9 | 1363.0 | 1364.8 | 1325.6 | 1328.4 |
| 40° | 2957.2 | 1077.1 | 1094.4 | 1181.8 | 1256.4 | 1302.0 | 1303.8 | 1201.8 | 1130.0 | 1128.1 |
| 42.5° | 2826.1 | 1068.0 | 1100.7 | 1180.0 | 1235.5 | 1237.4 | 1108.9 | 1029.7 | 1009.7 | 1010.6 |
| 45° | 2703.2 | 1065.3 | 1115.3 | 1180.0 | 1204.6 | 1068.9 | 982.5 | 961.4 | 963.3 | 970.6 |
| 47.5° | 2565.8 | 1054.3 | 1118.1 | 1163.6 | 1115.3 | 950.6 | 925.1 | 915.9 | 912.4 | 914.1 |
| 50° | 2415.5 | 1015.2 | 1083.5 | 1130.8 | 962.4 | 899.5 | 867.7 | 865.0 | 869.5 | 872.3 |
| 52.5° | 2257.2 | 951.5 | 1024.3 | 1071.6 | 892.3 | 855.0 | 819.5 | 825.8 | 845.8 | 852.2 |
| 55° | 2153.3 | 876.8 | 946.0 | 953.2 | 843.1 | 813.0 | 783.0 | 797.6 | 835.0 | 846.8 |
| 57.5° | 2126.0 | 797.6 | 856.8 | 848.6 | 780.3 | 776.6 | 758.4 | 771.2 | 818.6 | 835.8 |
| 60° | 2117.8 | 726.5 | 769.4 | 763.0 | 719.2 | 736.6 | 732.1 | 738.4 | 754.8 | 760.2 |
| 62.5° | 2054.1 | 670.1 | 691.1 | 681.9 | 664.6 | 694.7 | 705.6 | 692.0 | 704.7 | 711.0 |
| 65° | 1891.9 | 624.6 | 614.6 | 608.2 | 615.5 | 642.8 | 664.6 | 637.3 | 649.1 | 667.4 |
| 67.5° | 1624.3 | 562.7 | 535.4 | 542.6 | 565.4 | 579.9 | 608.2 | 577.3 | 587.2 | 618.2 |
| 70° | 1313.8 | 484.4 | 459.8 | 480.7 | 502.6 | 532.6 | 537.2 | 516.3 | 540.0 | 574.5 |
| 72.5° | 929.6 | 405.2 | 387.9 | 430.7 | 438.0 | 477.1 | 467.1 | 457.0 | 489.8 | 501.6 |
| 75° | 644.6 | 326.9 | 316.8 | 349.6 | 376.1 | 409.7 | 402.4 | 414.3 | 483.5 | 488.9 |
| 77.5° | 408.0 | 254.0 | 247.6 | 268.5 | 305.0 | 342.3 | 354.1 | 488.9 | 825.8 | 858.5 |
| 80° | 236.8 | 189.4 | 182.1 | 198.4 | 230.3 | 265.0 | 341.4 | 600.0 | 544.5 | 538.1 |
| 82.5° | 132.0 | 130.2 | 121.1 | 125.7 | 153.9 | 191.2 | 482.6 | 422.5 | 343.3 | 354.1 |
| 85° | 61.9 | 76.5 | 65.6 | 62.8 | 86.5 | 224.0 | 322.4 | 241.3 | 160.2 | 156.6 |
| 87.5° | 16.4 | 14.6 | 14.6 | 16.4 | 36.4 | 193.0 | 128.3 | 102.9 | 61.0 | 59.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)