

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: P969380

Luminaire Tested: **NVN-SB5D-750-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5D-750-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57225.7 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

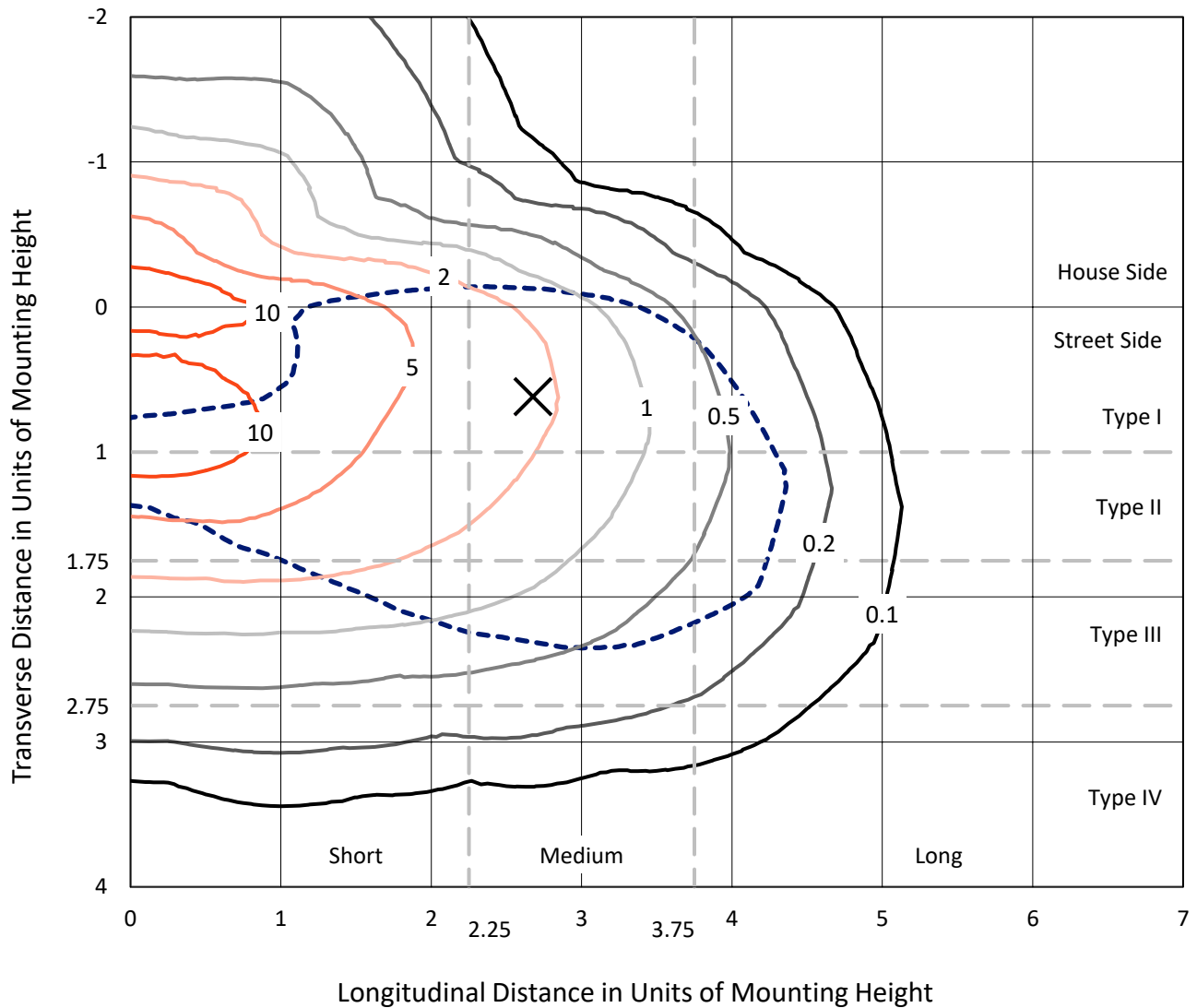
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

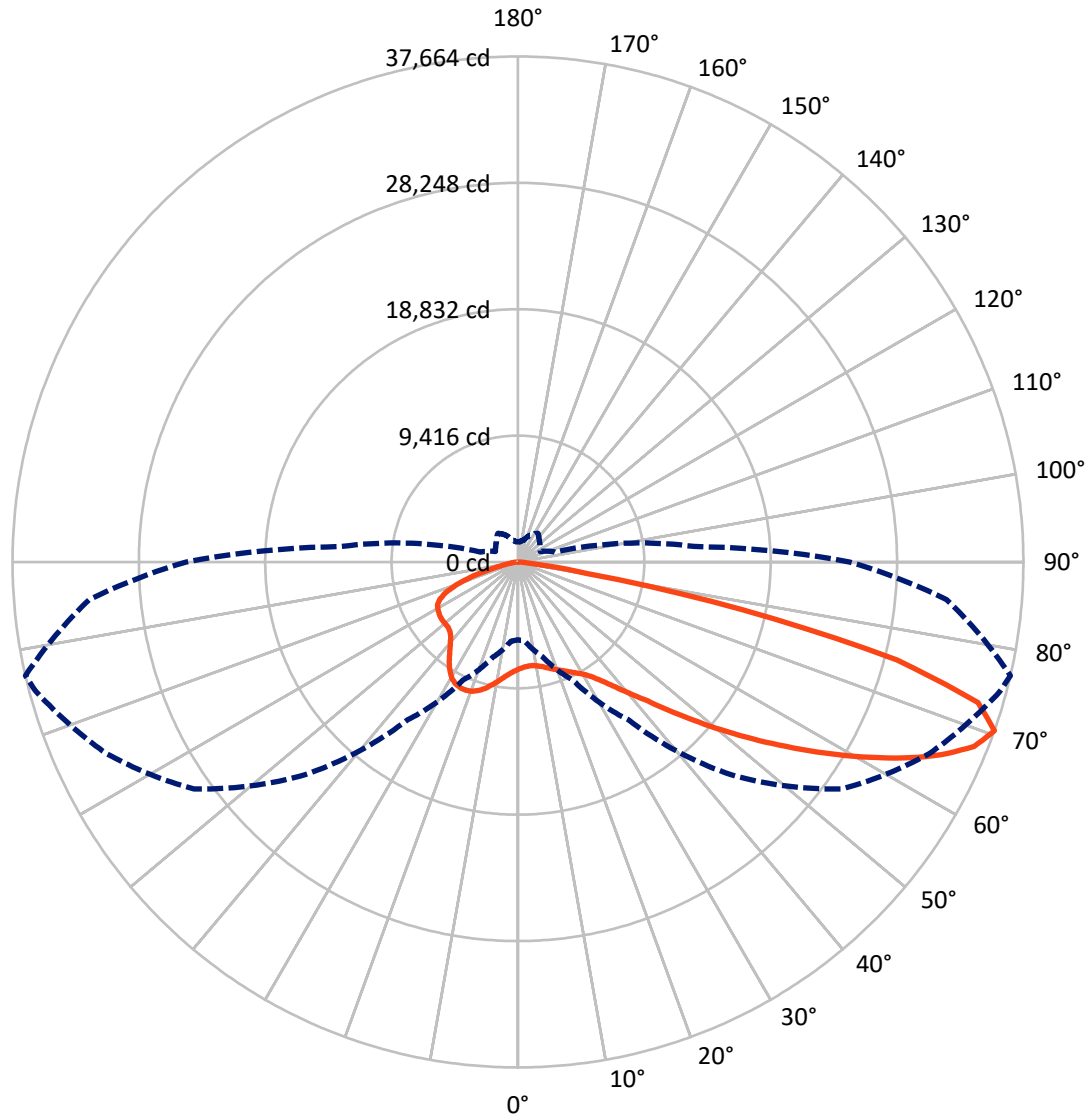
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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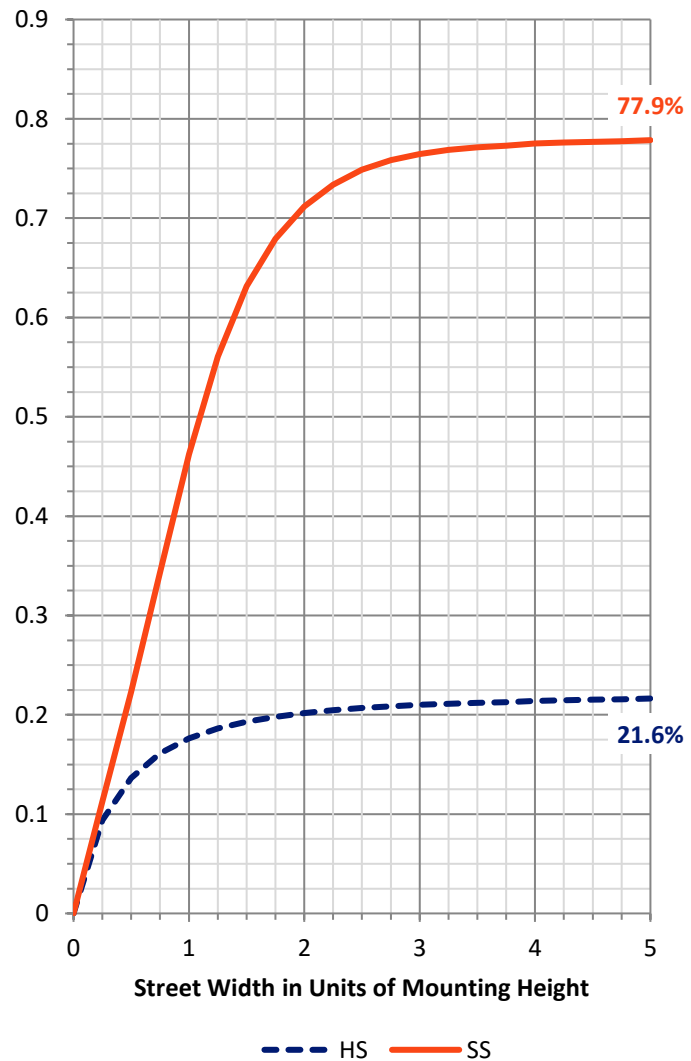
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12531.5 | 0.0 | 12531.5 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 44694.2 | 0.0 | 44694.2 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 57225.7 | 0.0 | 57225.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 761.4 | 1.3 |
| 10°-20° | 2197.5 | 3.8 |
| 20°-30° | 3758.1 | 6.6 |
| 30°-40° | 6043.3 | 10.6 |
| 40°-50° | 9435.2 | 16.5 |
| 50°-60° | 12603.2 | 22.0 |
| 60°-70° | 13433.1 | 23.5 |
| 70°-80° | 8269.3 | 14.5 |
| 80°-90° | 724.6 | 1.3 |
| 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° | 57225.7 | 100.0 |
| 0°-180° | 57225.7 | 100.0 |



REPORT NUMBER: P969380

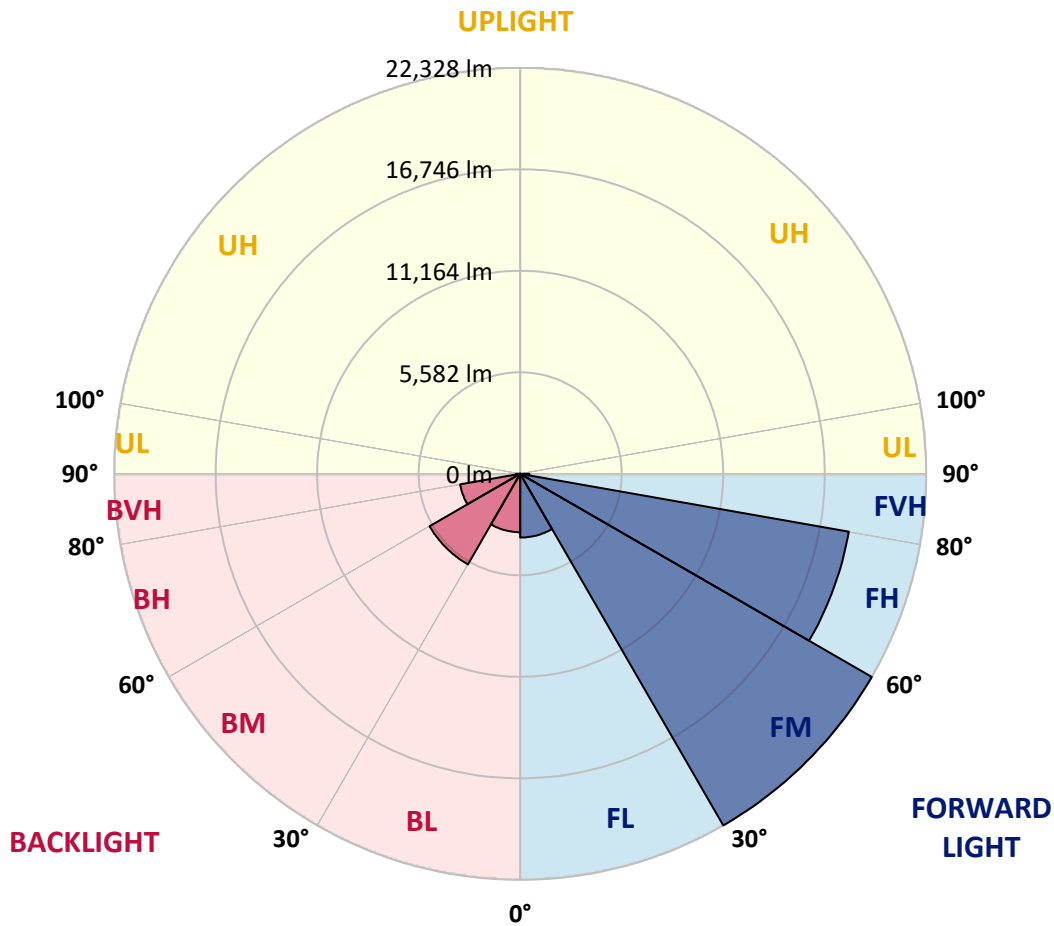
CATALOG NUMBER: NVN-SB5D-750-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3506.0 | 6.1 | | | |
| FM (30°-60°) | 22328.3 | 39.0 | | | |
| FH (60°-80°) | 18353.3 | 32.1 | | | G5 |
| FVH (80°-90°) | 506.7 | 0.9 | | | G4/750 |
| BL (0°-30°) | 3211.0 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 5753.5 | 10.1 | B4/8500 | | |
| BH (60°-80°) | 3349.1 | 5.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 217.9 | 0.4 | | | 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 III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 |
| 2.5° | 7359.3 | 7356.3 | 7394.5 | 7406.1 | 7476.5 | 7526.3 | 7620.1 | 7719.8 | 7848.7 | 7863.4 | 7942.5 |
| 5° | 6934.3 | 6934.3 | 6978.2 | 7025.1 | 7116.0 | 7215.7 | 7359.3 | 7532.2 | 7754.9 | 7790.1 | 7986.5 |
| 7.5° | 6573.8 | 6597.2 | 6635.3 | 6726.2 | 6831.7 | 6975.3 | 7195.1 | 7441.3 | 7734.4 | 7790.1 | 8106.6 |
| 10° | 6283.7 | 6310.0 | 6356.9 | 6430.2 | 6588.5 | 6787.8 | 7075.0 | 7391.5 | 7784.3 | 7872.1 | 8282.4 |
| 12.5° | 6192.7 | 6219.2 | 6245.5 | 6301.2 | 6447.8 | 6682.3 | 7025.1 | 7415.0 | 7904.4 | 7992.3 | 8522.8 |
| 15° | 6403.8 | 6436.1 | 6415.6 | 6400.9 | 6477.1 | 6691.0 | 7048.6 | 7499.9 | 8053.8 | 8179.9 | 8818.8 |
| 17.5° | 6890.4 | 6902.0 | 6855.2 | 6717.4 | 6705.7 | 6819.9 | 7159.9 | 7617.2 | 8241.4 | 8379.2 | 9117.8 |
| 20° | 7675.8 | 7655.3 | 7558.6 | 7286.0 | 7130.6 | 7107.2 | 7350.5 | 7793.0 | 8434.8 | 8581.4 | 9440.1 |
| 22.5° | 8742.6 | 8719.2 | 8525.7 | 8094.8 | 7749.0 | 7520.4 | 7626.0 | 8021.6 | 8651.7 | 8815.8 | 9753.7 |
| 25° | 10073.2 | 10040.9 | 9756.7 | 9170.5 | 8634.2 | 8068.5 | 8001.2 | 8323.5 | 8918.4 | 9070.8 | 10082.0 |
| 27.5° | 11626.5 | 11600.1 | 11292.4 | 10518.7 | 9744.9 | 8818.8 | 8467.1 | 8678.2 | 9196.9 | 9369.8 | 10451.2 |
| 30° | 13297.0 | 13373.3 | 12828.2 | 11995.8 | 11016.9 | 9797.7 | 9094.3 | 9114.8 | 9557.4 | 9712.7 | 10899.6 |
| 32.5° | 15260.7 | 15392.6 | 14736.1 | 13681.0 | 12344.6 | 10861.5 | 9885.6 | 9724.4 | 10082.0 | 10210.9 | 11465.3 |
| 35° | 17206.8 | 17356.2 | 16811.1 | 15644.7 | 14105.9 | 12115.9 | 10712.1 | 10424.9 | 10779.5 | 10920.1 | 12215.6 |
| 37.5° | 18889.0 | 19088.4 | 18807.0 | 17792.9 | 15990.5 | 13628.2 | 11790.7 | 11248.5 | 11638.3 | 11814.0 | 13223.8 |
| 40° | 20216.7 | 20521.5 | 20501.0 | 19867.9 | 18212.0 | 15462.9 | 13159.4 | 12265.5 | 12705.1 | 12895.5 | 14445.9 |
| 42.5° | 21295.2 | 21559.0 | 21787.6 | 21755.4 | 20530.3 | 17546.8 | 14768.3 | 13587.2 | 13921.3 | 14141.1 | 15820.5 |
| 45° | 22039.7 | 22321.0 | 22813.4 | 23343.9 | 22760.6 | 19777.1 | 16611.8 | 15155.2 | 15460.0 | 15791.1 | 17458.8 |
| 47.5° | 22705.0 | 23024.4 | 23663.4 | 24504.5 | 24653.9 | 22016.2 | 18631.1 | 16981.1 | 17259.5 | 17602.4 | 19103.0 |
| 50° | 22763.6 | 23039.0 | 24029.7 | 25222.5 | 25999.1 | 24167.4 | 20799.9 | 19029.7 | 19290.6 | 19656.9 | 20864.4 |
| 52.5° | 21348.0 | 21781.8 | 23510.9 | 25202.0 | 26617.6 | 25966.9 | 22954.1 | 21160.4 | 21453.5 | 21893.1 | 22687.4 |
| 55° | 16570.8 | 17206.8 | 21989.8 | 24416.5 | 26397.7 | 27130.4 | 25002.7 | 23426.0 | 23801.1 | 24261.2 | 24522.1 |
| 57.5° | 14273.0 | 14551.4 | 17455.9 | 22986.3 | 25395.4 | 27432.4 | 26731.9 | 25714.9 | 26318.6 | 26822.7 | 26462.2 |
| 60° | 12828.2 | 13059.6 | 14777.1 | 20761.8 | 24076.5 | 26954.6 | 28068.3 | 27848.5 | 28891.9 | 29492.7 | 28446.4 |
| 62.5° | 11280.6 | 11500.5 | 13062.6 | 17335.7 | 22388.5 | 26160.4 | 28912.4 | 29818.0 | 31529.6 | 32186.1 | 30316.2 |
| 65° | 9744.9 | 9932.5 | 11430.2 | 14566.1 | 20243.0 | 25366.1 | 29349.1 | 31520.8 | 33971.0 | 34650.9 | 31869.6 |
| 67.5° | 8033.3 | 8188.6 | 9604.2 | 12288.8 | 17634.6 | 24278.8 | 29565.9 | 32860.2 | 36095.8 | 36679.0 | 32637.4 |
| 70° | 5797.1 | 5917.3 | 7379.8 | 9718.5 | 14361.0 | 22409.0 | 29478.1 | 33809.7 | 37197.8 | 37663.8 | 32057.2 |
| 72.5° | 2740.3 | 2848.8 | 4566.2 | 6310.0 | 10143.5 | 18768.9 | 27699.1 | 33056.6 | 36078.3 | 35846.7 | 28505.0 |
| 75° | 1462.5 | 1556.3 | 2623.1 | 3461.3 | 5357.5 | 12866.2 | 22666.8 | 28475.7 | 30295.7 | 29170.3 | 21066.6 |
| 77.5° | 990.7 | 1063.8 | 1623.7 | 2078.0 | 2447.2 | 6107.8 | 14569.0 | 19715.6 | 18968.1 | 17110.0 | 10550.9 |
| 80° | 785.5 | 861.6 | 1330.6 | 1406.8 | 1184.1 | 2206.9 | 6019.8 | 9126.5 | 6556.2 | 5243.2 | 3001.1 |
| 82.5° | 603.7 | 688.7 | 1119.6 | 1019.9 | 644.8 | 905.6 | 1752.6 | 2886.8 | 1679.4 | 1277.9 | 726.8 |
| 85° | 369.3 | 460.1 | 879.2 | 650.7 | 363.5 | 413.3 | 594.9 | 803.1 | 512.9 | 427.9 | 260.9 |
| 87.5° | 187.6 | 263.7 | 445.5 | 237.4 | 164.1 | 96.8 | 158.3 | 158.3 | 134.8 | 117.3 | 67.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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 CATALOG NUMBER: NVN-SB5D-750-U-T3R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 | 7983.5 |
| 2.5° | 8012.8 | 8071.5 | 8171.1 | 8264.9 | 8338.2 | 8408.5 | 8478.8 | 8516.9 | 8528.6 | 8575.6 | 8601.9 |
| 5° | 8106.6 | 8215.1 | 8408.5 | 8590.2 | 8704.5 | 8774.8 | 8824.6 | 8853.9 | 8859.8 | 8874.4 | 8897.9 |
| 7.5° | 8279.5 | 8452.5 | 8722.0 | 8903.8 | 8988.7 | 8982.9 | 8962.4 | 8889.1 | 8859.8 | 8833.4 | 8839.3 |
| 10° | 8522.8 | 8751.3 | 9082.5 | 9208.6 | 9155.8 | 9015.2 | 8833.4 | 8619.5 | 8519.9 | 8423.1 | 8393.8 |
| 12.5° | 8824.6 | 9114.8 | 9440.1 | 9434.3 | 9173.4 | 8812.9 | 8390.9 | 8062.6 | 7854.6 | 7705.1 | 7669.9 |
| 15° | 9191.0 | 9525.1 | 9774.2 | 9574.9 | 9003.4 | 8355.7 | 7737.3 | 7309.5 | 7121.9 | 6957.7 | 6940.2 |
| 17.5° | 9569.1 | 9926.6 | 10040.9 | 9531.0 | 8575.6 | 7678.7 | 6978.2 | 6641.2 | 6456.6 | 6368.6 | 6395.0 |
| 20° | 9938.4 | 10292.9 | 10199.2 | 9278.9 | 7924.9 | 6910.9 | 6286.5 | 6101.9 | 6063.8 | 6084.4 | 6075.6 |
| 22.5° | 10328.2 | 10644.7 | 10231.4 | 8792.4 | 7095.5 | 6125.4 | 5782.4 | 5788.4 | 5873.4 | 5934.9 | 5949.5 |
| 25° | 10726.7 | 10940.7 | 10146.5 | 8089.0 | 6204.5 | 5548.0 | 5463.0 | 5556.8 | 5723.9 | 5844.0 | 5876.2 |
| 27.5° | 11110.7 | 11204.5 | 9961.8 | 7218.6 | 5439.6 | 5134.7 | 5149.4 | 5342.8 | 5594.9 | 5761.9 | 5803.0 |
| 30° | 11544.5 | 11438.9 | 9607.2 | 6239.7 | 4909.1 | 4780.2 | 4903.2 | 5128.9 | 5380.9 | 5530.4 | 5565.6 |
| 32.5° | 12033.9 | 11641.1 | 9044.5 | 5334.1 | 4534.0 | 4495.9 | 4698.1 | 4844.7 | 4956.0 | 5000.0 | 5023.4 |
| 35° | 12643.5 | 11925.5 | 8323.5 | 4698.1 | 4196.9 | 4287.8 | 4481.2 | 4407.9 | 4363.9 | 4340.6 | 4363.9 |
| 37.5° | 13434.8 | 12309.4 | 7479.4 | 4284.8 | 3924.3 | 4138.3 | 4217.5 | 3988.8 | 3815.9 | 3730.9 | 3751.4 |
| 40° | 14387.3 | 12872.1 | 6667.6 | 3965.4 | 3751.4 | 4009.4 | 3871.6 | 3596.1 | 3376.2 | 3256.1 | 3264.9 |
| 42.5° | 15445.3 | 13461.2 | 5984.7 | 3725.1 | 3654.7 | 3903.8 | 3616.6 | 3288.4 | 2933.8 | 2895.6 | 2933.8 |
| 45° | 16556.1 | 14067.8 | 5518.7 | 3540.5 | 3607.8 | 3813.0 | 3470.0 | 2939.6 | 2687.5 | 2842.8 | 2924.9 |
| 47.5° | 17666.9 | 14624.7 | 5237.3 | 3402.7 | 3584.4 | 3710.4 | 3341.1 | 2746.2 | 2567.4 | 2793.0 | 2898.6 |
| 50° | 18903.7 | 15123.0 | 5111.4 | 3303.1 | 3558.0 | 3669.4 | 3147.7 | 2696.4 | 2441.3 | 2590.8 | 2702.2 |
| 52.5° | 20131.7 | 15509.8 | 5017.6 | 3203.3 | 3519.8 | 3637.1 | 3053.9 | 2637.7 | 2288.9 | 2297.7 | 2359.3 |
| 55° | 21356.8 | 15761.8 | 4915.0 | 3071.5 | 3434.9 | 3566.8 | 3045.1 | 2573.3 | 2174.6 | 2133.6 | 2163.0 |
| 57.5° | 22663.9 | 15905.4 | 4788.9 | 2924.9 | 3288.4 | 3388.0 | 3036.4 | 2523.4 | 2139.5 | 2072.0 | 2080.9 |
| 60° | 23994.5 | 16116.5 | 4624.8 | 2746.2 | 3092.0 | 3174.0 | 3015.8 | 2505.8 | 2119.0 | 2004.7 | 2013.5 |
| 62.5° | 25187.3 | 16189.8 | 4428.4 | 2576.1 | 2840.0 | 2963.1 | 2971.9 | 2491.2 | 2063.3 | 1866.9 | 1866.9 |
| 65° | 25969.9 | 15873.3 | 4085.5 | 2382.7 | 2567.4 | 2746.2 | 2886.8 | 2441.3 | 1963.6 | 1767.3 | 1767.3 |
| 67.5° | 25937.6 | 14970.5 | 3549.2 | 2133.6 | 2303.6 | 2505.8 | 2763.7 | 2356.4 | 1843.5 | 1644.2 | 1653.0 |
| 70° | 24730.2 | 13188.7 | 2869.3 | 1843.5 | 2013.5 | 2247.9 | 2605.4 | 2230.3 | 1699.9 | 1509.4 | 1526.9 |
| 72.5° | 21210.2 | 10322.3 | 2083.8 | 1503.5 | 1676.4 | 1981.2 | 2400.3 | 2078.0 | 1553.3 | 1389.2 | 1380.4 |
| 75° | 15152.3 | 6532.7 | 1412.7 | 1154.8 | 1304.2 | 1679.4 | 2145.3 | 1899.1 | 1418.5 | 1395.0 | 1315.9 |
| 77.5° | 7740.3 | 3121.3 | 934.9 | 844.1 | 908.6 | 1324.7 | 1802.5 | 1696.9 | 1439.0 | 1151.8 | 1025.8 |
| 80° | 2517.6 | 1151.8 | 589.1 | 574.4 | 603.7 | 882.2 | 1395.0 | 1392.2 | 1090.3 | 782.5 | 691.7 |
| 82.5° | 803.1 | 495.3 | 384.0 | 369.3 | 354.6 | 553.9 | 973.0 | 1102.0 | 735.6 | 495.3 | 492.4 |
| 85° | 319.5 | 296.0 | 225.7 | 208.1 | 149.4 | 260.9 | 509.9 | 732.7 | 548.1 | 357.5 | 366.3 |
| 87.5° | 117.3 | 117.3 | 61.5 | 44.0 | 32.3 | 87.9 | 137.8 | 219.8 | 313.5 | 184.6 | 181.7 |
| 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)