

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: P965102

Luminaire Tested: **NVN-SB3D-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965102
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-SB3D-735-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32127.6 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

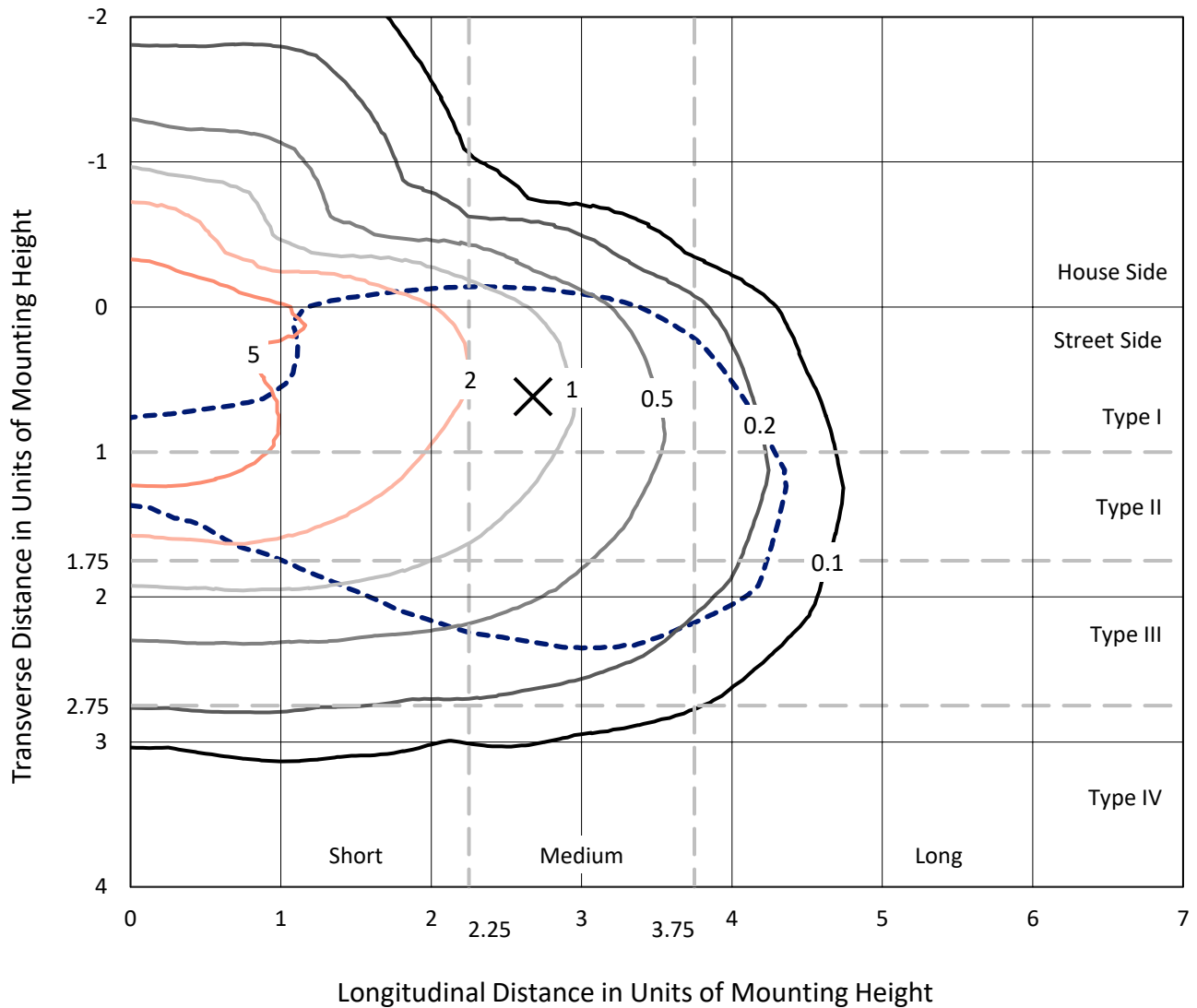
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

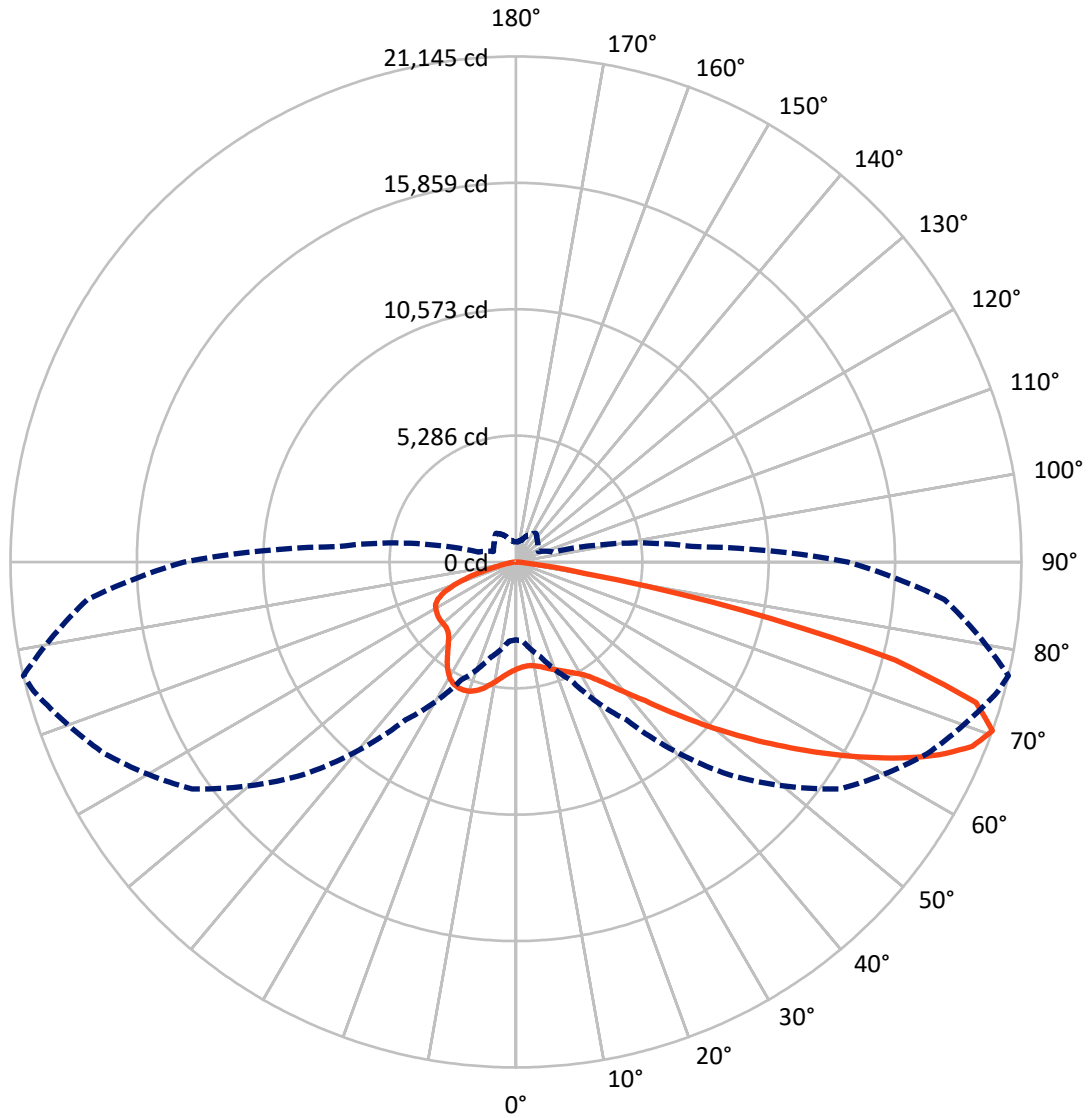
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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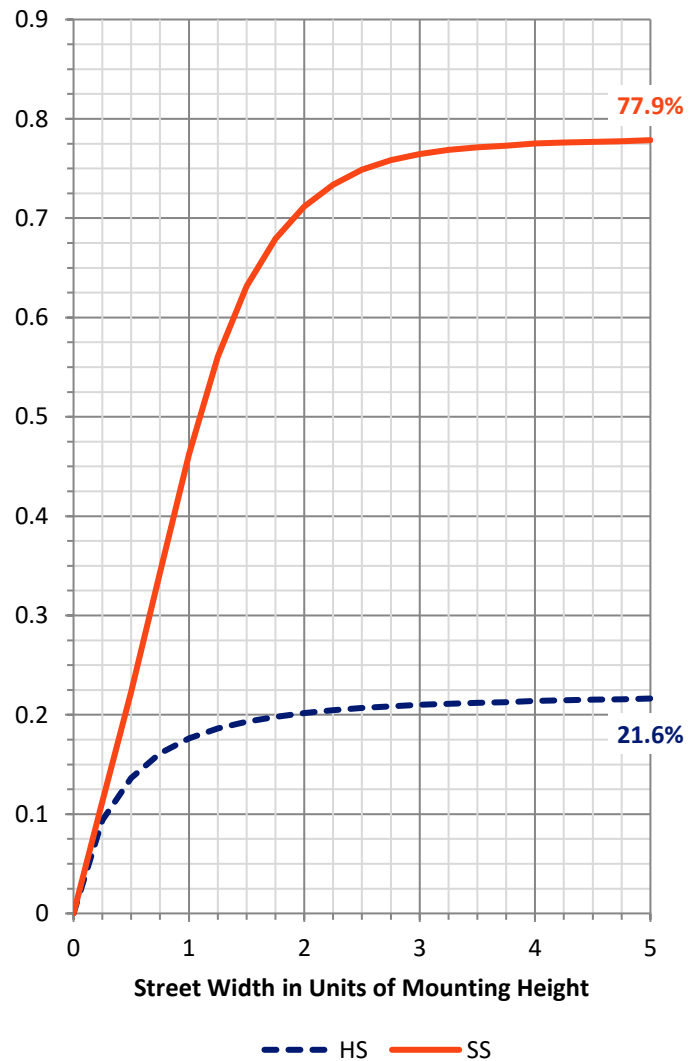
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7035.4 | 0.0 | 7035.4 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 25092.1 | 0.0 | 25092.1 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 32127.6 | 0.0 | 32127.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 427.5 | 1.3 |
| 10°-20° | 1233.7 | 3.8 |
| 20°-30° | 2109.8 | 6.6 |
| 30°-40° | 3392.8 | 10.6 |
| 40°-50° | 5297.1 | 16.5 |
| 50°-60° | 7075.7 | 22.0 |
| 60°-70° | 7541.6 | 23.5 |
| 70°-80° | 4642.5 | 14.5 |
| 80°-90° | 406.8 | 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° | 32127.6 | 100.0 |
| 0°-180° | 32127.6 | 100.0 |



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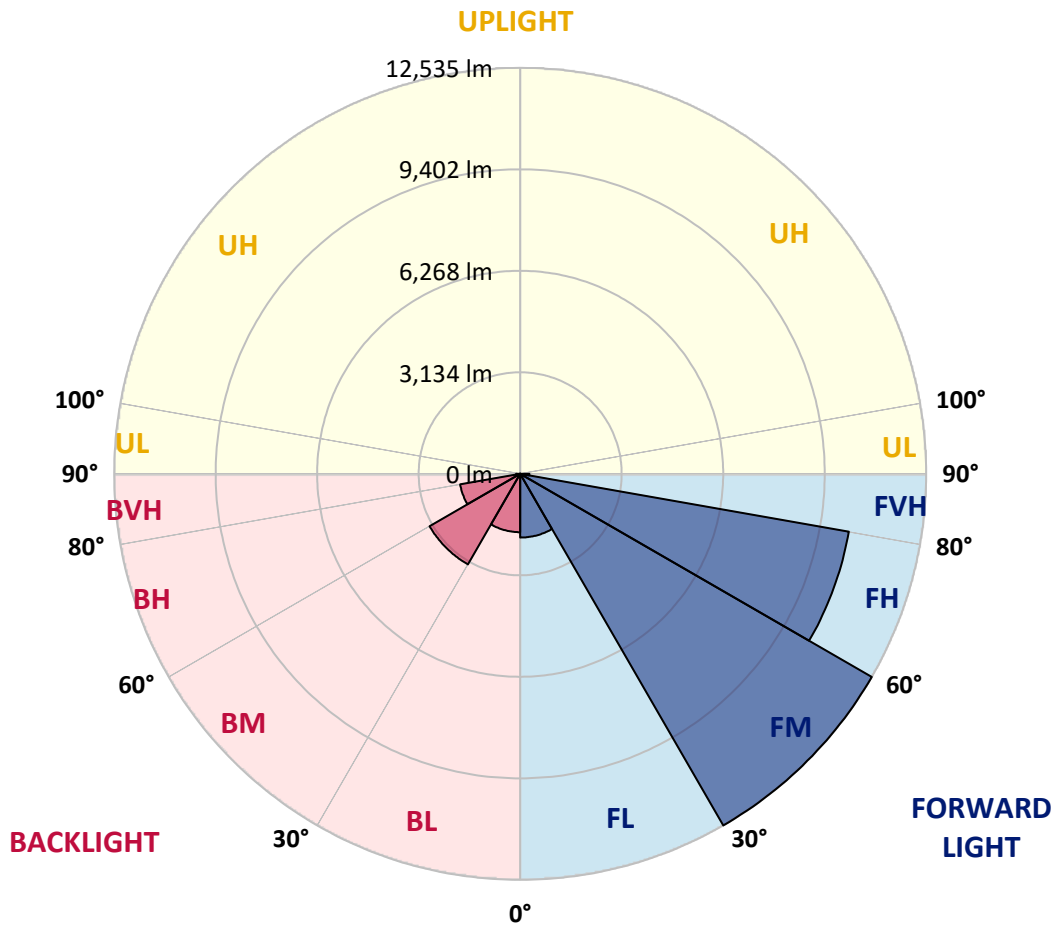
CATALOG NUMBER: NVN-SB3D-735-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1968.3 | 6.1 | | | |
| FM (30°-60°) | 12535.5 | 39.0 | | | |
| FH (60°-80°) | 10303.9 | 32.1 | | | G4/12000 |
| FVH (80°-90°) | 284.5 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1802.7 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 3230.1 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 1880.3 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 122.3 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 |
| 2.5° | 4131.6 | 4129.9 | 4151.4 | 4157.9 | 4197.5 | 4225.5 | 4278.0 | 4334.0 | 4406.4 | 4414.7 | 4459.1 |
| 5° | 3893.1 | 3893.1 | 3917.8 | 3944.0 | 3995.0 | 4051.0 | 4131.6 | 4228.7 | 4353.8 | 4373.5 | 4483.8 |
| 7.5° | 3690.6 | 3703.8 | 3725.2 | 3776.2 | 3835.4 | 3916.1 | 4039.5 | 4177.7 | 4342.2 | 4373.5 | 4551.2 |
| 10° | 3527.7 | 3542.6 | 3568.8 | 3610.0 | 3698.9 | 3810.7 | 3972.0 | 4149.7 | 4370.2 | 4419.6 | 4649.9 |
| 12.5° | 3476.7 | 3491.6 | 3506.3 | 3537.6 | 3619.9 | 3751.5 | 3944.0 | 4162.9 | 4437.6 | 4487.0 | 4784.8 |
| 15° | 3595.2 | 3613.3 | 3601.8 | 3593.5 | 3636.4 | 3756.4 | 3957.2 | 4210.6 | 4521.6 | 4592.3 | 4951.1 |
| 17.5° | 3868.3 | 3874.9 | 3848.6 | 3771.3 | 3764.7 | 3828.9 | 4019.7 | 4276.4 | 4626.8 | 4704.2 | 5118.8 |
| 20° | 4309.3 | 4297.8 | 4243.5 | 4090.5 | 4003.2 | 3990.1 | 4126.6 | 4375.1 | 4735.5 | 4817.8 | 5299.9 |
| 22.5° | 4908.2 | 4895.1 | 4786.5 | 4544.6 | 4350.5 | 4222.1 | 4281.3 | 4503.4 | 4857.3 | 4949.4 | 5476.0 |
| 25° | 5655.2 | 5637.2 | 5477.6 | 5148.5 | 4847.3 | 4529.8 | 4492.0 | 4673.0 | 5007.0 | 5092.5 | 5660.3 |
| 27.5° | 6527.3 | 6512.5 | 6339.7 | 5905.3 | 5470.9 | 4951.1 | 4753.5 | 4872.0 | 5163.3 | 5260.4 | 5867.5 |
| 30° | 7465.2 | 7508.0 | 7202.0 | 6734.7 | 6185.1 | 5500.6 | 5105.7 | 5117.2 | 5365.7 | 5452.9 | 6119.2 |
| 32.5° | 8567.7 | 8641.7 | 8273.1 | 7680.7 | 6930.4 | 6097.9 | 5550.0 | 5459.5 | 5660.3 | 5732.6 | 6436.8 |
| 35° | 9660.2 | 9744.1 | 9438.1 | 8783.2 | 7919.4 | 6802.1 | 6014.0 | 5852.7 | 6051.8 | 6130.8 | 6858.1 |
| 37.5° | 10604.6 | 10716.6 | 10558.6 | 9989.2 | 8977.4 | 7651.1 | 6619.4 | 6315.1 | 6534.0 | 6632.7 | 7424.1 |
| 40° | 11350.0 | 11521.1 | 11509.6 | 11154.3 | 10224.6 | 8681.1 | 7387.9 | 6886.1 | 7132.9 | 7239.8 | 8110.2 |
| 42.5° | 11955.5 | 12103.6 | 12231.9 | 12213.9 | 11526.1 | 9851.1 | 8291.2 | 7628.2 | 7815.7 | 7939.1 | 8881.9 |
| 45° | 12373.5 | 12531.4 | 12807.9 | 13105.6 | 12778.3 | 11103.2 | 9326.2 | 8508.4 | 8679.5 | 8865.4 | 9801.7 |
| 47.5° | 12747.0 | 12926.4 | 13285.0 | 13757.2 | 13841.2 | 12360.3 | 10459.8 | 9533.5 | 9689.8 | 9882.3 | 10724.8 |
| 50° | 12779.9 | 12934.6 | 13490.7 | 14160.4 | 14596.4 | 13568.0 | 11677.4 | 10683.7 | 10830.0 | 11035.8 | 11713.7 |
| 52.5° | 11985.1 | 12228.7 | 13199.4 | 14148.9 | 14943.6 | 14578.4 | 12886.8 | 11879.9 | 12044.4 | 12291.2 | 12737.1 |
| 55° | 9303.1 | 9660.2 | 12345.5 | 13707.9 | 14820.2 | 15231.5 | 14037.0 | 13151.8 | 13362.4 | 13620.7 | 13767.2 |
| 57.5° | 8013.1 | 8169.5 | 9800.0 | 12905.0 | 14257.4 | 15401.0 | 15007.7 | 14436.8 | 14775.8 | 15058.8 | 14856.4 |
| 60° | 7202.0 | 7331.9 | 8296.1 | 11656.1 | 13517.0 | 15132.8 | 15758.0 | 15634.6 | 16220.4 | 16557.7 | 15970.3 |
| 62.5° | 6333.2 | 6456.6 | 7333.6 | 9732.6 | 12569.3 | 14686.9 | 16232.0 | 16740.4 | 17701.3 | 18069.8 | 17020.1 |
| 65° | 5470.9 | 5576.3 | 6417.1 | 8177.7 | 11364.8 | 14241.0 | 16477.1 | 17696.4 | 19072.0 | 19453.7 | 17892.2 |
| 67.5° | 4510.1 | 4597.2 | 5392.0 | 6899.2 | 9900.5 | 13630.6 | 16598.8 | 18448.4 | 20264.9 | 20592.2 | 18323.3 |
| 70° | 3254.6 | 3322.1 | 4143.2 | 5456.2 | 8062.5 | 12580.7 | 16549.5 | 18981.5 | 20883.6 | 21145.1 | 17997.5 |
| 72.5° | 1538.4 | 1599.3 | 2563.5 | 3542.6 | 5694.8 | 10537.2 | 15550.8 | 18558.5 | 20255.0 | 20125.0 | 16003.2 |
| 75° | 821.0 | 873.7 | 1472.6 | 1943.2 | 3007.8 | 7223.4 | 12725.6 | 15986.8 | 17008.5 | 16376.7 | 11827.2 |
| 77.5° | 556.2 | 597.3 | 911.5 | 1166.6 | 1373.9 | 3429.0 | 8179.3 | 11068.7 | 10649.1 | 9605.9 | 5923.5 |
| 80° | 441.0 | 483.8 | 747.0 | 789.8 | 664.7 | 1239.0 | 3379.6 | 5123.8 | 3680.8 | 2943.6 | 1684.9 |
| 82.5° | 339.0 | 386.6 | 628.5 | 572.6 | 362.0 | 508.4 | 984.0 | 1620.7 | 942.8 | 717.4 | 408.1 |
| 85° | 207.4 | 258.3 | 493.6 | 365.3 | 204.1 | 232.0 | 334.0 | 450.8 | 287.9 | 240.3 | 146.5 |
| 87.5° | 105.3 | 148.1 | 250.1 | 133.2 | 92.1 | 54.3 | 88.9 | 88.9 | 75.6 | 65.8 | 37.8 |
| 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-SB3D-735-U-T3R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 | 4482.1 |
| 2.5° | 4498.5 | 4531.4 | 4587.4 | 4640.1 | 4681.2 | 4720.6 | 4760.2 | 4781.5 | 4788.2 | 4814.4 | 4829.3 |
| 5° | 4551.2 | 4612.1 | 4720.6 | 4822.7 | 4886.9 | 4926.4 | 4954.3 | 4970.7 | 4974.1 | 4982.3 | 4995.4 |
| 7.5° | 4648.3 | 4745.3 | 4896.7 | 4998.7 | 5046.5 | 5043.2 | 5031.6 | 4990.5 | 4974.1 | 4959.3 | 4962.5 |
| 10° | 4784.8 | 4913.2 | 5099.2 | 5169.9 | 5140.3 | 5061.2 | 4959.3 | 4839.1 | 4783.2 | 4728.9 | 4712.4 |
| 12.5° | 4954.3 | 5117.2 | 5299.9 | 5296.6 | 5150.1 | 4947.8 | 4710.8 | 4526.5 | 4409.7 | 4325.8 | 4306.0 |
| 15° | 5160.0 | 5347.5 | 5487.4 | 5375.5 | 5054.7 | 4691.0 | 4343.8 | 4103.7 | 3998.3 | 3906.2 | 3896.3 |
| 17.5° | 5372.2 | 5573.0 | 5637.2 | 5350.9 | 4814.4 | 4310.9 | 3917.8 | 3728.5 | 3624.8 | 3575.5 | 3590.3 |
| 20° | 5579.6 | 5778.6 | 5726.1 | 5209.4 | 4449.2 | 3879.8 | 3529.4 | 3425.8 | 3404.3 | 3415.9 | 3410.9 |
| 22.5° | 5798.4 | 5976.2 | 5744.1 | 4936.2 | 3983.6 | 3438.9 | 3246.4 | 3249.7 | 3297.4 | 3332.0 | 3340.2 |
| 25° | 6022.2 | 6142.3 | 5696.4 | 4541.4 | 3483.4 | 3114.8 | 3067.0 | 3119.7 | 3213.5 | 3280.9 | 3299.1 |
| 27.5° | 6237.7 | 6290.4 | 5592.7 | 4052.6 | 3053.9 | 2882.7 | 2891.0 | 2999.6 | 3141.1 | 3234.9 | 3257.9 |
| 30° | 6481.3 | 6422.0 | 5393.7 | 3503.0 | 2756.0 | 2683.7 | 2752.7 | 2879.4 | 3021.0 | 3104.9 | 3124.6 |
| 32.5° | 6756.1 | 6535.6 | 5077.7 | 2994.6 | 2545.5 | 2524.1 | 2637.6 | 2719.8 | 2782.4 | 2807.1 | 2820.2 |
| 35° | 7098.3 | 6695.2 | 4673.0 | 2637.6 | 2356.3 | 2407.2 | 2515.9 | 2474.7 | 2450.1 | 2436.8 | 2450.1 |
| 37.5° | 7542.6 | 6910.8 | 4199.1 | 2405.6 | 2203.2 | 2323.4 | 2367.8 | 2239.4 | 2142.4 | 2094.6 | 2106.2 |
| 40° | 8077.3 | 7226.7 | 3743.3 | 2226.2 | 2106.2 | 2250.9 | 2173.6 | 2018.9 | 1895.5 | 1828.1 | 1833.0 |
| 42.5° | 8671.3 | 7557.3 | 3360.0 | 2091.3 | 2051.8 | 2191.7 | 2030.4 | 1846.1 | 1647.1 | 1625.6 | 1647.1 |
| 45° | 9294.9 | 7897.9 | 3098.3 | 1987.7 | 2025.5 | 2140.7 | 1948.1 | 1650.4 | 1508.8 | 1596.0 | 1642.2 |
| 47.5° | 9918.5 | 8210.6 | 2940.3 | 1910.3 | 2012.4 | 2083.1 | 1875.7 | 1541.7 | 1441.4 | 1568.0 | 1627.3 |
| 50° | 10612.8 | 8490.3 | 2869.6 | 1854.3 | 1997.5 | 2060.0 | 1767.2 | 1513.8 | 1370.6 | 1454.6 | 1517.1 |
| 52.5° | 11302.3 | 8707.5 | 2816.9 | 1798.5 | 1976.1 | 2041.9 | 1714.5 | 1480.8 | 1285.0 | 1290.0 | 1324.5 |
| 55° | 11990.1 | 8849.0 | 2759.3 | 1724.4 | 1928.4 | 2002.4 | 1709.6 | 1444.6 | 1220.9 | 1197.8 | 1214.3 |
| 57.5° | 12723.9 | 8929.6 | 2688.6 | 1642.2 | 1846.1 | 1902.1 | 1704.7 | 1416.7 | 1201.2 | 1163.3 | 1168.2 |
| 60° | 13471.0 | 9048.1 | 2596.4 | 1541.7 | 1735.9 | 1782.0 | 1693.1 | 1406.8 | 1189.6 | 1125.4 | 1130.4 |
| 62.5° | 14140.6 | 9089.2 | 2486.2 | 1446.3 | 1594.4 | 1663.5 | 1668.5 | 1398.6 | 1158.4 | 1048.2 | 1048.2 |
| 65° | 14580.0 | 8911.6 | 2293.7 | 1337.7 | 1441.4 | 1541.7 | 1620.7 | 1370.6 | 1102.4 | 992.2 | 992.2 |
| 67.5° | 14561.9 | 8404.8 | 1992.6 | 1197.8 | 1293.2 | 1406.8 | 1551.6 | 1322.9 | 1034.9 | 923.1 | 928.0 |
| 70° | 13883.9 | 7404.3 | 1610.9 | 1034.9 | 1130.4 | 1262.0 | 1462.8 | 1252.1 | 954.4 | 847.4 | 857.2 |
| 72.5° | 11907.8 | 5795.1 | 1169.9 | 844.1 | 941.2 | 1112.3 | 1347.6 | 1166.6 | 872.1 | 779.9 | 775.0 |
| 75° | 8506.8 | 3667.7 | 793.0 | 648.3 | 732.2 | 942.8 | 1204.5 | 1066.2 | 796.4 | 783.2 | 738.8 |
| 77.5° | 4345.5 | 1752.3 | 524.9 | 473.9 | 510.0 | 743.7 | 1011.9 | 952.7 | 807.9 | 646.7 | 575.8 |
| 80° | 1413.4 | 646.7 | 330.8 | 322.5 | 339.0 | 495.3 | 783.2 | 781.6 | 612.1 | 439.3 | 388.3 |
| 82.5° | 450.8 | 278.1 | 215.6 | 207.4 | 199.1 | 311.0 | 546.3 | 618.7 | 413.0 | 278.1 | 276.4 |
| 85° | 179.4 | 166.2 | 126.7 | 116.8 | 83.9 | 146.5 | 286.3 | 411.3 | 307.7 | 200.7 | 205.7 |
| 87.5° | 65.8 | 65.8 | 34.5 | 24.7 | 18.1 | 49.4 | 77.3 | 123.4 | 176.1 | 103.6 | 102.0 |
| 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)