

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: P884974

Luminaire Tested: **NVN-SB6A-750-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6A-750-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29098 lumens
Efficiency: N/A
Efficacy: 170.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

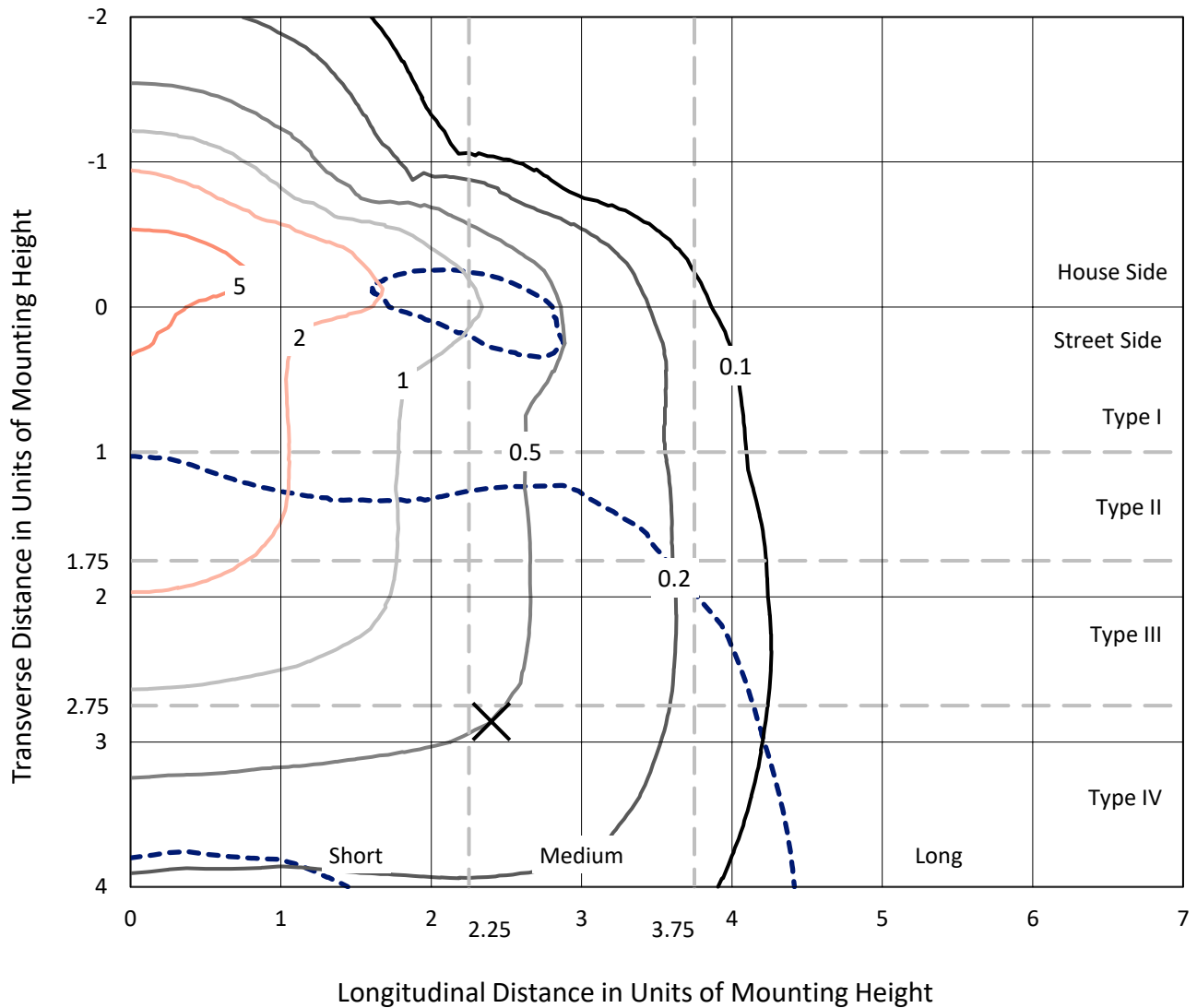
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

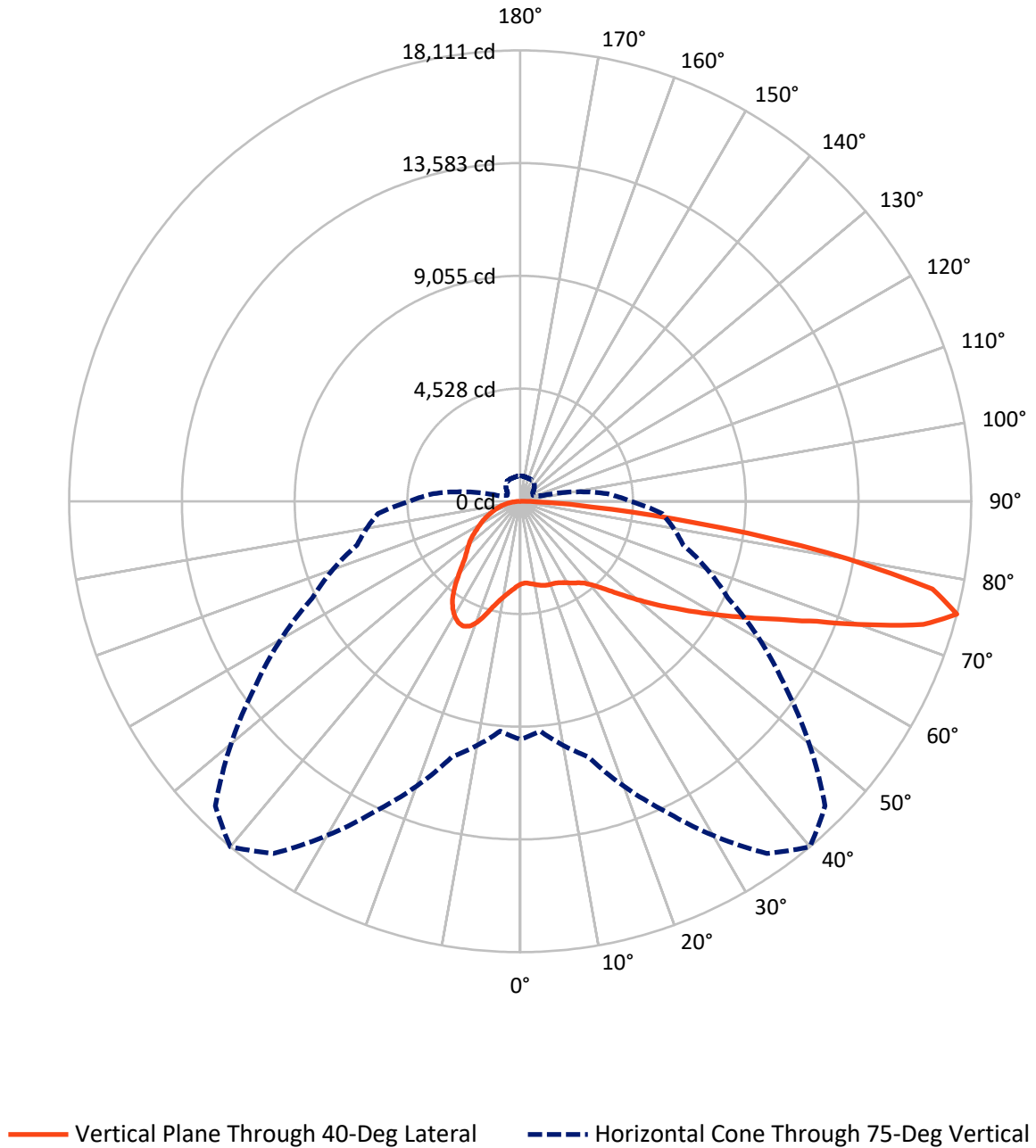
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9015.5 | 0.0 | 9015.5 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 20082.5 | 0.0 | 20082.5 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 29098.0 | 0.0 | 29098.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 332.1 | 1.1 |
| 10°-20° | 1115.1 | 3.8 |
| 20°-30° | 2036.2 | 7.0 |
| 30°-40° | 2887.8 | 9.9 |
| 40°-50° | 3899.4 | 13.4 |
| 50°-60° | 5245.8 | 18.0 |
| 60°-70° | 6658.1 | 22.9 |
| 70°-80° | 6042.6 | 20.8 |
| 80°-90° | 880.8 | 3.0 |
| 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° | 29098.0 | 100.0 |
| 0°-180° | 29098.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P884974

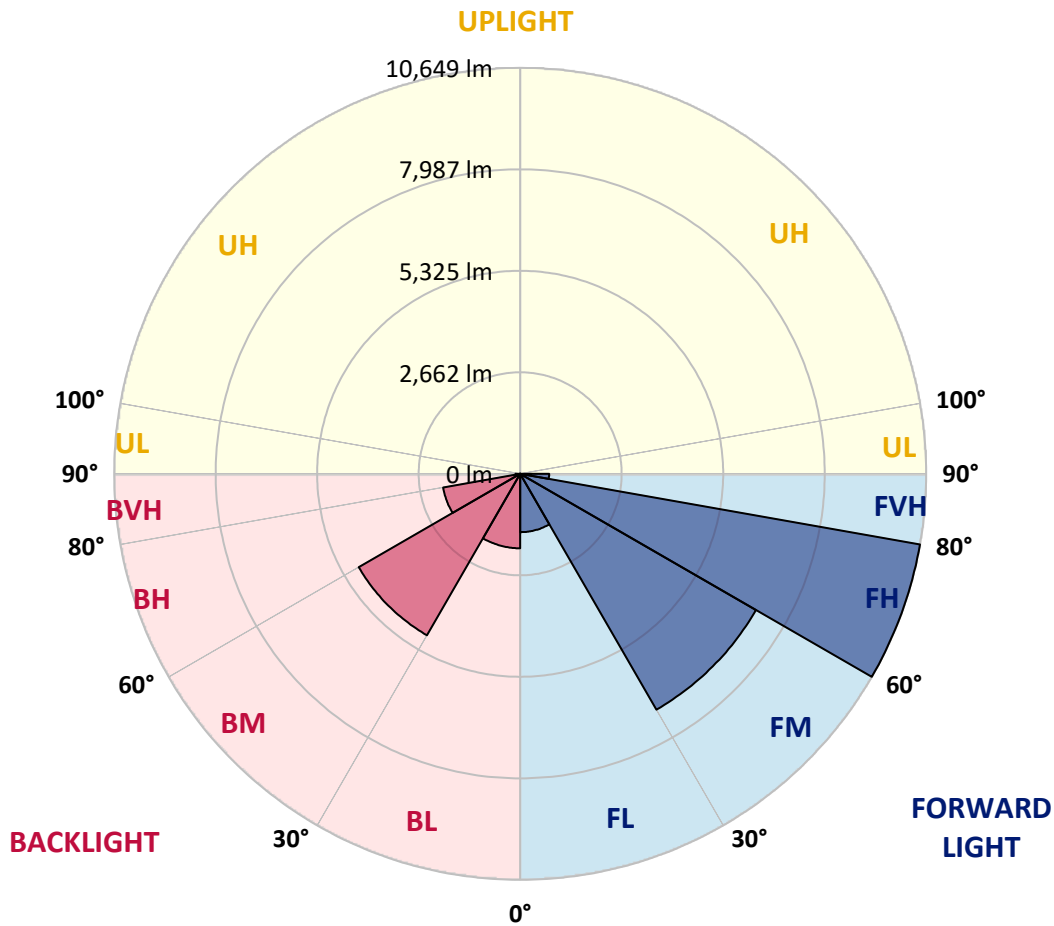
CATALOG NUMBER: NVN-SB6A-750-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1530.6 | 5.3 | | | |
| FM (30°-60°) | 7142.9 | 24.5 | | | |
| FH (60°-80°) | 10649.4 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 759.6 | 2.6 | | | G5 |
| BL (0°-30°) | 1952.8 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 4890.1 | 16.8 | B3/5000 | | |
| BH (60°-80°) | 2051.3 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 121.3 | 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-G5

Type IV Medium



REPORT NUMBER: P884974

CATALOG NUMBER: NVN-SB6A-750-U-SL4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 |
| 2.5° | 3276.5 | 3295.0 | 3290.4 | 3284.2 | 3284.2 | 3285.7 | 3284.2 | 3295.0 | 3305.8 | 3316.6 | 3333.6 |
| 5° | 3310.4 | 3328.9 | 3319.7 | 3312.0 | 3305.8 | 3304.2 | 3299.6 | 3298.1 | 3304.2 | 3318.1 | 3341.3 |
| 7.5° | 3376.8 | 3395.3 | 3381.4 | 3367.5 | 3355.2 | 3349.0 | 3342.8 | 3333.6 | 3328.9 | 3336.7 | 3369.1 |
| 10° | 3450.9 | 3469.4 | 3452.4 | 3427.7 | 3407.6 | 3399.9 | 3393.8 | 3384.5 | 3378.3 | 3383.0 | 3418.5 |
| 12.5° | 3524.9 | 3543.5 | 3520.3 | 3486.4 | 3460.1 | 3455.5 | 3447.8 | 3444.7 | 3443.1 | 3441.6 | 3477.1 |
| 15° | 3594.4 | 3609.8 | 3580.5 | 3540.4 | 3512.6 | 3504.9 | 3497.2 | 3501.8 | 3509.5 | 3518.8 | 3558.9 |
| 17.5° | 3648.4 | 3663.8 | 3620.6 | 3568.2 | 3541.9 | 3538.8 | 3534.2 | 3549.6 | 3571.2 | 3594.4 | 3643.8 |
| 20° | 3697.8 | 3713.2 | 3657.7 | 3586.7 | 3555.8 | 3555.8 | 3557.3 | 3589.8 | 3620.6 | 3654.6 | 3722.5 |
| 22.5° | 3767.2 | 3779.6 | 3711.7 | 3614.5 | 3569.7 | 3572.8 | 3585.1 | 3617.5 | 3656.1 | 3702.4 | 3796.6 |
| 25° | 3870.6 | 3879.9 | 3796.6 | 3666.9 | 3616.0 | 3625.3 | 3636.1 | 3651.5 | 3688.5 | 3742.5 | 3869.1 |
| 27.5° | 4037.3 | 4045.0 | 3935.5 | 3759.5 | 3682.4 | 3697.8 | 3713.2 | 3702.4 | 3719.4 | 3765.7 | 3927.7 |
| 30° | 4271.9 | 4276.5 | 4137.6 | 3904.6 | 3795.0 | 3802.7 | 3805.8 | 3761.1 | 3728.7 | 3765.7 | 3969.4 |
| 32.5° | 4549.7 | 4548.2 | 4383.0 | 4080.5 | 3923.1 | 3915.4 | 3889.2 | 3801.2 | 3725.6 | 3758.0 | 4006.5 |
| 35° | 4980.3 | 4963.3 | 4750.3 | 4327.5 | 4068.2 | 4020.3 | 3958.6 | 3846.0 | 3741.0 | 3750.3 | 4038.9 |
| 37.5° | 5693.3 | 5640.8 | 5346.1 | 4731.8 | 4284.3 | 4162.3 | 4071.3 | 3918.5 | 3775.0 | 3747.2 | 4077.4 |
| 40° | 6497.4 | 6431.0 | 6106.9 | 5285.9 | 4608.3 | 4412.3 | 4265.7 | 4021.9 | 3830.5 | 3761.1 | 4134.6 |
| 42.5° | 7451.1 | 7357.0 | 7008.2 | 5938.7 | 5018.9 | 4734.9 | 4514.2 | 4153.1 | 3912.3 | 3805.8 | 4211.7 |
| 45° | 8622.5 | 8497.5 | 8003.7 | 6674.9 | 5535.9 | 5157.8 | 4863.0 | 4352.2 | 4037.3 | 3892.2 | 4327.5 |
| 47.5° | 9806.2 | 9837.1 | 9134.9 | 7517.5 | 6156.3 | 5679.4 | 5299.8 | 4651.6 | 4219.4 | 4031.1 | 4514.2 |
| 50° | 11064.1 | 11085.7 | 10260.0 | 8451.2 | 6860.1 | 6269.0 | 5790.5 | 4986.5 | 4472.5 | 4228.7 | 4793.5 |
| 52.5° | 12045.6 | 12048.7 | 11281.7 | 9428.1 | 7593.1 | 6917.2 | 6319.9 | 5369.2 | 4765.8 | 4491.1 | 5165.5 |
| 55° | 12659.8 | 12652.1 | 11997.8 | 10352.6 | 8435.8 | 7597.8 | 6906.4 | 5804.4 | 5123.8 | 4799.7 | 5633.1 |
| 57.5° | 13105.9 | 13082.7 | 12491.6 | 11147.4 | 9334.0 | 8401.8 | 7570.0 | 6298.3 | 5546.7 | 5167.0 | 6248.9 |
| 60° | 13275.6 | 13261.7 | 12826.5 | 11834.2 | 10278.5 | 9290.8 | 8335.5 | 6850.8 | 6026.7 | 5600.7 | 7040.6 |
| 62.5° | 13340.4 | 13366.7 | 13155.2 | 12499.3 | 11289.4 | 10275.4 | 9176.6 | 7511.3 | 6566.8 | 6091.5 | 7875.6 |
| 65° | 13568.9 | 13616.7 | 13573.5 | 13369.8 | 12431.4 | 11428.3 | 10292.4 | 8296.9 | 7156.4 | 6617.8 | 8747.5 |
| 67.5° | 14021.1 | 14068.9 | 14087.4 | 14411.5 | 13826.6 | 12865.1 | 11684.5 | 9275.3 | 7846.2 | 7164.1 | 9403.4 |
| 70° | 14010.2 | 13996.4 | 14323.5 | 15240.3 | 15573.6 | 14854.4 | 13561.1 | 10479.1 | 8668.8 | 7617.8 | 9486.8 |
| 72.5° | 12752.4 | 12641.3 | 13414.5 | 15231.0 | 17027.4 | 16931.7 | 15853.0 | 12031.7 | 9378.7 | 7673.4 | 8232.1 |
| 75° | 9567.0 | 9270.7 | 10636.6 | 13726.3 | 17269.7 | 18110.8 | 17309.9 | 12994.7 | 9210.5 | 6779.8 | 5728.8 |
| 77.5° | 4091.3 | 3793.5 | 5403.2 | 10161.2 | 15456.3 | 16930.2 | 15973.3 | 11337.2 | 7352.4 | 4483.3 | 2813.5 |
| 80° | 1071.1 | 1069.5 | 1632.8 | 4606.8 | 10511.5 | 12502.4 | 10968.4 | 7321.5 | 4200.9 | 1602.0 | 776.3 |
| 82.5° | 442.9 | 432.1 | 600.4 | 1791.8 | 5136.2 | 7015.9 | 5725.7 | 3265.7 | 1517.1 | 433.7 | 257.7 |
| 85° | 165.1 | 163.6 | 291.7 | 618.9 | 1811.9 | 2893.7 | 2094.3 | 834.9 | 378.1 | 211.4 | 115.7 |
| 87.5° | 46.3 | 44.8 | 63.3 | 214.5 | 441.4 | 669.8 | 358.0 | 137.4 | 106.5 | 83.3 | 34.0 |
| 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: P884974

CATALOG NUMBER: NVN-SB6A-750-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 | 3327.4 |
| 2.5° | 3338.2 | 3345.9 | 3359.8 | 3370.6 | 3384.5 | 3399.9 | 3421.5 | 3435.4 | 3449.3 | 3458.6 | 3452.4 |
| 5° | 3352.1 | 3369.1 | 3404.6 | 3440.1 | 3481.7 | 3520.3 | 3565.1 | 3597.5 | 3623.7 | 3631.4 | 3634.5 |
| 7.5° | 3383.0 | 3410.7 | 3470.9 | 3531.1 | 3597.5 | 3660.8 | 3725.6 | 3781.1 | 3825.9 | 3842.9 | 3844.4 |
| 10° | 3437.0 | 3474.0 | 3558.9 | 3643.8 | 3731.7 | 3829.0 | 3912.3 | 3992.6 | 4055.8 | 4082.1 | 4083.6 |
| 12.5° | 3504.9 | 3551.2 | 3662.3 | 3779.6 | 3901.5 | 4035.8 | 4143.8 | 4242.6 | 4321.3 | 4356.8 | 4356.8 |
| 15° | 3592.8 | 3653.0 | 3795.0 | 3952.4 | 4131.5 | 4318.2 | 4455.6 | 4565.1 | 4653.1 | 4696.3 | 4693.2 |
| 17.5° | 3688.5 | 3768.8 | 3947.8 | 4185.5 | 4441.7 | 4687.1 | 4847.6 | 4927.8 | 5018.9 | 5060.5 | 5059.0 |
| 20° | 3781.1 | 3879.9 | 4136.1 | 4481.8 | 4822.9 | 5083.7 | 5213.3 | 5234.9 | 5241.1 | 5245.7 | 5258.1 |
| 22.5° | 3876.8 | 4009.5 | 4372.2 | 4855.3 | 5221.0 | 5401.6 | 5420.1 | 5327.5 | 5197.9 | 5137.7 | 5154.7 |
| 25° | 3981.8 | 4157.7 | 4680.9 | 5267.3 | 5563.7 | 5585.3 | 5443.3 | 5218.0 | 4972.6 | 4859.9 | 4876.9 |
| 27.5° | 4083.6 | 4329.0 | 5051.3 | 5660.9 | 5810.6 | 5620.8 | 5315.2 | 4995.7 | 4699.4 | 4580.6 | 4594.5 |
| 30° | 4185.5 | 4525.0 | 5460.3 | 6005.1 | 5923.3 | 5532.8 | 5113.0 | 4756.5 | 4458.6 | 4333.6 | 4347.5 |
| 32.5° | 4288.9 | 4753.4 | 5931.0 | 6253.5 | 5903.2 | 5346.1 | 4861.5 | 4488.0 | 4225.6 | 4094.4 | 4111.4 |
| 35° | 4406.2 | 5034.3 | 6377.0 | 6389.3 | 5768.9 | 5071.3 | 4529.6 | 4167.0 | 3938.5 | 3833.6 | 3856.8 |
| 37.5° | 4559.0 | 5390.8 | 6770.5 | 6423.3 | 5534.3 | 4668.5 | 4117.6 | 3787.3 | 3599.0 | 3551.2 | 3585.1 |
| 40° | 4748.8 | 5819.9 | 7071.5 | 6369.3 | 5187.1 | 4179.3 | 3666.9 | 3403.0 | 3296.5 | 3307.3 | 3344.4 |
| 42.5° | 4995.7 | 6299.8 | 7282.9 | 6230.4 | 4704.0 | 3674.6 | 3271.8 | 3154.5 | 3205.5 | 3248.7 | 3288.8 |
| 45° | 5316.7 | 6798.3 | 7414.1 | 5994.2 | 4157.7 | 3247.1 | 3038.8 | 3066.6 | 3105.2 | 3109.8 | 3140.7 |
| 47.5° | 5727.3 | 7303.0 | 7500.5 | 5637.7 | 3600.6 | 2946.2 | 2890.6 | 2896.8 | 2889.1 | 2856.7 | 2881.4 |
| 50° | 6239.6 | 7793.8 | 7577.7 | 5165.5 | 3126.8 | 2757.9 | 2683.8 | 2662.2 | 2555.7 | 2450.8 | 2464.7 |
| 52.5° | 6823.0 | 8244.4 | 7610.1 | 4579.0 | 2757.9 | 2600.5 | 2480.1 | 2344.3 | 2145.2 | 2112.8 | 2123.6 |
| 55° | 7471.2 | 8661.1 | 7526.8 | 3858.3 | 2447.7 | 2398.3 | 2216.2 | 2052.6 | 2031.0 | 2003.2 | 2007.9 |
| 57.5° | 8246.0 | 9110.2 | 7357.0 | 3054.2 | 2129.8 | 2162.2 | 1984.7 | 2003.2 | 1964.6 | 1921.4 | 1913.7 |
| 60° | 9093.2 | 9574.7 | 7059.1 | 2321.2 | 1801.1 | 1867.4 | 1924.5 | 1923.0 | 1912.2 | 1876.7 | 1864.3 |
| 62.5° | 9855.6 | 9880.3 | 6472.7 | 1777.9 | 1512.5 | 1639.0 | 1794.9 | 1793.3 | 1784.1 | 1764.0 | 1756.3 |
| 65° | 10309.4 | 9834.0 | 5494.2 | 1399.8 | 1274.8 | 1450.7 | 1618.9 | 1631.3 | 1632.8 | 1631.3 | 1631.3 |
| 67.5° | 10229.1 | 9292.3 | 4151.5 | 1114.3 | 1078.8 | 1259.3 | 1444.5 | 1461.5 | 1473.9 | 1477.0 | 1480.0 |
| 70° | 9321.6 | 8102.4 | 2707.0 | 889.0 | 904.4 | 1091.1 | 1279.4 | 1296.4 | 1307.2 | 1319.5 | 1325.7 |
| 72.5° | 7265.9 | 5957.2 | 1549.5 | 719.2 | 751.6 | 946.1 | 1115.8 | 1135.9 | 1142.1 | 1165.2 | 1174.5 |
| 75° | 4427.8 | 3503.3 | 836.5 | 566.4 | 617.3 | 808.7 | 953.8 | 976.9 | 987.7 | 1015.5 | 1018.6 |
| 77.5° | 2105.1 | 1517.1 | 476.9 | 441.4 | 496.9 | 660.5 | 805.6 | 831.8 | 802.5 | 818.0 | 805.6 |
| 80° | 711.5 | 563.3 | 300.9 | 336.4 | 379.7 | 515.5 | 645.1 | 671.3 | 609.6 | 606.5 | 600.4 |
| 82.5° | 248.5 | 228.4 | 191.4 | 223.8 | 245.4 | 368.9 | 487.7 | 521.6 | 453.7 | 452.2 | 430.6 |
| 85° | 97.2 | 92.6 | 106.5 | 121.9 | 146.6 | 226.9 | 321.0 | 338.0 | 279.3 | 225.3 | 222.2 |
| 87.5° | 20.1 | 21.6 | 26.2 | 27.8 | 44.8 | 78.7 | 115.7 | 142.0 | 112.7 | 95.7 | 88.0 |
| 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)