

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: P970346

Luminaire Tested: **NVN-SB6B-730-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-730-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34932 lumens
Efficiency: N/A
Efficacy: 158.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

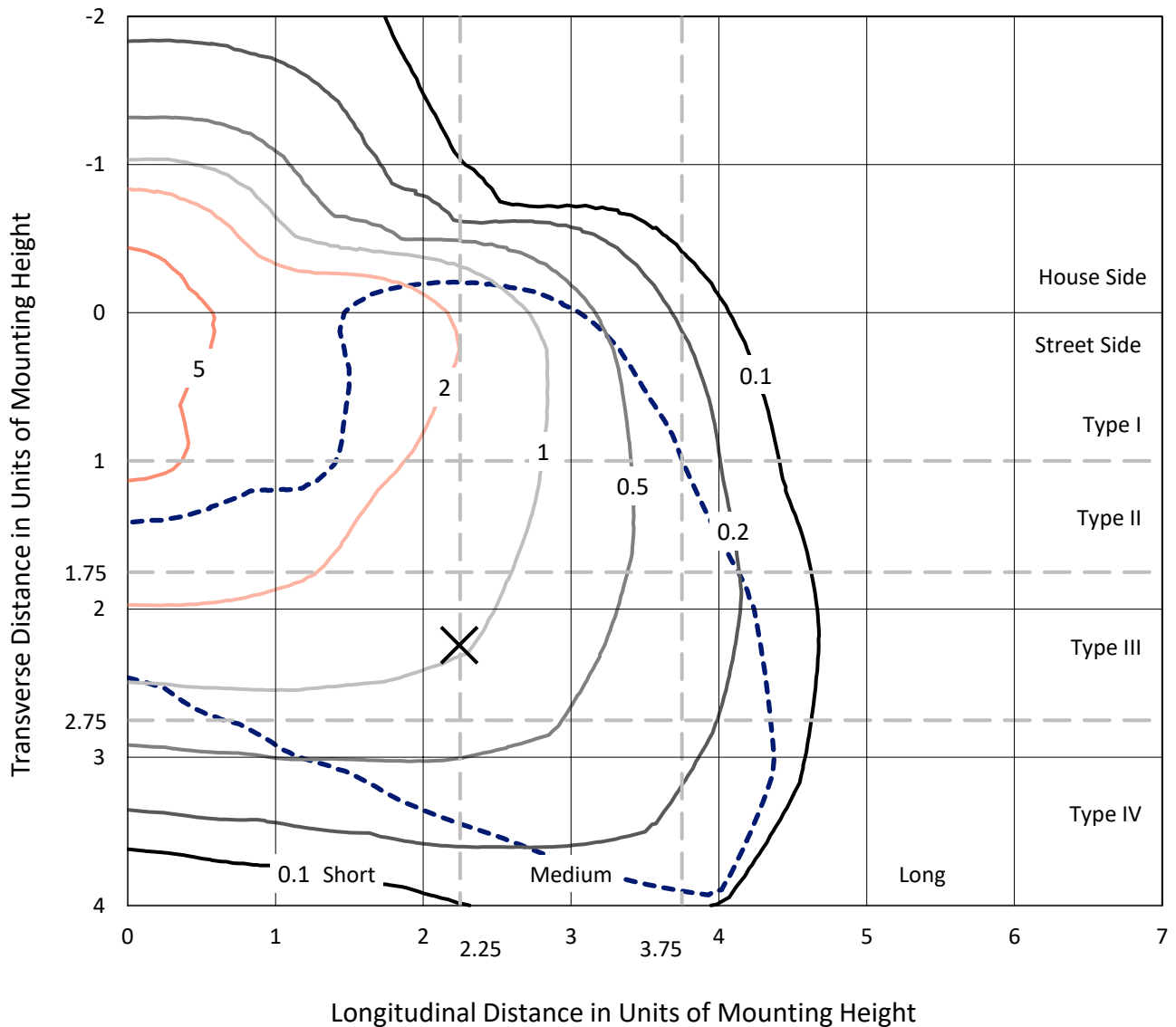
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970346
 CATALOG NUMBER: NVN-SB6B-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

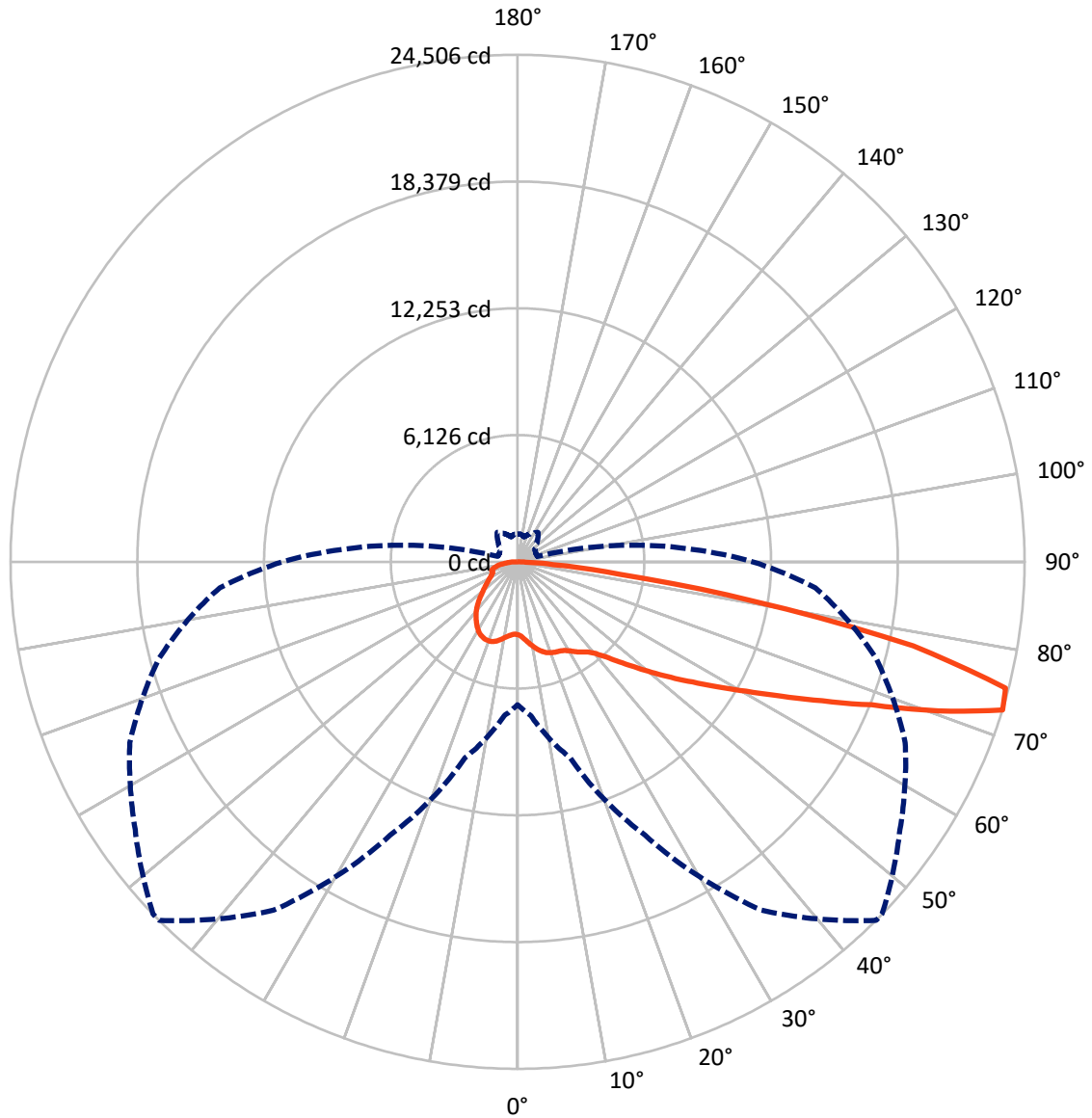
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

REPORT NUMBER: P970346
CATALOG NUMBER: NVN-SB6B-730-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P970346
 CATALOG NUMBER: NVN-SB6B-730-U-T4W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7896.9 | 0.0 | 7896.9 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 27035.1 | 0.0 | 27035.1 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 34932.0 | 0.0 | 34932.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 358.7 | 1.0 |
| 10°-20° | 1195.8 | 3.4 |
| 20°-30° | 2080.2 | 6.0 |
| 30°-40° | 2982.2 | 8.5 |
| 40°-50° | 4199.0 | 12.0 |
| 50°-60° | 6431.7 | 18.4 |
| 60°-70° | 9317.3 | 26.7 |
| 70°-80° | 7440.4 | 21.3 |
| 80°-90° | 926.7 | 2.7 |
| 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° | 34932.0 | 100.0 |
| 0°-180° | 34932.0 | 100.0 |

Coefficient of Utilization

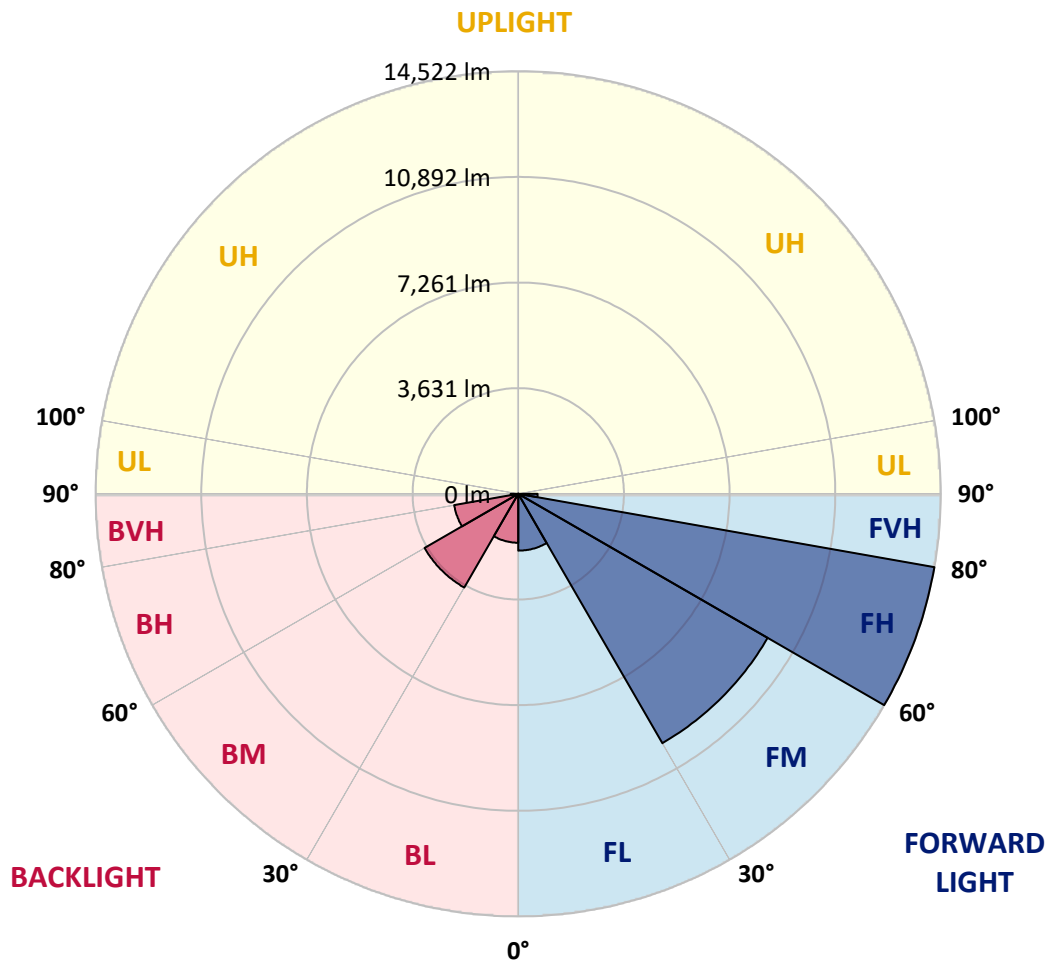


REPORT NUMBER: P970346
 CATALOG NUMBER: NVN-SB6B-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1953.4 | 5.6 | | | |
| FM (30°-60°) | 9894.6 | 28.3 | | | |
| FH (60°-80°) | 14522.3 | 41.6 | | | G5 |
| FVH (80°-90°) | 664.8 | 1.9 | | | G4/750 |
| BL (0°-30°) | 1681.3 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 3718.3 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 2235.4 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 261.9 | 0.7 | | | G3/500 |
| 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 Short



REPORT NUMBER: P970346
 CATALOG NUMBER: NVN-SB6B-730-U-T4W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 |
| 2.5° | 3662.0 | 3685.9 | 3663.9 | 3643.6 | 3634.3 | 3610.5 | 3608.6 | 3593.9 | 3584.7 | 3558.9 | 3551.5 |
| 5° | 3917.8 | 3949.0 | 3912.2 | 3871.7 | 3834.9 | 3776.1 | 3768.7 | 3726.4 | 3678.5 | 3623.4 | 3592.0 |
| 7.5° | 4206.7 | 4234.3 | 4191.9 | 4131.3 | 4066.8 | 3969.3 | 3967.5 | 3890.2 | 3814.7 | 3720.9 | 3667.4 |
| 10° | 4458.8 | 4495.5 | 4438.6 | 4355.7 | 4274.8 | 4164.4 | 4151.5 | 4063.1 | 3967.5 | 3846.0 | 3765.0 |
| 12.5° | 4681.5 | 4707.2 | 4652.0 | 4550.8 | 4456.9 | 4346.5 | 4330.0 | 4232.4 | 4125.7 | 3987.7 | 3884.6 |
| 15° | 4858.1 | 4891.2 | 4817.6 | 4709.1 | 4609.6 | 4501.1 | 4486.4 | 4398.1 | 4291.4 | 4145.9 | 4013.5 |
| 17.5° | 4974.0 | 5001.6 | 4926.2 | 4804.7 | 4709.1 | 4618.9 | 4607.8 | 4534.2 | 4440.4 | 4293.1 | 4151.5 |
| 20° | 5018.2 | 5047.6 | 4968.5 | 4845.2 | 4756.9 | 4686.9 | 4681.5 | 4628.1 | 4563.7 | 4429.3 | 4285.8 |
| 22.5° | 5062.4 | 5089.9 | 4986.9 | 4858.1 | 4780.8 | 4736.6 | 4734.8 | 4699.8 | 4674.1 | 4563.7 | 4423.8 |
| 25° | 5240.8 | 5248.2 | 5110.2 | 4924.3 | 4813.9 | 4775.3 | 4773.4 | 4771.6 | 4782.6 | 4696.1 | 4572.8 |
| 27.5° | 5395.4 | 5393.5 | 5275.8 | 5101.0 | 4929.8 | 4848.9 | 4847.0 | 4865.5 | 4900.4 | 4828.7 | 4727.4 |
| 30° | 5621.8 | 5601.5 | 5461.7 | 5279.5 | 5123.1 | 4997.9 | 4986.9 | 4970.3 | 4997.9 | 4940.9 | 4882.0 |
| 32.5° | 6102.0 | 6037.7 | 5811.3 | 5487.4 | 5283.2 | 5187.5 | 5172.8 | 5069.8 | 5080.7 | 5045.8 | 5016.3 |
| 35° | 6790.3 | 6705.7 | 6403.9 | 5881.2 | 5481.9 | 5345.8 | 5338.4 | 5207.7 | 5185.7 | 5154.3 | 5165.4 |
| 37.5° | 7609.2 | 7504.3 | 7152.8 | 6451.7 | 5824.2 | 5529.8 | 5518.7 | 5400.9 | 5310.7 | 5277.6 | 5340.2 |
| 40° | 8431.8 | 8299.2 | 8008.5 | 7147.3 | 6328.5 | 5837.1 | 5802.1 | 5623.7 | 5520.5 | 5465.4 | 5597.8 |
| 42.5° | 9230.3 | 9119.9 | 8871.6 | 7927.6 | 6950.4 | 6286.1 | 6208.8 | 5903.3 | 5826.0 | 5774.5 | 6013.8 |
| 45° | 9937.0 | 9837.6 | 9655.5 | 8761.1 | 7679.1 | 6897.0 | 6821.6 | 6322.9 | 6298.9 | 6298.9 | 6644.9 |
| 47.5° | 10511.2 | 10489.0 | 10295.8 | 9611.3 | 8538.5 | 7592.6 | 7462.0 | 6906.2 | 6970.6 | 7070.0 | 7541.1 |
| 50° | 11147.9 | 11087.1 | 10881.0 | 10448.5 | 9548.7 | 8389.4 | 8282.7 | 7622.1 | 7863.1 | 8135.4 | 8836.6 |
| 52.5° | 11733.1 | 11766.2 | 11536.2 | 11320.8 | 10689.6 | 9278.2 | 9090.5 | 8466.7 | 8987.5 | 9438.3 | 10354.8 |
| 55° | 12334.7 | 12336.6 | 12272.2 | 12242.8 | 11885.8 | 10260.9 | 10054.7 | 9482.5 | 10310.6 | 10870.0 | 12125.0 |
| 57.5° | 12899.7 | 12903.4 | 12999.0 | 13258.6 | 13273.2 | 11394.4 | 11160.7 | 10730.1 | 11780.8 | 12351.4 | 13950.5 |
| 60° | 13403.9 | 13429.7 | 13691.0 | 14298.2 | 14493.3 | 12693.6 | 12472.8 | 12204.2 | 13300.9 | 13875.0 | 15869.8 |
| 62.5° | 13573.3 | 13667.0 | 14248.5 | 15111.6 | 15698.6 | 14287.2 | 14070.1 | 13910.0 | 14898.2 | 15431.8 | 17474.4 |
| 65° | 13286.2 | 13501.5 | 14625.8 | 15783.3 | 16938.9 | 16180.8 | 15965.5 | 15790.6 | 16558.1 | 17060.4 | 18792.0 |
| 67.5° | 12581.4 | 12859.2 | 14603.7 | 16488.0 | 18444.2 | 18458.9 | 18258.3 | 17848.0 | 18337.5 | 18530.7 | 19220.8 |
| 70° | 10724.6 | 11140.5 | 13317.4 | 16751.3 | 20172.1 | 21574.4 | 21381.1 | 20324.8 | 20113.3 | 19178.5 | 18013.6 |
| 72.5° | 6909.9 | 7469.3 | 9806.4 | 14585.3 | 20556.7 | 24505.8 | 24494.7 | 22560.7 | 20674.5 | 17919.8 | 14447.3 |
| 75° | 2521.1 | 2863.3 | 4556.3 | 9154.9 | 17255.5 | 24356.8 | 24428.5 | 22177.9 | 18872.9 | 13841.9 | 9000.3 |
| 77.5° | 918.3 | 1004.7 | 1486.9 | 3518.4 | 10612.3 | 19542.8 | 19691.9 | 17730.2 | 13433.3 | 6946.7 | 3566.3 |
| 80° | 482.2 | 529.9 | 761.9 | 1365.4 | 4547.1 | 11606.1 | 11839.8 | 10536.9 | 6313.7 | 2092.3 | 1069.2 |
| 82.5° | 266.8 | 288.9 | 426.9 | 741.6 | 2048.2 | 4962.9 | 5102.9 | 4162.5 | 2221.1 | 886.9 | 441.7 |
| 85° | 143.5 | 152.7 | 200.6 | 404.9 | 1001.0 | 1720.6 | 1759.2 | 1243.9 | 885.1 | 520.8 | 213.5 |
| 87.5° | 42.3 | 51.6 | 66.2 | 128.8 | 392.0 | 386.4 | 395.6 | 246.6 | 349.6 | 263.1 | 69.9 |
| 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: P970346
 CATALOG NUMBER: NVN-SB6B-730-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 | 3524.0 |
| 2.5° | 3540.6 | 3535.0 | 3514.7 | 3505.6 | 3494.5 | 3492.7 | 3501.9 | 3503.8 | 3505.6 | 3507.4 | 3514.7 |
| 5° | 3573.7 | 3555.2 | 3536.9 | 3525.8 | 3529.5 | 3531.3 | 3549.7 | 3562.6 | 3571.8 | 3579.2 | 3582.9 |
| 7.5° | 3638.0 | 3623.4 | 3592.0 | 3590.2 | 3595.7 | 3612.3 | 3636.2 | 3665.6 | 3682.2 | 3695.1 | 3698.8 |
| 10° | 3733.8 | 3706.1 | 3669.3 | 3674.8 | 3685.9 | 3709.8 | 3759.5 | 3783.4 | 3811.1 | 3834.9 | 3829.4 |
| 12.5° | 3831.2 | 3807.4 | 3765.0 | 3768.7 | 3787.1 | 3829.4 | 3877.3 | 3906.7 | 3925.1 | 3943.5 | 3950.9 |
| 15° | 3958.2 | 3915.9 | 3869.9 | 3869.9 | 3903.0 | 3949.0 | 3971.2 | 3995.0 | 4006.1 | 4026.3 | 4033.7 |
| 17.5° | 4088.9 | 4033.7 | 3973.0 | 3969.3 | 4009.8 | 4031.8 | 4044.8 | 4048.4 | 4052.1 | 4074.2 | 4081.6 |
| 20° | 4219.5 | 4158.8 | 4072.3 | 4064.9 | 4074.2 | 4070.5 | 4068.6 | 4064.9 | 4070.5 | 4098.1 | 4109.1 |
| 22.5° | 4348.4 | 4278.5 | 4158.8 | 4125.7 | 4099.9 | 4064.9 | 4063.1 | 4061.3 | 4064.9 | 4092.6 | 4111.0 |
| 25° | 4499.2 | 4414.6 | 4254.5 | 4155.1 | 4068.6 | 4020.8 | 4026.3 | 4028.1 | 4031.8 | 4054.0 | 4083.4 |
| 27.5° | 4663.0 | 4569.1 | 4342.8 | 4145.9 | 3989.5 | 3956.4 | 3947.2 | 3952.7 | 3965.6 | 4000.6 | 4035.5 |
| 30° | 4826.8 | 4716.4 | 4423.8 | 4109.1 | 3890.2 | 3844.2 | 3814.7 | 3827.6 | 3868.0 | 3903.0 | 3941.6 |
| 32.5° | 4975.9 | 4865.5 | 4488.2 | 4028.1 | 3763.2 | 3691.4 | 3652.8 | 3669.3 | 3709.8 | 3722.7 | 3768.7 |
| 35° | 5150.7 | 5025.6 | 4515.8 | 3899.4 | 3625.2 | 3514.7 | 3463.3 | 3439.3 | 3459.6 | 3446.7 | 3487.2 |
| 37.5° | 5345.8 | 5215.1 | 4512.2 | 3730.1 | 3463.3 | 3336.3 | 3264.5 | 3174.3 | 3132.0 | 3087.8 | 3115.5 |
| 40° | 5634.6 | 5447.0 | 4468.0 | 3525.8 | 3262.7 | 3146.7 | 3017.9 | 2865.2 | 2769.4 | 2683.0 | 2688.5 |
| 42.5° | 6028.4 | 5769.0 | 4387.0 | 3301.3 | 3036.4 | 2927.7 | 2752.9 | 2574.4 | 2423.5 | 2280.0 | 2267.1 |
| 45° | 6615.5 | 6190.4 | 4285.8 | 3062.1 | 2791.6 | 2684.8 | 2495.3 | 2294.7 | 2123.6 | 1939.6 | 1917.5 |
| 47.5° | 7462.0 | 6757.2 | 4190.1 | 2789.7 | 2533.9 | 2436.4 | 2265.2 | 2079.4 | 1877.0 | 1698.5 | 1678.2 |
| 50° | 8625.0 | 7570.5 | 4101.7 | 2524.8 | 2280.0 | 2206.4 | 2070.2 | 1880.7 | 1676.4 | 1532.9 | 1523.7 |
| 52.5° | 10104.4 | 8676.5 | 4064.9 | 2268.9 | 2042.6 | 2015.0 | 1906.4 | 1729.8 | 1536.6 | 1415.1 | 1405.9 |
| 55° | 11803.0 | 9999.6 | 4064.9 | 2024.2 | 1834.6 | 1843.9 | 1768.4 | 1604.6 | 1437.2 | 1328.6 | 1317.5 |
| 57.5° | 13536.5 | 11339.3 | 3991.3 | 1797.8 | 1658.0 | 1696.7 | 1648.8 | 1505.3 | 1354.3 | 1242.1 | 1223.7 |
| 60° | 15133.7 | 12461.7 | 3693.3 | 1591.7 | 1501.6 | 1562.3 | 1531.0 | 1407.7 | 1223.7 | 1129.9 | 1115.2 |
| 62.5° | 16361.2 | 13094.8 | 3119.1 | 1428.0 | 1372.8 | 1442.7 | 1426.2 | 1278.9 | 1199.8 | 1161.1 | 1148.3 |
| 65° | 16975.7 | 12991.8 | 2384.9 | 1282.6 | 1264.2 | 1372.8 | 1337.8 | 1332.3 | 1269.8 | 1225.6 | 1210.8 |
| 67.5° | 16598.4 | 12104.7 | 1729.8 | 1175.9 | 1201.6 | 1308.4 | 1442.7 | 1464.8 | 1348.9 | 1262.4 | 1247.6 |
| 70° | 14944.2 | 10500.1 | 1288.1 | 1074.7 | 1122.5 | 1310.3 | 1645.1 | 1532.9 | 1323.1 | 1221.9 | 1205.3 |
| 72.5° | 11368.7 | 7830.0 | 999.3 | 967.9 | 1019.5 | 1319.4 | 1735.3 | 1501.6 | 1249.5 | 1350.7 | 1339.7 |
| 75° | 6501.4 | 4298.6 | 802.4 | 837.3 | 890.6 | 1233.0 | 1689.3 | 1420.6 | 1192.5 | 1240.2 | 1240.2 |
| 77.5° | 2478.8 | 1652.5 | 662.5 | 708.5 | 715.9 | 1076.6 | 1615.7 | 1415.1 | 1135.4 | 1107.8 | 1010.2 |
| 80° | 859.4 | 646.0 | 548.4 | 563.1 | 553.9 | 956.9 | 1549.4 | 1231.1 | 929.3 | 831.8 | 804.1 |
| 82.5° | 351.5 | 322.1 | 434.3 | 415.8 | 393.8 | 743.4 | 1251.3 | 1006.6 | 760.0 | 671.7 | 664.3 |
| 85° | 152.7 | 204.3 | 287.1 | 252.2 | 228.2 | 515.3 | 1002.9 | 852.0 | 642.3 | 553.9 | 552.1 |
| 87.5° | 31.3 | 77.3 | 121.5 | 114.1 | 117.8 | 344.1 | 712.2 | 605.5 | 454.5 | 340.4 | 266.8 |
| 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)