

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: P969240

Luminaire Tested: **NVN-SB5D-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5D-727-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47762.9 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

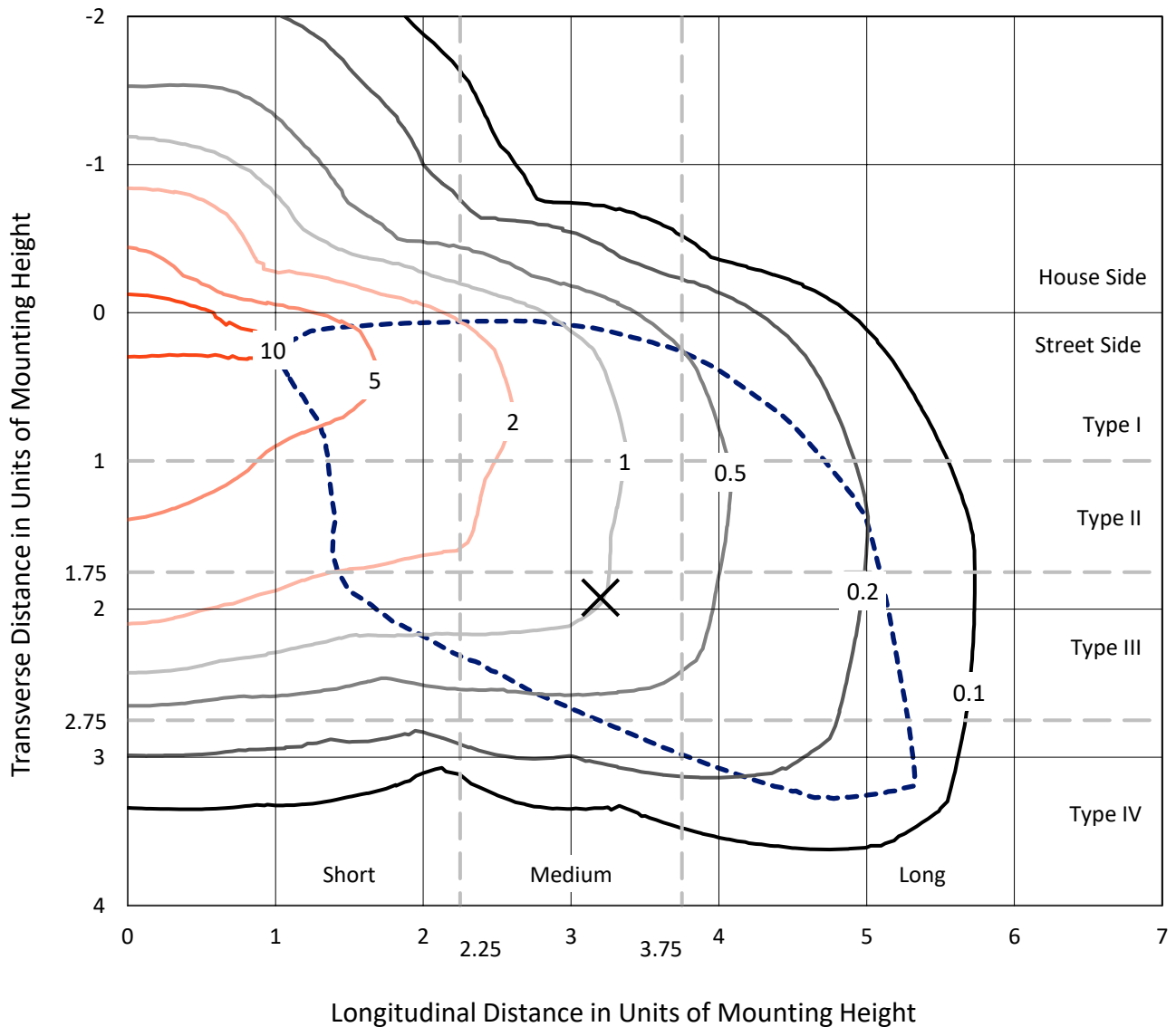
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P969240
 CATALOG NUMBER: NVN-SB5D-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

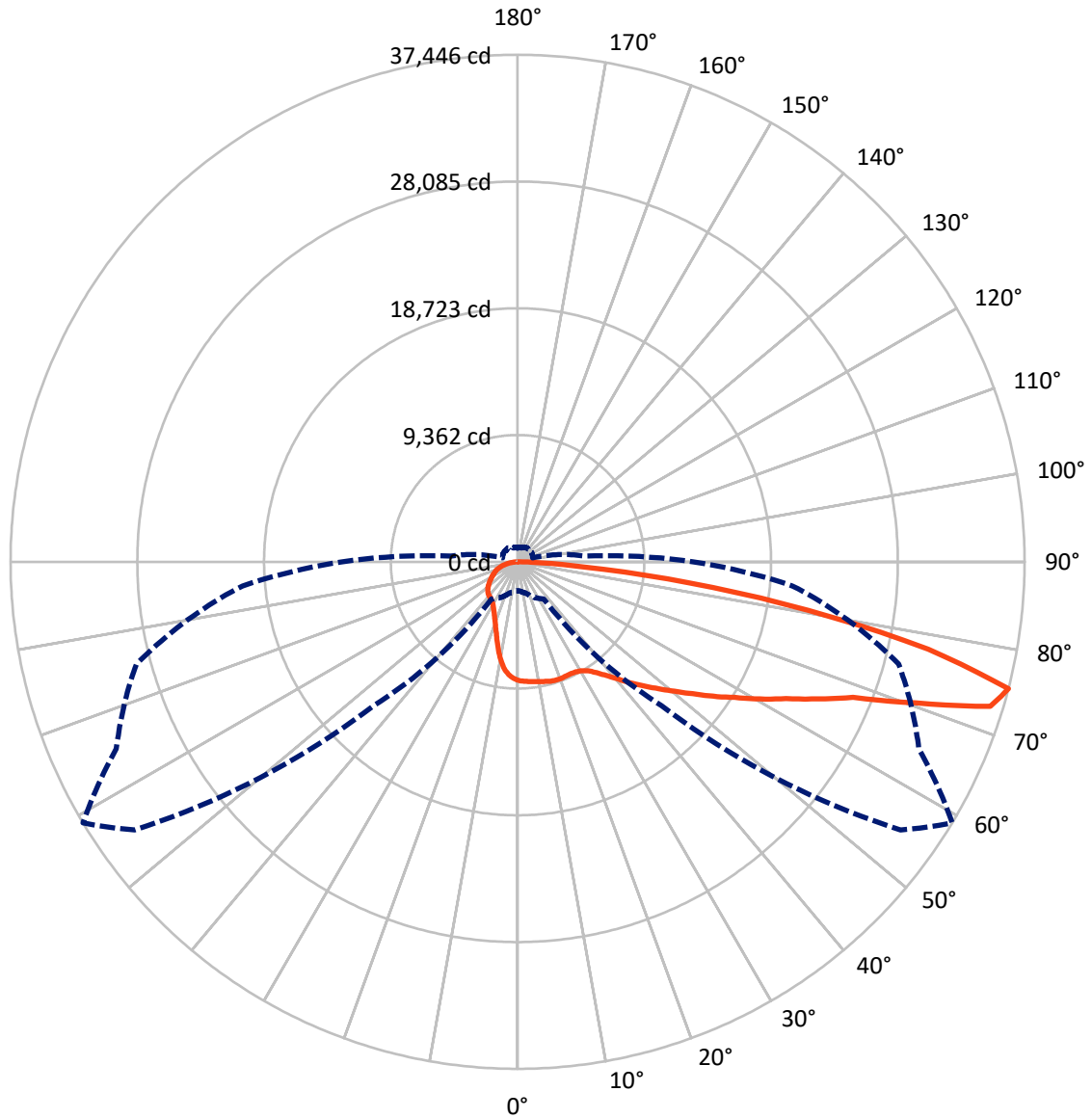
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Medium - N/A

REPORT NUMBER: P969240
CATALOG NUMBER: NVN-SB5D-727-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P969240
 CATALOG NUMBER: NVN-SB5D-727-U-SL3

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8958.3 | 0.0 | 8958.3 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 38804.7 | 0.0 | 38804.7 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 47762.9 | 0.0 | 47762.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 786.1 | 1.6 |
| 10°-20° | 2009.3 | 4.2 |
| 20°-30° | 3051.9 | 6.4 |
| 30°-40° | 4536.6 | 9.5 |
| 40°-50° | 6746.8 | 14.1 |
| 50°-60° | 9157.9 | 19.2 |
| 60°-70° | 11180.3 | 23.4 |
| 70°-80° | 8774.2 | 18.4 |
| 80°-90° | 1519.9 | 3.2 |
| 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° | 47762.9 | 100.0 |
| 0°-180° | 47762.9 | 100.0 |

Coefficient of Utilization

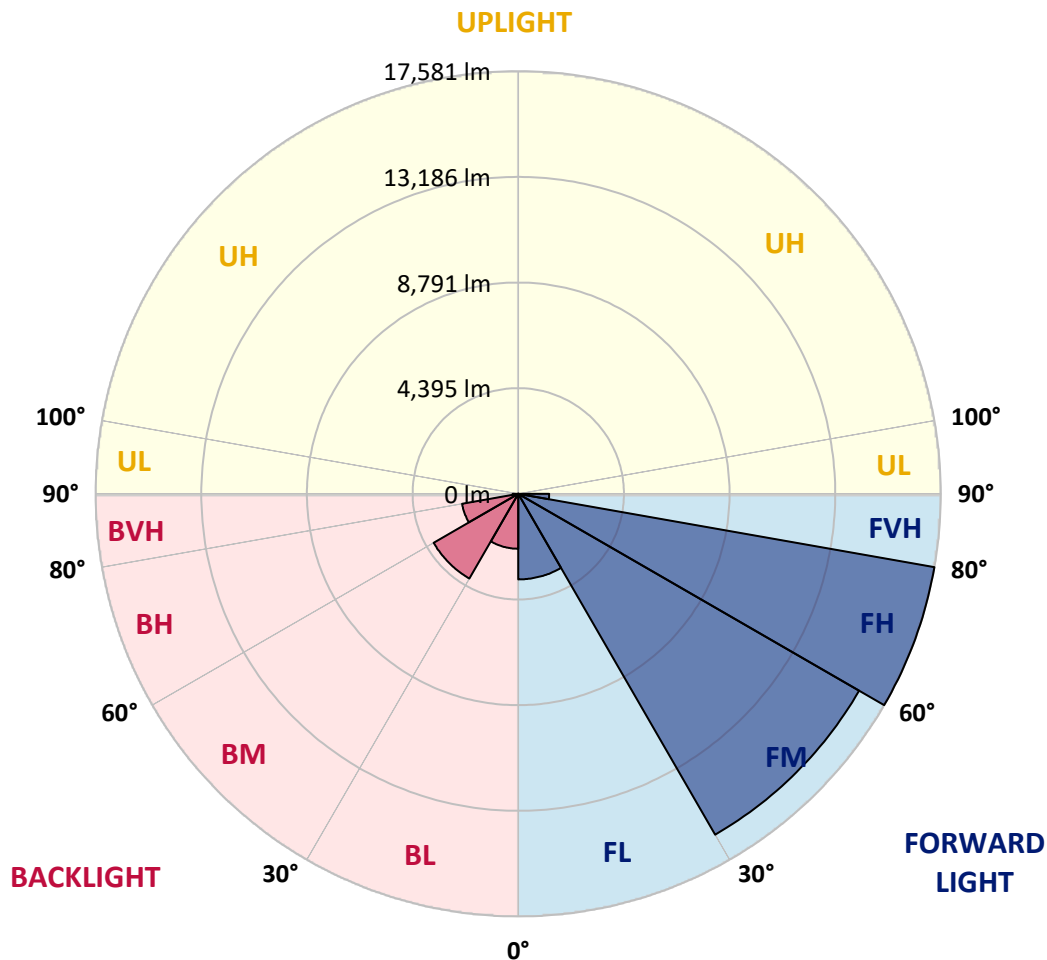


REPORT NUMBER: P969240
 CATALOG NUMBER: NVN-SB5D-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3561.2 | 7.5 | | | |
| FM (30°-60°) | 16375.1 | 34.3 | | | |
| FH (60°-80°) | 17581.1 | 36.8 | | | G5 |
| FVH (80°-90°) | 1287.2 | 2.7 | | | G5 |
| BL (0°-30°) | 2286.1 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 4066.2 | 8.5 | B3/5000 | | |
| BH (60°-80°) | 2373.4 | 5.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 232.7 | 0.5 | | | 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 Medium



REPORT NUMBER: P969240
 CATALOG NUMBER: NVN-SB5D-727-U-SL3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 |
| 2.5° | 8841.3 | 8810.5 | 8841.3 | 8828.4 | 8823.3 | 8813.1 | 8815.6 | 8833.6 | 8823.3 | 8836.1 | 8792.4 |
| 5° | 8782.2 | 8764.3 | 8795.0 | 8787.3 | 8820.7 | 8825.9 | 8859.3 | 8879.9 | 8892.7 | 8895.3 | 8861.8 |
| 7.5° | 8684.5 | 8666.6 | 8710.2 | 8746.2 | 8818.2 | 8838.7 | 8908.1 | 8941.5 | 8959.5 | 8990.3 | 8941.5 |
| 10° | 8327.4 | 8319.7 | 8427.7 | 8563.8 | 8733.4 | 8838.7 | 8944.0 | 9000.6 | 9028.8 | 9111.1 | 9054.5 |
| 12.5° | 7695.4 | 7705.6 | 7847.0 | 8109.0 | 8448.2 | 8787.3 | 8985.2 | 9067.4 | 9111.1 | 9213.8 | 9188.2 |
| 15° | 7091.6 | 7089.0 | 7243.2 | 7523.2 | 7998.5 | 8561.2 | 9005.8 | 9147.1 | 9221.6 | 9373.1 | 9352.6 |
| 17.5° | 6742.1 | 6731.8 | 6839.7 | 7053.0 | 7494.9 | 8214.3 | 8954.4 | 9190.8 | 9350.0 | 9540.2 | 9522.1 |
| 20° | 6677.9 | 6657.3 | 6713.9 | 6819.2 | 7132.7 | 7834.1 | 8820.7 | 9190.8 | 9452.9 | 9699.5 | 9689.2 |
| 22.5° | 6911.7 | 6878.3 | 6855.2 | 6842.3 | 6981.1 | 7520.6 | 8669.1 | 9159.9 | 9604.5 | 9928.2 | 9910.2 |
| 25° | 7381.8 | 7330.5 | 7212.3 | 7096.7 | 7055.6 | 7379.3 | 8535.6 | 9152.2 | 9830.5 | 10236.5 | 10169.6 |
| 27.5° | 8142.4 | 8078.2 | 7839.2 | 7561.7 | 7312.6 | 7451.2 | 8476.4 | 9198.5 | 10079.7 | 10562.8 | 10429.2 |
| 30° | 9085.4 | 9016.0 | 8715.4 | 8288.9 | 7841.8 | 7718.5 | 8551.0 | 9334.6 | 10398.3 | 10997.0 | 10734.9 |
| 32.5° | 9930.7 | 9853.6 | 9596.7 | 9162.5 | 8558.6 | 8180.9 | 8787.3 | 9594.1 | 10899.3 | 11600.8 | 11194.8 |
| 35° | 10681.0 | 10591.0 | 10359.8 | 9959.0 | 9437.4 | 8831.0 | 9213.8 | 10054.0 | 11611.1 | 12582.4 | 11819.3 |
| 37.5° | 11415.8 | 11310.5 | 11058.7 | 10634.8 | 10269.9 | 9696.9 | 9802.3 | 10645.0 | 12556.7 | 13774.6 | 12646.6 |
| 40° | 12238.0 | 12086.5 | 11780.7 | 11361.9 | 11007.3 | 10711.9 | 10575.6 | 11369.6 | 13517.6 | 15105.5 | 13679.4 |
| 42.5° | 13034.5 | 12890.7 | 12525.8 | 12168.7 | 11724.2 | 11639.4 | 11472.3 | 12217.5 | 14568.5 | 16567.5 | 14727.8 |
| 45° | 13892.7 | 13720.5 | 13278.7 | 12826.4 | 12546.4 | 12256.0 | 12340.8 | 13065.4 | 15598.9 | 18057.7 | 15827.5 |
| 47.5° | 14697.0 | 14504.3 | 13982.6 | 13479.1 | 13324.9 | 12775.1 | 13137.3 | 13998.1 | 16670.3 | 19568.5 | 16916.9 |
| 50° | 15131.2 | 14941.0 | 14506.8 | 14052.0 | 13931.3 | 13414.8 | 14000.7 | 15023.2 | 17793.1 | 21074.2 | 17962.6 |
| 52.5° | 15493.5 | 15287.9 | 14720.0 | 14468.3 | 14432.3 | 14111.2 | 15064.4 | 16194.9 | 18915.9 | 22405.2 | 18972.4 |
| 55° | 15878.9 | 15650.2 | 14925.6 | 14699.5 | 14863.9 | 14892.2 | 16326.0 | 17523.3 | 20102.9 | 23702.7 | 19925.7 |
| 57.5° | 16323.3 | 16033.0 | 15123.5 | 14894.8 | 15285.3 | 15806.9 | 17775.1 | 18900.5 | 21269.5 | 24905.1 | 20773.6 |
| 60° | 16742.1 | 16449.3 | 15503.7 | 15205.7 | 15740.1 | 16868.1 | 19437.5 | 20568.1 | 22590.2 | 25976.6 | 21575.2 |
| 62.5° | 16824.5 | 16582.9 | 15806.9 | 15804.4 | 16356.7 | 18106.5 | 21405.7 | 22251.0 | 23743.8 | 27035.2 | 22294.7 |
| 65° | 15400.9 | 15249.3 | 14789.4 | 15781.2 | 17240.7 | 19889.7 | 23597.3 | 24404.1 | 25210.9 | 27960.2 | 22926.7 |
| 67.5° | 11721.6 | 11742.2 | 11708.8 | 13623.0 | 16526.4 | 22451.4 | 26770.5 | 26708.8 | 27022.4 | 28998.2 | 23653.8 |
| 70° | 5359.7 | 5480.6 | 6266.7 | 9404.0 | 13240.1 | 22746.9 | 32017.2 | 31218.2 | 29296.2 | 30342.0 | 24283.4 |
| 72.5° | 2895.7 | 2988.2 | 3309.4 | 4555.5 | 7959.9 | 20223.8 | 35938.1 | 36506.0 | 32320.4 | 31246.4 | 23592.2 |
| 75° | 2124.9 | 2176.3 | 2399.8 | 2895.7 | 3342.8 | 15031.0 | 34532.7 | 37446.4 | 32698.1 | 29137.0 | 20372.8 |
| 77.5° | 1590.5 | 1613.6 | 1796.0 | 2294.5 | 1711.2 | 7924.1 | 27592.8 | 31012.6 | 27991.0 | 23939.1 | 15048.9 |
| 80° | 1153.6 | 1179.4 | 1315.5 | 1721.5 | 1199.9 | 2898.3 | 18946.7 | 21767.9 | 19170.3 | 15259.7 | 7500.0 |
| 82.5° | 796.5 | 806.8 | 865.9 | 1171.7 | 837.6 | 1125.3 | 10750.4 | 12764.7 | 10701.5 | 5354.6 | 2024.7 |
| 85° | 480.5 | 493.3 | 519.1 | 683.5 | 475.3 | 534.4 | 4640.4 | 4799.7 | 3198.9 | 1279.6 | 629.5 |
| 87.5° | 197.8 | 210.7 | 231.2 | 287.8 | 187.6 | 149.0 | 765.7 | 960.9 | 598.7 | 375.2 | 195.3 |
| 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: P969240
 CATALOG NUMBER: NVN-SB5D-727-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 | 8766.8 |
| 2.5° | 8779.6 | 8761.6 | 8712.8 | 8646.0 | 8584.4 | 8507.3 | 8473.9 | 8445.6 | 8420.0 | 8371.1 | 8348.0 |
| 5° | 8833.6 | 8784.8 | 8653.8 | 8484.1 | 8291.4 | 8080.8 | 7875.2 | 7733.9 | 7613.1 | 7523.2 | 7448.7 |
| 7.5° | 8915.8 | 8823.3 | 8584.4 | 8237.5 | 7795.5 | 7343.3 | 6934.8 | 6644.5 | 6426.0 | 6346.4 | 6207.7 |
| 10° | 9000.6 | 8890.1 | 8473.9 | 7862.4 | 7099.3 | 6403.0 | 5860.7 | 5562.8 | 5388.0 | 5331.5 | 5244.1 |
| 12.5° | 9100.8 | 8938.9 | 8301.7 | 7340.7 | 6320.8 | 5557.7 | 5084.8 | 4910.2 | 4820.2 | 4789.3 | 4797.1 |
| 15° | 9247.2 | 8980.0 | 8042.3 | 6688.1 | 5578.2 | 4940.9 | 4635.2 | 4514.4 | 4468.2 | 4465.6 | 4475.9 |
| 17.5° | 9357.7 | 8987.7 | 7638.8 | 5989.3 | 5007.7 | 4568.4 | 4316.6 | 4270.4 | 4301.2 | 4347.4 | 4365.4 |
| 20° | 9481.0 | 8918.4 | 7109.5 | 5352.0 | 4607.0 | 4242.1 | 4136.7 | 4167.5 | 4242.1 | 4308.9 | 4332.0 |
| 22.5° | 9568.5 | 8792.4 | 6469.7 | 4856.1 | 4260.1 | 4054.5 | 4049.4 | 4113.6 | 4154.7 | 4188.2 | 4206.1 |
| 25° | 9645.6 | 8579.2 | 5791.5 | 4439.9 | 3974.8 | 3941.4 | 3998.0 | 3977.4 | 3949.1 | 3977.4 | 3995.4 |
| 27.5° | 9702.0 | 8242.6 | 5185.1 | 4075.1 | 3774.5 | 3864.4 | 3830.9 | 3784.7 | 3782.1 | 3797.5 | 3823.2 |
| 30° | 9684.1 | 7793.0 | 4686.6 | 3728.2 | 3633.1 | 3720.4 | 3640.8 | 3633.1 | 3625.4 | 3633.1 | 3661.4 |
| 32.5° | 9684.1 | 7281.7 | 4303.8 | 3489.2 | 3543.2 | 3509.8 | 3502.1 | 3484.1 | 3453.2 | 3450.7 | 3484.1 |
| 35° | 9738.0 | 6770.3 | 3974.8 | 3360.8 | 3468.7 | 3389.1 | 3394.2 | 3350.5 | 3286.3 | 3255.4 | 3286.3 |
| 37.5° | 9848.5 | 6359.3 | 3648.6 | 3299.1 | 3337.6 | 3335.0 | 3314.5 | 3240.0 | 3127.0 | 3029.3 | 3062.7 |
| 40° | 10115.7 | 6238.5 | 3425.0 | 3270.9 | 3276.0 | 3306.9 | 3252.8 | 3108.9 | 2852.1 | 2692.8 | 2713.3 |
| 42.5° | 10534.5 | 6441.5 | 3376.1 | 3201.5 | 3234.9 | 3265.8 | 3160.4 | 2826.3 | 2643.9 | 2548.9 | 2548.9 |
| 45° | 11066.4 | 6796.1 | 3481.5 | 3101.2 | 3137.2 | 3191.2 | 2877.7 | 2718.4 | 2636.2 | 2638.8 | 2651.6 |
| 47.5° | 11739.5 | 7168.6 | 3676.8 | 3013.9 | 2995.9 | 3026.7 | 2690.1 | 2592.5 | 2479.5 | 2507.8 | 2579.7 |
| 50° | 12518.1 | 7546.4 | 3861.8 | 2895.7 | 2839.1 | 2739.0 | 2569.4 | 2476.9 | 2333.0 | 2266.2 | 2284.2 |
| 52.5° | 13360.9 | 7911.2 | 3936.3 | 2751.8 | 2669.6 | 2554.0 | 2487.2 | 2374.1 | 2199.4 | 2089.0 | 2086.4 |
| 55° | 14160.0 | 8242.6 | 3854.1 | 2579.7 | 2500.0 | 2410.1 | 2399.8 | 2330.4 | 2142.9 | 1988.7 | 1988.7 |
| 57.5° | 14915.4 | 8520.1 | 3648.6 | 2405.0 | 2327.9 | 2274.0 | 2343.3 | 2309.8 | 2073.5 | 1875.6 | 1865.4 |
| 60° | 15555.1 | 8710.2 | 3350.5 | 2227.6 | 2173.7 | 2145.4 | 2250.8 | 2240.5 | 1975.9 | 1754.9 | 1747.2 |
| 62.5° | 16063.9 | 8784.8 | 3021.6 | 2058.1 | 2045.3 | 1993.8 | 2122.4 | 2122.4 | 1852.6 | 1636.7 | 1629.0 |
| 65° | 16462.1 | 8712.8 | 2687.5 | 1891.1 | 1916.7 | 1839.7 | 1965.5 | 1950.2 | 1721.5 | 1531.4 | 1521.1 |
| 67.5° | 16814.1 | 8476.4 | 2317.6 | 1726.6 | 1785.8 | 1688.1 | 1801.1 | 1765.2 | 1577.6 | 1426.0 | 1415.7 |
| 70° | 16970.8 | 7926.6 | 1896.2 | 1562.2 | 1634.2 | 1539.0 | 1636.7 | 1569.9 | 1415.7 | 1312.9 | 1292.4 |
| 72.5° | 15711.8 | 6588.0 | 1492.8 | 1390.0 | 1451.7 | 1374.6 | 1459.4 | 1382.3 | 1241.1 | 1194.7 | 1156.2 |
| 75° | 12998.5 | 4943.5 | 1148.5 | 1202.4 | 1248.8 | 1189.6 | 1246.2 | 1189.6 | 1061.2 | 1094.6 | 999.5 |
| 77.5° | 9439.9 | 3337.6 | 878.7 | 1004.6 | 1025.2 | 994.4 | 1043.1 | 979.0 | 863.4 | 855.6 | 817.0 |
| 80° | 4694.3 | 1955.3 | 688.6 | 794.0 | 786.3 | 765.7 | 822.3 | 791.4 | 693.7 | 734.8 | 727.1 |
| 82.5° | 1359.3 | 837.6 | 501.0 | 557.6 | 542.1 | 547.2 | 588.3 | 603.8 | 904.5 | 896.7 | 917.3 |
| 85° | 426.5 | 328.9 | 300.6 | 310.9 | 295.5 | 303.2 | 346.9 | 688.6 | 637.2 | 372.6 | 403.4 |
| 87.5° | 110.5 | 113.1 | 74.5 | 79.6 | 82.2 | 97.7 | 110.5 | 418.8 | 200.4 | 131.0 | 138.8 |
| 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)