

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: P884758

Luminaire Tested: **NVN-SB5D-722-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5D-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32271 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

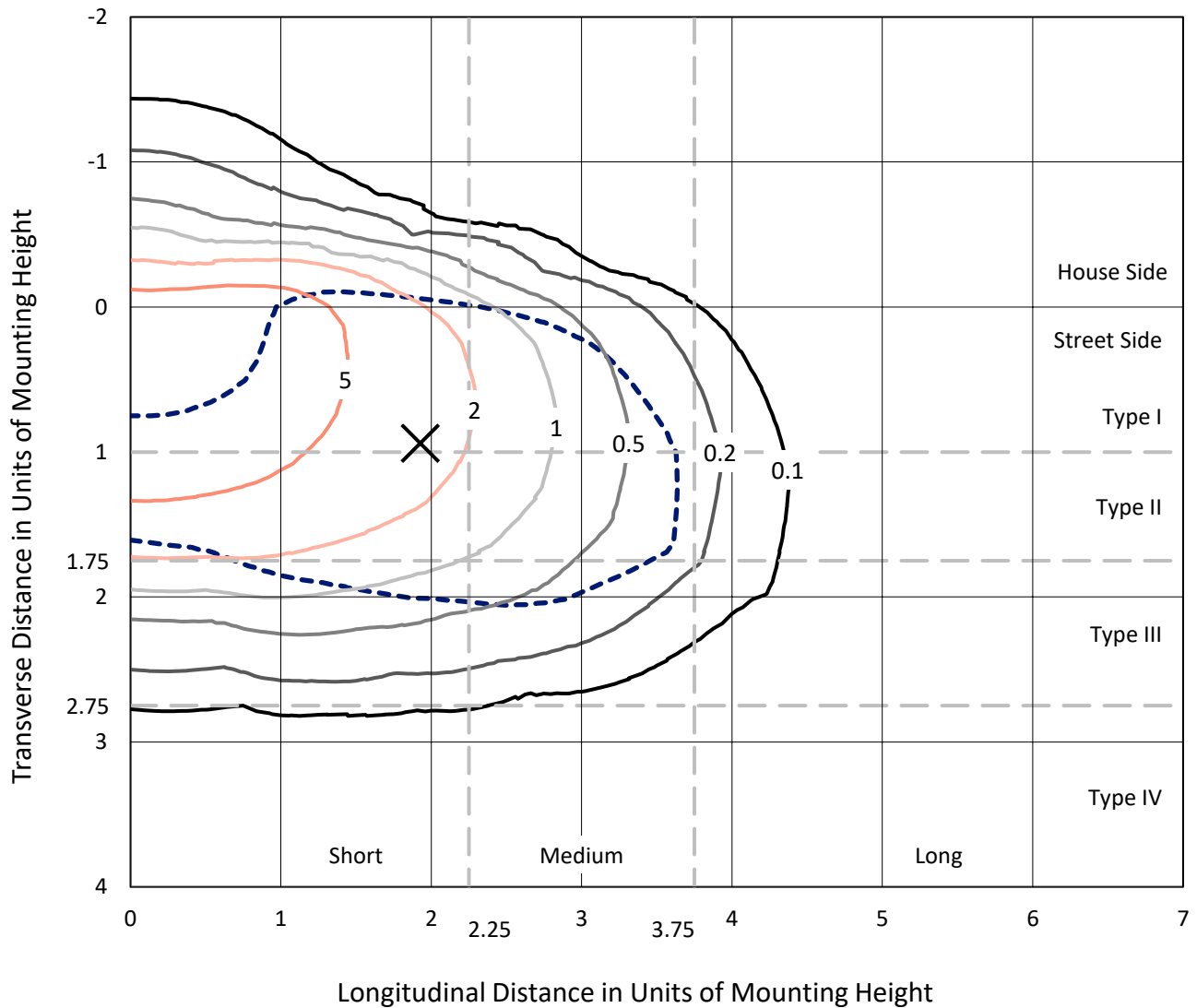


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Iso-Footcandle Lines of Horizontal Illumination

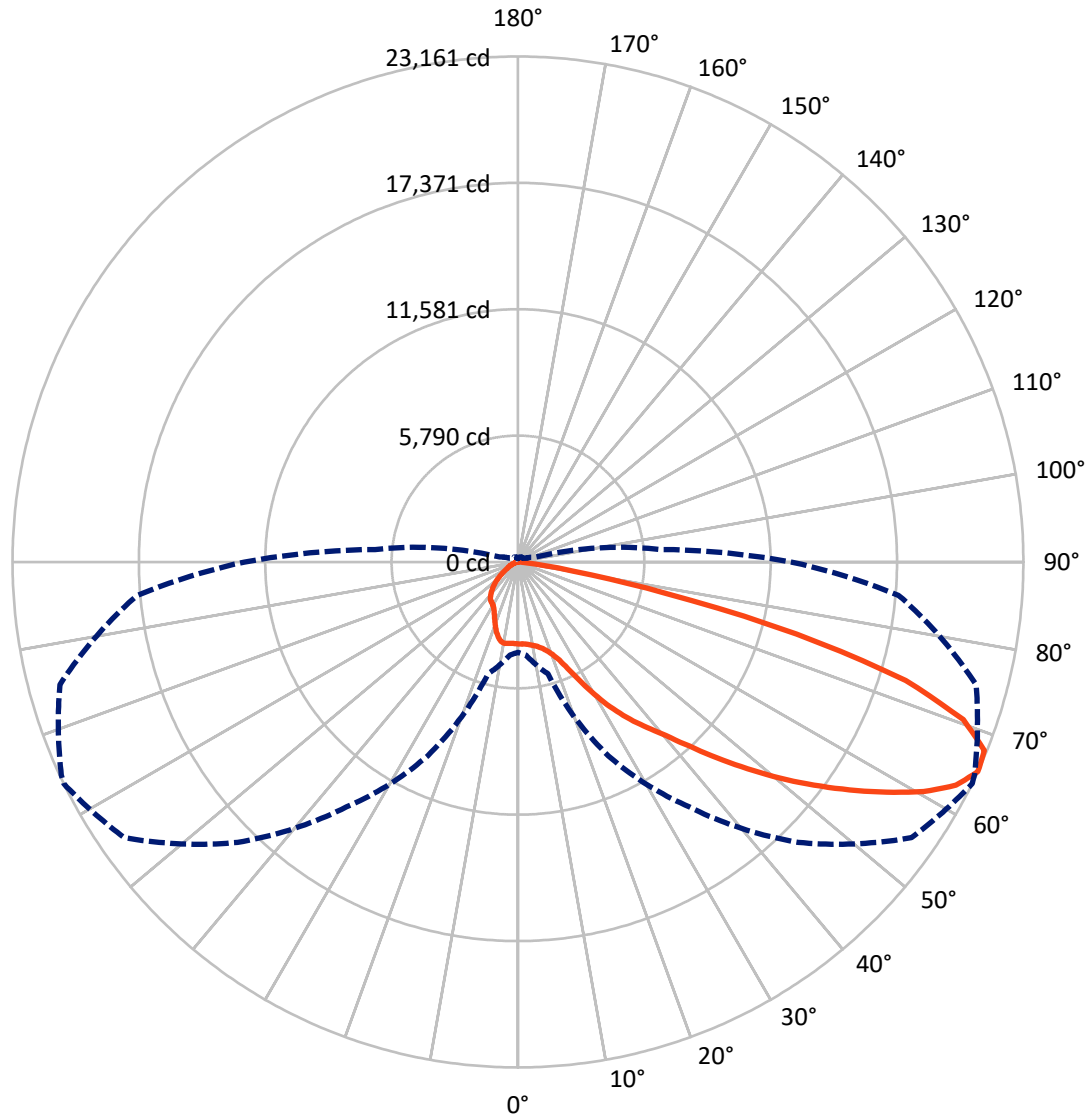
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4315.6 | 0.0 | 4315.6 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 27955.4 | 0.0 | 27955.4 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 32271.0 | 0.0 | 32271.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 346.3 | 1.1 |
| 10°-20° | 939.2 | 2.9 |
| 20°-30° | 1779.8 | 5.5 |
| 30°-40° | 3601.5 | 11.2 |
| 40°-50° | 6135.1 | 19.0 |
| 50°-60° | 8343.3 | 25.9 |
| 60°-70° | 7834.8 | 24.3 |
| 70°-80° | 3138.9 | 9.7 |
| 80°-90° | 152.1 | 0.5 |
| 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° | 32271.0 | 100.0 |
| 0°-180° | 32271.0 | 100.0 |

Coefficient of Utilization



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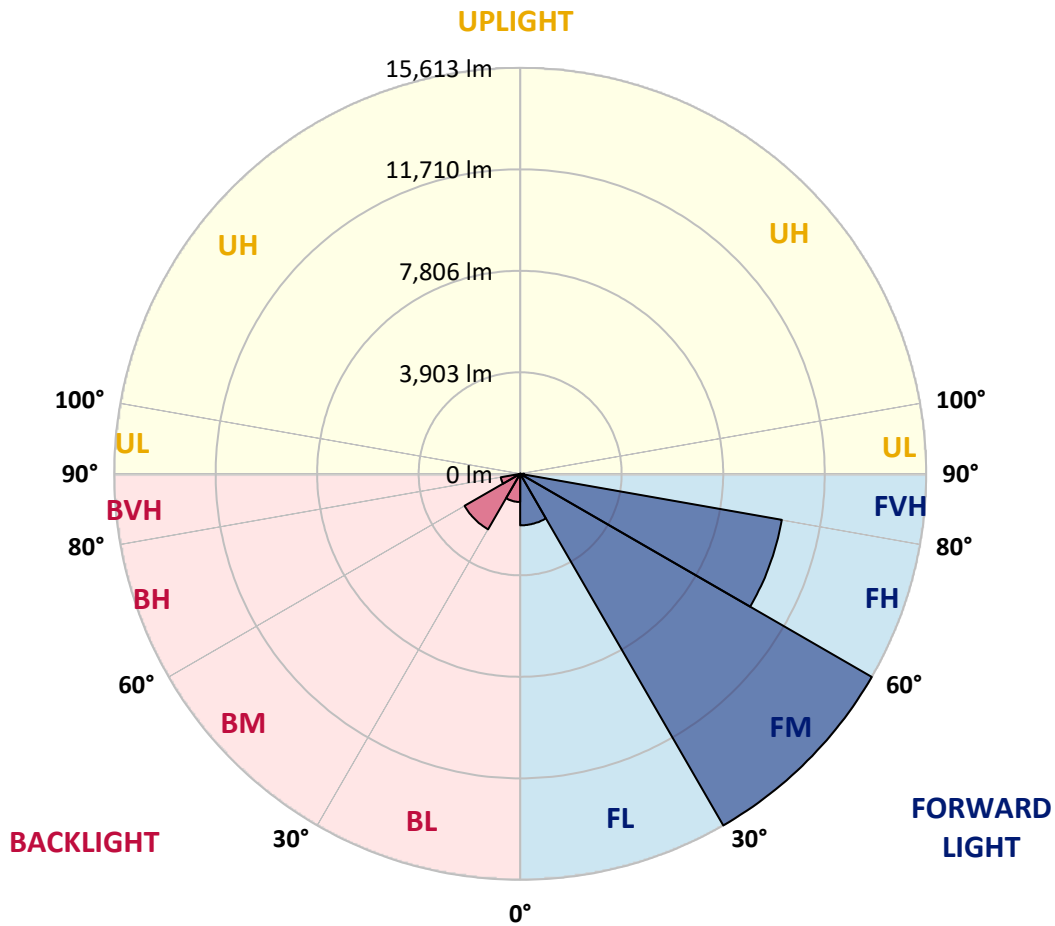
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1981.8 | 6.1 | | | |
| FM (30°-60°) | 15612.7 | 48.4 | | | |
| FH (60°-80°) | 10216.3 | 31.7 | | | G4/12000 |
| FVH (80°-90°) | 144.6 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1083.5 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 2467.2 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 757.5 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.4 | 0.0 | | | G0/10 |
| 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 |
| 2.5° | 3740.5 | 3766.4 | 3759.9 | 3753.5 | 3751.3 | 3755.6 | 3757.8 | 3755.6 | 3755.6 | 3755.6 | 3757.8 |
| 5° | 3669.1 | 3690.7 | 3690.7 | 3705.9 | 3727.5 | 3753.5 | 3772.9 | 3777.2 | 3781.6 | 3788.1 | 3785.9 |
| 7.5° | 3532.8 | 3550.1 | 3563.1 | 3612.8 | 3666.9 | 3736.1 | 3794.6 | 3824.8 | 3829.2 | 3853.0 | 3861.6 |
| 10° | 3439.8 | 3461.4 | 3483.0 | 3535.0 | 3612.8 | 3716.7 | 3816.2 | 3889.7 | 3900.6 | 3956.8 | 3982.8 |
| 12.5° | 3435.4 | 3457.1 | 3485.2 | 3541.4 | 3632.3 | 3742.6 | 3863.8 | 3969.8 | 3989.3 | 4071.5 | 4125.6 |
| 15° | 3480.9 | 3506.8 | 3532.8 | 3602.0 | 3699.4 | 3833.5 | 3963.3 | 4095.3 | 4114.7 | 4231.6 | 4290.0 |
| 17.5° | 3573.9 | 3608.5 | 3628.0 | 3697.2 | 3801.0 | 3950.3 | 4121.2 | 4272.7 | 4290.0 | 4426.3 | 4499.8 |
| 20° | 3757.8 | 3798.9 | 3805.4 | 3861.6 | 3963.3 | 4123.4 | 4326.7 | 4515.0 | 4536.6 | 4692.4 | 4774.6 |
| 22.5° | 4138.5 | 4196.9 | 4145.0 | 4173.1 | 4264.0 | 4424.1 | 4644.8 | 4882.7 | 4913.0 | 5090.4 | 5164.0 |
| 25° | 4809.2 | 4891.4 | 4757.3 | 4709.7 | 4748.6 | 4915.2 | 5192.1 | 5492.8 | 5527.4 | 5670.2 | 5707.0 |
| 27.5° | 6126.7 | 6020.7 | 5817.3 | 5618.3 | 5501.5 | 5596.6 | 5908.2 | 6280.3 | 6323.5 | 6462.0 | 6418.7 |
| 30° | 7574.0 | 7480.9 | 7206.2 | 6764.9 | 6488.0 | 6472.8 | 6760.5 | 7175.9 | 7225.7 | 7357.6 | 7225.7 |
| 32.5° | 9023.4 | 8934.7 | 8636.2 | 8093.2 | 7612.9 | 7374.9 | 7574.0 | 8034.8 | 8060.7 | 8145.1 | 7950.4 |
| 35° | 10449.1 | 10358.2 | 10059.7 | 9503.7 | 8913.1 | 8372.3 | 8333.3 | 8852.5 | 8861.2 | 8949.9 | 8660.0 |
| 37.5° | 11883.4 | 11807.7 | 11489.7 | 10944.5 | 10362.6 | 9616.2 | 9254.9 | 9627.0 | 9637.8 | 9724.4 | 9423.7 |
| 40° | 12906.7 | 12939.1 | 12720.6 | 12298.8 | 11799.0 | 10983.4 | 10289.0 | 10451.3 | 10386.4 | 10531.3 | 10351.7 |
| 42.5° | 13785.0 | 13849.9 | 13659.5 | 13447.5 | 13157.6 | 12439.4 | 11569.7 | 11541.6 | 11437.8 | 11515.6 | 11329.6 |
| 45° | 14544.4 | 14598.4 | 14427.5 | 14377.8 | 14371.3 | 13867.2 | 12969.4 | 12800.7 | 12655.7 | 12640.6 | 12417.8 |
| 47.5° | 14823.4 | 14927.3 | 15000.8 | 15167.4 | 15491.9 | 15279.9 | 14416.7 | 14155.0 | 13992.7 | 13873.7 | 13521.1 |
| 50° | 14929.4 | 15039.8 | 15290.7 | 15775.3 | 16543.3 | 16634.2 | 15857.5 | 15563.3 | 15364.3 | 15147.9 | 14628.7 |
| 52.5° | 14786.7 | 14983.5 | 15321.0 | 16136.6 | 17250.7 | 17720.2 | 17239.9 | 16982.5 | 16755.3 | 16402.7 | 15632.5 |
| 55° | 13945.1 | 14142.0 | 14832.1 | 16132.3 | 17603.4 | 18481.7 | 18546.6 | 18431.9 | 18176.7 | 17620.7 | 16443.8 |
| 57.5° | 12171.1 | 12463.2 | 13555.7 | 15582.8 | 17596.9 | 19137.2 | 19827.3 | 19909.5 | 19624.0 | 18827.8 | 17082.0 |
| 60° | 9713.5 | 10109.4 | 11442.1 | 14364.8 | 17053.9 | 19492.0 | 20950.1 | 21361.1 | 21058.3 | 20017.7 | 17599.0 |
| 62.5° | 6777.8 | 7236.5 | 8497.7 | 12456.7 | 15812.1 | 19236.7 | 21770.0 | 22529.4 | 22300.1 | 21082.1 | 17798.1 |
| 65° | 4134.2 | 4281.3 | 5298.1 | 9802.2 | 13700.6 | 18168.0 | 22023.1 | 23161.1 | 23085.4 | 21733.2 | 17503.9 |
| 67.5° | 2754.0 | 2877.3 | 3169.3 | 6721.6 | 10635.1 | 16032.8 | 21417.4 | 23050.7 | 23072.4 | 21627.2 | 16426.5 |
| 70° | 1659.3 | 1765.3 | 1955.7 | 3909.2 | 6892.5 | 12690.3 | 19541.7 | 21644.5 | 21770.0 | 20210.2 | 14384.3 |
| 72.5° | 683.6 | 755.0 | 928.1 | 1771.8 | 3569.6 | 8054.2 | 15561.1 | 18583.4 | 18875.4 | 16993.3 | 11039.7 |
| 75° | 387.2 | 424.0 | 545.2 | 889.1 | 1549.0 | 3753.5 | 9425.8 | 13192.2 | 13622.8 | 11712.5 | 6641.6 |
| 77.5° | 257.4 | 274.7 | 352.6 | 575.5 | 871.8 | 1280.7 | 4028.2 | 6873.0 | 7695.1 | 6397.1 | 2875.1 |
| 80° | 173.1 | 188.2 | 242.3 | 385.1 | 566.8 | 549.5 | 1282.9 | 2546.3 | 3132.6 | 2198.0 | 700.9 |
| 82.5° | 116.8 | 119.0 | 173.1 | 253.1 | 359.1 | 266.1 | 378.6 | 791.8 | 995.2 | 636.0 | 266.1 |
| 85° | 67.1 | 64.9 | 127.6 | 147.1 | 160.1 | 110.3 | 114.7 | 238.0 | 311.5 | 268.3 | 151.4 |
| 87.5° | 8.7 | 13.0 | 49.8 | 38.9 | 21.6 | 23.8 | 23.8 | 41.1 | 60.6 | 64.9 | 32.5 |
| 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-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 | 3753.5 |
| 2.5° | 3757.8 | 3755.6 | 3749.1 | 3742.6 | 3727.5 | 3718.8 | 3723.2 | 3718.8 | 3716.7 | 3718.8 | 3727.5 |
| 5° | 3785.9 | 3779.4 | 3762.1 | 3740.5 | 3710.2 | 3673.4 | 3649.6 | 3615.0 | 3582.5 | 3563.1 | 3567.4 |
| 7.5° | 3861.6 | 3855.1 | 3831.3 | 3770.8 | 3673.4 | 3519.8 | 3379.2 | 3255.9 | 3162.9 | 3108.8 | 3110.9 |
| 10° | 3982.8 | 3972.0 | 3935.2 | 3801.0 | 3545.8 | 3210.4 | 2931.4 | 2699.9 | 2548.5 | 2477.1 | 2470.6 |
| 12.5° | 4125.6 | 4112.6 | 4047.7 | 3772.9 | 3303.5 | 2779.9 | 2394.9 | 2137.4 | 1996.8 | 1934.1 | 1927.6 |
| 15° | 4294.3 | 4277.0 | 4149.3 | 3638.8 | 2950.8 | 2304.0 | 1951.4 | 1758.8 | 1668.0 | 1611.7 | 1613.9 |
| 17.5° | 4504.1 | 4473.9 | 4225.1 | 3437.6 | 2567.9 | 1940.5 | 1678.8 | 1533.8 | 1453.8 | 1399.7 | 1395.4 |
| 20° | 4776.7 | 4727.0 | 4285.6 | 3197.5 | 2215.3 | 1711.2 | 1494.9 | 1373.7 | 1313.2 | 1265.6 | 1256.9 |
| 22.5° | 5157.5 | 5086.1 | 4359.2 | 2937.9 | 1966.5 | 1553.3 | 1358.6 | 1269.9 | 1220.1 | 1166.1 | 1157.4 |
| 25° | 5629.1 | 5544.7 | 4450.1 | 2697.7 | 1795.6 | 1417.0 | 1259.1 | 1185.5 | 1127.1 | 1064.4 | 1057.9 |
| 27.5° | 6288.9 | 6137.5 | 4558.2 | 2500.9 | 1648.5 | 1300.2 | 1168.2 | 1086.0 | 1018.9 | 967.0 | 956.2 |
| 30° | 7024.5 | 6775.7 | 4653.4 | 2381.9 | 1514.4 | 1192.0 | 1049.2 | 967.0 | 904.3 | 867.5 | 861.0 |
| 32.5° | 7721.1 | 7383.6 | 4716.2 | 2330.0 | 1393.2 | 1068.7 | 919.4 | 830.7 | 783.1 | 772.3 | 778.8 |
| 35° | 8378.7 | 7933.1 | 4709.7 | 2280.2 | 1285.0 | 945.4 | 791.8 | 700.9 | 664.2 | 670.6 | 670.6 |
| 37.5° | 9135.9 | 8519.4 | 4664.2 | 2202.3 | 1196.3 | 832.9 | 681.5 | 601.4 | 569.0 | 571.1 | 579.8 |
| 40° | 10016.4 | 9196.5 | 4636.1 | 2055.2 | 1099.0 | 729.1 | 590.6 | 525.7 | 501.9 | 493.2 | 491.1 |
| 42.5° | 10955.3 | 9852.0 | 4640.4 | 1888.6 | 977.8 | 636.0 | 527.9 | 473.8 | 452.1 | 445.7 | 443.5 |
| 45° | 11898.6 | 10477.2 | 4646.9 | 1715.6 | 850.2 | 564.6 | 482.4 | 437.0 | 424.0 | 415.4 | 415.4 |
| 47.5° | 12785.5 | 11009.4 | 4525.8 | 1529.5 | 724.7 | 510.6 | 445.7 | 415.4 | 404.6 | 393.7 | 393.7 |
| 50° | 13611.9 | 11364.2 | 4233.7 | 1313.2 | 625.2 | 467.3 | 417.5 | 395.9 | 385.1 | 374.3 | 374.3 |
| 52.5° | 14254.5 | 11420.4 | 3751.3 | 1090.3 | 556.0 | 434.8 | 400.2 | 380.8 | 367.8 | 357.0 | 354.8 |
| 55° | 14540.0 | 11067.8 | 3065.5 | 882.7 | 501.9 | 406.7 | 382.9 | 363.4 | 348.3 | 337.5 | 335.3 |
| 57.5° | 14466.5 | 10325.8 | 2390.5 | 709.6 | 450.0 | 378.6 | 361.3 | 348.3 | 331.0 | 313.7 | 311.5 |
| 60° | 14105.2 | 9332.8 | 1802.1 | 590.6 | 402.4 | 348.3 | 337.5 | 326.7 | 302.9 | 276.9 | 272.6 |
| 62.5° | 13480.0 | 8084.5 | 1285.0 | 488.9 | 350.5 | 313.7 | 309.4 | 300.7 | 266.1 | 218.5 | 214.2 |
| 65° | 12523.8 | 6568.0 | 865.3 | 406.7 | 300.7 | 274.7 | 276.9 | 261.8 | 216.3 | 162.3 | 157.9 |
| 67.5° | 11126.2 | 4802.7 | 553.8 | 333.2 | 251.0 | 229.3 | 231.5 | 222.8 | 183.9 | 138.5 | 132.0 |
| 70° | 9345.8 | 3180.2 | 361.3 | 253.1 | 201.2 | 177.4 | 190.4 | 192.5 | 155.8 | 112.5 | 108.2 |
| 72.5° | 6851.4 | 1877.8 | 253.1 | 188.2 | 147.1 | 123.3 | 155.8 | 160.1 | 125.5 | 84.4 | 80.0 |
| 75° | 3904.9 | 891.3 | 190.4 | 136.3 | 90.9 | 86.5 | 121.1 | 121.1 | 86.5 | 56.2 | 51.9 |
| 77.5° | 1639.8 | 372.1 | 134.1 | 88.7 | 51.9 | 49.8 | 82.2 | 75.7 | 43.3 | 26.0 | 26.0 |
| 80° | 473.8 | 166.6 | 71.4 | 43.3 | 21.6 | 19.5 | 32.5 | 23.8 | 10.8 | 4.3 | 4.3 |
| 82.5° | 186.1 | 73.6 | 28.1 | 17.3 | 8.7 | 8.7 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 110.3 | 30.3 | 13.0 | 6.5 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 28.1 | 6.5 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)