

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: P971429

Luminaire Tested: **NVN-SB6D-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6D-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62515.8 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

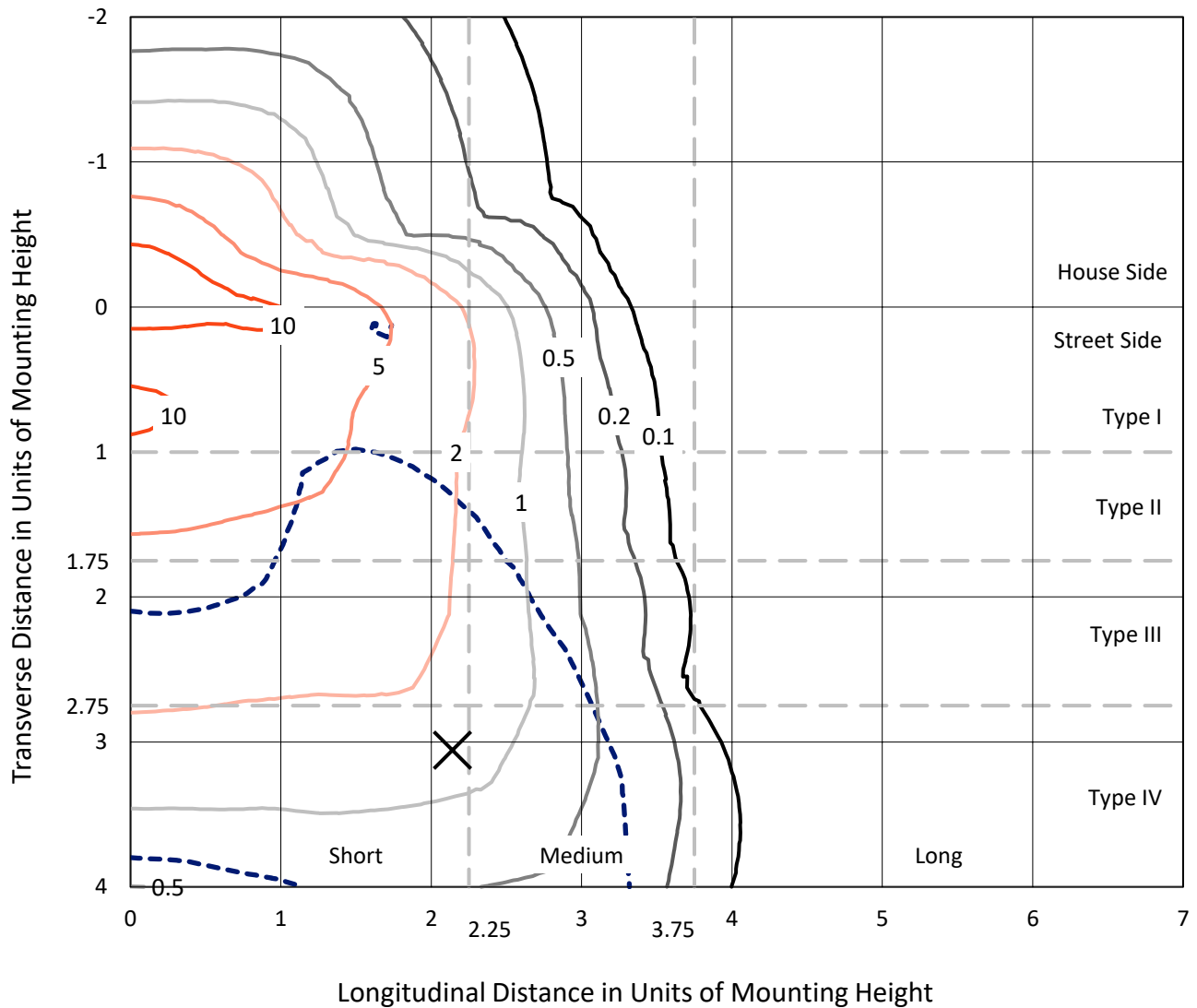
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

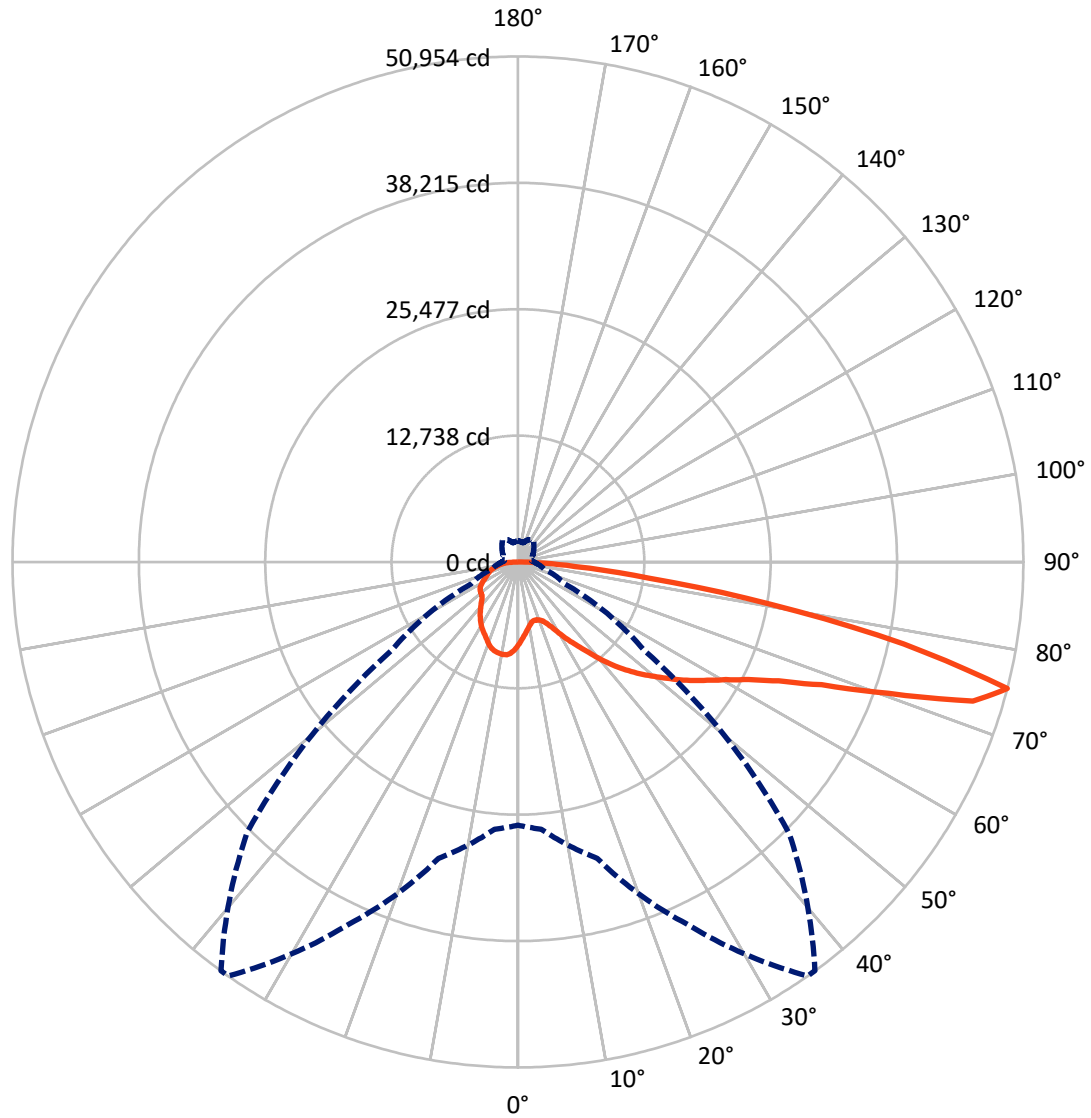
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14877.2 | 0.0 | 14877.2 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 47638.6 | 0.0 | 47638.6 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 62515.8 | 0.0 | 62515.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 788.7 | 1.3 |
| 10°-20° | 2275.1 | 3.6 |
| 20°-30° | 3820.5 | 6.1 |
| 30°-40° | 5937.5 | 9.5 |
| 40°-50° | 8812.9 | 14.1 |
| 50°-60° | 12166.7 | 19.5 |
| 60°-70° | 14761.0 | 23.6 |
| 70°-80° | 12198.8 | 19.5 |
| 80°-90° | 1754.6 | 2.8 |
| 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° | 62515.8 | 100.0 |
| 0°-180° | 62515.8 | 100.0 |

Coefficient of Utilization



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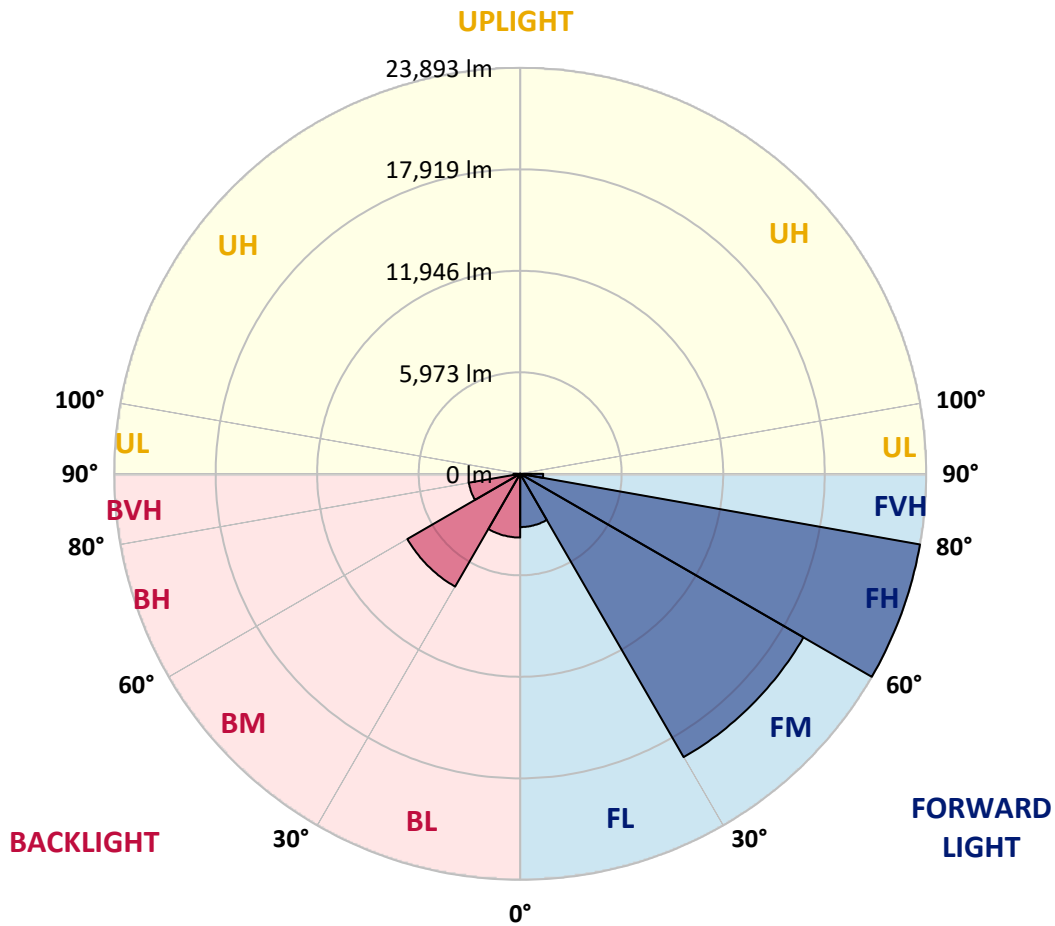
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3135.0 | 5.0 | | | |
| FM (30°-60°) | 19251.5 | 30.8 | | | |
| FH (60°-80°) | 23892.6 | 38.2 | | | G5 |
| FVH (80°-90°) | 1359.5 | 2.2 | | | G5 |
| BL (0°-30°) | 3749.2 | 6.0 | B4/5000 | | |
| BM (30°-60°) | 7665.6 | 12.3 | B4/8500 | | |
| BH (60°-80°) | 3067.2 | 4.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 395.1 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 |
| 2.5° | 7681.8 | 7729.1 | 7749.4 | 7739.3 | 7789.9 | 7783.1 | 7854.2 | 7942.0 | 8063.7 | 8182.0 | 8354.3 |
| 5° | 7090.3 | 7141.1 | 7184.9 | 7225.5 | 7323.5 | 7354.0 | 7465.5 | 7634.5 | 7857.5 | 8084.0 | 8367.8 |
| 7.5° | 6539.5 | 6583.4 | 6651.0 | 6725.3 | 6891.0 | 6921.4 | 7107.2 | 7370.9 | 7681.8 | 8012.9 | 8405.0 |
| 10° | 6090.0 | 6133.9 | 6204.9 | 6289.4 | 6495.5 | 6532.7 | 6769.3 | 7120.8 | 7526.3 | 7945.4 | 8445.6 |
| 12.5° | 5897.3 | 5910.9 | 5951.5 | 6035.9 | 6215.1 | 6238.7 | 6498.9 | 6901.1 | 7374.3 | 7894.7 | 8506.4 |
| 15° | 5887.2 | 5914.2 | 5917.6 | 5961.6 | 6110.2 | 6120.4 | 6360.3 | 6759.2 | 7279.7 | 7884.5 | 8597.6 |
| 17.5° | 5988.6 | 6008.9 | 5978.5 | 6005.5 | 6130.5 | 6147.4 | 6336.7 | 6691.5 | 7249.2 | 7928.5 | 8753.1 |
| 20° | 6259.0 | 6275.9 | 6184.6 | 6147.4 | 6238.7 | 6252.2 | 6438.1 | 6735.5 | 7279.7 | 8019.7 | 8966.0 |
| 22.5° | 6833.5 | 6843.6 | 6620.6 | 6468.5 | 6475.2 | 6482.0 | 6644.3 | 6914.6 | 7397.9 | 8185.3 | 9236.4 |
| 25° | 7729.1 | 7722.4 | 7367.5 | 7073.4 | 6904.5 | 6867.3 | 6975.4 | 7205.2 | 7597.3 | 8405.0 | 9584.5 |
| 27.5° | 8776.8 | 8726.0 | 8371.2 | 7931.9 | 7563.5 | 7509.5 | 7485.8 | 7583.8 | 7881.1 | 8695.7 | 10010.3 |
| 30° | 9959.6 | 9912.3 | 9530.3 | 8955.8 | 8445.6 | 8357.6 | 8134.6 | 8084.0 | 8303.6 | 9091.0 | 10601.7 |
| 32.5° | 11257.4 | 11226.9 | 10770.7 | 10074.5 | 9391.9 | 9290.5 | 8915.3 | 8780.2 | 8952.5 | 9689.2 | 11426.3 |
| 35° | 12345.6 | 12318.6 | 11940.0 | 11223.5 | 10388.8 | 10263.7 | 9881.9 | 9729.8 | 9817.7 | 10456.4 | 12504.4 |
| 37.5° | 13329.0 | 13315.6 | 12991.1 | 12426.7 | 11564.9 | 11412.9 | 10983.6 | 10933.0 | 10916.0 | 11466.9 | 13812.3 |
| 40° | 14241.6 | 14207.7 | 13869.8 | 13572.3 | 12933.7 | 12795.1 | 12416.5 | 12372.6 | 12244.2 | 12710.6 | 15292.6 |
| 42.5° | 15252.0 | 15164.2 | 14674.1 | 14535.5 | 14363.2 | 14248.3 | 14021.9 | 14028.7 | 13744.7 | 14113.1 | 16860.7 |
| 45° | 16076.6 | 16026.0 | 15522.4 | 15441.3 | 15627.1 | 15579.8 | 15775.9 | 15826.5 | 15275.7 | 15583.2 | 18489.7 |
| 47.5° | 16962.1 | 16914.8 | 16489.0 | 16431.5 | 16935.0 | 16948.6 | 17641.4 | 17658.3 | 16769.4 | 17110.7 | 20122.0 |
| 50° | 18053.7 | 17986.1 | 17563.7 | 17634.6 | 18199.0 | 18249.7 | 19517.0 | 19402.1 | 18145.0 | 18662.0 | 21740.8 |
| 52.5° | 18773.5 | 18814.1 | 18722.9 | 18837.8 | 19608.2 | 19655.6 | 21362.3 | 21068.3 | 19506.9 | 20192.9 | 23329.2 |
| 55° | 19304.1 | 19385.2 | 19669.1 | 19932.8 | 21095.3 | 21142.6 | 23102.8 | 22653.3 | 20635.7 | 21612.3 | 24822.9 |
| 57.5° | 19986.8 | 19871.9 | 20402.5 | 20916.1 | 22508.0 | 22633.0 | 24796.0 | 24180.9 | 21636.0 | 22835.8 | 25847.0 |
| 60° | 20966.9 | 20885.8 | 21298.1 | 22058.5 | 24089.7 | 24289.0 | 26587.1 | 25556.3 | 22369.4 | 23805.7 | 26046.4 |
| 62.5° | 22954.1 | 22751.3 | 22815.5 | 23488.1 | 26083.6 | 26347.1 | 28608.1 | 26756.1 | 22734.4 | 24184.3 | 24978.4 |
| 65° | 25924.7 | 25576.6 | 25252.2 | 25718.6 | 28892.0 | 29152.2 | 30889.3 | 27699.0 | 22599.2 | 23450.9 | 22143.0 |
| 67.5° | 29665.9 | 29321.2 | 28922.4 | 29361.7 | 33028.6 | 33234.7 | 33704.5 | 28229.6 | 21534.6 | 20625.6 | 17131.0 |
| 70° | 32751.4 | 32623.0 | 33099.5 | 34907.6 | 39635.6 | 39642.4 | 37313.9 | 27790.2 | 18618.1 | 14623.4 | 9912.3 |
| 72.5° | 32342.5 | 32264.7 | 34775.8 | 40365.6 | 47962.9 | 47783.8 | 40730.6 | 24464.7 | 12541.6 | 6596.9 | 3714.2 |
| 75° | 26533.0 | 27036.6 | 30926.5 | 40267.6 | 50953.9 | 50930.2 | 38638.7 | 15552.8 | 5187.6 | 2734.1 | 1919.6 |
| 77.5° | 14228.0 | 15025.6 | 20078.0 | 29730.1 | 39777.6 | 40375.8 | 27165.1 | 5441.1 | 2227.1 | 1750.6 | 1328.2 |
| 80° | 4640.2 | 5336.4 | 8002.8 | 15137.1 | 25847.0 | 25735.5 | 11642.7 | 2135.9 | 1524.2 | 1240.4 | 919.2 |
| 82.5° | 1970.3 | 2051.4 | 3575.6 | 7147.8 | 13264.8 | 13058.7 | 3707.4 | 1226.8 | 1071.3 | 848.3 | 567.7 |
| 85° | 770.5 | 861.8 | 1578.3 | 3305.2 | 5745.2 | 5620.3 | 1338.3 | 608.3 | 686.0 | 554.2 | 337.9 |
| 87.5° | 253.5 | 307.5 | 564.4 | 1132.1 | 1787.8 | 1723.5 | 327.8 | 209.5 | 297.4 | 253.5 | 121.7 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 | 8330.7 |
| 2.5° | 8401.6 | 8455.7 | 8519.9 | 8614.5 | 8695.7 | 8763.2 | 8834.2 | 8878.1 | 8895.1 | 8945.7 | 8942.3 |
| 5° | 8462.5 | 8580.8 | 8739.6 | 8895.1 | 9047.2 | 9138.4 | 9219.5 | 9260.1 | 9297.2 | 9324.2 | 9331.0 |
| 7.5° | 8563.9 | 8715.9 | 8966.0 | 9168.8 | 9297.2 | 9371.6 | 9425.6 | 9412.1 | 9425.6 | 9432.4 | 9442.5 |
| 10° | 8651.7 | 8864.6 | 9162.1 | 9354.7 | 9452.7 | 9456.0 | 9442.5 | 9395.3 | 9371.6 | 9375.0 | 9381.7 |
| 12.5° | 8756.5 | 8993.0 | 9314.1 | 9476.3 | 9503.4 | 9429.0 | 9371.6 | 9290.5 | 9260.1 | 9246.5 | 9239.8 |
| 15° | 8898.4 | 9168.8 | 9479.7 | 9540.5 | 9472.9 | 9378.3 | 9280.3 | 9148.5 | 9080.9 | 9026.9 | 9043.8 |
| 17.5° | 9070.7 | 9368.2 | 9608.1 | 9564.2 | 9418.8 | 9263.4 | 9104.6 | 8905.2 | 8766.6 | 8709.1 | 8712.5 |
| 20° | 9310.7 | 9577.7 | 9706.1 | 9513.5 | 9293.8 | 9057.2 | 8786.9 | 8543.6 | 8415.1 | 8357.6 | 8350.9 |
| 22.5° | 9601.4 | 9858.2 | 9800.7 | 9425.6 | 9114.7 | 8736.2 | 8398.2 | 8219.2 | 8154.9 | 8114.3 | 8121.1 |
| 25° | 9949.5 | 10169.1 | 9868.4 | 9297.2 | 8820.6 | 8310.4 | 8050.1 | 7992.6 | 7962.3 | 7931.9 | 7931.9 |
| 27.5° | 10402.3 | 10520.6 | 9919.0 | 9107.9 | 8361.0 | 7857.5 | 7762.8 | 7773.0 | 7762.8 | 7712.2 | 7722.4 |
| 30° | 11000.5 | 10976.8 | 9966.4 | 8800.4 | 7833.9 | 7448.6 | 7455.3 | 7499.3 | 7506.1 | 7472.2 | 7489.2 |
| 32.5° | 11787.9 | 11548.0 | 9990.1 | 8401.6 | 7330.3 | 7090.3 | 7097.1 | 7144.5 | 7178.2 | 7120.8 | 7147.8 |
| 35° | 12741.0 | 12213.8 | 9952.9 | 7901.4 | 6941.6 | 6749.0 | 6698.3 | 6711.8 | 6722.0 | 6667.9 | 6705.0 |
| 37.5° | 13852.9 | 12960.7 | 9787.2 | 7347.2 | 6620.6 | 6414.4 | 6306.3 | 6215.1 | 6161.0 | 6110.2 | 6144.1 |
| 40° | 15072.9 | 13775.2 | 9483.1 | 6806.5 | 6262.3 | 6059.6 | 5897.3 | 5725.0 | 5542.5 | 5474.9 | 5505.3 |
| 42.5° | 16350.4 | 14613.3 | 9114.7 | 6289.4 | 5850.1 | 5684.4 | 5512.0 | 5262.0 | 4988.3 | 4849.7 | 4866.6 |
| 45° | 17675.2 | 15471.7 | 8753.1 | 5779.1 | 5427.6 | 5356.6 | 5157.2 | 4856.4 | 4559.0 | 4383.3 | 4369.8 |
| 47.5° | 18973.0 | 16282.7 | 8222.6 | 5265.4 | 5032.1 | 5109.9 | 4954.4 | 4677.3 | 4346.1 | 4069.0 | 4038.6 |
| 50° | 20213.2 | 17043.2 | 7354.0 | 4744.9 | 4711.1 | 5035.5 | 4886.9 | 4488.1 | 4109.5 | 3754.7 | 3724.3 |
| 52.5° | 21443.4 | 17658.3 | 6242.0 | 4271.8 | 4538.8 | 5015.3 | 4798.9 | 4359.6 | 3896.6 | 3524.9 | 3484.4 |
| 55° | 22487.7 | 17975.9 | 5170.7 | 3866.2 | 4288.7 | 4842.9 | 4694.2 | 4207.5 | 3595.9 | 3200.5 | 3166.6 |
| 57.5° | 23082.5 | 17719.1 | 4278.6 | 3467.5 | 3944.0 | 4559.0 | 4515.1 | 3883.1 | 3237.7 | 2933.4 | 2893.0 |
| 60° | 22825.6 | 16678.2 | 3548.6 | 3119.4 | 3616.1 | 4251.5 | 4204.1 | 3562.1 | 2963.9 | 2676.6 | 2636.1 |
| 62.5° | 21409.6 | 14694.4 | 2970.7 | 2815.2 | 3318.7 | 3937.2 | 3893.3 | 3315.4 | 2754.4 | 2477.2 | 2433.2 |
| 65° | 18557.2 | 11953.6 | 2521.2 | 2561.7 | 3018.0 | 3558.7 | 3622.9 | 3109.2 | 2588.7 | 2318.3 | 2274.5 |
| 67.5° | 14153.6 | 8658.5 | 2169.7 | 2342.0 | 2723.9 | 3186.9 | 3372.9 | 2960.5 | 2450.2 | 2193.3 | 2152.8 |
| 70° | 8067.1 | 4917.2 | 1872.3 | 2129.1 | 2463.7 | 2842.2 | 3180.2 | 2842.2 | 2301.5 | 2088.5 | 2061.6 |
| 72.5° | 3058.5 | 2257.6 | 1618.8 | 1916.2 | 2213.6 | 2551.5 | 2967.3 | 2656.4 | 2129.1 | 1970.3 | 1943.3 |
| 75° | 1632.3 | 1375.4 | 1361.9 | 1666.1 | 1926.4 | 2267.7 | 2700.3 | 2473.8 | 2000.7 | 2081.8 | 2149.4 |
| 77.5° | 1111.9 | 973.3 | 1138.9 | 1426.2 | 1612.0 | 1953.4 | 2416.4 | 2196.7 | 1733.7 | 1726.9 | 1591.8 |
| 80° | 770.5 | 689.4 | 926.0 | 1149.0 | 1247.0 | 1642.5 | 2108.8 | 1885.8 | 1412.7 | 1318.0 | 1260.5 |
| 82.5° | 463.0 | 449.5 | 692.8 | 858.4 | 882.1 | 1267.3 | 1747.2 | 1581.7 | 1155.8 | 1007.1 | 1013.8 |
| 85° | 253.5 | 267.0 | 442.7 | 503.6 | 513.7 | 885.5 | 1368.7 | 1223.4 | 888.8 | 746.9 | 753.7 |
| 87.5° | 70.9 | 91.2 | 162.3 | 199.4 | 246.7 | 459.6 | 814.5 | 726.6 | 446.1 | 310.9 | 310.9 |
| 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)