

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: P969991

Luminaire Tested: **NVN-SB6A-830-U-T1**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P969991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6A-830-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 24784.5 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 170.9  
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



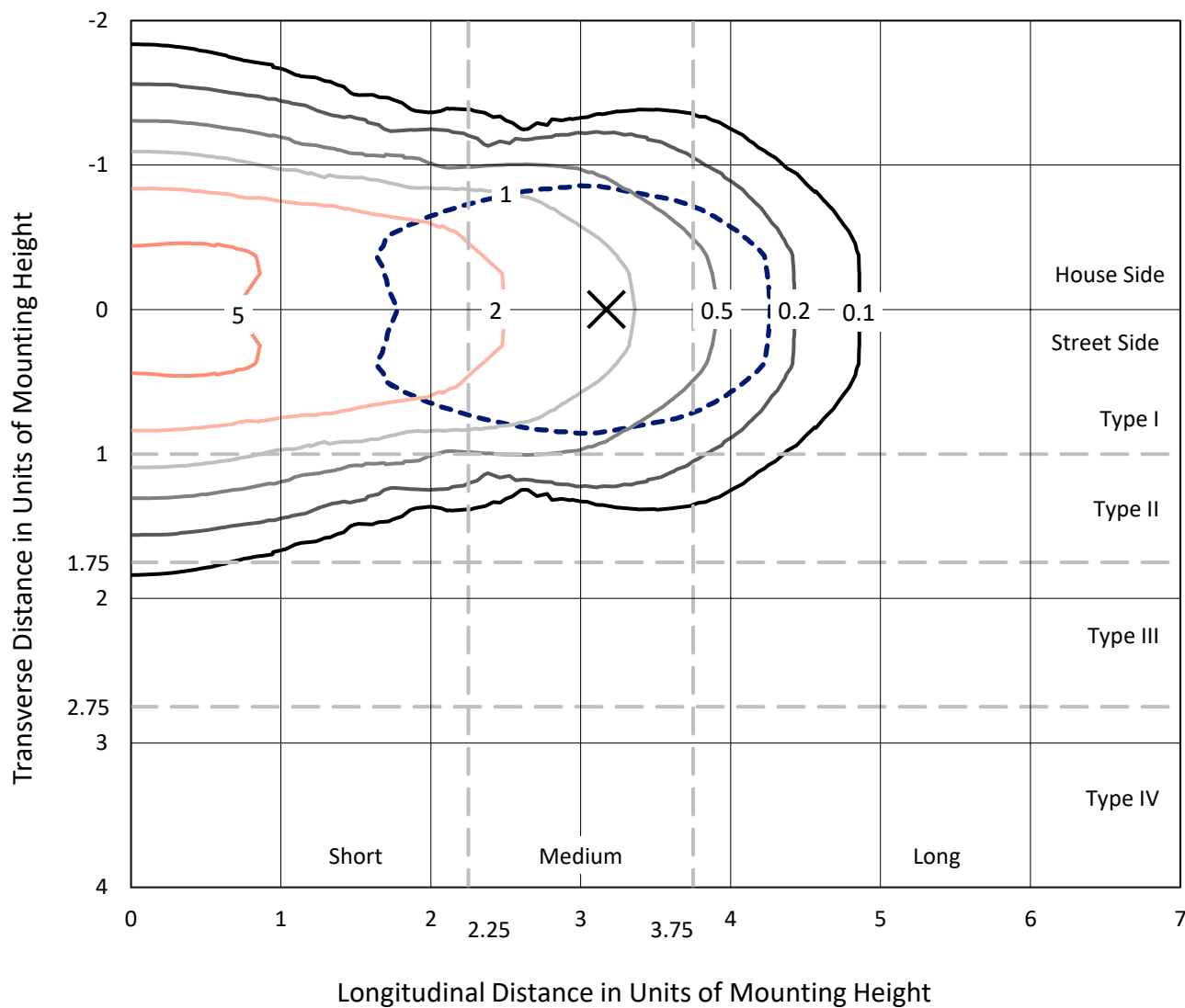
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

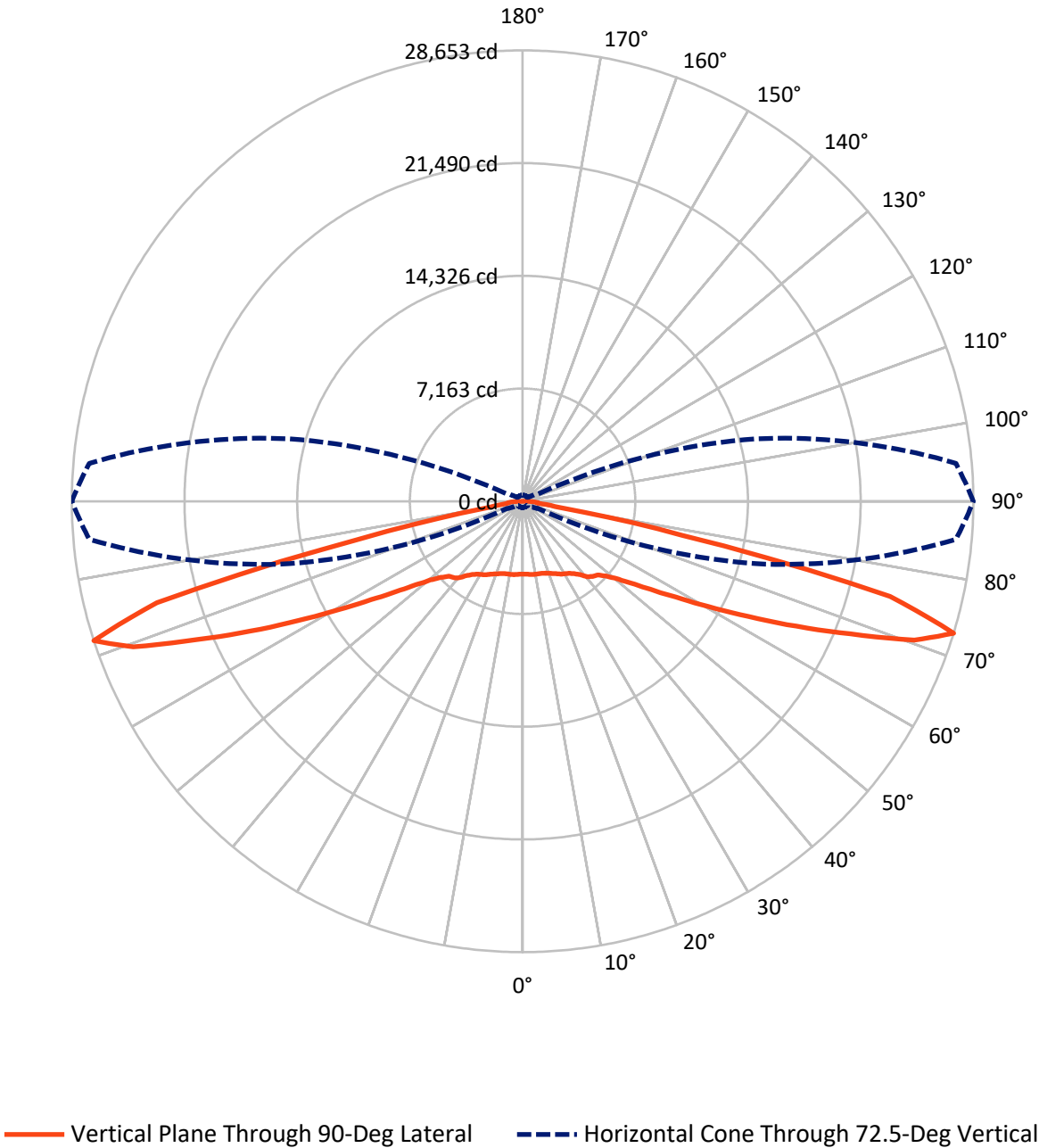
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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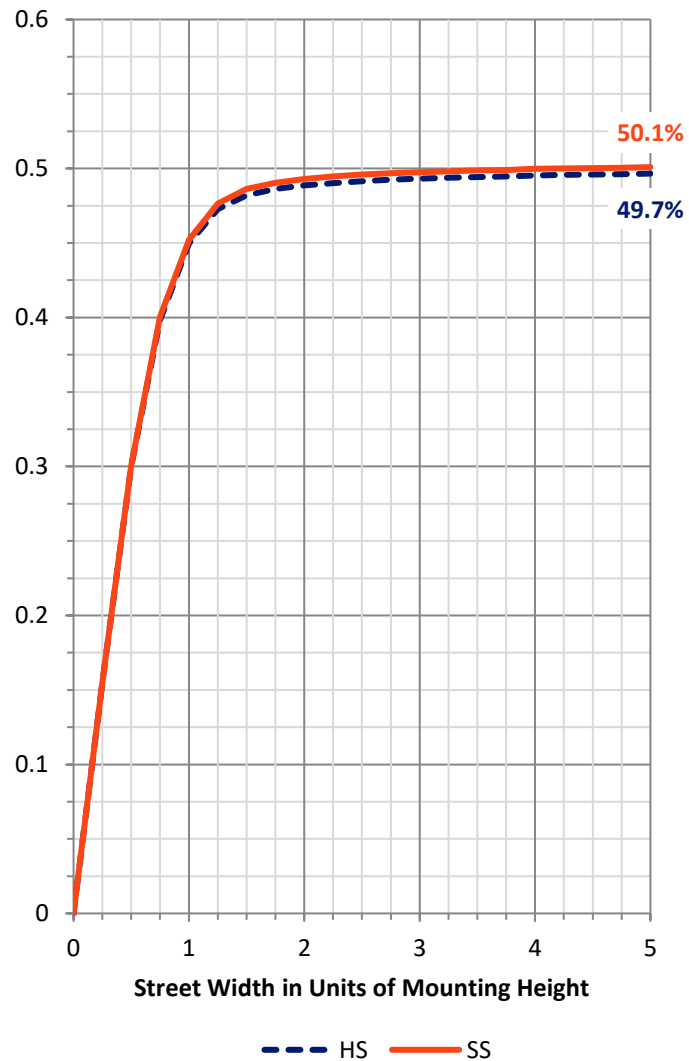
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12392.3  | 0.0    | 12392.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12392.3  | 0.0    | 12392.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 24784.5  | 0.0    | 24784.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 449.1   | 1.8       |
| 10°-20°   | 1373.0  | 5.5       |
| 20°-30°   | 2289.4  | 9.2       |
| 30°-40°   | 3148.6  | 12.7      |
| 40°-50°   | 3845.4  | 15.5      |
| 50°-60°   | 4447.6  | 17.9      |
| 60°-70°   | 5303.0  | 21.4      |
| 70°-80°   | 3701.1  | 14.9      |
| 80°-90°   | 227.3   | 0.9       |
| 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°    | 24784.5 | 100.0     |
| 0°-180°   | 24784.5 | 100.0     |

**Coefficient of Utilization**



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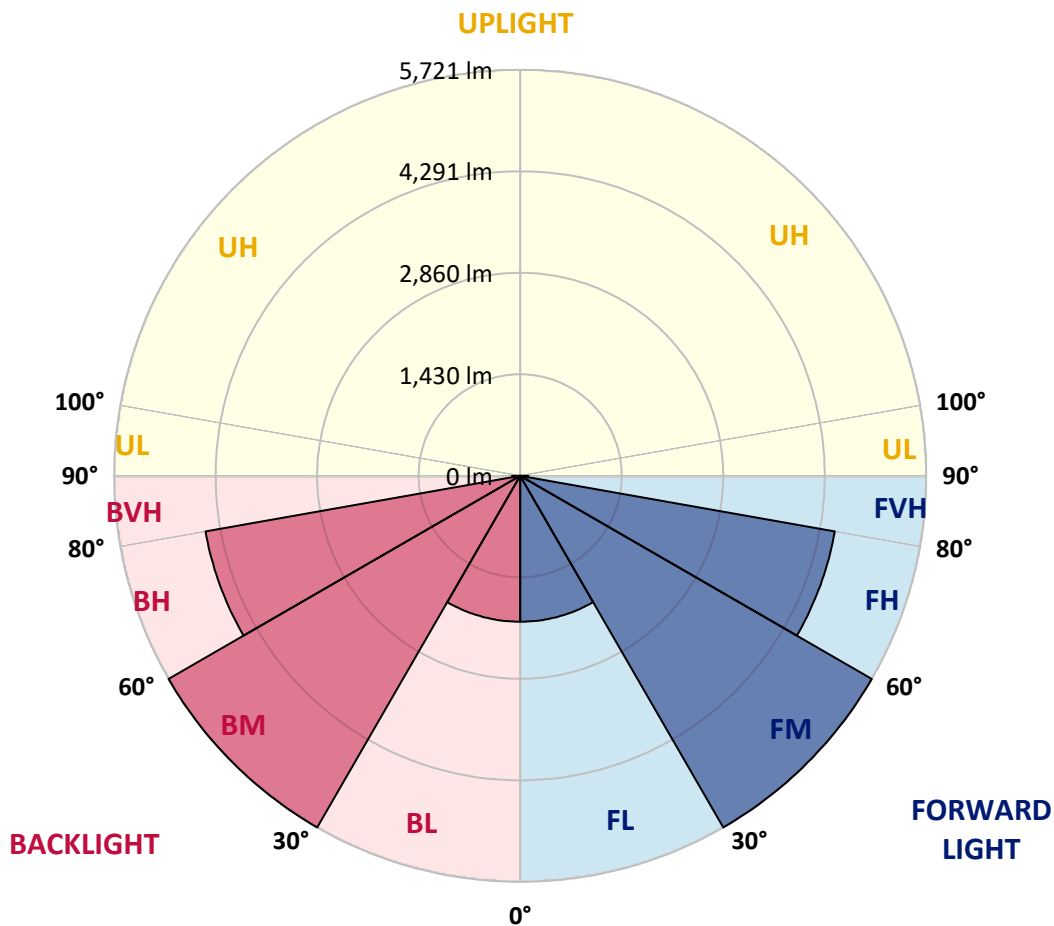
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2055.7 | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 5720.8 | 23.1      |                         |      |         |
| FH   | (60°-80°)   | 4502.1 | 18.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 113.7  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2055.7 | 8.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5720.8 | 23.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4502.1 | 18.2      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 113.7  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 4631.3 | 4631.3 | 4631.3 | 4631.3 | 4631.3 | 4631.3 | 4631.3 | 4631.3 | 4631.3  | 4631.3  | 4631.3  |
| 2.5°  | 4635.2 | 4640.5 | 4640.5 | 4636.5 | 4645.7 | 4637.8 | 4637.8 | 4633.9 | 4637.8  | 4633.9  | 4633.9  |
| 5°    | 4658.9 | 4665.5 | 4668.2 | 4666.8 | 4678.7 | 4672.1 | 4672.1 | 4666.8 | 4668.2  | 4664.2  | 4664.2  |
| 7.5°  | 4703.7 | 4713.0 | 4718.2 | 4724.7 | 4741.9 | 4734.0 | 4728.7 | 4713.0 | 4706.3  | 4695.8  | 4695.8  |
| 10°   | 4718.2 | 4728.7 | 4745.9 | 4780.1 | 4819.7 | 4820.9 | 4805.1 | 4765.6 | 4735.3  | 4711.6  | 4707.6  |
| 12.5° | 4673.4 | 4687.8 | 4723.4 | 4793.3 | 4881.6 | 4917.0 | 4892.0 | 4826.2 | 4766.9  | 4724.7  | 4718.2  |
| 15°   | 4616.8 | 4632.6 | 4686.6 | 4792.0 | 4922.4 | 5005.3 | 5002.7 | 4915.8 | 4820.9  | 4755.1  | 4744.5  |
| 17.5° | 4528.6 | 4544.3 | 4622.0 | 4769.5 | 4953.9 | 5091.0 | 5127.9 | 5038.3 | 4905.2  | 4817.0  | 4802.4  |
| 20°   | 4369.2 | 4383.6 | 4491.7 | 4698.4 | 4964.5 | 5181.8 | 5278.0 | 5199.0 | 5033.0  | 4913.1  | 4890.7  |
| 22.5° | 4162.3 | 4184.8 | 4311.2 | 4575.9 | 4939.5 | 5276.7 | 5449.2 | 5395.2 | 5181.8  | 5015.8  | 4985.6  |
| 25°   | 3941.0 | 3964.7 | 4112.3 | 4425.7 | 4874.9 | 5345.2 | 5652.1 | 5617.8 | 5350.4  | 5143.7  | 5101.5  |
| 27.5° | 3750.1 | 3775.1 | 3935.8 | 4276.9 | 4774.9 | 5371.5 | 5852.2 | 5869.4 | 5554.6  | 5284.6  | 5239.8  |
| 30°   | 3599.9 | 3623.6 | 3794.9 | 4157.1 | 4645.7 | 5345.2 | 6027.5 | 6146.0 | 5762.8  | 5407.1  | 5342.5  |
| 32.5° | 3435.2 | 3465.5 | 3646.0 | 4010.8 | 4493.0 | 5281.9 | 6180.2 | 6445.0 | 6003.7  | 5538.8  | 5457.1  |
| 35°   | 3227.1 | 3254.8 | 3444.4 | 3810.6 | 4292.7 | 5180.6 | 6308.1 | 6777.0 | 6348.8  | 5739.0  | 5648.2  |
| 37.5° | 2974.2 | 3000.6 | 3188.9 | 3560.3 | 4093.8 | 5038.3 | 6405.5 | 7151.0 | 6759.9  | 6027.5  | 5906.3  |
| 40°   | 2720.0 | 2745.1 | 2921.6 | 3281.1 | 3855.4 | 4856.4 | 6439.8 | 7517.2 | 7231.4  | 6424.0  | 6294.8  |
| 42.5° | 2486.9 | 2509.2 | 2671.3 | 3005.8 | 3588.0 | 4624.7 | 6395.0 | 7836.0 | 7654.2  | 6700.5  | 6534.6  |
| 45°   | 2272.1 | 2291.9 | 2435.5 | 2747.6 | 3310.1 | 4342.8 | 6260.6 | 8178.5 | 8157.4  | 6898.1  | 6674.2  |
| 47.5° | 2027.1 | 2046.9 | 2195.8 | 2497.4 | 3032.2 | 4012.2 | 6032.7 | 8515.6 | 8856.8  | 7346.0  | 7087.8  |
| 50°   | 1728.2 | 1745.3 | 1898.1 | 2209.0 | 2743.7 | 3660.5 | 5716.6 | 8780.4 | 9739.3  | 8024.3  | 7700.3  |
| 52.5° | 1373.8 | 1392.3 | 1541.1 | 1852.0 | 2401.3 | 3282.5 | 5300.4 | 8953.0 | 10758.8 | 9014.9  | 8615.7  |
| 55°   | 1022.1 | 1035.4 | 1164.4 | 1443.6 | 1977.1 | 2851.8 | 4778.8 | 9001.7 | 11915.3 | 10368.9 | 9869.7  |
| 57.5° | 741.6  | 749.5  | 832.5  | 1040.6 | 1499.0 | 2313.0 | 4145.2 | 8875.3 | 13291.8 | 12104.9 | 11476.7 |
| 60°   | 600.6  | 603.3  | 628.3  | 720.5  | 1041.9 | 1704.5 | 3379.9 | 8440.6 | 14785.5 | 14342.9 | 13551.2 |
| 62.5° | 545.3  | 545.3  | 551.9  | 577.0  | 704.7  | 1124.8 | 2454.0 | 7539.6 | 16387.2 | 17170.9 | 16110.5 |
| 65°   | 507.1  | 507.1  | 509.7  | 521.6  | 555.9  | 716.6  | 1549.0 | 6072.2 | 17737.3 | 20483.6 | 19142.7 |
| 67.5° | 472.8  | 474.2  | 472.8  | 476.8  | 496.6  | 529.5  | 898.3  | 4193.9 | 18464.4 | 23916.2 | 22468.6 |
| 70°   | 437.3  | 439.9  | 433.4  | 433.4  | 449.2  | 450.5  | 562.4  | 2299.8 | 17861.1 | 26793.0 | 26412.3 |
| 72.5° | 395.1  | 399.1  | 388.6  | 385.9  | 397.8  | 392.5  | 422.8  | 1103.8 | 15334.7 | 27651.8 | 28652.8 |
| 75°   | 358.2  | 363.6  | 339.8  | 333.2  | 333.2  | 329.3  | 343.8  | 566.4  | 9952.8  | 22556.9 | 24127.0 |
| 77.5° | 325.3  | 335.9  | 297.7  | 276.6  | 271.3  | 259.5  | 280.5  | 346.4  | 4353.3  | 10590.2 | 10370.2 |
| 80°   | 268.8  | 283.2  | 245.0  | 220.0  | 210.7  | 197.6  | 221.3  | 242.4  | 1294.8  | 2459.2  | 2355.1  |
| 82.5° | 200.2  | 206.8  | 173.8  | 156.7  | 148.8  | 139.6  | 165.9  | 168.6  | 421.5   | 870.6   | 983.9   |
| 85°   | 127.8  | 130.4  | 106.7  | 92.2   | 88.3   | 84.3   | 105.4  | 92.2   | 160.7   | 640.1   | 930.0   |
| 87.5° | 44.8   | 51.4   | 40.8   | 36.9   | 39.6   | 32.9   | 48.7   | 27.7   | 44.8    | 451.8   | 559.9   |
| 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)