

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: P970502

Luminaire Tested: **NVN-SB6B-830-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P970502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6B-830-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 32936.3 lumens  
Efficiency: N/A  
Efficacy: 149.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
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

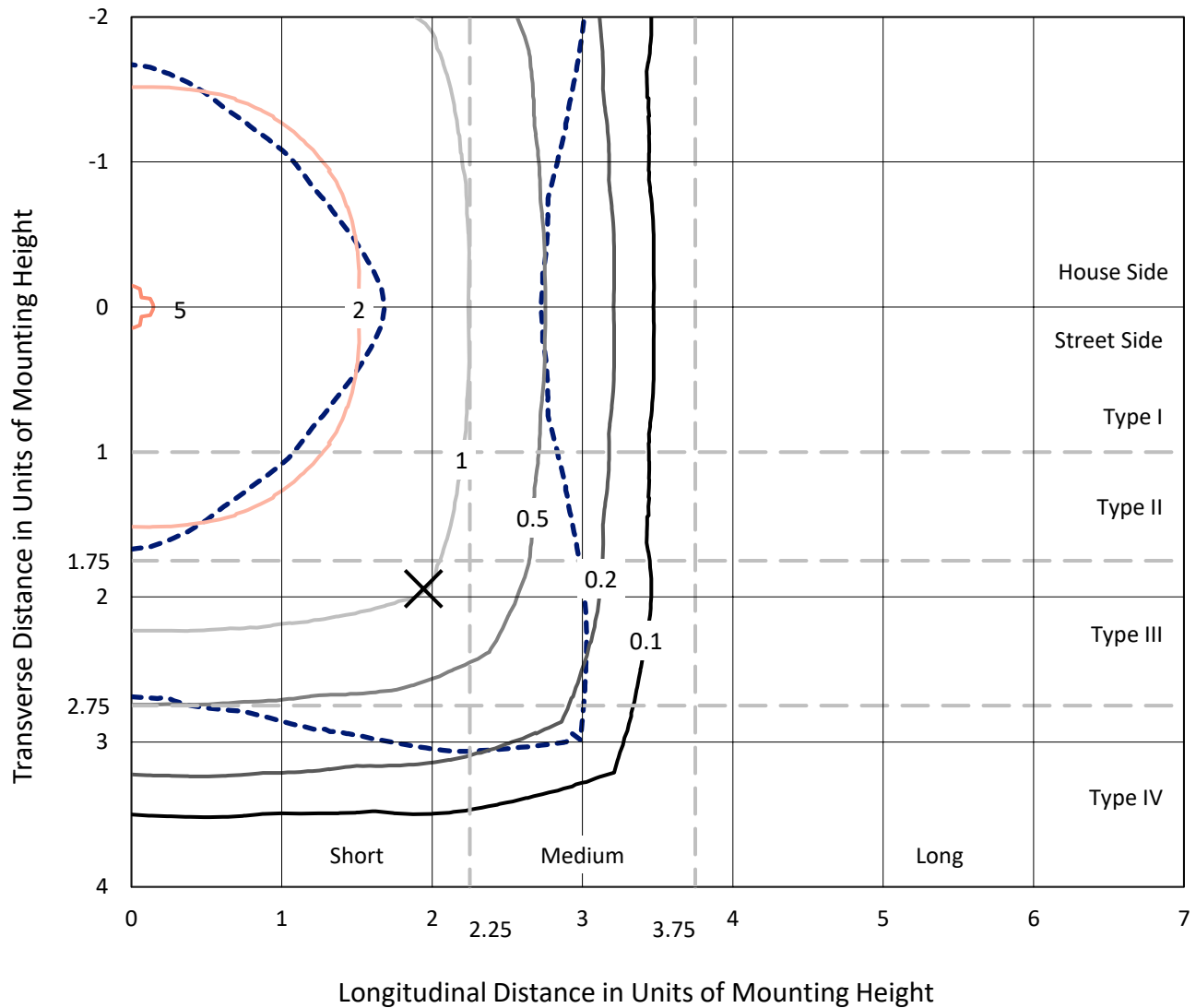


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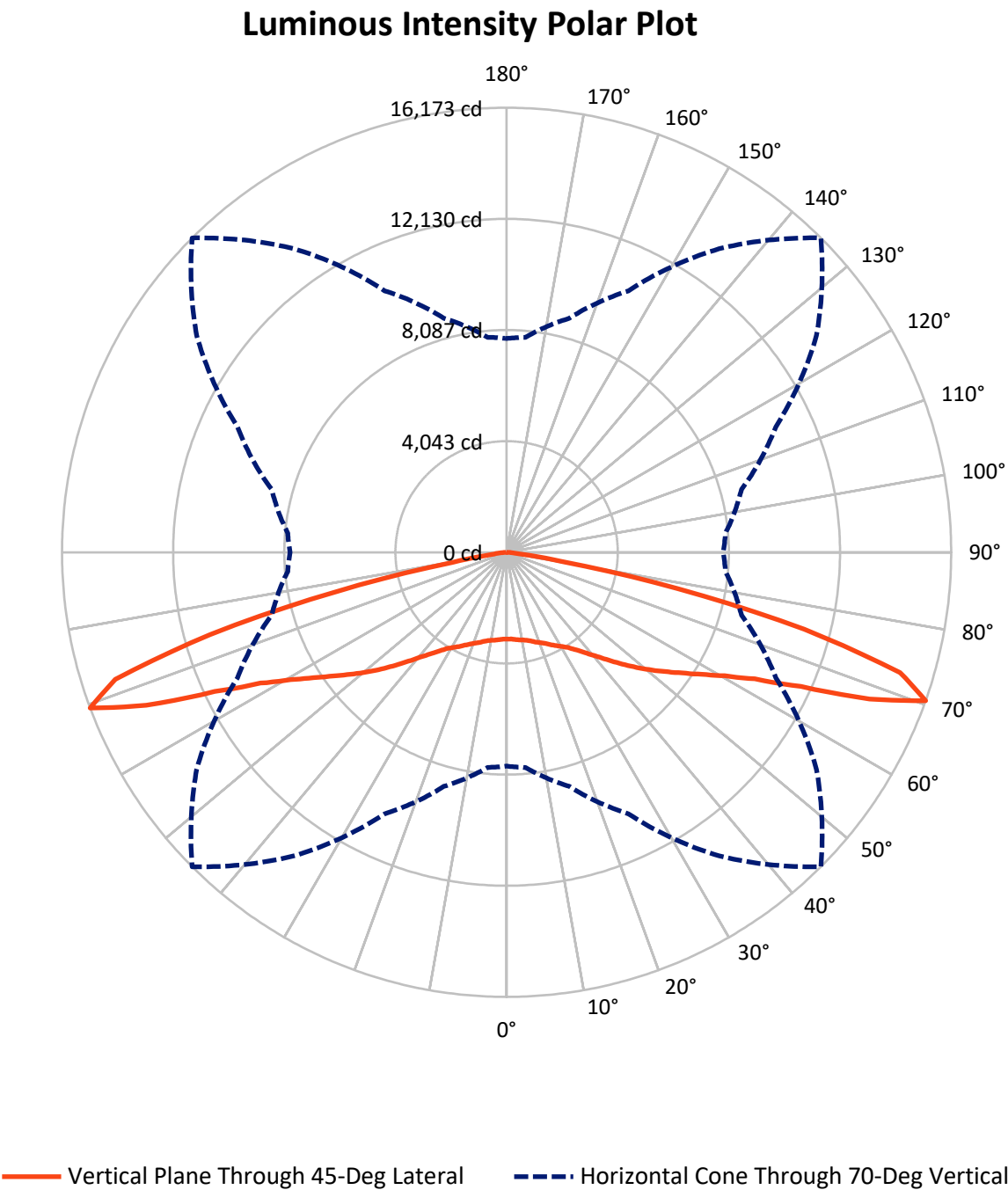
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
Type V - Short - N/A

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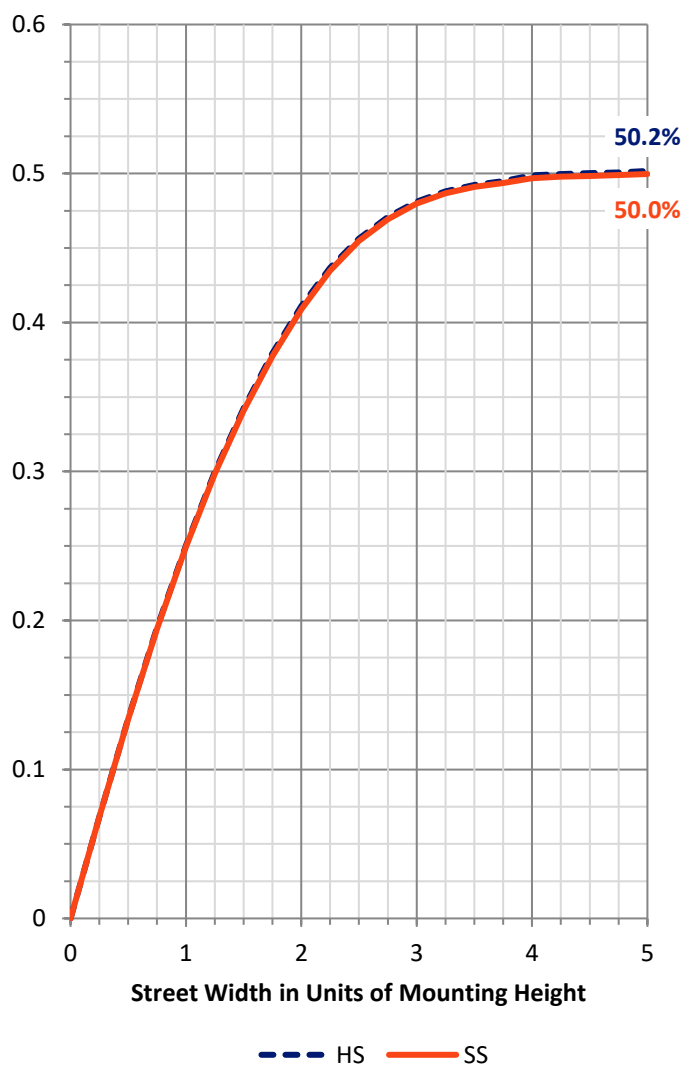
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16468.2  | 0.0    | 16468.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16468.2  | 0.0    | 16468.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 32936.3  | 0.0    | 32936.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 306.5   | 0.9       |
| 10°-20°   | 950.4   | 2.9       |
| 20°-30°   | 1698.5  | 5.2       |
| 30°-40°   | 2753.3  | 8.4       |
| 40°-50°   | 4484.7  | 13.6      |
| 50°-60°   | 6837.6  | 20.8      |
| 60°-70°   | 10172.2 | 30.9      |
| 70°-80°   | 5544.2  | 16.8      |
| 80°-90°   | 188.8   | 0.6       |
| 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°    | 32936.3 | 100.0     |
| 0°-180°   | 32936.3 | 100.0     |

**Coefficient of Utilization**



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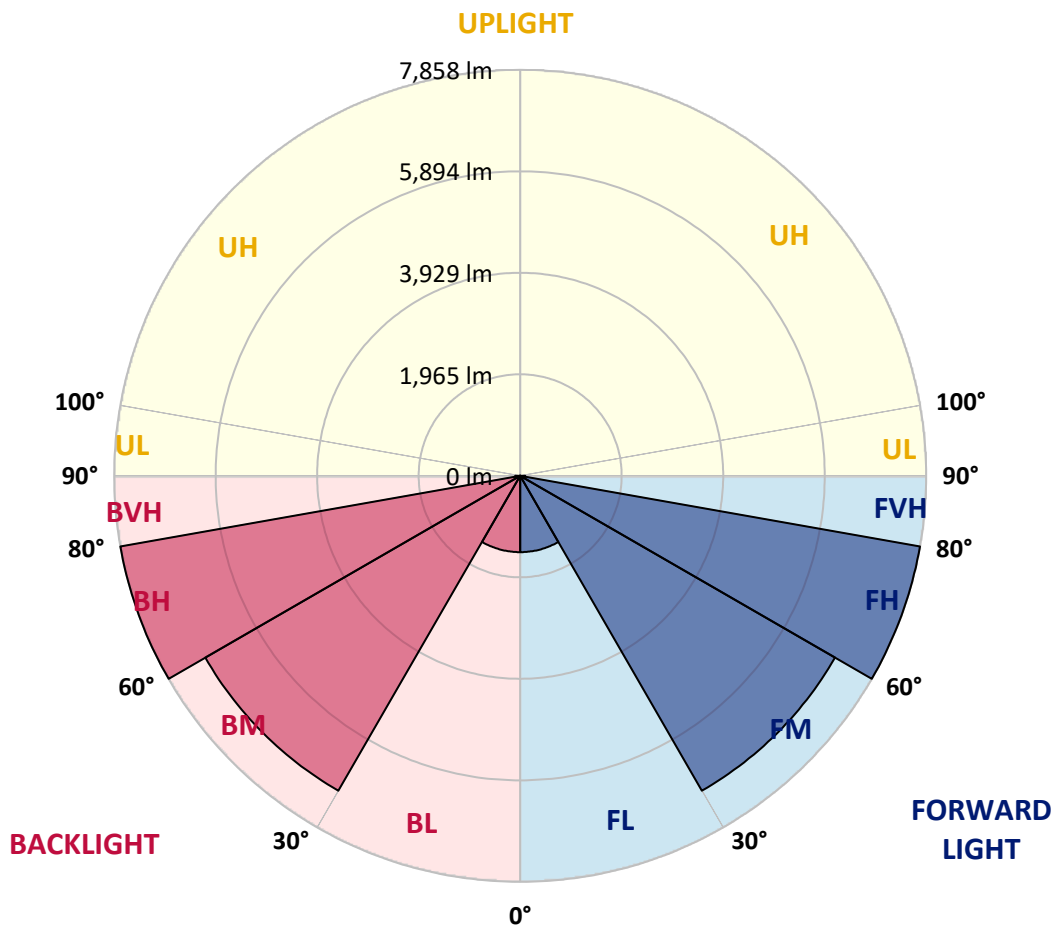
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1477.7 | 4.5       |                         |      |          |
| FM   | (30°-60°)   | 7037.8 | 21.4      |                         |      |          |
| FH   | (60°-80°)   | 7858.2 | 23.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 94.4   | 0.3       |                         |      | G1/100   |
| BL   | (0°-30°)    | 1477.7 | 4.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 7037.8 | 21.4      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 7858.2 | 23.9      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 94.4   | 0.3       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    | 90°    |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 3155.0 | 3155.0 | 3155.0 | 3155.0  | 3155.0  | 3155.0  | 3155.0  | 3155.0  | 3155.0  | 3155.0 | 3155.0 |
| 2.5°  | 3169.8 | 3173.2 | 3166.5 | 3163.3  | 3159.9  | 3155.0  | 3156.6  | 3164.9  | 3171.5  | 3169.8 | 3171.5 |
| 5°    | 3196.3 | 3199.6 | 3194.6 | 3193.0  | 3186.4  | 3184.7  | 3184.7  | 3193.0  | 3198.0  | 3194.6 | 3196.3 |
| 7.5°  | 3226.1 | 3231.0 | 3222.8 | 3221.1  | 3217.8  | 3214.5  | 3212.9  | 3221.1  | 3226.1  | 3226.1 | 3226.1 |
| 10°   | 3254.2 | 3259.1 | 3252.5 | 3247.5  | 3244.2  | 3244.2  | 3240.9  | 3247.5  | 3255.8  | 3254.2 | 3254.2 |
| 12.5° | 3283.9 | 3287.3 | 3280.6 | 3277.3  | 3277.3  | 3282.3  | 3277.3  | 3280.6  | 3287.3  | 3283.9 | 3282.3 |
| 15°   | 3320.3 | 3321.9 | 3320.3 | 3325.3  | 3333.5  | 3350.1  | 3335.1  | 3331.9  | 3335.1  | 3326.9 | 3326.9 |
| 17.5° | 3369.9 | 3373.3 | 3379.8 | 3391.4  | 3403.0  | 3432.7  | 3406.3  | 3398.1  | 3398.1  | 3381.5 | 3381.5 |
| 20°   | 3431.1 | 3436.1 | 3445.9 | 3465.8  | 3480.7  | 3508.8  | 3482.3  | 3470.8  | 3465.8  | 3444.3 | 3444.3 |
| 22.5° | 3495.6 | 3503.9 | 3518.7 | 3545.2  | 3571.6  | 3598.1  | 3571.6  | 3551.8  | 3537.0  | 3508.8 | 3507.1 |
| 25°   | 3570.0 | 3579.9 | 3603.1 | 3646.0  | 3682.4  | 3720.4  | 3689.1  | 3649.4  | 3619.6  | 3579.9 | 3578.3 |
| 27.5° | 3675.9 | 3687.4 | 3715.5 | 3768.4  | 3814.7  | 3847.7  | 3818.0  | 3766.8  | 3725.5  | 3677.5 | 3675.9 |
| 30°   | 3824.7 | 3836.3 | 3869.3 | 3925.5  | 3956.9  | 3978.4  | 3958.6  | 3918.9  | 3869.3  | 3814.7 | 3814.7 |
| 32.5° | 4016.5 | 4031.3 | 4067.7 | 4120.6  | 4127.3  | 4130.5  | 4124.0  | 4104.1  | 4067.7  | 4001.6 | 4003.2 |
| 35°   | 4259.5 | 4276.1 | 4317.4 | 4360.3  | 4353.8  | 4360.3  | 4350.5  | 4343.8  | 4317.4  | 4241.3 | 4241.3 |
| 37.5° | 4557.2 | 4577.0 | 4620.0 | 4653.1  | 4636.5  | 4628.3  | 4629.9  | 4631.6  | 4616.7  | 4532.3 | 4532.3 |
| 40°   | 4902.8 | 4929.2 | 4960.6 | 4995.3  | 4967.3  | 4942.4  | 4959.0  | 4972.2  | 4959.0  | 4873.0 | 4873.0 |
| 42.5° | 5258.2 | 5296.3 | 5329.4 | 5379.0  | 5355.8  | 5324.4  | 5347.5  | 5362.4  | 5334.3  | 5241.7 | 5248.3 |
| 45°   | 5653.5 | 5689.9 | 5732.8 | 5807.2  | 5790.7  | 5757.6  | 5790.7  | 5794.0  | 5746.0  | 5636.9 | 5648.5 |
| 47.5° | 6061.8 | 6099.9 | 6164.5 | 6263.6  | 6257.0  | 6220.6  | 6263.6  | 6240.5  | 6179.3  | 6048.6 | 6040.4 |
| 50°   | 6448.8 | 6501.8 | 6600.9 | 6739.9  | 6753.1  | 6708.4  | 6766.3  | 6721.6  | 6619.1  | 6455.4 | 6452.2 |
| 52.5° | 6812.6 | 6868.8 | 7025.9 | 7214.4  | 7262.3  | 7204.5  | 7282.2  | 7204.5  | 7050.7  | 6840.7 | 6820.9 |
| 55°   | 7194.6 | 7257.4 | 7444.3 | 7690.6  | 7786.5  | 7743.6  | 7816.3  | 7698.9  | 7480.7  | 7225.9 | 7191.3 |
| 57.5° | 7644.3 | 7682.4 | 7905.6 | 8198.3  | 8360.3  | 8370.3  | 8403.3  | 8204.9  | 7940.3  | 7650.9 | 7611.2 |
| 60°   | 8132.1 | 8185.0 | 8428.1 | 8778.6  | 9035.0  | 9117.7  | 9082.9  | 8788.6  | 8481.1  | 8148.6 | 8095.8 |
| 62.5° | 8757.2 | 8815.0 | 9106.1 | 9526.0  | 9931.2  | 10136.2 | 10000.6 | 9574.0  | 9193.7  | 8795.2 | 8725.7 |
| 65°   | 9274.7 | 9339.2 | 9865.0 | 10614.1 | 11351.6 | 11763.3 | 11422.7 | 10637.2 | 9952.6  | 9390.4 | 9297.9 |
| 67.5° | 8899.4 | 8978.7 | 9803.8 | 11179.6 | 13013.4 | 14242.0 | 13076.2 | 11348.3 | 10007.3 | 9245.0 | 9130.9 |
| 70°   | 7778.3 | 7852.6 | 8815.0 | 10496.7 | 13481.3 | 16173.3 | 13762.5 | 10805.9 | 8846.5  | 7993.3 | 7879.2 |
| 72.5° | 5164.1 | 5403.8 | 6377.8 | 8395.1  | 12037.8 | 14966.2 | 12156.8 | 8224.7  | 5916.4  | 5152.5 | 4985.4 |
| 75°   | 1713.1 | 1904.9 | 2569.6 | 4352.2  | 8062.6  | 11192.8 | 7675.7  | 3851.1  | 2035.5  | 1465.0 | 1385.7 |
| 77.5° | 431.5  | 497.7  | 686.2  | 1245.1  | 3216.1  | 6372.7  | 2895.3  | 1016.9  | 553.9   | 386.9  | 345.6  |
| 80°   | 210.0  | 231.4  | 330.7  | 415.0   | 805.2   | 2025.6  | 755.6   | 390.2   | 261.3   | 201.7  | 185.2  |
| 82.5° | 115.7  | 117.4  | 186.9  | 234.8   | 299.3   | 524.2   | 310.9   | 228.2   | 150.5   | 122.4  | 122.4  |
| 85°   | 71.1   | 69.5   | 99.2   | 125.7   | 125.7   | 186.9   | 148.8   | 125.7   | 86.0    | 76.1   | 79.3   |
| 87.5° | 28.1   | 28.1   | 36.4   | 39.7    | 34.7    | 48.0    | 38.0    | 41.3    | 33.1    | 31.5   | 33.1   |
| 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)