

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: P842053

Luminaire Tested: **ARCH4-260-750-U-5WQ**

Issue Date: 5/27/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P842053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-260-750-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38996 lumens  
Efficiency: N/A  
Efficacy: 150.4 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B5 - U0 - G4

Input Watts (W): 259.2  
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

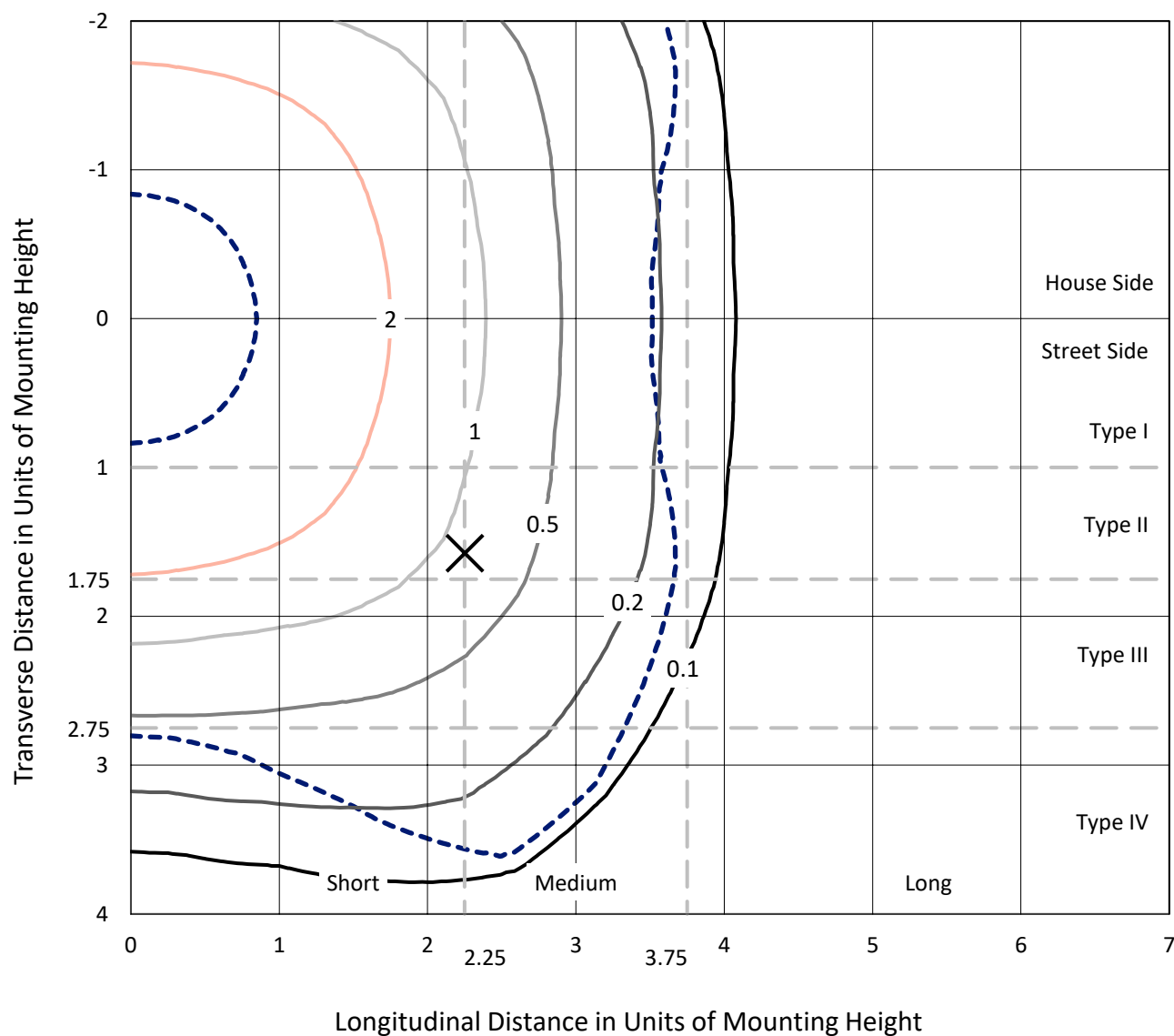


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## Iso-Footcandle Lines of Horizontal Illumination

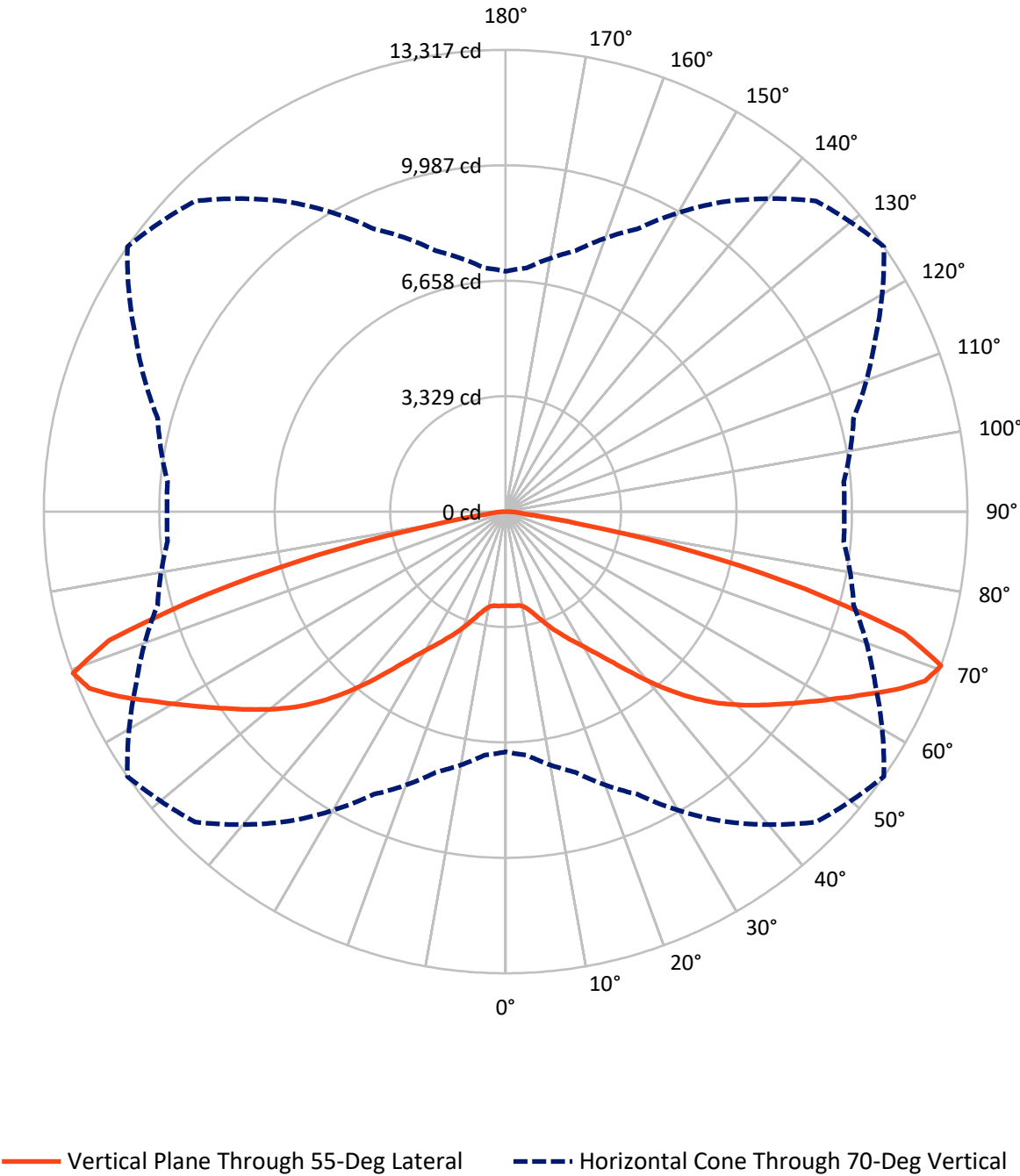
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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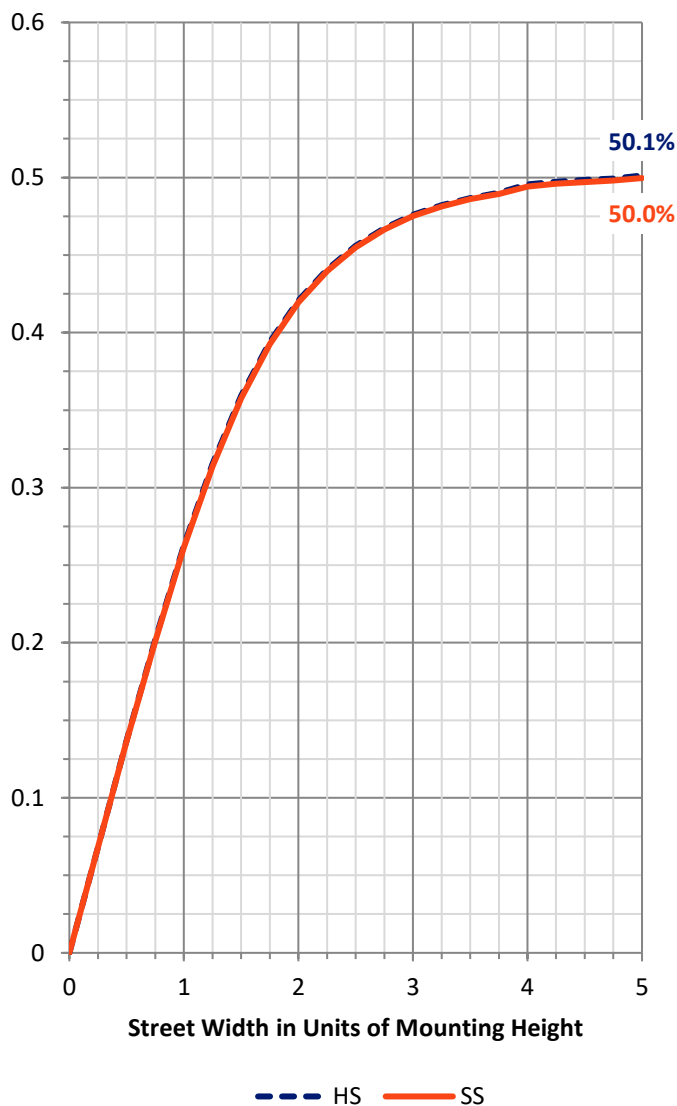
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19498.0  | 0.0    | 19498.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19498.0  | 0.0    | 19498.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 38996.0  | 0.0    | 38996.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 262.4   | 0.7       |
| 10°-20°   | 893.2   | 2.3       |
| 20°-30°   | 1855.9  | 4.8       |
| 30°-40°   | 3427.7  | 8.8       |
| 40°-50°   | 6021.7  | 15.4      |
| 50°-60°   | 8684.7  | 22.3      |
| 60°-70°   | 10629.2 | 27.3      |
| 70°-80°   | 6763.6  | 17.3      |
| 80°-90°   | 457.7   | 1.2       |
| 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°    | 38996.0 | 100.0     |
| 0°-180°   | 38996.0 | 100.0     |

**Coefficient of Utilization**



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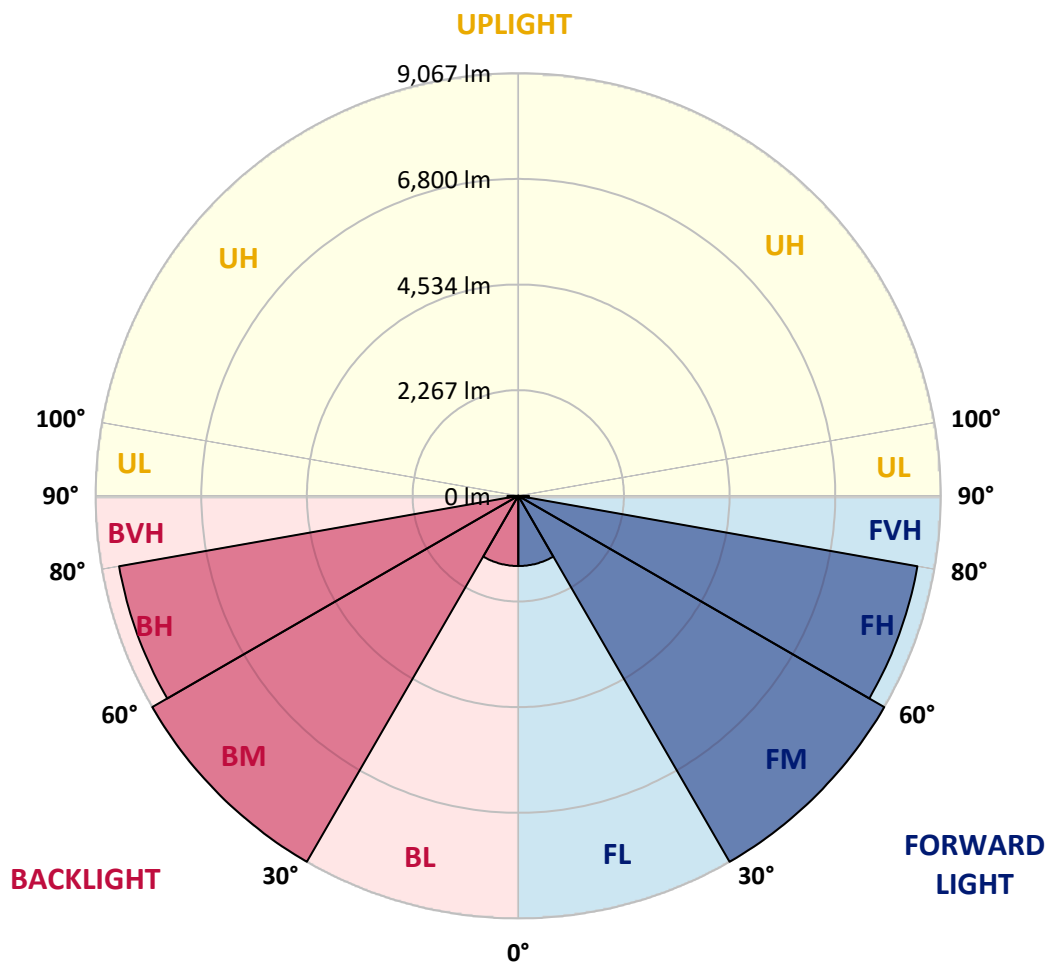
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1505.7 | 3.9       |                         |      |          |
| FM   | (30°-60°)   | 9067.1 | 23.3      |                         |      |          |
| FH   | (60°-80°)   | 8696.4 | 22.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 228.8  | 0.6       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1505.7 | 3.9       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 9067.1 | 23.3      | B5                      |      |          |
| BH   | (60°-80°)   | 8696.4 | 22.3      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 228.8  | 0.6       |                         |      | G3/500   |
| 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2718.4  | 2718.4 | 2718.4 | 2718.4  | 2718.4  | 2718.4  | 2718.4  | 2718.4  | 2718.4  | 2718.4  | 2718.4  |
| 2.5°  | 2754.6  | 2754.6 | 2747.4 | 2747.4  | 2732.9  | 2725.6  | 2718.4  | 2718.4  | 2711.1  | 2711.1  | 2703.9  |
| 5°    | 2769.1  | 2769.1 | 2769.1 | 2761.9  | 2754.6  | 2747.4  | 2732.9  | 2718.4  | 2711.1  | 2703.9  | 2696.6  |
| 7.5°  | 2776.4  | 2776.4 | 2769.1 | 2769.1  | 2761.9  | 2754.6  | 2732.9  | 2711.1  | 2703.9  | 2696.6  | 2696.6  |
| 10°   | 2834.4  | 2827.1 | 2819.9 | 2805.4  | 2805.4  | 2805.4  | 2776.4  | 2754.6  | 2747.4  | 2747.4  | 2747.4  |
| 12.5° | 2972.1  | 2964.9 | 2950.4 | 2928.6  | 2928.6  | 2935.9  | 2892.4  | 2863.4  | 2863.4  | 2856.1  | 2856.1  |
| 15°   | 3175.1  | 3167.8 | 3153.3 | 3117.1  | 3109.8  | 3124.3  | 3059.1  | 3030.1  | 3030.1  | 3030.1  | 3022.8  |
| 17.5° | 3399.8  | 3385.3 | 3363.6 | 3334.6  | 3334.6  | 3334.6  | 3269.3  | 3233.1  | 3211.3  | 3211.3  | 3204.1  |
| 20°   | 3588.3  | 3581.0 | 3581.0 | 3573.8  | 3595.5  | 3595.5  | 3508.5  | 3450.5  | 3399.8  | 3370.8  | 3363.6  |
| 22.5° | 3755.0  | 3747.8 | 3762.3 | 3791.2  | 3834.7  | 3849.2  | 3747.8  | 3660.8  | 3581.0  | 3523.0  | 3508.5  |
| 25°   | 3979.7  | 3972.5 | 3965.2 | 4008.7  | 4081.2  | 4103.0  | 3994.2  | 3885.5  | 3805.7  | 3776.7  | 3762.3  |
| 27.5° | 4218.9  | 4226.2 | 4233.4 | 4276.9  | 4334.9  | 4371.2  | 4262.4  | 4160.9  | 4095.7  | 4052.2  | 4037.7  |
| 30°   | 4487.2  | 4501.7 | 4523.4 | 4588.6  | 4632.1  | 4646.6  | 4552.4  | 4479.9  | 4421.9  | 4385.7  | 4363.9  |
| 32.5° | 4827.9  | 4856.9 | 4885.9 | 4943.8  | 4965.6  | 4951.1  | 4907.6  | 4856.9  | 4813.4  | 4762.6  | 4755.4  |
| 35°   | 5335.3  | 5364.3 | 5357.0 | 5378.8  | 5386.0  | 5371.5  | 5349.8  | 5320.8  | 5299.0  | 5233.8  | 5226.6  |
| 37.5° | 5973.2  | 6002.2 | 5958.7 | 5937.0  | 5886.2  | 5893.5  | 5886.2  | 5908.0  | 5915.2  | 5850.0  | 5842.7  |
| 40°   | 6618.4  | 6647.4 | 6589.4 | 6531.4  | 6480.6  | 6458.9  | 6495.1  | 6567.6  | 6567.6  | 6524.1  | 6524.1  |
| 42.5° | 7307.0  | 7328.8 | 7234.5 | 7162.0  | 7096.8  | 7082.3  | 7104.1  | 7191.0  | 7212.8  | 7205.5  | 7205.5  |
| 45°   | 7995.7  | 7981.2 | 7858.0 | 7785.5  | 7727.5  | 7691.2  | 7698.5  | 7763.7  | 7807.2  | 7829.0  | 7829.0  |
| 47.5° | 8524.9  | 8503.1 | 8401.6 | 8343.6  | 8307.4  | 8256.7  | 8256.7  | 8292.9  | 8314.6  | 8321.9  | 8321.9  |
| 50°   | 8945.3  | 8923.6 | 8822.1 | 8814.8  | 8814.8  | 8793.1  | 8771.3  | 8764.1  | 8749.6  | 8756.8  | 8756.8  |
| 52.5° | 9307.8  | 9278.8 | 9206.3 | 9220.8  | 9286.0  | 9300.5  | 9271.5  | 9213.5  | 9155.5  | 9133.8  | 9141.0  |
| 55°   | 9699.2  | 9655.7 | 9597.7 | 9641.2  | 9771.7  | 9829.7  | 9786.2  | 9670.2  | 9568.7  | 9503.5  | 9503.5  |
| 57.5° | 10010.9 | 9960.2 | 9960.2 | 10083.4 | 10322.6 | 10438.6 | 10344.4 | 10126.9 | 9952.9  | 9880.4  | 9887.7  |
| 60°   | 9793.4  | 9750.0 | 9923.9 | 10467.6 | 10917.1 | 11112.8 | 10953.3 | 10569.1 | 10286.4 | 10199.4 | 10213.9 |
| 62.5° | 9365.8  | 9336.8 | 9554.2 | 10395.1 | 11453.5 | 11859.4 | 11620.2 | 11069.3 | 10648.8 | 10547.3 | 10547.3 |
| 65°   | 8735.1  | 8727.8 | 9032.3 | 10068.9 | 11576.7 | 12577.1 | 12374.1 | 11613.0 | 11069.3 | 10931.5 | 10960.5 |
| 67.5° | 8082.7  | 8082.7 | 8358.1 | 9510.7  | 11431.7 | 12881.5 | 13041.0 | 12105.9 | 11272.3 | 10931.5 | 10938.8 |
| 70°   | 6930.1  | 7053.3 | 7785.5 | 8996.1  | 10902.6 | 12664.1 | 13316.5 | 11757.9 | 10387.9 | 9786.2  | 9764.5  |
| 72.5° | 4566.9  | 4726.4 | 6183.4 | 8097.2  | 10380.6 | 11873.9 | 12018.9 | 10329.9 | 8626.4  | 7923.2  | 7887.0  |
| 75°   | 2754.6  | 2892.4 | 4008.7 | 6321.2  | 9126.5  | 9561.5  | 8923.6  | 8097.2  | 6444.4  | 5893.5  | 5893.5  |
| 77.5° | 811.9   | 906.1  | 1848.5 | 4008.7  | 6313.9  | 6284.9  | 5502.0  | 4769.9  | 3813.0  | 3240.3  | 3283.8  |
| 80°   | 478.4   | 492.9  | 601.7  | 1826.8  | 2616.9  | 2754.6  | 2124.0  | 1326.6  | 1326.6  | 985.9   | 956.9   |
| 82.5° | 369.7   | 369.7  | 384.2  | 456.7   | 630.7   | 703.2   | 536.4   | 456.7   | 521.9   | 442.2   | 420.4   |
| 85°   | 261.0   | 261.0  | 261.0  | 268.2   | 275.5   | 282.7   | 297.2   | 304.5   | 333.5   | 275.5   | 261.0   |
| 87.5° | 79.7    | 87.0   | 94.2   | 108.7   | 130.5   | 137.7   | 145.0   | 130.5   | 130.5   | 123.2   | 116.0   |
| 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)