

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: P510235

Luminaire Tested: **VERD-M-CA4-230-750-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-230-750-U-T1  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5000K, 1050mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35015 lumens  
Efficiency: N/A  
Efficacy: 150.1 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

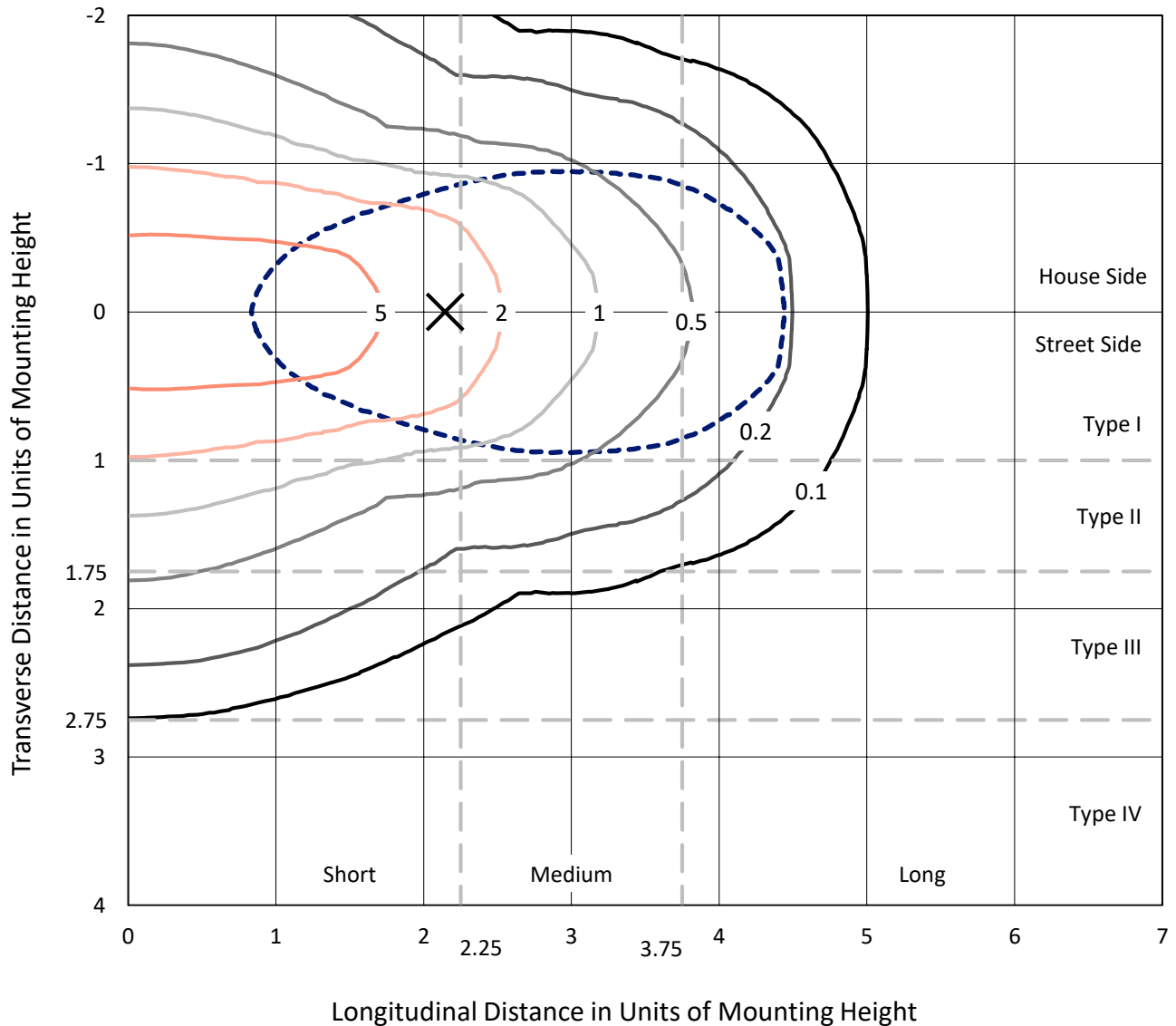
Input Watts (W): 233.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

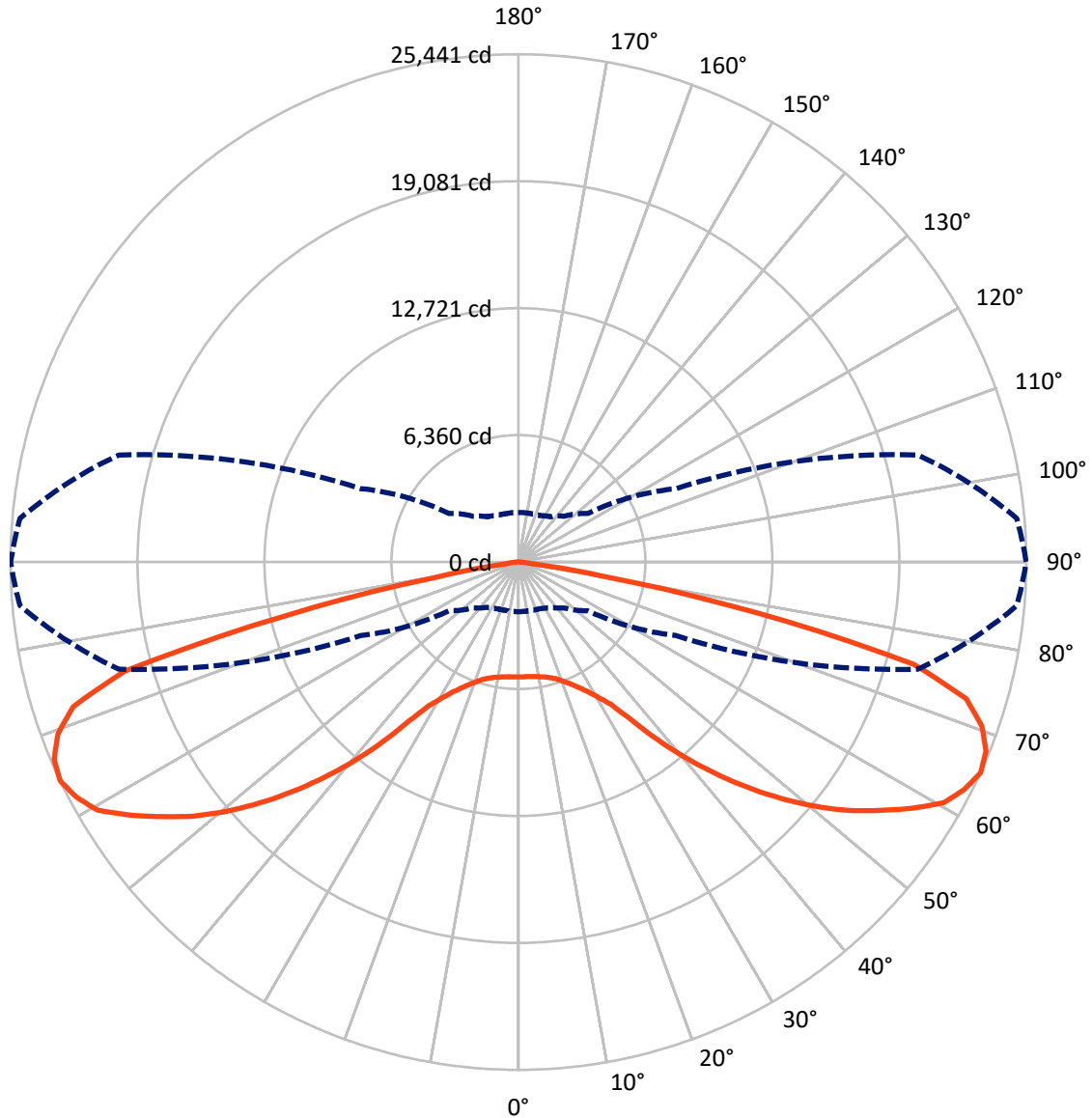
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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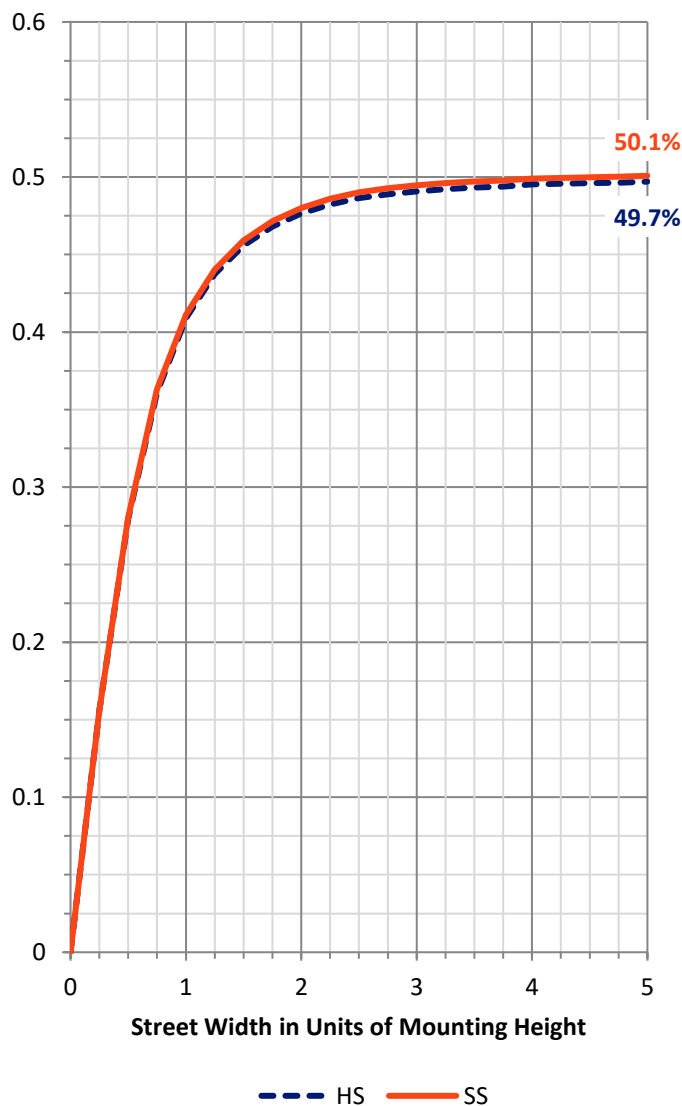
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17507.5  | 0.0    | 17507.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17507.5  | 0.0    | 17507.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 35015.0  | 0.0    | 35015.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 548.3   | 1.6       |
| 10°-20°   | 1627.9  | 4.6       |
| 20°-30°   | 2687.6  | 7.7       |
| 30°-40°   | 3938.1  | 11.2      |
| 40°-50°   | 5744.5  | 16.4      |
| 50°-60°   | 7437.2  | 21.2      |
| 60°-70°   | 7835.6  | 22.4      |
| 70°-80°   | 4782.3  | 13.7      |
| 80°-90°   | 413.4   | 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°    | 35015.0 | 100.0     |
| 0°-180°   | 35015.0 | 100.0     |

**Coefficient of Utilization**



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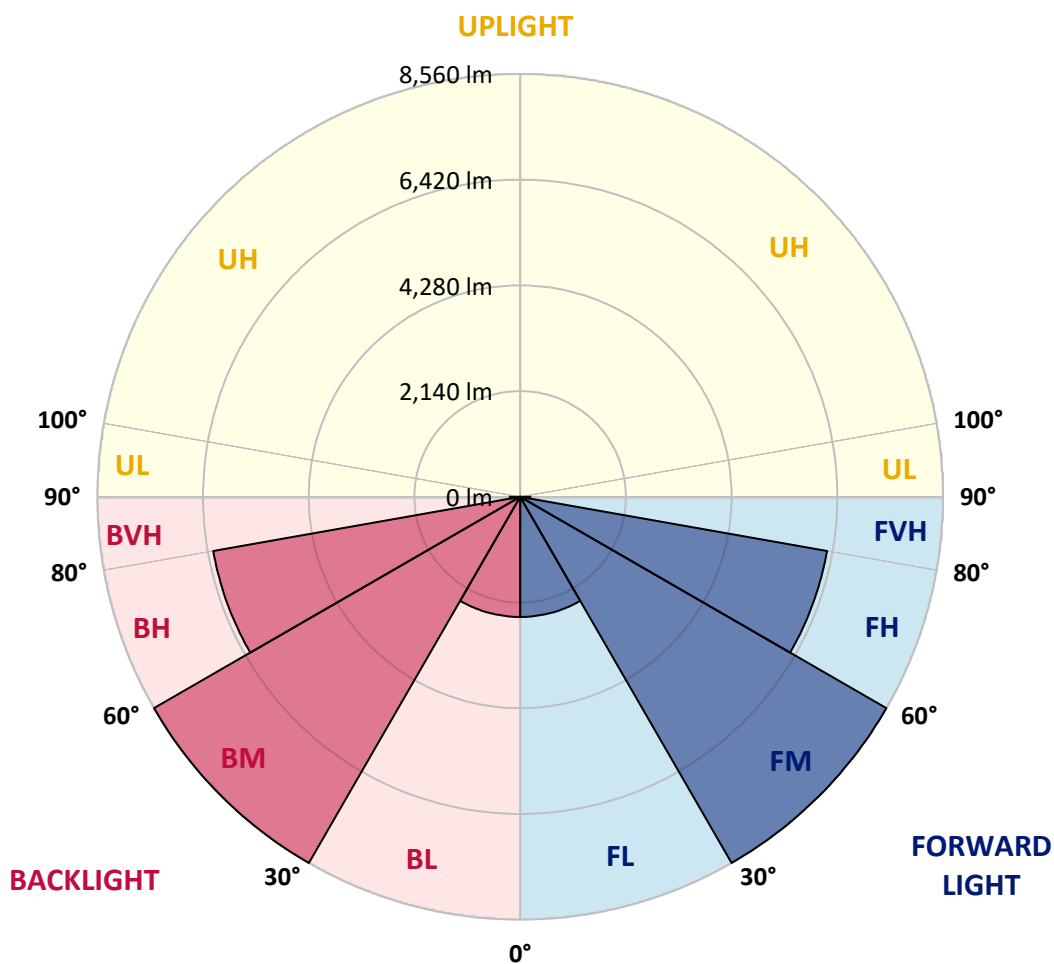
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2431.9 | 6.9       |                         |      |         |
| FM   | (30°-60°)   | 8559.9 | 24.4      |                         |      |         |
| FH   | (60°-80°)   | 6309.0 | 18.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 206.7  | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2431.9 | 6.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 8559.9 | 24.4      | B5                      |      |         |
| BH   | (60°-80°)   | 6309.0 | 18.0      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 206.7  | 0.6       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 5760.8 | 5760.8 | 5760.8 | 5760.8 | 5760.8 | 5760.8 | 5760.8 | 5760.8  | 5760.8  | 5760.8  | 5760.8  |
| 2.5°  | 5713.0 | 5759.3 | 5766.7 | 5747.3 | 5748.8 | 5745.8 | 5757.8 | 5762.2  | 5768.2  | 5759.3  | 5754.8  |
| 5°    | 5704.1 | 5744.4 | 5751.8 | 5742.9 | 5754.8 | 5751.8 | 5757.8 | 5768.2  | 5766.7  | 5763.7  | 5763.7  |
| 7.5°  | 5656.4 | 5686.2 | 5710.1 | 5704.1 | 5707.1 | 5726.5 | 5747.3 | 5781.6  | 5798.0  | 5798.0  | 5795.1  |
| 10°   | 5593.7 | 5625.0 | 5665.3 | 5656.4 | 5675.8 | 5716.0 | 5757.8 | 5793.6  | 5835.3  | 5844.3  | 5844.3  |
| 12.5° | 5526.6 | 5569.9 | 5608.6 | 5617.6 | 5662.3 | 5708.6 | 5784.6 | 5839.8  | 5887.5  | 5908.4  | 5906.9  |
| 15°   | 5437.1 | 5474.4 | 5520.7 | 5553.5 | 5625.0 | 5725.0 | 5824.9 | 5909.9  | 5978.5  | 6006.8  | 6011.3  |
| 17.5° | 5317.8 | 5358.1 | 5407.3 | 5475.9 | 5601.2 | 5744.4 | 5899.4 | 6014.3  | 6118.7  | 6148.5  | 6148.5  |
| 20°   | 5161.3 | 5204.5 | 5264.2 | 5370.0 | 5540.0 | 5763.7 | 5971.0 | 6151.5  | 6287.2  | 6357.3  | 6367.7  |
| 22.5° | 4918.2 | 4965.9 | 5062.8 | 5246.3 | 5470.0 | 5760.8 | 6056.0 | 6312.5  | 6516.8  | 6607.8  | 6618.2  |
| 25°   | 4648.3 | 4709.4 | 4846.6 | 5088.2 | 5383.5 | 5757.8 | 6141.0 | 6494.5  | 6767.4  | 6907.5  | 6937.4  |
| 27.5° | 4409.7 | 4467.8 | 4636.3 | 4934.6 | 5302.9 | 5763.7 | 6226.0 | 6703.2  | 7096.9  | 7298.2  | 7323.6  |
| 30°   | 4175.5 | 4227.7 | 4415.6 | 4770.6 | 5228.4 | 5771.2 | 6334.9 | 6943.3  | 7471.2  | 7778.4  | 7839.6  |
| 32.5° | 3983.2 | 4035.4 | 4217.3 | 4596.1 | 5137.4 | 5787.6 | 6473.6 | 7263.9  | 7991.7  | 8451.0  | 8489.8  |
| 35°   | 3814.7 | 3874.3 | 4033.9 | 4420.1 | 5016.6 | 5811.5 | 6648.1 | 7684.5  | 8737.3  | 9584.4  | 9629.1  |
| 37.5° | 3668.5 | 3716.2 | 3857.9 | 4233.7 | 4889.9 | 5815.9 | 6850.9 | 8178.1  | 9700.7  | 10951.8 | 11257.6 |
| 40°   | 3571.6 | 3604.4 | 3713.2 | 4062.2 | 4722.8 | 5778.6 | 7083.5 | 8729.9  | 10774.4 | 12540.0 | 12889.0 |
| 42.5° | 3483.6 | 3513.4 | 3599.9 | 3904.1 | 4548.4 | 5707.1 | 7299.7 | 9296.5  | 11849.6 | 14162.5 | 14492.1 |
| 45°   | 3377.7 | 3401.6 | 3489.6 | 3769.9 | 4378.4 | 5596.7 | 7478.7 | 9821.5  | 12962.1 | 15792.5 | 16102.7 |
| 47.5° | 3291.2 | 3309.1 | 3383.7 | 3649.1 | 4189.0 | 5419.3 | 7554.7 | 10297.2 | 14155.1 | 17300.2 | 17684.9 |
| 50°   | 3231.6 | 3225.6 | 3291.2 | 3523.9 | 3995.1 | 5171.7 | 7490.6 | 10649.1 | 15412.2 | 18809.3 | 19223.9 |
| 52.5° | 3128.7 | 3134.6 | 3197.3 | 3394.1 | 3834.0 | 4866.0 | 7240.1 | 10896.7 | 16676.8 | 20187.2 | 20677.9 |
| 55°   | 3022.8 | 3031.7 | 3081.0 | 3258.4 | 3664.0 | 4575.2 | 6776.3 | 10931.0 | 17999.6 | 21627.8 | 21961.9 |
| 57.5° | 2909.5 | 2913.9 | 2955.7 | 3112.3 | 3474.6 | 4274.0 | 6191.7 | 10713.2 | 19226.9 | 22949.1 | 23265.2 |
| 60°   | 2809.5 | 2811.0 | 2839.4 | 2960.2 | 3264.4 | 3948.9 | 5511.7 | 10276.3 | 20215.6 | 23963.1 | 24477.6 |
| 62.5° | 2675.3 | 2675.3 | 2693.2 | 2794.6 | 3049.6 | 3613.3 | 4858.5 | 9599.3  | 20755.4 | 24702.8 | 25077.1 |
| 65°   | 2483.0 | 2485.9 | 2503.8 | 2569.4 | 2767.8 | 3248.0 | 4245.6 | 8704.5  | 20722.6 | 25065.2 | 25441.0 |
| 67.5° | 2114.6 | 2107.2 | 2214.5 | 2321.9 | 2477.0 | 2878.1 | 3644.7 | 7826.2  | 19971.0 | 24910.1 | 25262.0 |
| 70°   | 1531.5 | 1521.1 | 1583.7 | 1735.8 | 2110.1 | 2403.9 | 3097.4 | 7092.5  | 17811.7 | 24330.0 | 24622.3 |
| 72.5° | 1257.1 | 1263.1 | 1266.1 | 1246.7 | 1412.2 | 1946.1 | 2587.3 | 6238.0  | 14696.4 | 22550.9 | 23460.6 |
| 75°   | 994.7  | 979.8  | 996.2  | 1011.1 | 1055.8 | 1140.8 | 2093.7 | 5194.1  | 11927.1 | 18909.2 | 20443.7 |
| 77.5° | 627.8  | 618.9  | 617.4  | 626.3  | 684.5  | 723.3  | 1282.5 | 3807.2  | 8298.9  | 11961.4 | 12062.8 |
| 80°   | 436.9  | 435.4  | 436.9  | 448.9  | 468.3  | 477.2  | 711.3  | 2086.3  | 4178.5  | 4356.0  | 4278.4  |
| 82.5° | 310.2  | 299.7  | 290.8  | 313.2  | 302.7  | 293.8  | 428.0  | 955.9   | 1127.4  | 768.0   | 623.3   |
| 85°   | 153.6  | 156.6  | 132.7  | 168.5  | 158.1  | 153.6  | 167.0  | 181.9   | 168.5   | 314.7   | 356.4   |
| 87.5° | 43.2   | 41.8   | 46.2   | 53.7   | 52.2   | 59.7   | 53.7   | 58.2    | 68.6    | 119.3   | 117.8   |
| 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)