

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: P509235

Luminaire Tested: **VERD-CA2-130-760-U-T1**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-130-760-U-T1  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1180mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19357 lumens  
Efficiency: N/A  
Efficacy: 146.9 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

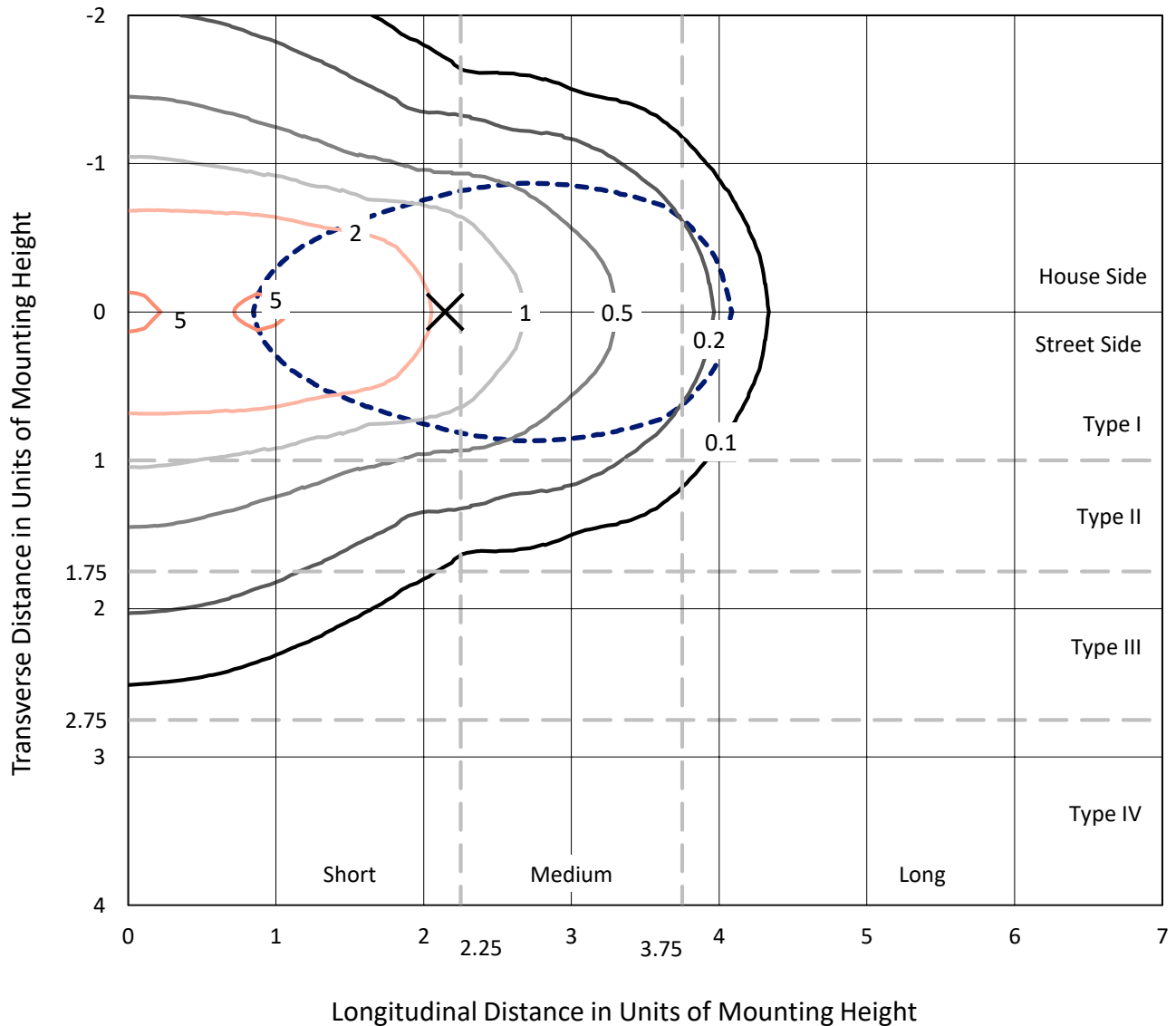
Input Watts (W): 131.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

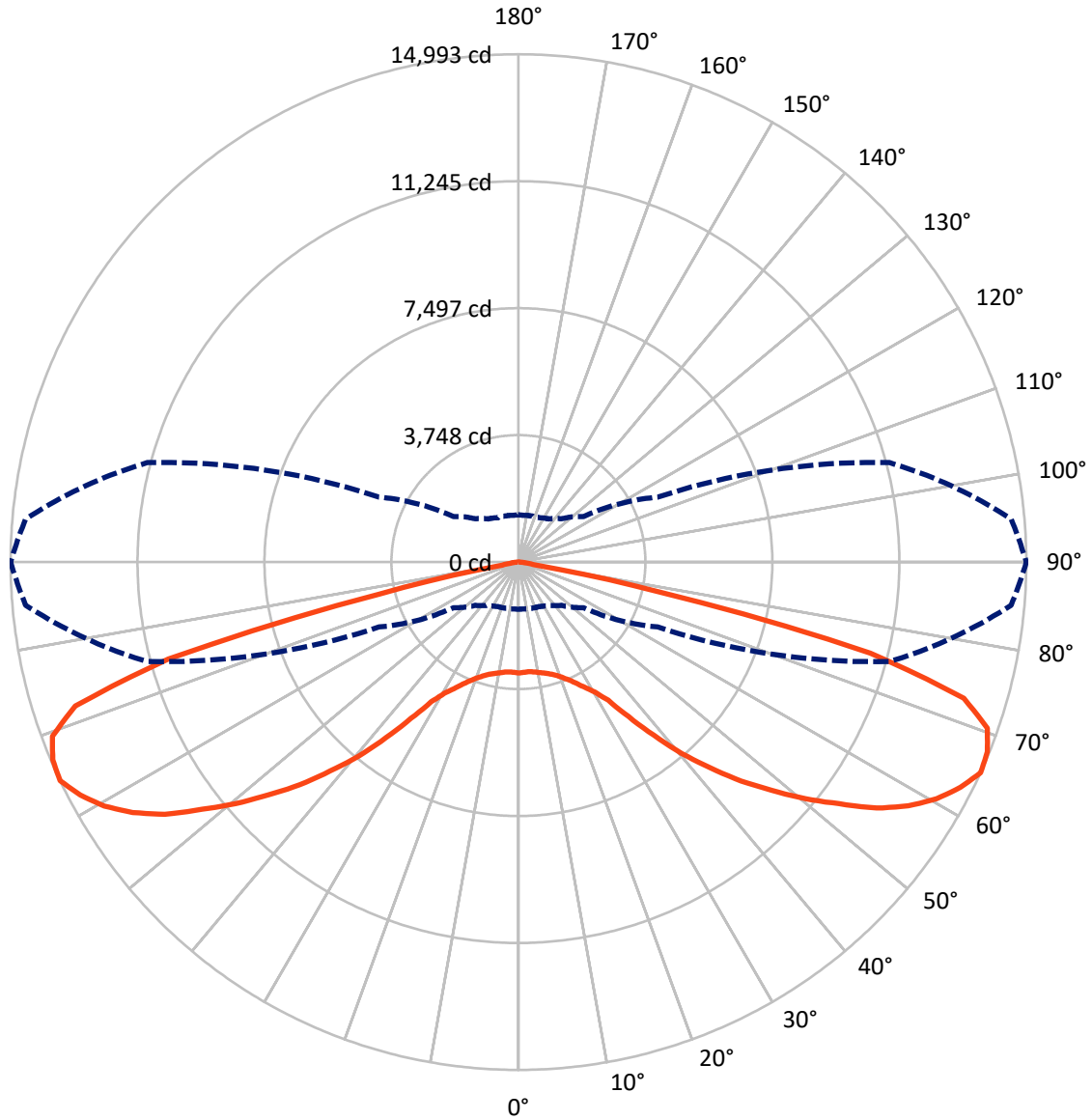
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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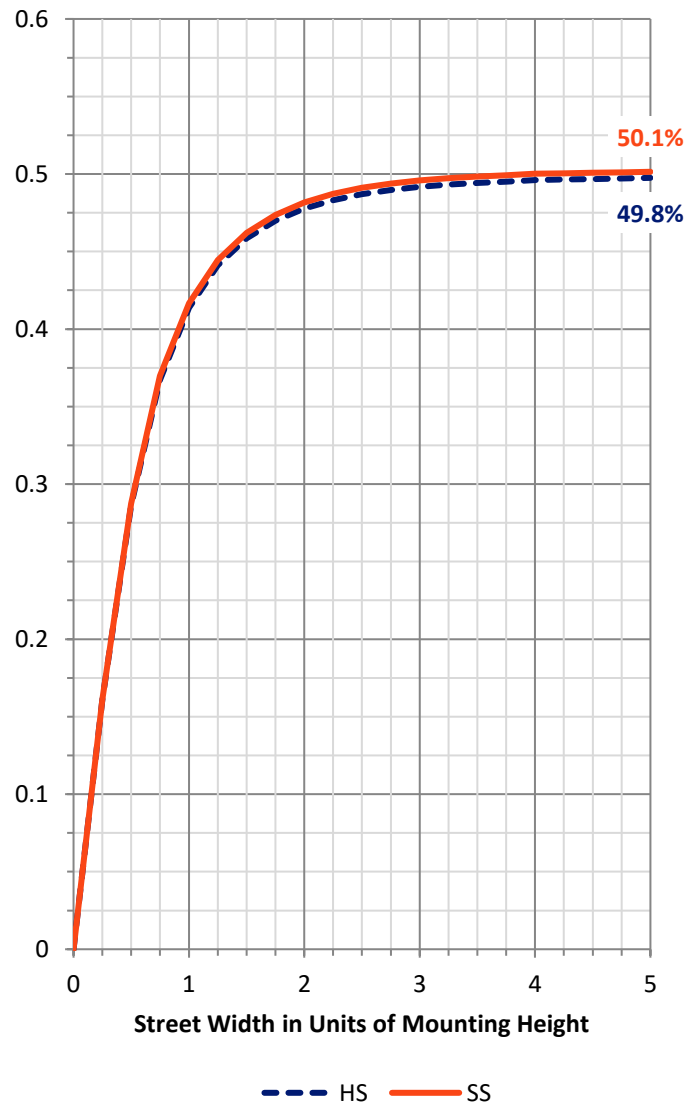
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9678.5   | 0.0    | 9678.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9678.5   | 0.0    | 9678.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19357.0  | 0.0    | 19357.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 310.7   | 1.6       |
| 10°-20°   | 925.3   | 4.8       |
| 20°-30°   | 1528.0  | 7.9       |
| 30°-40°   | 2255.3  | 11.7      |
| 40°-50°   | 3281.5  | 17.0      |
| 50°-60°   | 4200.5  | 21.7      |
| 60°-70°   | 4392.6  | 22.7      |
| 70°-80°   | 2369.8  | 12.2      |
| 80°-90°   | 93.3    | 0.5       |
| 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°    | 19357.0 | 100.0     |
| 0°-180°   | 19357.0 | 100.0     |

**Coefficient of Utilization**



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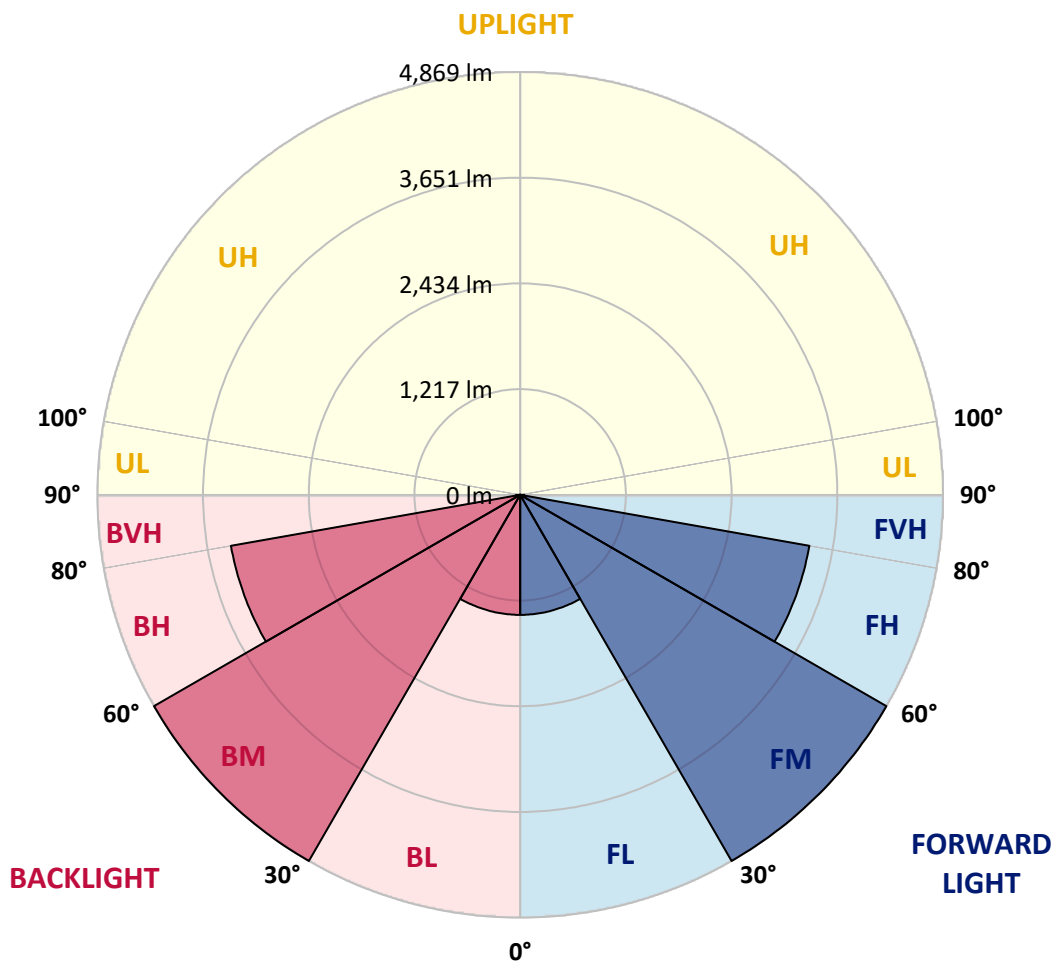
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1382.0 | 7.1       |                         |      |         |
| FM   | (30°-60°)   | 4868.7 | 25.2      |                         |      |         |
| FH   | (60°-80°)   | 3381.2 | 17.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 46.7   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1382.0 | 7.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4868.7 | 25.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3381.2 | 17.5      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 46.7   | 0.2       |                         |      | G1/100  |
| 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°    | 3275.1 | 3275.1 | 3275.1 | 3275.1 | 3275.1 | 3275.1 | 3275.1 | 3275.1 | 3275.1  | 3275.1  | 3275.1  |
| 2.5°  | 3257.3 | 3269.2 | 3275.1 | 3273.1 | 3261.3 | 3261.3 | 3261.3 | 3261.3 | 3257.3  | 3255.4  | 3257.3  |
| 5°    | 3233.7 | 3243.5 | 3255.4 | 3249.5 | 3243.5 | 3249.5 | 3249.5 | 3249.5 | 3251.4  | 3251.4  | 3251.4  |
| 7.5°  | 3214.0 | 3227.8 | 3233.7 | 3241.6 | 3227.8 | 3243.5 | 3267.2 | 3271.1 | 3273.1  | 3273.1  | 3273.1  |
| 10°   | 3196.2 | 3208.0 | 3223.8 | 3221.8 | 3227.8 | 3251.4 | 3277.1 | 3306.6 | 3308.6  | 3314.5  | 3314.5  |
| 12.5° | 3152.8 | 3168.6 | 3186.4 | 3198.2 | 3206.1 | 3261.3 | 3286.9 | 3324.4 | 3354.0  | 3357.9  | 3359.9  |
| 15°   | 3099.6 | 3109.5 | 3129.2 | 3156.8 | 3198.2 | 3257.3 | 3314.5 | 3361.8 | 3409.2  | 3421.0  | 3421.0  |
| 17.5° | 3018.8 | 3030.6 | 3058.2 | 3097.6 | 3172.6 | 3269.2 | 3359.9 | 3423.0 | 3482.1  | 3499.9  | 3503.8  |
| 20°   | 2908.3 | 2930.0 | 2967.5 | 3036.5 | 3137.1 | 3277.1 | 3409.2 | 3503.8 | 3580.7  | 3620.1  | 3622.1  |
| 22.5° | 2776.2 | 2792.0 | 2859.0 | 2957.6 | 3099.6 | 3277.1 | 3460.4 | 3598.5 | 3704.9  | 3766.0  | 3772.0  |
| 25°   | 2632.3 | 2646.1 | 2732.9 | 2870.9 | 3052.3 | 3279.0 | 3511.7 | 3703.0 | 3868.6  | 3949.4  | 3957.3  |
| 27.5° | 2502.2 | 2516.0 | 2614.5 | 2782.1 | 3010.9 | 3284.9 | 3566.9 | 3831.1 | 4061.8  | 4170.3  | 4191.9  |
| 30°   | 2381.9 | 2387.8 | 2500.2 | 2685.5 | 2965.5 | 3288.9 | 3633.9 | 3971.1 | 4264.9  | 4440.4  | 4452.2  |
| 32.5° | 2269.5 | 2285.3 | 2389.8 | 2588.9 | 2912.3 | 3294.8 | 3722.7 | 4170.3 | 4590.2  | 4854.5  | 4864.3  |
| 35°   | 2168.9 | 2182.7 | 2287.2 | 2490.3 | 2841.3 | 3310.6 | 3819.3 | 4424.6 | 5061.5  | 5522.9  | 5599.8  |
| 37.5° | 2088.1 | 2101.9 | 2194.6 | 2385.8 | 2768.3 | 3306.6 | 3945.5 | 4734.2 | 5637.2  | 6366.8  | 6483.1  |
| 40°   | 2023.0 | 2038.8 | 2113.7 | 2287.2 | 2671.7 | 3277.1 | 4077.6 | 5069.4 | 6264.3  | 7256.1  | 7429.6  |
| 42.5° | 1967.8 | 1981.6 | 2046.7 | 2200.5 | 2567.2 | 3229.7 | 4195.9 | 5373.0 | 6869.6  | 8161.1  | 8299.1  |
| 45°   | 1904.7 | 1920.5 | 1983.6 | 2127.5 | 2470.6 | 3156.8 | 4274.8 | 5670.8 | 7482.8  | 9020.8  | 9217.9  |
| 47.5° | 1863.3 | 1873.2 | 1922.5 | 2056.5 | 2362.2 | 3042.4 | 4288.6 | 5881.7 | 8139.4  | 9929.8  | 10065.8 |
| 50°   | 1825.8 | 1823.9 | 1867.3 | 1985.6 | 2261.6 | 2896.5 | 4215.6 | 6045.4 | 8764.4  | 10777.6 | 10980.7 |
| 52.5° | 1772.6 | 1774.6 | 1810.1 | 1916.5 | 2163.0 | 2726.9 | 4042.1 | 6086.8 | 9407.2  | 11627.4 | 11848.3 |
| 55°   | 1709.5 | 1715.4 | 1748.9 | 1837.7 | 2062.5 | 2559.3 | 3746.3 | 6011.9 | 10099.3 | 12467.4 | 12822.3 |
| 57.5° | 1648.4 | 1644.4 | 1678.0 | 1756.8 | 1954.0 | 2389.8 | 3409.2 | 5820.6 | 10763.8 | 13350.7 | 13573.6 |
| 60°   | 1577.4 | 1581.3 | 1605.0 | 1670.1 | 1839.6 | 2210.3 | 3032.6 | 5489.4 | 11211.4 | 14033.0 | 14188.7 |
| 62.5° | 1496.6 | 1496.6 | 1518.3 | 1567.5 | 1707.5 | 2015.1 | 2671.7 | 5051.6 | 11463.8 | 14387.9 | 14646.2 |
| 65°   | 1394.0 | 1388.1 | 1411.8 | 1447.3 | 1553.7 | 1806.1 | 2342.4 | 4537.0 | 11339.6 | 14602.8 | 14993.2 |
| 67.5° | 1283.6 | 1271.8 | 1283.6 | 1299.4 | 1378.3 | 1581.3 | 2009.2 | 4071.7 | 10759.9 | 14464.8 | 14934.1 |
| 70°   | 1139.7 | 1123.9 | 1129.8 | 1129.8 | 1183.1 | 1319.1 | 1683.9 | 3677.3 | 9436.8  | 14019.2 | 14685.6 |
| 72.5° | 932.6  | 926.7  | 936.6  | 928.7  | 968.1  | 1058.8 | 1396.0 | 3198.2 | 7689.8  | 12950.5 | 13751.0 |
| 75°   | 567.9  | 575.8  | 607.3  | 662.5  | 698.0  | 767.0  | 1021.4 | 2529.8 | 5822.6  | 9770.0  | 10726.3 |
| 77.5° | 236.6  | 264.2  | 291.8  | 301.7  | 341.1  | 333.2  | 461.4  | 1147.6 | 2358.2  | 3890.3  | 4211.7  |
| 80°   | 78.9   | 80.8   | 179.4  | 199.1  | 218.9  | 179.4  | 175.5  | 384.5  | 674.3   | 569.8   | 479.1   |
| 82.5° | 47.3   | 51.3   | 98.6   | 106.5  | 92.7   | 96.6   | 102.5  | 130.1  | 126.2   | 205.1   | 232.7   |
| 85°   | 23.7   | 25.6   | 43.4   | 49.3   | 49.3   | 59.2   | 59.2   | 63.1   | 71.0    | 124.2   | 134.1   |
| 87.5° | 5.9    | 5.9    | 11.8   | 17.7   | 19.7   | 23.7   | 23.7   | 27.6   | 31.5    | 45.4    | 53.2    |
| 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)