

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: P507486

Luminaire Tested: **VERD-S-CA1-30-727-U-T5**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-30-727-U-T5  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 590mA LED AND TYPE V OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4242.3 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

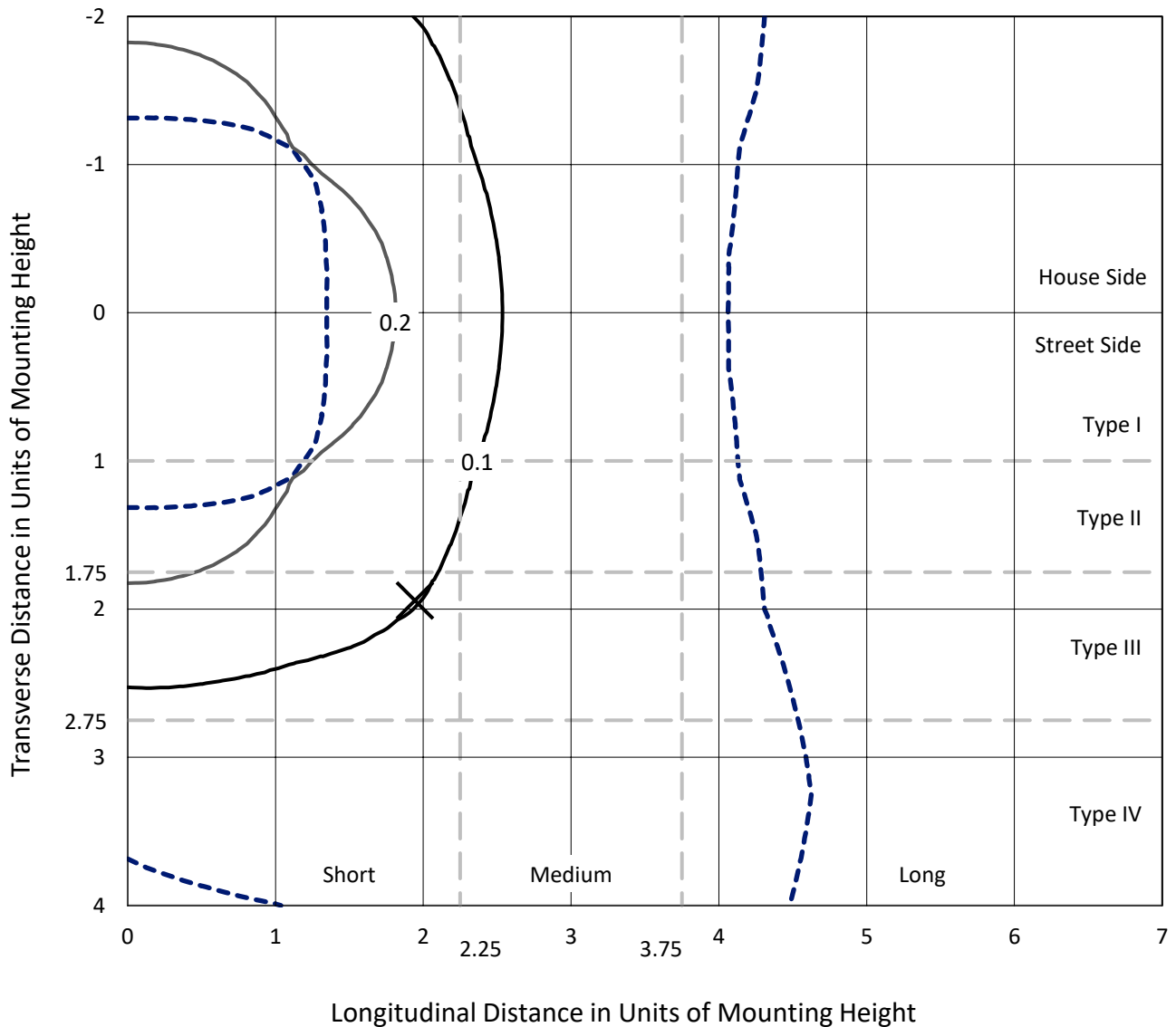
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

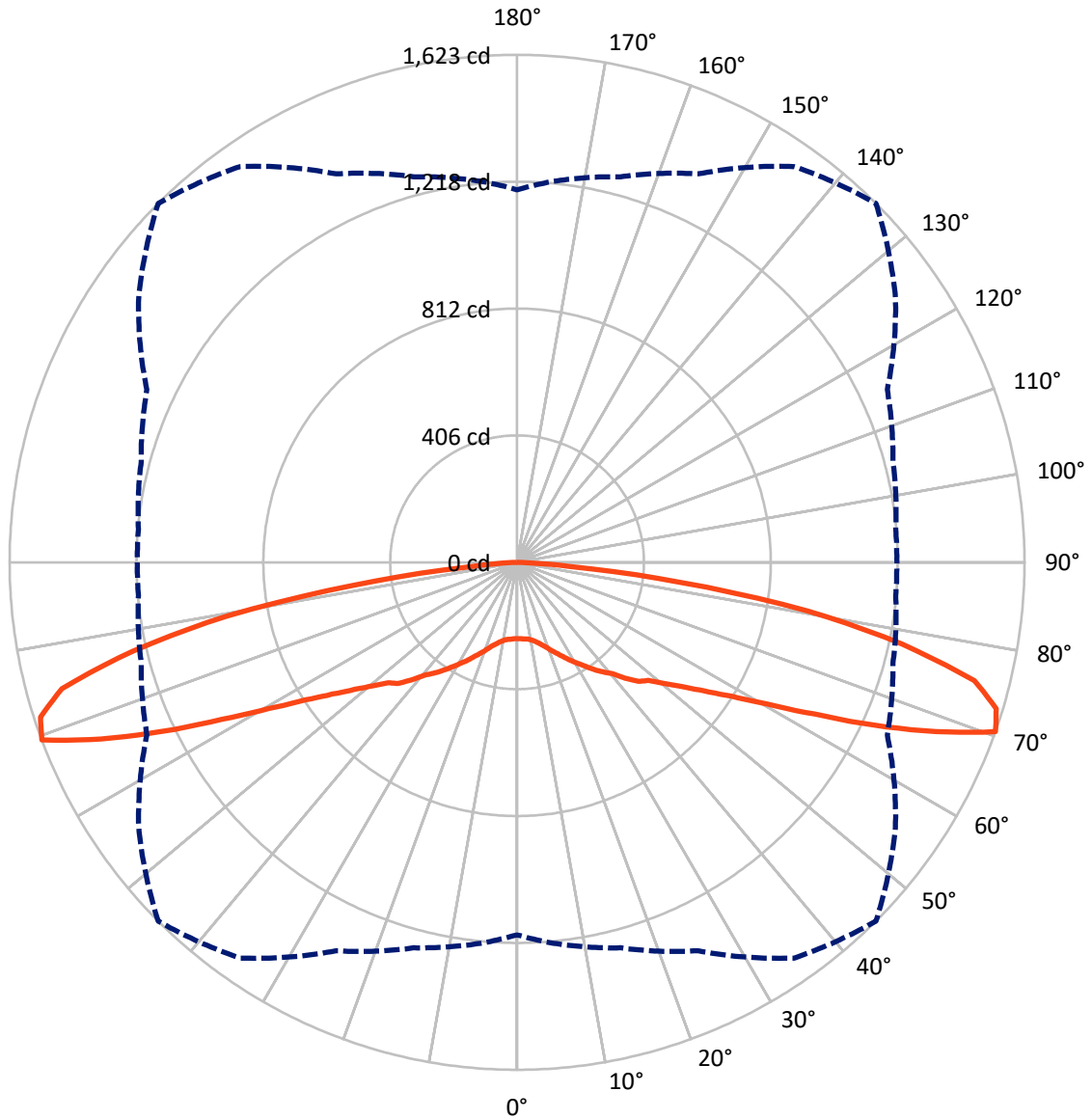
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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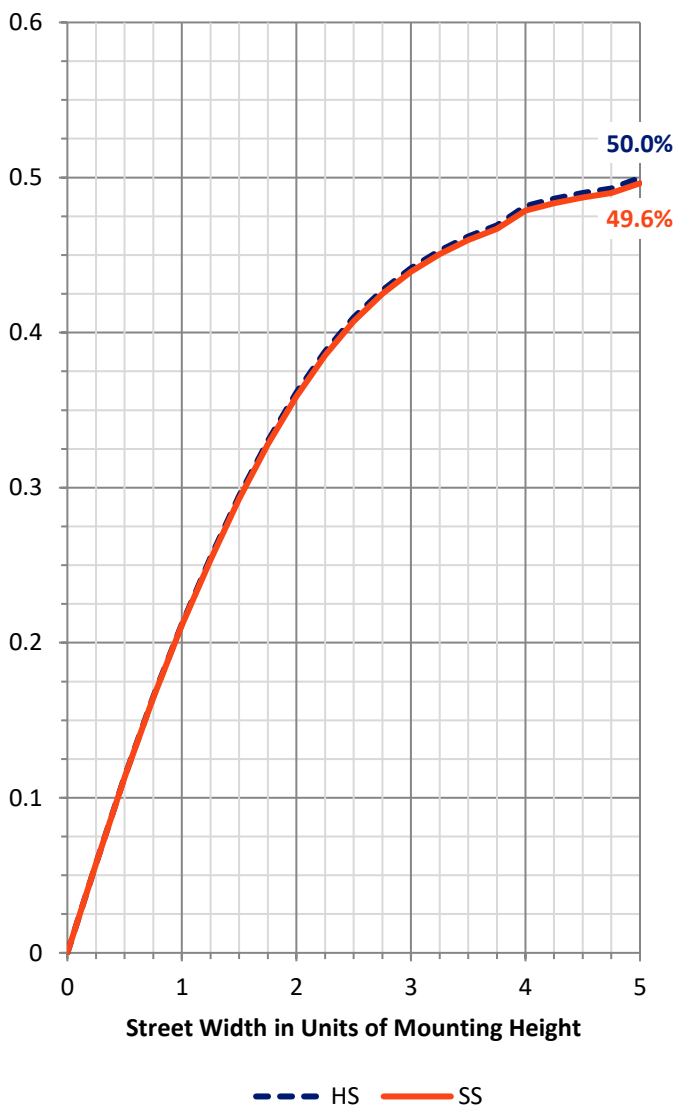
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2121.1   | 0.0    | 2121.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2121.1   | 0.0    | 2121.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4242.3   | 0.0    | 4242.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.7   | 0.6       |
| 10°-20°   | 76.6   | 1.8       |
| 20°-30°   | 151.9  | 3.6       |
| 30°-40°   | 264.4  | 6.2       |
| 40°-50°   | 433.1  | 10.2      |
| 50°-60°   | 736.4  | 17.4      |
| 60°-70°   | 1224.2 | 28.9      |
| 70°-80°   | 1142.0 | 26.9      |
| 80°-90°   | 190.0  | 4.5       |
| 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°    | 4242.3 | 100.0     |
| 0°-180°   | 4242.3 | 100.0     |

**Coefficient of Utilization**



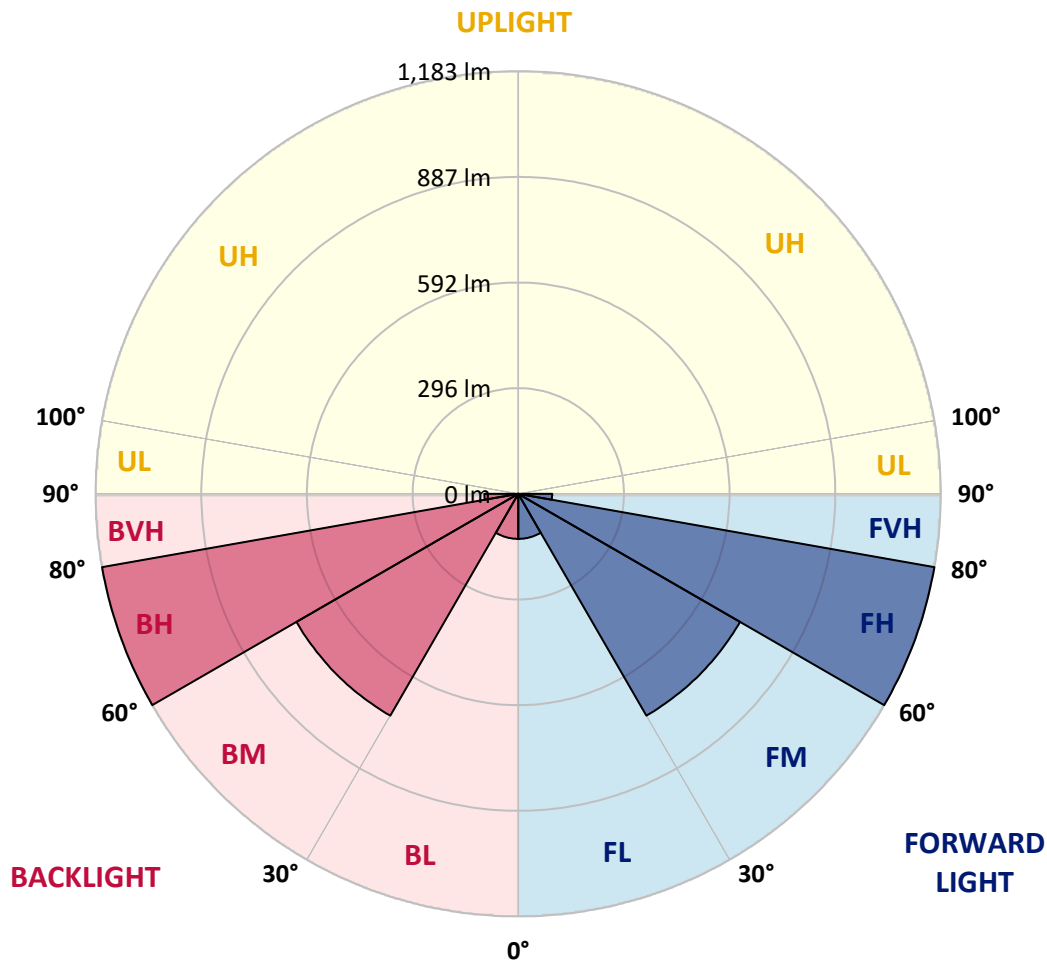
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 126.1  | 3.0       |                         |      |         |
| FM (30°-60°)   | 717.0  | 16.9      |                         |      |         |
| FH (60°-80°)   | 1183.1 | 27.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 95.0   | 2.2       |                         |      | G1/100  |
| BL (0°-30°)    | 126.1  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 717.0  | 16.9      | B1/1000                 |      |         |
| BH (60°-80°)   | 1183.1 | 27.9      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 95.0   | 2.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 244.5  | 244.5  | 244.5  | 244.5  | 244.5  | 244.5  | 244.5  | 244.5  | 244.5  | 244.5  | 244.5  |
| 2.5°  | 244.5  | 244.5  | 244.5  | 244.5  | 244.5  | 244.5  | 244.5  | 245.7  | 245.7  | 245.7  | 245.7  |
| 5°    | 246.8  | 246.8  | 245.7  | 245.7  | 245.7  | 246.8  | 246.8  | 246.8  | 246.8  | 248.0  | 248.0  |
| 7.5°  | 248.0  | 248.0  | 248.0  | 248.0  | 248.0  | 248.0  | 248.0  | 248.0  | 249.1  | 249.1  | 249.1  |
| 10°   | 252.6  | 252.6  | 252.6  | 252.6  | 252.6  | 252.6  | 252.6  | 252.6  | 252.6  | 252.6  | 252.6  |
| 12.5° | 257.2  | 257.2  | 258.3  | 258.3  | 259.5  | 259.5  | 258.3  | 258.3  | 257.2  | 256.0  | 256.0  |
| 15°   | 265.2  | 265.2  | 266.4  | 267.5  | 269.8  | 269.8  | 268.7  | 267.5  | 265.2  | 264.1  | 264.1  |
| 17.5° | 273.3  | 273.3  | 274.4  | 276.7  | 280.2  | 281.3  | 279.0  | 276.7  | 274.4  | 273.3  | 273.3  |
| 20°   | 284.8  | 285.9  | 287.1  | 289.4  | 295.0  | 297.3  | 293.9  | 289.4  | 288.2  | 288.2  | 288.2  |
| 22.5° | 301.9  | 301.9  | 301.9  | 305.4  | 310.0  | 313.4  | 308.8  | 306.5  | 304.2  | 304.2  | 304.2  |
| 25°   | 320.3  | 320.3  | 320.3  | 321.5  | 328.4  | 331.8  | 327.2  | 323.8  | 322.6  | 323.8  | 323.8  |
| 27.5° | 341.0  | 341.0  | 341.0  | 341.0  | 346.7  | 352.4  | 346.7  | 343.3  | 344.5  | 344.5  | 344.5  |
| 30°   | 362.8  | 362.8  | 363.9  | 363.9  | 366.2  | 373.1  | 367.4  | 366.2  | 367.4  | 368.5  | 368.5  |
| 32.5° | 388.1  | 389.2  | 388.1  | 388.1  | 390.4  | 395.0  | 391.5  | 391.5  | 393.9  | 396.2  | 396.2  |
| 35°   | 414.4  | 414.4  | 414.4  | 414.4  | 415.6  | 420.2  | 417.9  | 417.9  | 421.3  | 424.8  | 424.8  |
| 37.5° | 443.2  | 444.4  | 440.9  | 439.8  | 442.1  | 444.4  | 443.2  | 445.5  | 451.3  | 455.8  | 456.9  |
| 40°   | 474.2  | 474.2  | 470.7  | 467.3  | 467.3  | 468.4  | 470.7  | 475.3  | 483.4  | 489.1  | 490.3  |
| 42.5° | 513.2  | 516.6  | 510.9  | 506.3  | 504.1  | 506.3  | 508.6  | 516.6  | 524.7  | 529.3  | 529.3  |
| 45°   | 564.8  | 566.0  | 559.1  | 551.1  | 545.4  | 543.1  | 546.5  | 554.6  | 563.7  | 572.9  | 572.9  |
| 47.5° | 628.0  | 625.7  | 610.9  | 586.7  | 569.4  | 564.8  | 570.6  | 589.0  | 610.9  | 624.5  | 626.8  |
| 50°   | 707.3  | 705.0  | 682.0  | 646.4  | 615.3  | 608.6  | 611.9  | 639.5  | 671.6  | 692.3  | 695.8  |
| 52.5° | 801.4  | 795.6  | 770.3  | 723.3  | 676.2  | 660.2  | 668.2  | 705.0  | 746.3  | 772.6  | 776.1  |
| 55°   | 897.8  | 894.4  | 868.0  | 815.2  | 755.5  | 725.6  | 735.9  | 785.3  | 836.9  | 864.6  | 866.9  |
| 57.5° | 991.9  | 993.1  | 969.0  | 920.8  | 850.8  | 807.1  | 821.0  | 879.4  | 938.0  | 965.6  | 965.6  |
| 60°   | 1081.6 | 1080.4 | 1063.2 | 1025.3 | 971.3  | 920.8  | 938.0  | 986.2  | 1037.8 | 1063.2 | 1065.5 |
| 62.5° | 1167.6 | 1166.5 | 1160.7 | 1136.7 | 1105.6 | 1068.9 | 1070.1 | 1102.2 | 1143.5 | 1161.9 | 1165.3 |
| 65°   | 1279.0 | 1276.7 | 1268.7 | 1253.7 | 1258.3 | 1256.0 | 1218.1 | 1226.2 | 1265.2 | 1285.9 | 1287.1 |
| 67.5° | 1287.1 | 1300.9 | 1327.2 | 1372.0 | 1436.3 | 1445.5 | 1397.3 | 1324.9 | 1305.4 | 1294.0 | 1292.8 |
| 70°   | 1191.8 | 1221.6 | 1276.7 | 1370.8 | 1545.4 | 1623.4 | 1477.6 | 1306.5 | 1244.6 | 1215.8 | 1214.7 |
| 72.5° | 1024.1 | 1086.2 | 1158.4 | 1308.8 | 1552.3 | 1602.8 | 1485.7 | 1238.9 | 1139.0 | 1091.8 | 1085.0 |
| 75°   | 793.3  | 853.1  | 973.6  | 1180.3 | 1460.5 | 1511.0 | 1396.1 | 1111.4 | 982.7  | 936.8  | 923.1  |
| 77.5° | 488.0  | 559.1  | 686.6  | 923.1  | 1208.9 | 1260.6 | 1168.8 | 886.3  | 748.6  | 676.2  | 679.7  |
| 80°   | 237.7  | 307.7  | 414.4  | 623.4  | 869.2  | 944.9  | 803.7  | 571.7  | 455.8  | 405.2  | 400.6  |
| 82.5° | 103.3  | 140.0  | 199.7  | 312.3  | 493.7  | 528.1  | 408.7  | 282.5  | 225.1  | 200.9  | 198.6  |
| 85°   | 15.0   | 20.7   | 51.7   | 93.0   | 149.2  | 167.6  | 96.4   | 58.6   | 44.8   | 40.2   | 36.7   |
| 87.5° | 10.4   | 10.4   | 10.4   | 11.5   | 13.8   | 15.0   | 12.7   | 11.5   | 10.4   | 10.4   | 10.4   |
| 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)