

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: P507503

Luminaire Tested: **VERD-S-CA1-30-750-U-T1**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-30-750-U-T1  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 590mA LED AND TYPE I OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5079.8 lumens  
Efficiency: N/A  
Efficacy: 149.4 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

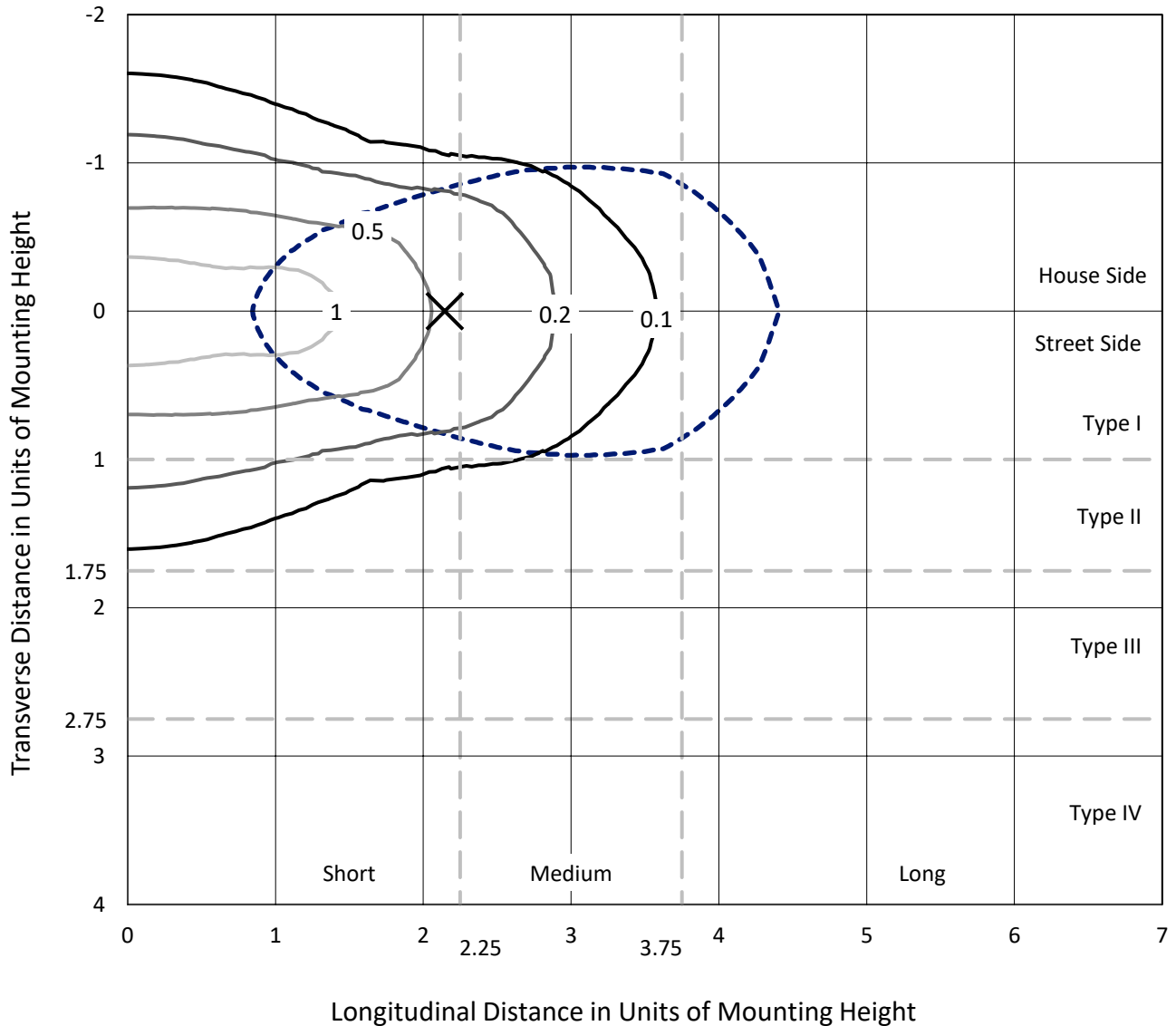
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

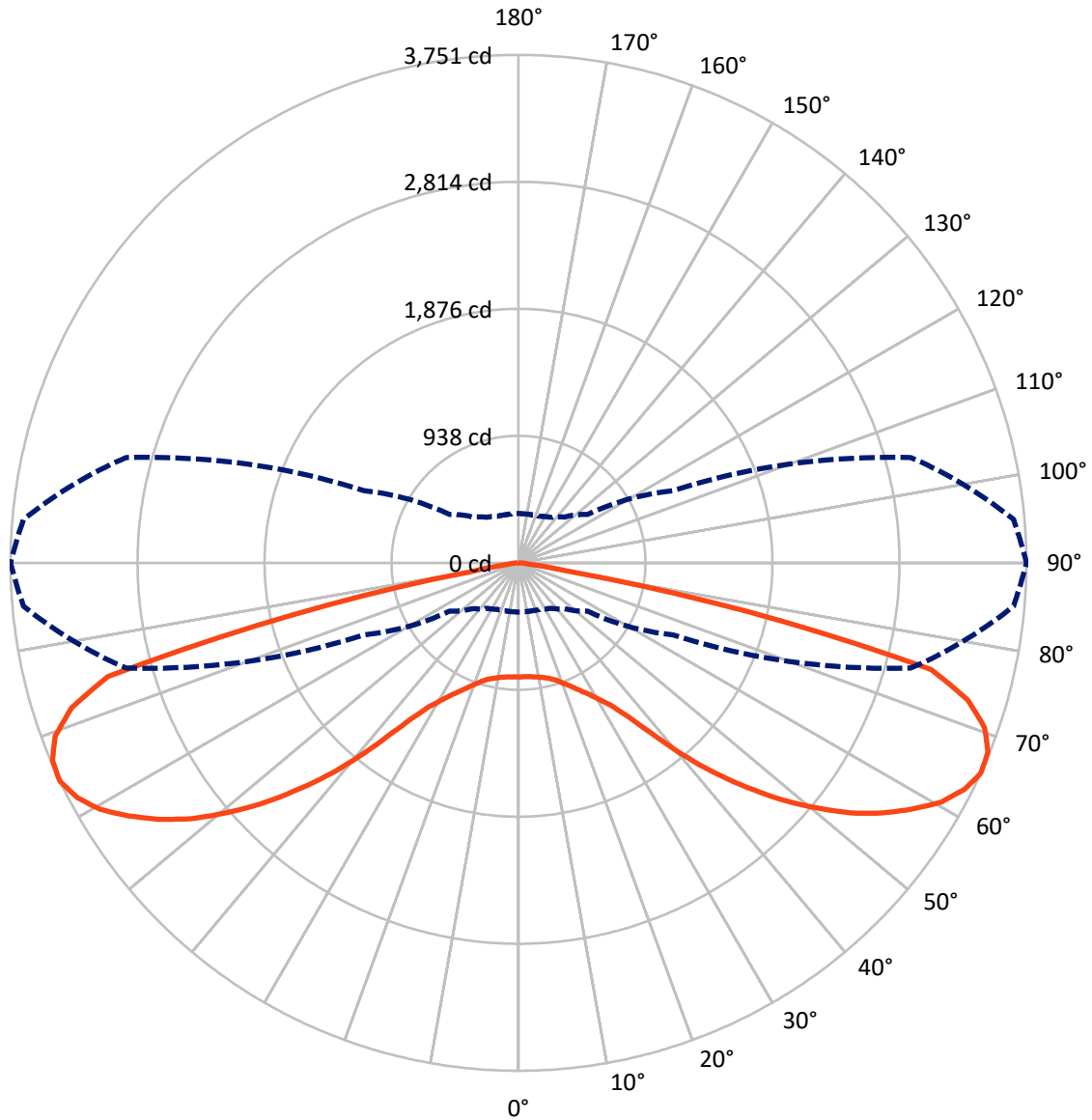
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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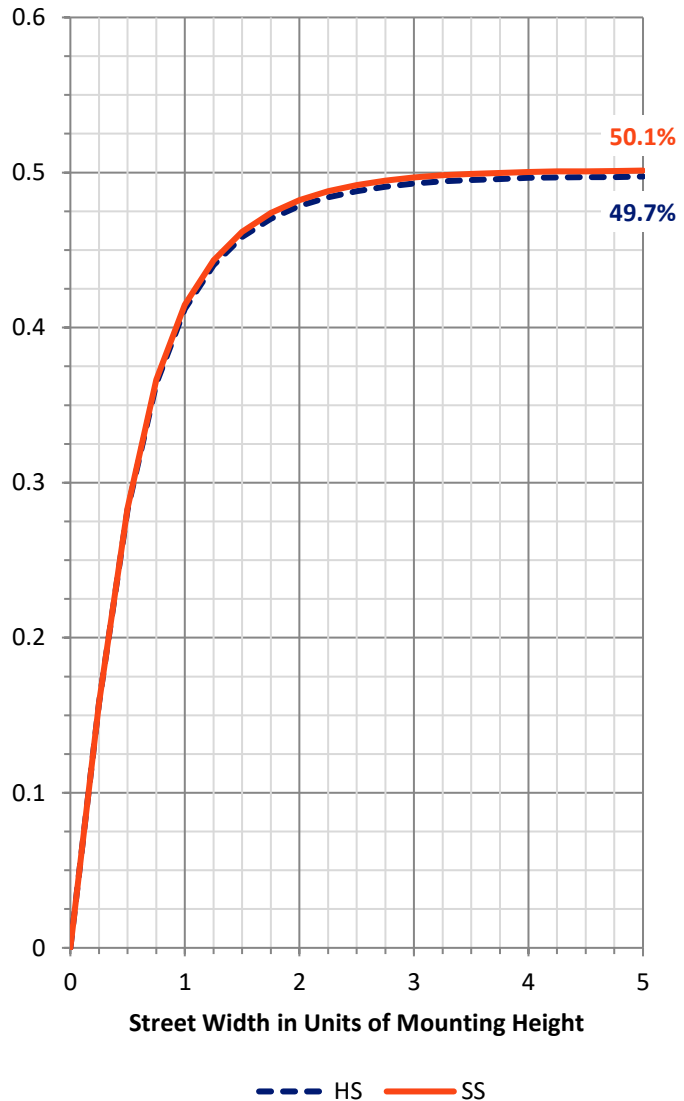
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2539.9   | 0.0    | 2539.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2539.9   | 0.0    | 2539.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5079.8   | 0.0    | 5079.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.7   | 1.6       |
| 10°-20°   | 240.9  | 4.7       |
| 20°-30°   | 399.0  | 7.9       |
| 30°-40°   | 577.5  | 11.4      |
| 40°-50°   | 836.0  | 16.5      |
| 50°-60°   | 1088.1 | 21.4      |
| 60°-70°   | 1149.3 | 22.6      |
| 70°-80°   | 676.4  | 13.3      |
| 80°-90°   | 31.9   | 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°    | 5079.8 | 100.0     |
| 0°-180°   | 5079.8 | 100.0     |

**Coefficient of Utilization**



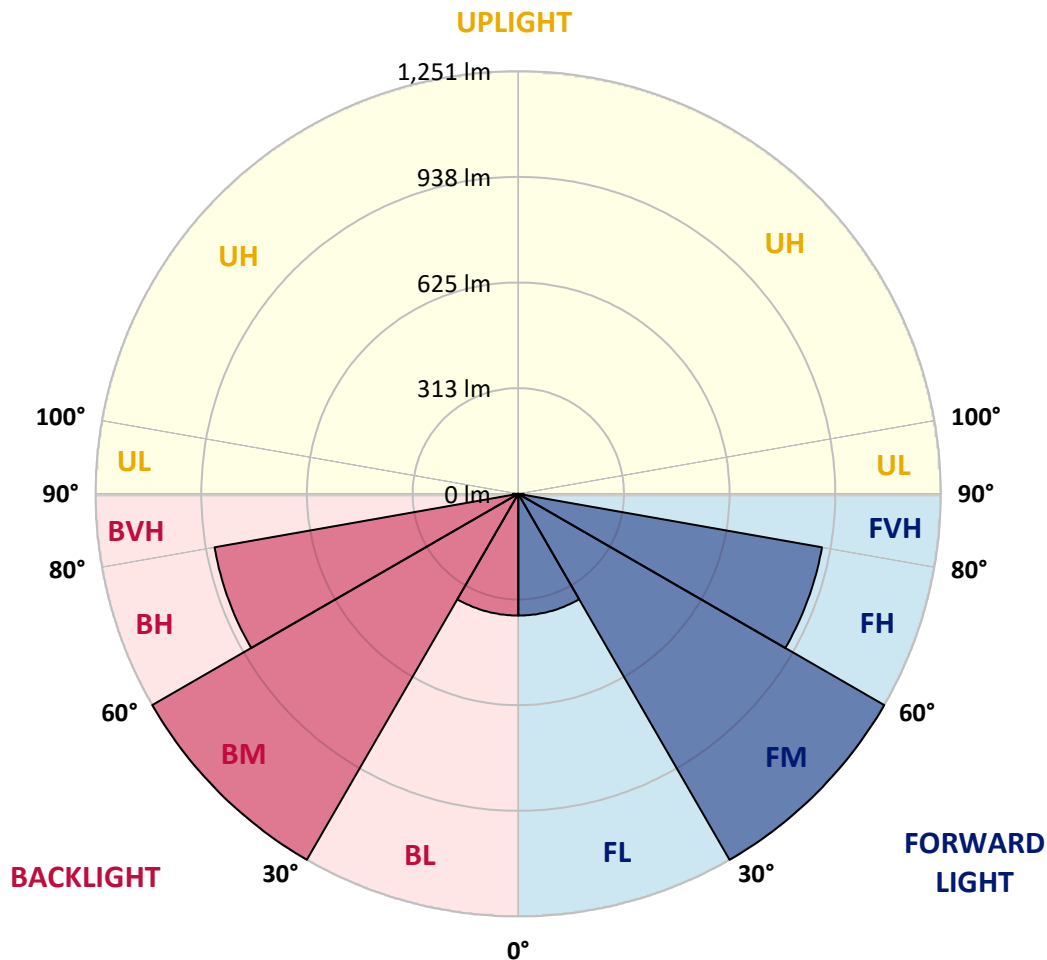
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 360.3  | 7.1       |                         |      |         |
| FM (30°-60°)   | 1250.8 | 24.6      |                         |      |         |
| FH (60°-80°)   | 912.9  | 18.0      |                         |      | G1/1800 |
| FVH (80°-90°)  | 16.0   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 360.3  | 7.1       | B1/500                  |      |         |
| BM (30°-60°)   | 1250.8 | 24.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 912.9  | 18.0      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 16.0   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0°    | 843.6 | 843.6 | 843.6 | 843.6 | 843.6 | 843.6 | 843.6  | 843.6  | 843.6  | 843.6  | 843.6  |
| 2.5°  | 846.4 | 846.4 | 847.8 | 846.4 | 846.4 | 846.4 | 846.4  | 845.0  | 843.6  | 842.2  | 842.2  |
| 5°    | 845.0 | 845.0 | 845.0 | 846.4 | 846.4 | 847.8 | 847.8  | 846.4  | 846.4  | 846.4  | 845.0  |
| 7.5°  | 839.5 | 840.9 | 840.9 | 842.2 | 843.6 | 846.4 | 847.8  | 849.1  | 850.5  | 850.5  | 850.5  |
| 10°   | 832.6 | 832.6 | 834.0 | 836.7 | 840.9 | 843.6 | 850.5  | 854.7  | 857.4  | 858.8  | 858.8  |
| 12.5° | 821.5 | 821.5 | 824.3 | 829.8 | 838.1 | 846.4 | 854.7  | 863.0  | 868.5  | 871.2  | 871.2  |
| 15°   | 807.7 | 807.7 | 811.9 | 820.1 | 835.3 | 850.5 | 864.3  | 876.8  | 885.0  | 889.2  | 887.8  |
| 17.5° | 787.0 | 787.0 | 792.5 | 807.7 | 831.2 | 856.0 | 879.5  | 894.7  | 907.1  | 911.3  | 911.3  |
| 20°   | 759.4 | 759.4 | 769.1 | 789.8 | 822.9 | 860.2 | 893.3  | 916.8  | 934.7  | 947.2  | 949.9  |
| 22.5° | 724.9 | 724.9 | 740.1 | 769.1 | 809.1 | 857.4 | 903.0  | 943.0  | 974.8  | 988.6  | 990.0  |
| 25°   | 684.8 | 687.6 | 708.3 | 745.6 | 796.7 | 856.0 | 918.2  | 973.4  | 1014.8 | 1036.9 | 1041.1 |
| 27.5° | 647.6 | 650.3 | 676.6 | 723.5 | 784.2 | 857.4 | 932.0  | 1006.5 | 1065.9 | 1092.1 | 1096.3 |
| 30°   | 613.0 | 615.8 | 643.4 | 698.6 | 774.6 | 858.8 | 948.6  | 1039.7 | 1118.4 | 1159.8 | 1168.1 |
| 32.5° | 582.7 | 585.4 | 613.0 | 672.4 | 760.8 | 860.2 | 969.3  | 1083.9 | 1186.0 | 1248.2 | 1255.1 |
| 35°   | 556.4 | 559.2 | 588.2 | 644.8 | 742.8 | 863.0 | 994.1  | 1136.3 | 1275.8 | 1376.6 | 1393.1 |
| 37.5° | 534.3 | 537.1 | 562.0 | 618.6 | 722.1 | 863.0 | 1020.4 | 1197.1 | 1393.1 | 1568.5 | 1598.9 |
| 40°   | 517.8 | 520.5 | 539.9 | 592.3 | 697.3 | 857.4 | 1043.8 | 1263.4 | 1532.6 | 1808.7 | 1858.4 |
| 42.5° | 502.6 | 506.7 | 523.3 | 568.9 | 671.0 | 846.4 | 1068.7 | 1329.6 | 1696.9 | 2058.7 | 2118.0 |
| 45°   | 487.4 | 491.5 | 509.5 | 550.9 | 643.4 | 829.8 | 1083.9 | 1394.5 | 1881.9 | 2312.7 | 2363.8 |
| 47.5° | 477.7 | 477.7 | 492.9 | 531.6 | 617.2 | 800.8 | 1088.0 | 1455.3 | 2072.5 | 2555.7 | 2615.1 |
| 50°   | 468.1 | 468.1 | 480.5 | 513.6 | 589.6 | 763.5 | 1072.8 | 1513.3 | 2271.3 | 2786.3 | 2844.3 |
| 52.5° | 455.6 | 454.3 | 466.7 | 497.1 | 563.3 | 716.6 | 1036.9 | 1551.9 | 2474.3 | 3004.4 | 3069.3 |
| 55°   | 440.4 | 440.4 | 450.1 | 477.7 | 538.5 | 669.6 | 972.0  | 1569.9 | 2662.0 | 3193.6 | 3262.6 |
| 57.5° | 423.9 | 422.5 | 432.2 | 454.3 | 510.9 | 624.1 | 885.0  | 1557.5 | 2815.3 | 3373.1 | 3431.1 |
| 60°   | 408.7 | 407.3 | 414.2 | 433.5 | 479.1 | 579.9 | 796.7  | 1489.8 | 2938.2 | 3520.8 | 3587.1 |
| 62.5° | 389.4 | 389.4 | 394.9 | 410.1 | 448.7 | 530.2 | 708.3  | 1384.9 | 2998.9 | 3620.2 | 3690.7 |
| 65°   | 364.5 | 363.1 | 367.3 | 378.3 | 410.1 | 477.7 | 622.7  | 1259.2 | 3000.3 | 3670.0 | 3751.4 |
| 67.5° | 318.9 | 330.0 | 334.1 | 341.0 | 367.3 | 423.9 | 541.2  | 1147.4 | 2892.6 | 3660.3 | 3739.0 |
| 70°   | 258.2 | 294.1 | 294.1 | 298.2 | 317.6 | 363.1 | 465.3  | 1053.5 | 2653.7 | 3567.8 | 3652.0 |
| 72.5° | 179.5 | 211.3 | 237.5 | 247.1 | 263.7 | 295.5 | 392.1  | 940.3  | 2242.3 | 3356.5 | 3469.7 |
| 75°   | 66.3  | 62.1  | 89.7  | 150.5 | 167.1 | 194.7 | 287.2  | 774.6  | 1812.9 | 2954.7 | 3148.0 |
| 77.5° | 19.3  | 20.7  | 29.0  | 77.3  | 88.4  | 95.3  | 156.0  | 386.6  | 839.5  | 1511.9 | 1710.7 |
| 80°   | 16.6  | 16.6  | 20.7  | 24.9  | 29.0  | 46.9  | 51.1   | 143.6  | 276.1  | 361.7  | 363.1  |
| 82.5° | 12.4  | 12.4  | 15.2  | 17.9  | 22.1  | 27.6  | 30.4   | 49.7   | 70.4   | 73.2   | 73.2   |
| 85°   | 8.3   | 8.3   | 9.7   | 11.0  | 13.8  | 16.6  | 17.9   | 20.7   | 26.2   | 44.2   | 46.9   |
| 87.5° | 4.1   | 4.1   | 5.5   | 5.5   | 6.9   | 6.9   | 8.3    | 12.4   | 13.8   | 20.7   | 20.7   |
| 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)