

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: INVUE

Report Number: P672831

Luminaire Tested: **CCP-SA-1B-740-U-RW**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672831  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-740-U-RW  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ RW distribution lens  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3513.1 lumens  
Efficiency: N/A  
Efficacy: 146.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

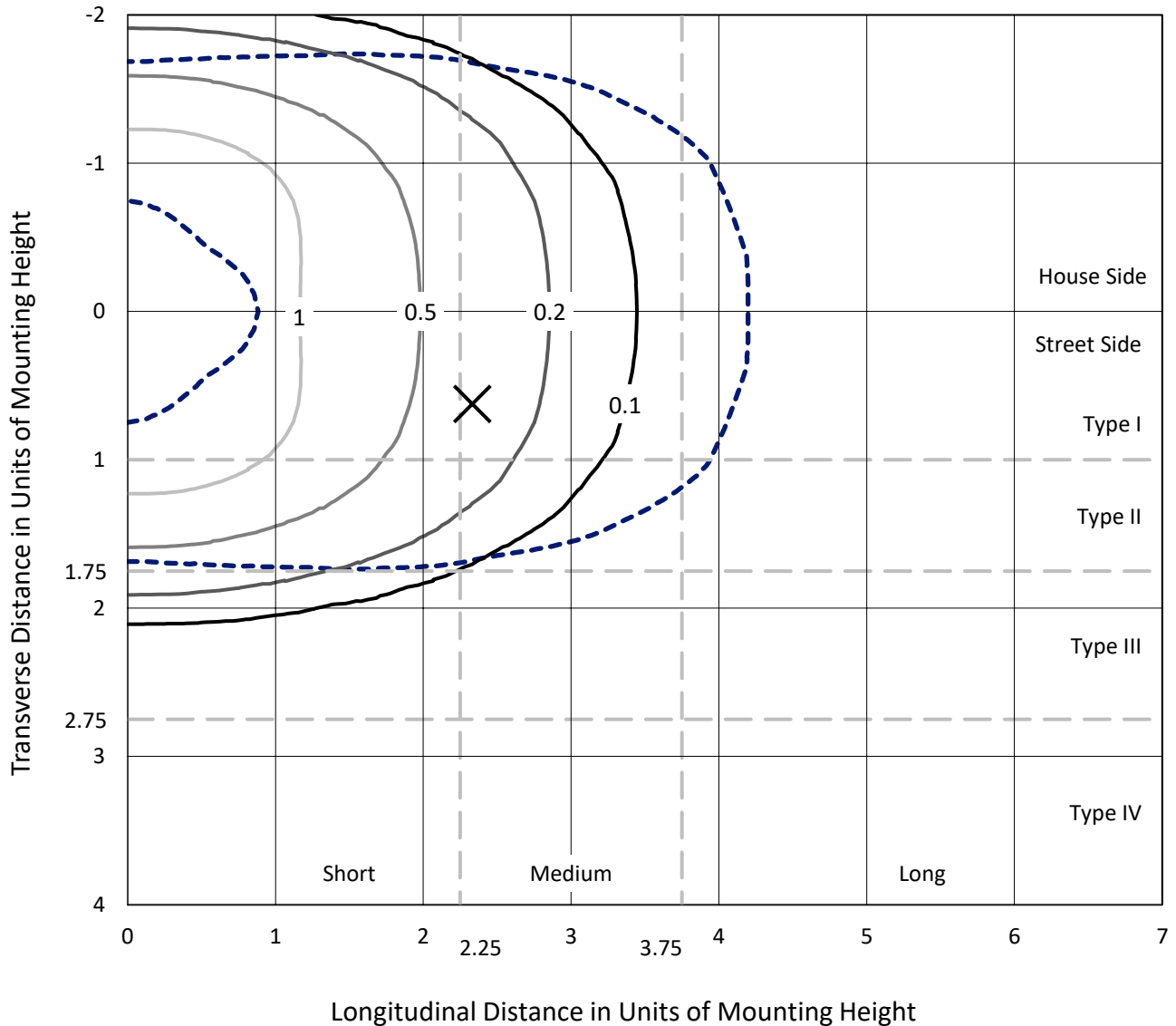
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

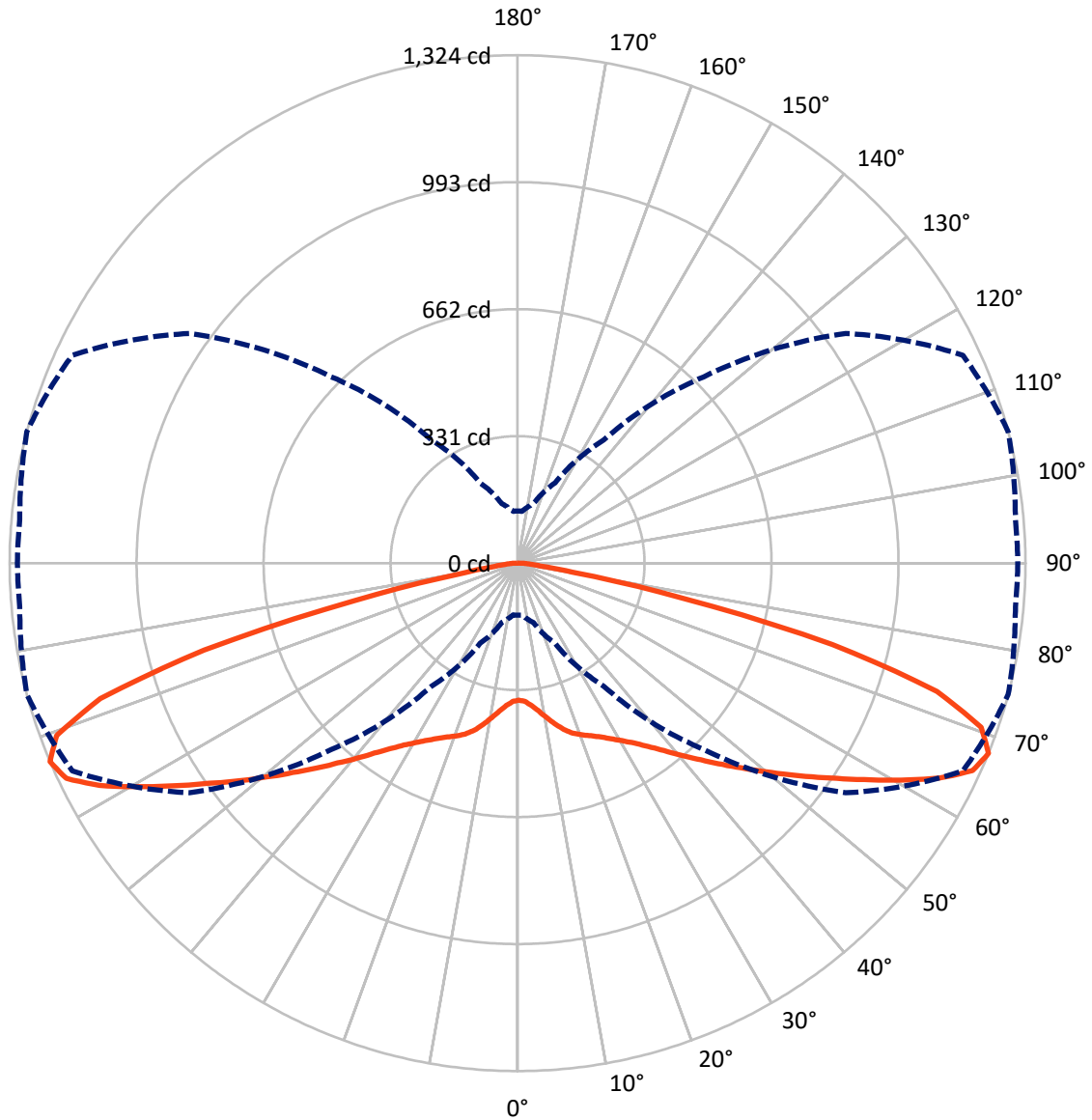
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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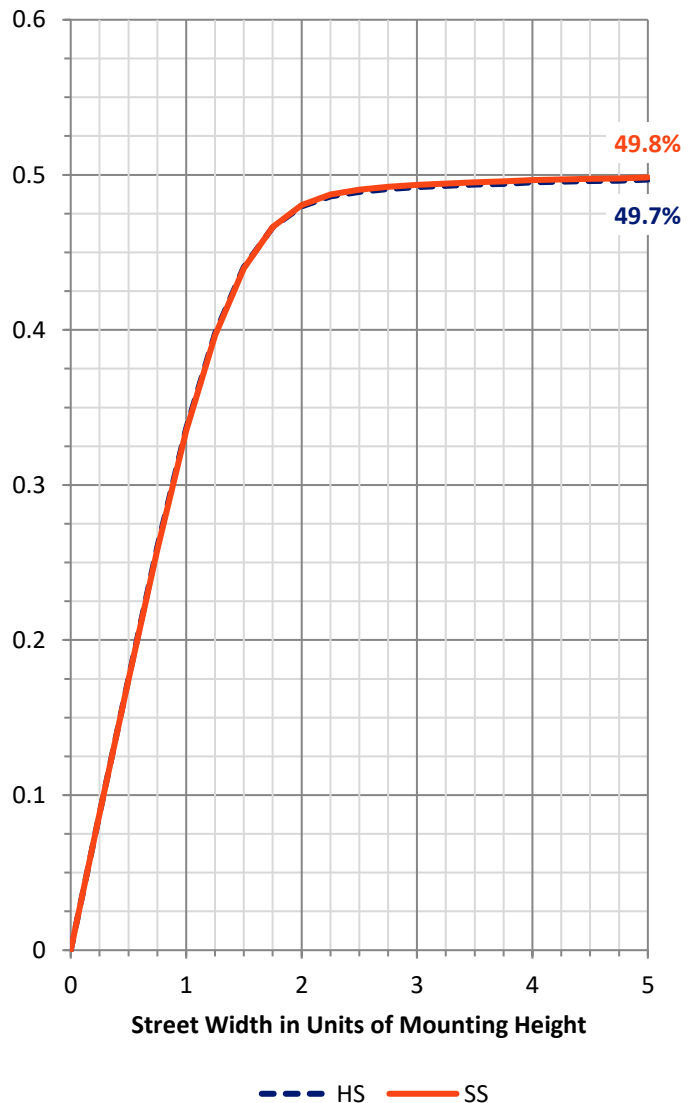
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1756.6   | 0.0    | 1756.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1756.6   | 0.0    | 1756.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3513.1   | 0.0    | 3513.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 35.4   | 1.0       |
| 10°-20°   | 119.2  | 3.4       |
| 20°-30°   | 232.7  | 6.6       |
| 30°-40°   | 401.4  | 11.4      |
| 40°-50°   | 650.3  | 18.5      |
| 50°-60°   | 884.4  | 25.2      |
| 60°-70°   | 815.9  | 23.2      |
| 70°-80°   | 341.4  | 9.7       |
| 80°-90°   | 32.6   | 0.9       |
| 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°    | 3513.1 | 100.0     |
| 0°-180°   | 3513.1 | 100.0     |



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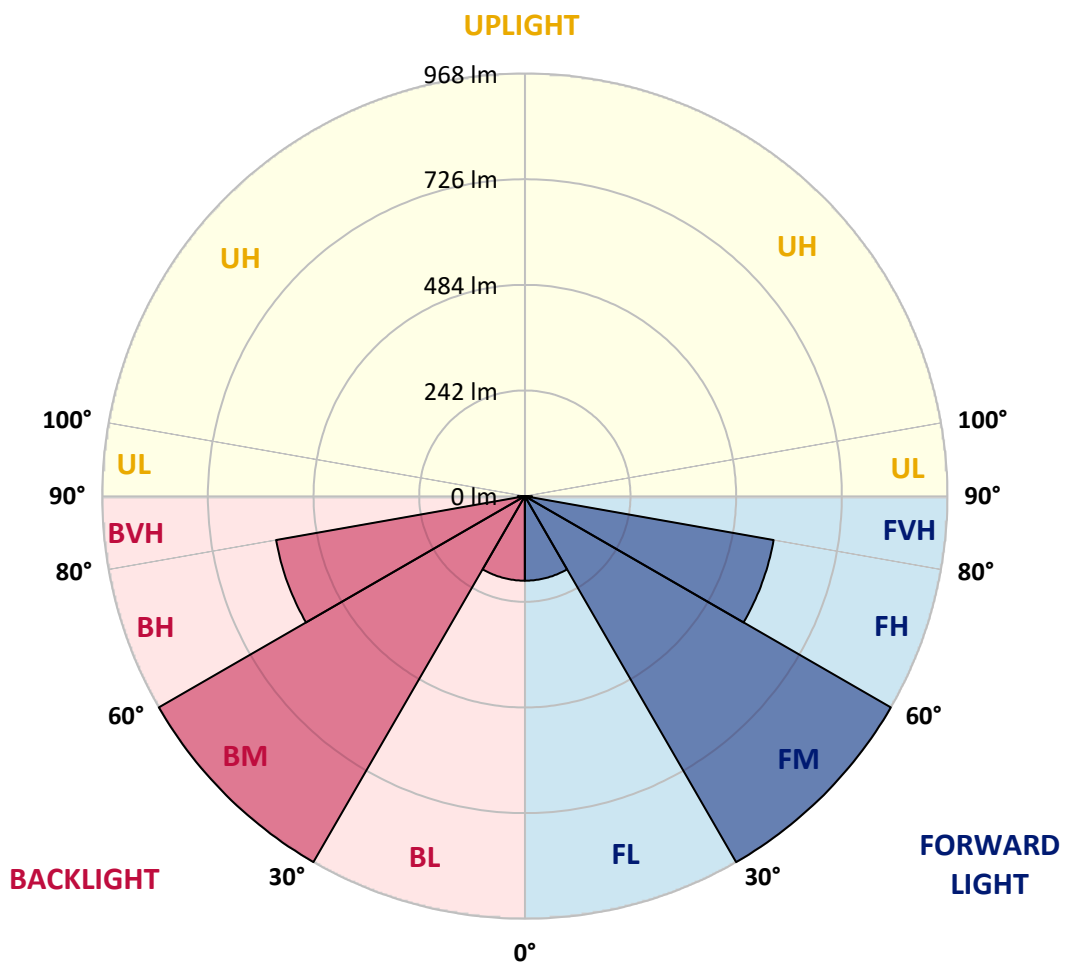
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 193.6  | 5.5       |                         |      |         |
| FM (30°-60°)   | 968.0  | 27.6      |                         |      |         |
| FH (60°-80°)   | 578.6  | 16.5      |                         |      | G0/660  |
| FVH (80°-90°)  | 16.3   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 193.6  | 5.5       | B1/500                  |      |         |
| BM (30°-60°)   | 968.0  | 27.6      | B1/1000                 |      |         |
| BH (60°-80°)   | 578.6  | 16.5      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 16.3   | 0.5       |                         |      | 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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 357.4 | 357.4 | 357.4 | 357.4 | 357.4  | 357.4  | 357.4  | 357.4  | 357.4  | 357.4  | 357.4  |
| 2.5°  | 355.1 | 355.1 | 356.1 | 357.4 | 357.9  | 358.9  | 359.2  | 359.2  | 360.7  | 360.4  | 360.7  |
| 5°    | 354.1 | 354.1 | 355.9 | 358.2 | 360.7  | 363.7  | 366.8  | 368.5  | 372.3  | 373.1  | 373.3  |
| 7.5°  | 355.1 | 355.4 | 357.9 | 361.7 | 366.0  | 371.6  | 377.4  | 382.2  | 388.5  | 390.7  | 392.3  |
| 10°   | 358.9 | 359.2 | 362.5 | 367.8 | 374.3  | 382.4  | 390.7  | 398.3  | 408.4  | 413.0  | 413.7  |
| 12.5° | 364.7 | 365.0 | 369.8 | 378.4 | 387.7  | 397.8  | 407.2  | 416.8  | 429.4  | 436.2  | 437.7  |
| 15°   | 373.6 | 372.8 | 380.4 | 393.0 | 406.2  | 418.8  | 427.1  | 436.5  | 449.9  | 458.7  | 461.0  |
| 17.5° | 385.7 | 386.2 | 395.5 | 411.7 | 427.9  | 440.8  | 449.1  | 454.4  | 466.0  | 475.1  | 477.4  |
| 20°   | 400.9 | 403.1 | 415.0 | 433.7 | 452.6  | 466.3  | 472.1  | 471.3  | 477.9  | 485.7  | 487.5  |
| 22.5° | 422.3 | 423.8 | 438.2 | 459.2 | 480.9  | 495.1  | 497.3  | 489.0  | 488.8  | 493.8  | 496.1  |
| 25°   | 447.6 | 448.8 | 464.0 | 488.2 | 511.2  | 526.1  | 523.9  | 509.5  | 501.9  | 502.1  | 503.7  |
| 27.5° | 477.1 | 479.7 | 495.3 | 520.1 | 543.8  | 557.5  | 554.2  | 533.2  | 518.3  | 513.8  | 512.7  |
| 30°   | 515.5 | 518.3 | 534.2 | 558.0 | 578.9  | 591.0  | 586.0  | 559.5  | 537.2  | 529.7  | 528.2  |
| 32.5° | 565.5 | 565.3 | 581.7 | 604.7 | 619.3  | 627.2  | 617.3  | 587.3  | 559.2  | 549.1  | 547.1  |
| 35°   | 617.1 | 619.6 | 635.8 | 658.0 | 669.1  | 669.6  | 653.9  | 620.1  | 586.8  | 569.3  | 565.5  |
| 37.5° | 675.2 | 676.4 | 695.1 | 716.1 | 723.4  | 719.4  | 696.1  | 658.5  | 620.1  | 601.7  | 595.1  |
| 40°   | 734.8 | 736.0 | 757.8 | 778.0 | 786.0  | 776.4  | 745.9  | 700.9  | 659.5  | 639.3  | 635.5  |
| 42.5° | 790.1 | 793.4 | 817.6 | 841.4 | 849.2  | 838.1  | 801.2  | 747.4  | 701.2  | 681.7  | 676.7  |
| 45°   | 836.1 | 839.6 | 866.9 | 897.2 | 911.1  | 902.0  | 860.3  | 799.7  | 749.2  | 728.2  | 719.6  |
| 47.5° | 870.7 | 875.2 | 904.3 | 940.6 | 967.7  | 965.9  | 923.2  | 855.0  | 800.7  | 775.9  | 768.1  |
| 50°   | 894.4 | 899.2 | 930.5 | 969.7 | 1010.3 | 1024.0 | 987.1  | 916.1  | 858.0  | 830.2  | 824.9  |
| 52.5° | 896.2 | 900.5 | 936.3 | 985.1 | 1039.4 | 1069.4 | 1050.0 | 980.5  | 921.2  | 892.4  | 888.6  |
| 55°   | 856.8 | 859.8 | 907.5 | 972.5 | 1051.3 | 1104.3 | 1107.3 | 1050.8 | 988.6  | 959.6  | 957.8  |
| 57.5° | 766.3 | 770.6 | 827.7 | 913.6 | 1031.6 | 1126.8 | 1157.1 | 1124.3 | 1064.9 | 1037.6 | 1036.1 |
| 60°   | 619.1 | 624.6 | 689.8 | 804.0 | 960.3  | 1121.0 | 1199.3 | 1193.2 | 1148.3 | 1121.7 | 1120.7 |
| 62.5° | 436.7 | 438.7 | 506.7 | 632.5 | 820.9  | 1059.3 | 1219.7 | 1260.4 | 1234.6 | 1207.9 | 1209.4 |
| 65°   | 256.6 | 259.4 | 309.2 | 422.3 | 622.6  | 917.6  | 1184.4 | 1307.1 | 1303.8 | 1279.3 | 1281.9 |
| 67.5° | 135.6 | 135.6 | 160.6 | 230.9 | 391.5  | 687.0  | 1043.7 | 1281.4 | 1324.3 | 1302.8 | 1304.1 |
| 70°   | 93.7  | 93.5  | 98.0  | 115.9 | 189.2  | 425.9  | 780.7  | 1146.5 | 1282.6 | 1274.5 | 1277.8 |
| 72.5° | 79.3  | 78.8  | 79.1  | 81.6  | 96.2   | 192.5  | 474.1  | 883.0  | 1143.5 | 1155.8 | 1158.6 |
| 75°   | 69.5  | 68.7  | 68.2  | 67.7  | 69.0   | 87.4   | 216.2  | 544.8  | 847.7  | 925.5  | 924.0  |
| 77.5° | 59.9  | 59.4  | 58.9  | 57.1  | 55.1   | 57.3   | 88.4   | 245.0  | 436.0  | 514.5  | 509.0  |
| 80°   | 49.3  | 49.3  | 50.0  | 47.5  | 43.7   | 42.2   | 52.8   | 91.4   | 144.7  | 151.0  | 138.9  |
| 82.5° | 38.6  | 38.6  | 42.4  | 38.9  | 34.4   | 30.6   | 36.6   | 48.7   | 58.9   | 47.7   | 38.9   |
| 85°   | 27.3  | 27.5  | 35.4  | 32.3  | 26.5   | 17.7   | 22.7   | 29.0   | 33.1   | 21.0   | 16.4   |
| 87.5° | 11.1  | 11.9  | 22.0  | 17.4  | 16.7   | 8.8    | 10.6   | 12.9   | 16.4   | 8.8    | 7.1    |
| 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)