

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: P672366

Luminaire Tested: **CCP-SA-1B-727-U-5WQ**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672366  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-727-U-5WQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ 5WQ distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

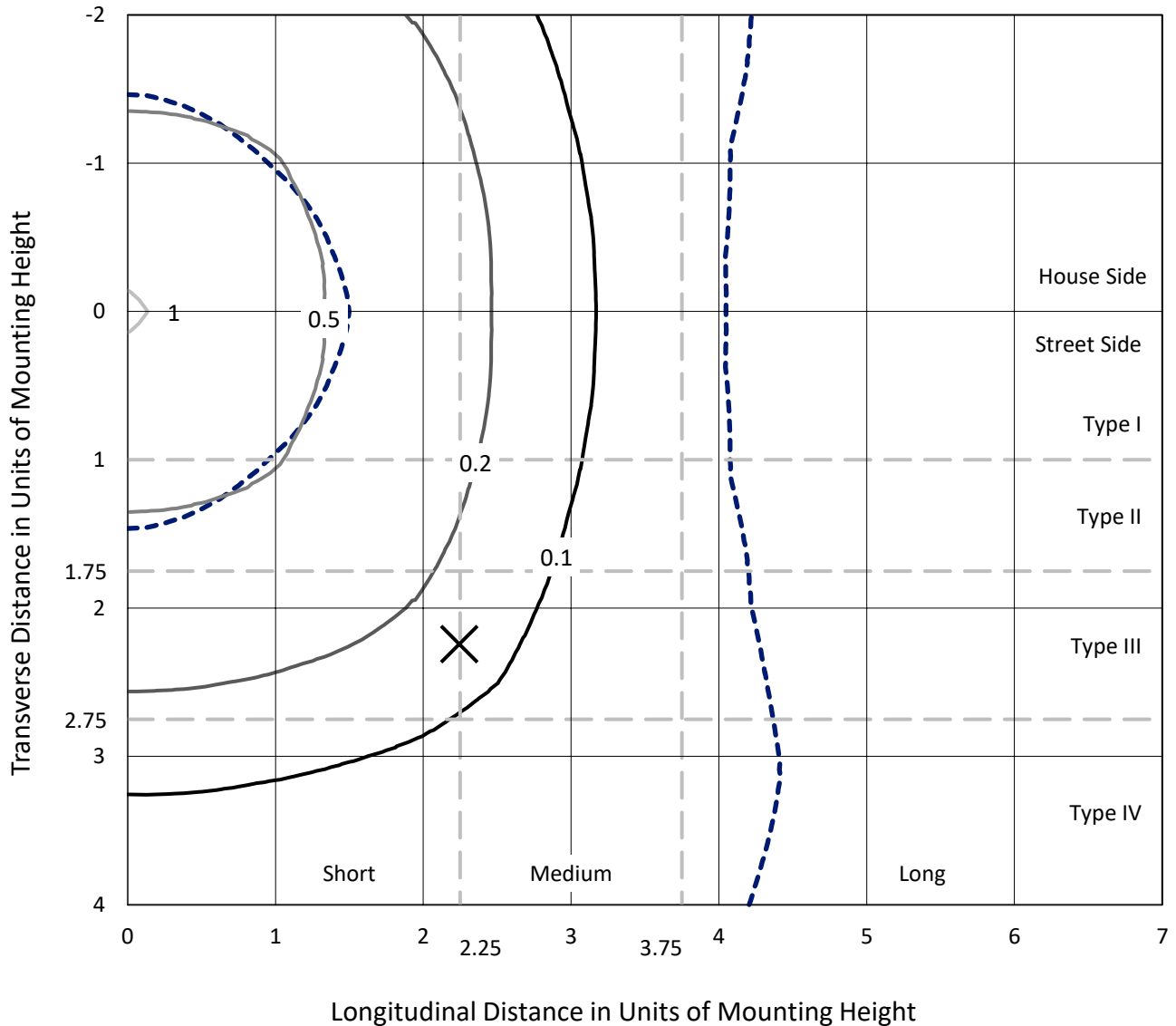
Lumens per Lamp: N/A  
Luminaire Lumens: 3027.2 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

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

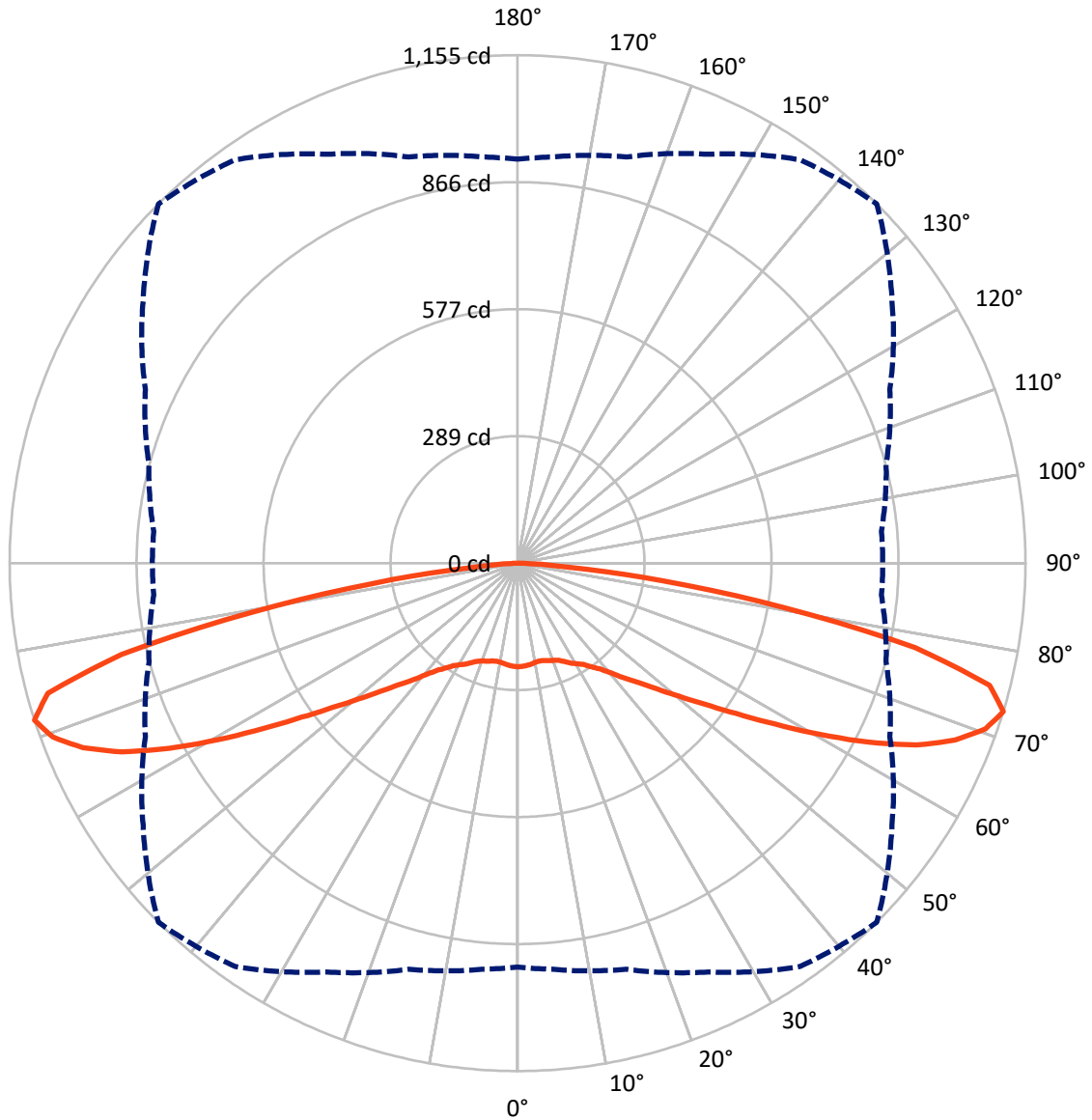
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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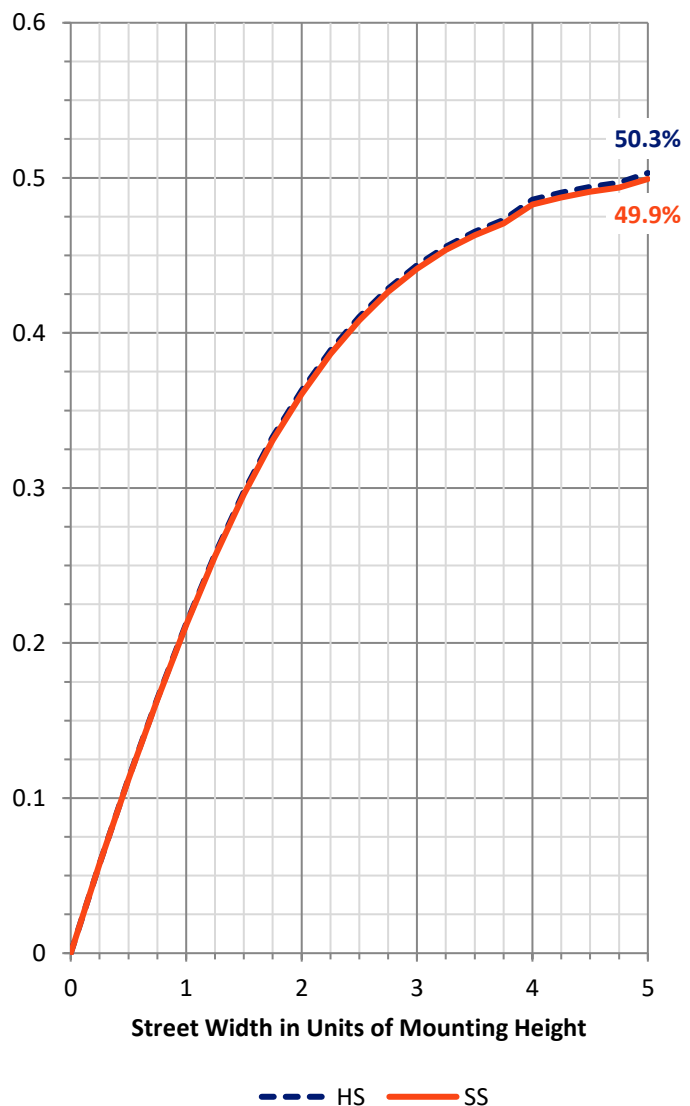
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1513.6   | 0.0    | 1513.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1513.6   | 0.0    | 1513.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3027.2   | 0.0    | 3027.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 22.1   | 0.7       |
| 10°-20°   | 65.8   | 2.2       |
| 20°-30°   | 115.5  | 3.8       |
| 30°-40°   | 184.3  | 6.1       |
| 40°-50°   | 308.1  | 10.2      |
| 50°-60°   | 527.3  | 17.4      |
| 60°-70°   | 870.4  | 28.8      |
| 70°-80°   | 834.2  | 27.6      |
| 80°-90°   | 99.5   | 3.3       |
| 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°    | 3027.2 | 100.0     |
| 0°-180°   | 3027.2 | 100.0     |



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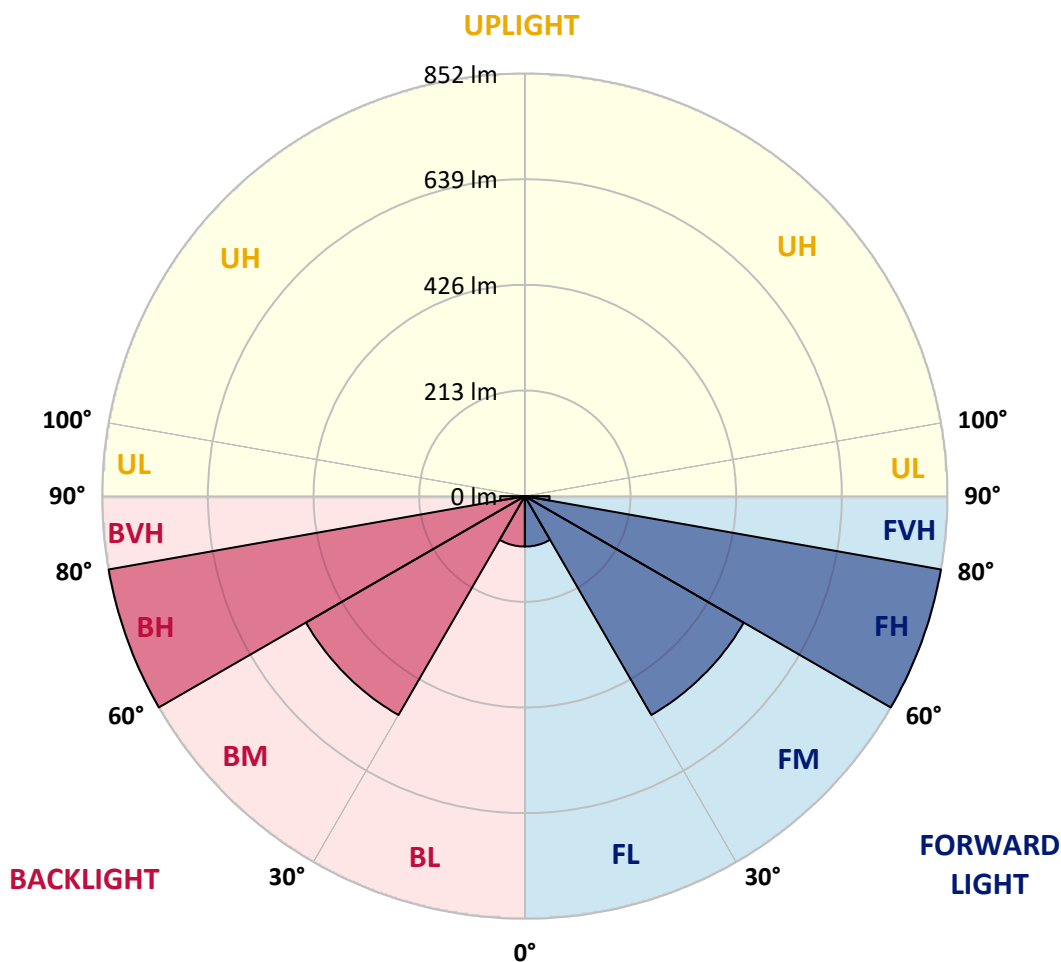
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 101.7  | 3.4       |                         |      |         |
| FM (30°-60°)   | 509.8  | 16.8      |                         |      |         |
| FH (60°-80°)   | 852.3  | 28.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 49.7   | 1.6       |                         |      | G1/100  |
| BL (0°-30°)    | 101.7  | 3.4       | B0/110                  |      |         |
| BM (30°-60°)   | 509.8  | 16.8      | B1/1000                 |      |         |
| BH (60°-80°)   | 852.3  | 28.2      | B2/1000                 |      | G1/1800 |
| BVH (80°-90°)  | 49.7   | 1.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°    | 35°    | 45°    | 55°    | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 235.7 | 235.7 | 235.7 | 235.7  | 235.7  | 235.7  | 235.7  | 235.7 | 235.7 | 235.7 | 235.7 |
| 2.5°  | 234.3 | 234.3 | 234.9 | 235.1  | 234.9  | 234.7  | 234.5  | 234.3 | 234.9 | 234.7 | 234.9 |
| 5°    | 233.6 | 233.6 | 233.8 | 234.0  | 233.6  | 233.4  | 233.0  | 232.8 | 233.2 | 233.2 | 233.6 |
| 7.5°  | 231.9 | 231.7 | 231.9 | 232.1  | 231.5  | 231.3  | 230.7  | 230.7 | 230.7 | 230.5 | 230.9 |
| 10°   | 230.5 | 230.0 | 230.0 | 229.6  | 228.5  | 228.8  | 227.9  | 228.5 | 229.6 | 229.8 | 230.0 |
| 12.5° | 231.1 | 230.7 | 230.2 | 229.2  | 227.7  | 227.9  | 227.7  | 228.3 | 229.8 | 230.7 | 231.3 |
| 15°   | 234.0 | 233.6 | 232.6 | 230.7  | 229.8  | 229.8  | 229.4  | 229.6 | 231.7 | 233.0 | 233.6 |
| 17.5° | 237.2 | 236.4 | 234.5 | 233.2  | 232.4  | 233.0  | 231.5  | 231.3 | 233.0 | 234.9 | 235.5 |
| 20°   | 239.7 | 239.1 | 236.8 | 235.3  | 235.3  | 235.9  | 234.5  | 233.6 | 235.5 | 237.8 | 238.5 |
| 22.5° | 244.2 | 243.8 | 241.4 | 240.0  | 240.0  | 240.2  | 239.3  | 238.7 | 240.8 | 243.1 | 243.8 |
| 25°   | 250.5 | 250.5 | 248.2 | 247.6  | 247.3  | 247.8  | 246.7  | 246.1 | 248.0 | 249.7 | 250.3 |
| 27.5° | 257.9 | 257.3 | 255.4 | 255.0  | 255.8  | 257.3  | 255.4  | 253.7 | 255.2 | 256.6 | 256.9 |
| 30°   | 265.7 | 265.7 | 264.0 | 264.0  | 264.7  | 265.3  | 263.6  | 261.9 | 263.4 | 265.1 | 265.3 |
| 32.5° | 276.7 | 276.1 | 275.4 | 275.7  | 275.4  | 274.6  | 273.8  | 273.5 | 274.8 | 275.9 | 276.3 |
| 35°   | 290.2 | 290.0 | 289.2 | 289.6  | 289.6  | 289.6  | 287.1  | 286.2 | 288.3 | 289.2 | 288.8 |
| 37.5° | 311.1 | 310.9 | 308.8 | 307.5  | 306.1  | 305.4  | 302.3  | 302.1 | 307.1 | 309.7 | 309.2 |
| 40°   | 336.7 | 335.9 | 334.0 | 331.8  | 329.9  | 328.7  | 325.5  | 327.8 | 333.1 | 335.0 | 335.0 |
| 42.5° | 364.6 | 363.5 | 361.4 | 360.4  | 359.1  | 357.8  | 353.6  | 354.7 | 361.0 | 362.9 | 360.8 |
| 45°   | 398.8 | 397.3 | 395.0 | 392.7  | 390.8  | 388.2  | 386.1  | 387.2 | 393.9 | 396.3 | 394.6 |
| 47.5° | 435.1 | 434.7 | 432.8 | 430.9  | 429.2  | 427.5  | 424.8  | 426.7 | 432.6 | 432.2 | 428.8 |
| 50°   | 473.6 | 474.4 | 474.6 | 476.5  | 475.3  | 475.5  | 470.4  | 469.4 | 474.0 | 471.3 | 467.0 |
| 52.5° | 515.0 | 516.2 | 520.7 | 524.5  | 531.5  | 532.3  | 526.0  | 519.2 | 518.4 | 511.2 | 506.7 |
| 55°   | 562.9 | 562.7 | 572.4 | 583.0  | 598.4  | 603.3  | 589.1  | 576.4 | 569.5 | 555.5 | 550.9 |
| 57.5° | 617.2 | 616.6 | 631.4 | 650.0  | 677.8  | 689.9  | 663.9  | 639.8 | 622.9 | 606.2 | 601.4 |
| 60°   | 676.1 | 677.6 | 695.6 | 725.8  | 773.9  | 790.6  | 751.3  | 711.4 | 685.6 | 663.9 | 662.0 |
| 62.5° | 745.0 | 745.2 | 766.3 | 807.3  | 869.8  | 896.7  | 842.6  | 788.5 | 755.8 | 731.9 | 726.8 |
| 65°   | 826.3 | 827.8 | 850.4 | 891.8  | 963.6  | 996.8  | 934.5  | 868.6 | 829.9 | 797.6 | 797.0 |
| 67.5° | 909.8 | 908.9 | 929.6 | 973.6  | 1042.8 | 1073.5 | 1008.2 | 934.7 | 884.4 | 844.1 | 838.8 |
| 70°   | 963.2 | 967.9 | 990.2 | 1032.3 | 1098.6 | 1128.4 | 1049.0 | 960.2 | 907.7 | 870.7 | 868.2 |
| 72.5° | 918.2 | 926.9 | 955.8 | 1025.5 | 1119.5 | 1154.8 | 1039.2 | 933.8 | 867.5 | 830.3 | 830.3 |
| 75°   | 745.4 | 759.8 | 800.1 | 907.4  | 1047.3 | 1108.3 | 962.1  | 817.2 | 720.7 | 681.0 | 681.0 |
| 77.5° | 454.1 | 467.9 | 522.4 | 653.3  | 845.8  | 923.9  | 784.3  | 615.5 | 503.8 | 455.2 | 448.9 |
| 80°   | 151.0 | 159.9 | 213.3 | 332.1  | 519.2  | 614.9  | 525.5  | 349.6 | 225.6 | 171.9 | 171.1 |
| 82.5° | 40.1  | 43.7  | 60.8  | 96.3   | 225.4  | 333.1  | 240.4  | 115.3 | 66.1  | 51.3  | 47.3  |
| 85°   | 13.9  | 15.0  | 25.8  | 32.1   | 57.2   | 110.3  | 67.0   | 41.8  | 32.1  | 19.4  | 18.2  |
| 87.5° | 4.0   | 4.4   | 10.4  | 11.2   | 16.5   | 12.9   | 18.2   | 16.7  | 15.2  | 6.3   | 5.7   |
| 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)