

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: P672542

Luminaire Tested: **CCP-SA-1A-740-U-5MQ**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672542  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-740-U-5MQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ 5MQ distribution lens  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

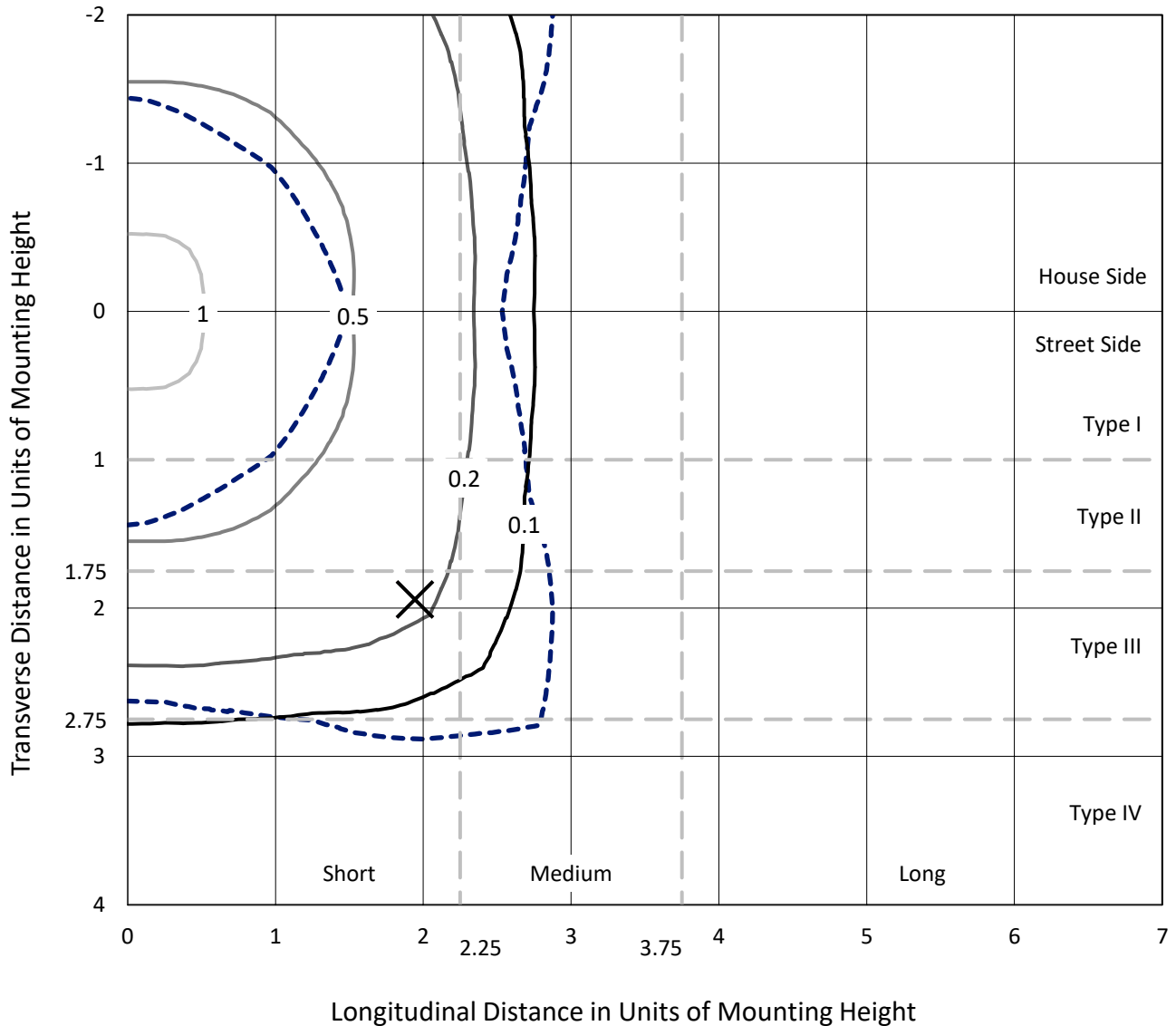
Lumens per Lamp: N/A  
Luminaire Lumens: 2824 lumens  
Efficiency: N/A  
Efficacy: 156.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 18  
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

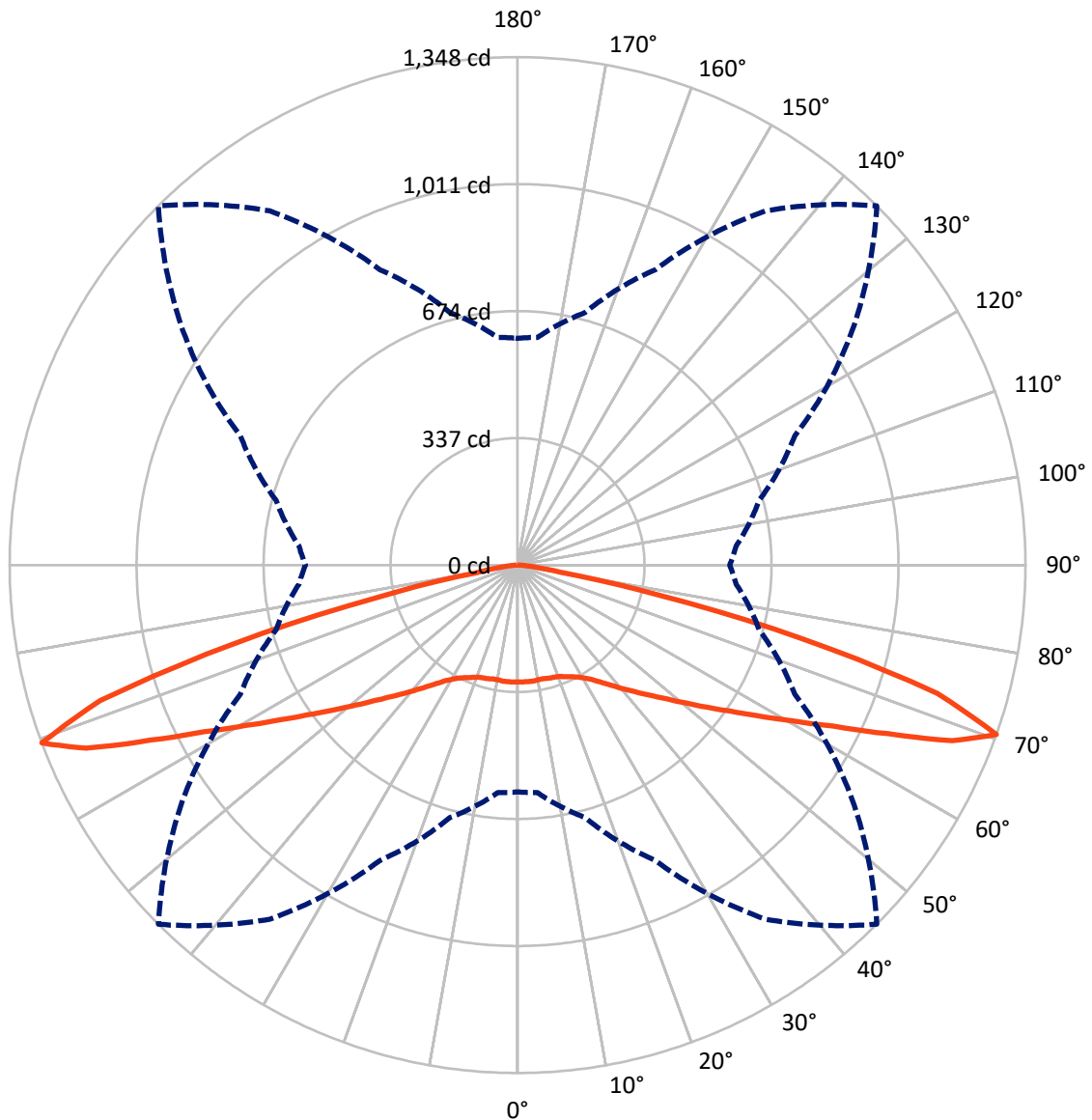
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 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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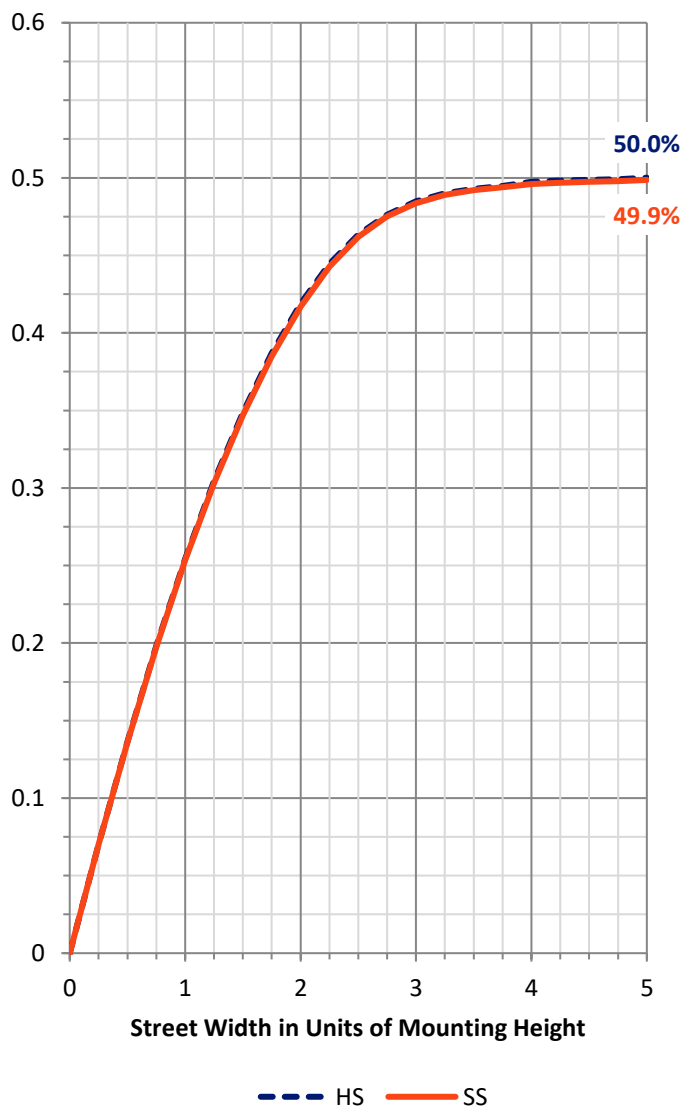
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1412.0   | 0.0    | 1412.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1412.0   | 0.0    | 1412.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2824.0   | 0.0    | 2824.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 29.5   | 1.0       |
| 10°-20°   | 87.4   | 3.1       |
| 20°-30°   | 149.3  | 5.3       |
| 30°-40°   | 238.3  | 8.4       |
| 40°-50°   | 384.5  | 13.6      |
| 50°-60°   | 615.7  | 21.8      |
| 60°-70°   | 901.3  | 31.9      |
| 70°-80°   | 396.4  | 14.0      |
| 80°-90°   | 21.7   | 0.8       |
| 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°    | 2824.0 | 100.0     |
| 0°-180°   | 2824.0 | 100.0     |



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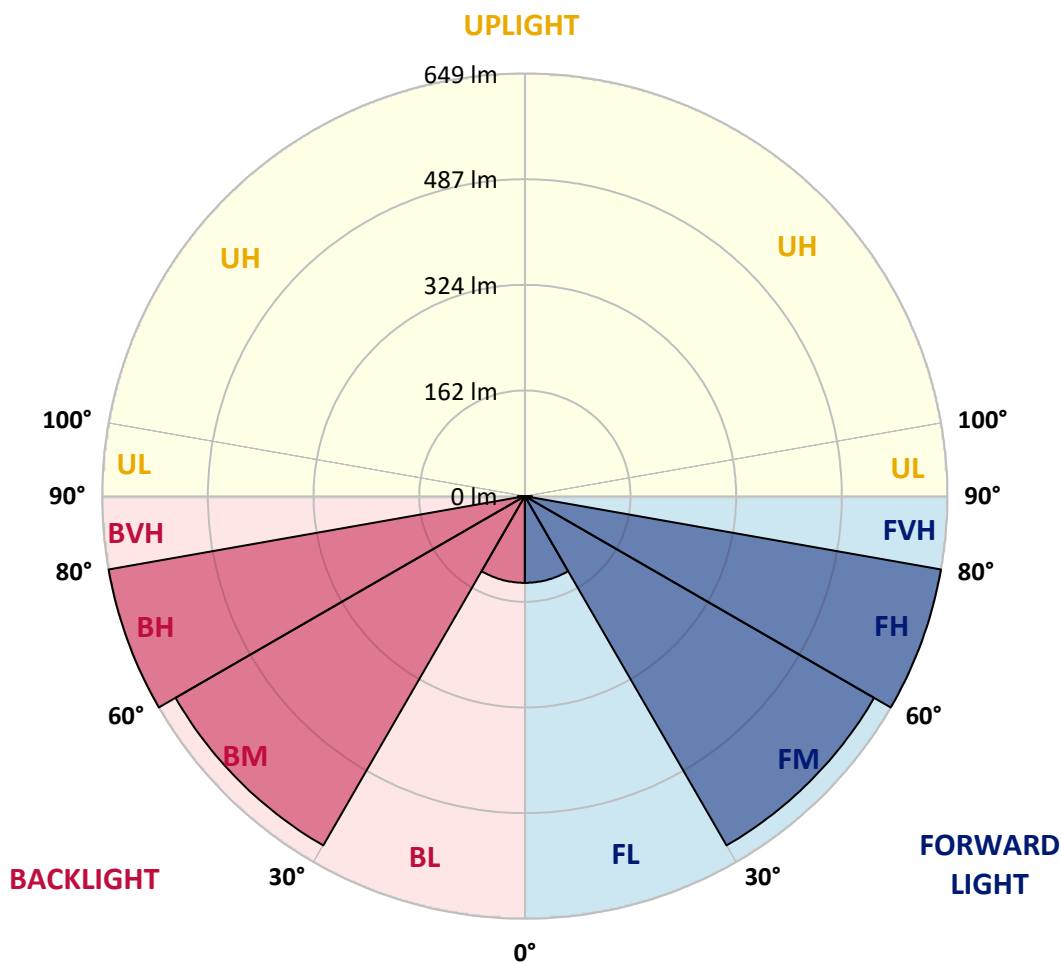
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 133.1  | 4.7       |                         |      |        |
| FM (30°-60°)   | 619.2  | 21.9      |                         |      |        |
| FH (60°-80°)   | 648.8  | 23.0      |                         |      | G0/660 |
| FVH (80°-90°)  | 10.9   | 0.4       |                         |      | G1/100 |
| BL (0°-30°)    | 133.1  | 4.7       | B1/500                  |      |        |
| BM (30°-60°)   | 619.2  | 21.9      | B1/1000                 |      |        |
| BH (60°-80°)   | 648.8  | 23.0      | B2/1000                 |      | G0/660 |
| BVH (80°-90°)  | 10.9   | 0.4       |                         |      | 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°    | 310.6 | 310.6 | 310.6 | 310.6 | 310.6  | 310.6  | 310.6  | 310.6 | 310.6 | 310.6 | 310.6 |
| 2.5°  | 310.2 | 310.0 | 310.4 | 310.6 | 310.2  | 310.4  | 309.1  | 309.1 | 309.8 | 309.1 | 310.0 |
| 5°    | 311.6 | 311.2 | 311.6 | 311.6 | 310.6  | 310.6  | 309.1  | 308.7 | 309.1 | 308.1 | 308.9 |
| 7.5°  | 311.8 | 311.0 | 311.6 | 311.4 | 310.6  | 310.6  | 308.5  | 307.7 | 307.9 | 306.9 | 307.5 |
| 10°   | 309.8 | 309.3 | 310.2 | 309.8 | 309.1  | 309.1  | 307.5  | 306.3 | 306.3 | 305.3 | 305.9 |
| 12.5° | 308.5 | 308.1 | 309.1 | 309.3 | 308.9  | 309.1  | 307.1  | 305.5 | 304.9 | 303.7 | 304.1 |
| 15°   | 308.5 | 307.7 | 309.3 | 309.8 | 310.2  | 311.6  | 308.5  | 305.7 | 304.5 | 302.9 | 303.3 |
| 17.5° | 308.3 | 307.9 | 309.8 | 311.2 | 311.6  | 313.2  | 309.8  | 306.7 | 305.3 | 302.9 | 303.3 |
| 20°   | 308.3 | 308.1 | 310.4 | 313.0 | 314.2  | 315.6  | 312.0  | 309.1 | 306.7 | 304.1 | 304.1 |
| 22.5° | 309.3 | 309.1 | 312.2 | 316.0 | 319.4  | 321.8  | 317.6  | 313.0 | 309.8 | 306.3 | 305.9 |
| 25°   | 313.6 | 313.2 | 316.8 | 321.4 | 326.0  | 328.4  | 324.2  | 319.6 | 315.0 | 311.2 | 310.8 |
| 27.5° | 322.2 | 322.0 | 325.6 | 331.2 | 334.4  | 336.2  | 332.6  | 328.6 | 324.0 | 319.6 | 319.4 |
| 30°   | 333.8 | 333.8 | 338.4 | 344.2 | 346.0  | 347.4  | 343.8  | 341.0 | 336.2 | 331.4 | 331.0 |
| 32.5° | 347.8 | 348.6 | 354.0 | 360.4 | 361.6  | 362.4  | 358.6  | 356.8 | 351.6 | 346.4 | 345.6 |
| 35°   | 366.2 | 366.4 | 373.0 | 379.4 | 381.0  | 381.8  | 377.4  | 375.8 | 371.0 | 365.4 | 364.2 |
| 37.5° | 389.6 | 389.0 | 395.2 | 402.4 | 404.0  | 405.0  | 401.4  | 400.2 | 394.2 | 388.6 | 386.8 |
| 40°   | 415.8 | 416.2 | 423.2 | 430.0 | 431.0  | 431.4  | 429.6  | 427.8 | 422.2 | 415.8 | 413.6 |
| 42.5° | 446.2 | 446.2 | 454.4 | 462.4 | 462.4  | 460.4  | 459.6  | 459.2 | 453.8 | 446.6 | 444.2 |
| 45°   | 481.0 | 481.4 | 491.6 | 497.6 | 498.0  | 492.6  | 493.4  | 495.8 | 490.6 | 481.4 | 478.2 |
| 47.5° | 519.3 | 519.9 | 531.9 | 538.5 | 537.3  | 530.3  | 534.7  | 535.9 | 529.9 | 518.1 | 513.8 |
| 50°   | 559.5 | 561.3 | 574.7 | 586.3 | 584.7  | 574.5  | 580.3  | 580.7 | 570.9 | 557.3 | 551.5 |
| 52.5° | 602.9 | 607.1 | 624.9 | 637.3 | 638.9  | 626.1  | 631.1  | 630.7 | 618.1 | 599.5 | 595.7 |
| 55°   | 656.7 | 659.1 | 676.7 | 694.3 | 700.3  | 684.5  | 690.1  | 687.3 | 670.3 | 649.1 | 642.7 |
| 57.5° | 710.5 | 714.1 | 736.8 | 756.6 | 768.6  | 755.2  | 756.4  | 749.2 | 727.8 | 702.1 | 698.9 |
| 60°   | 774.4 | 776.0 | 801.0 | 826.8 | 847.6  | 839.6  | 834.0  | 819.0 | 793.8 | 768.2 | 763.6 |
| 62.5° | 826.6 | 829.8 | 867.0 | 905.0 | 940.3  | 941.7  | 924.6  | 902.2 | 862.0 | 819.2 | 810.0 |
| 65°   | 841.0 | 846.2 | 898.4 | 973.5 | 1046.7 | 1079.3 | 1032.7 | 964.3 | 874.4 | 809.8 | 796.0 |
| 67.5° | 774.0 | 784.0 | 858.6 | 983.3 | 1145.8 | 1243.6 | 1118.7 | 934.9 | 809.4 | 734.0 | 720.7 |
| 70°   | 601.9 | 606.3 | 693.9 | 865.0 | 1147.4 | 1348.1 | 1084.1 | 811.8 | 663.5 | 582.5 | 563.1 |
| 72.5° | 319.8 | 322.0 | 401.0 | 582.5 | 933.7  | 1164.6 | 895.8  | 568.1 | 390.6 | 317.0 | 294.7 |
| 75°   | 103.3 | 106.1 | 138.1 | 238.5 | 515.0  | 782.6  | 528.3  | 236.3 | 134.7 | 108.7 | 102.8 |
| 77.5° | 52.6  | 52.4  | 58.2  | 76.8  | 173.3  | 383.6  | 183.3  | 82.8  | 58.2  | 52.2  | 50.6  |
| 80°   | 32.8  | 32.2  | 36.6  | 42.0  | 60.6   | 112.1  | 65.8   | 46.4  | 36.8  | 31.6  | 31.4  |
| 82.5° | 18.6  | 18.6  | 24.6  | 27.0  | 34.2   | 46.2   | 38.4   | 31.8  | 25.2  | 18.8  | 18.2  |
| 85°   | 10.4  | 9.2   | 15.4  | 17.0  | 19.6   | 22.8   | 23.4   | 20.6  | 17.0  | 10.4  | 10.8  |
| 87.5° | 3.8   | 4.2   | 7.2   | 6.8   | 7.8    | 5.4    | 9.6    | 10.8  | 9.6   | 5.0   | 4.2   |
| 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)