

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: P672465

Luminaire Tested: **CCP-SA-1B-840-U-5WQ**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P672465  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-840-U-5WQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ 5WQ  
distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3086.2 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

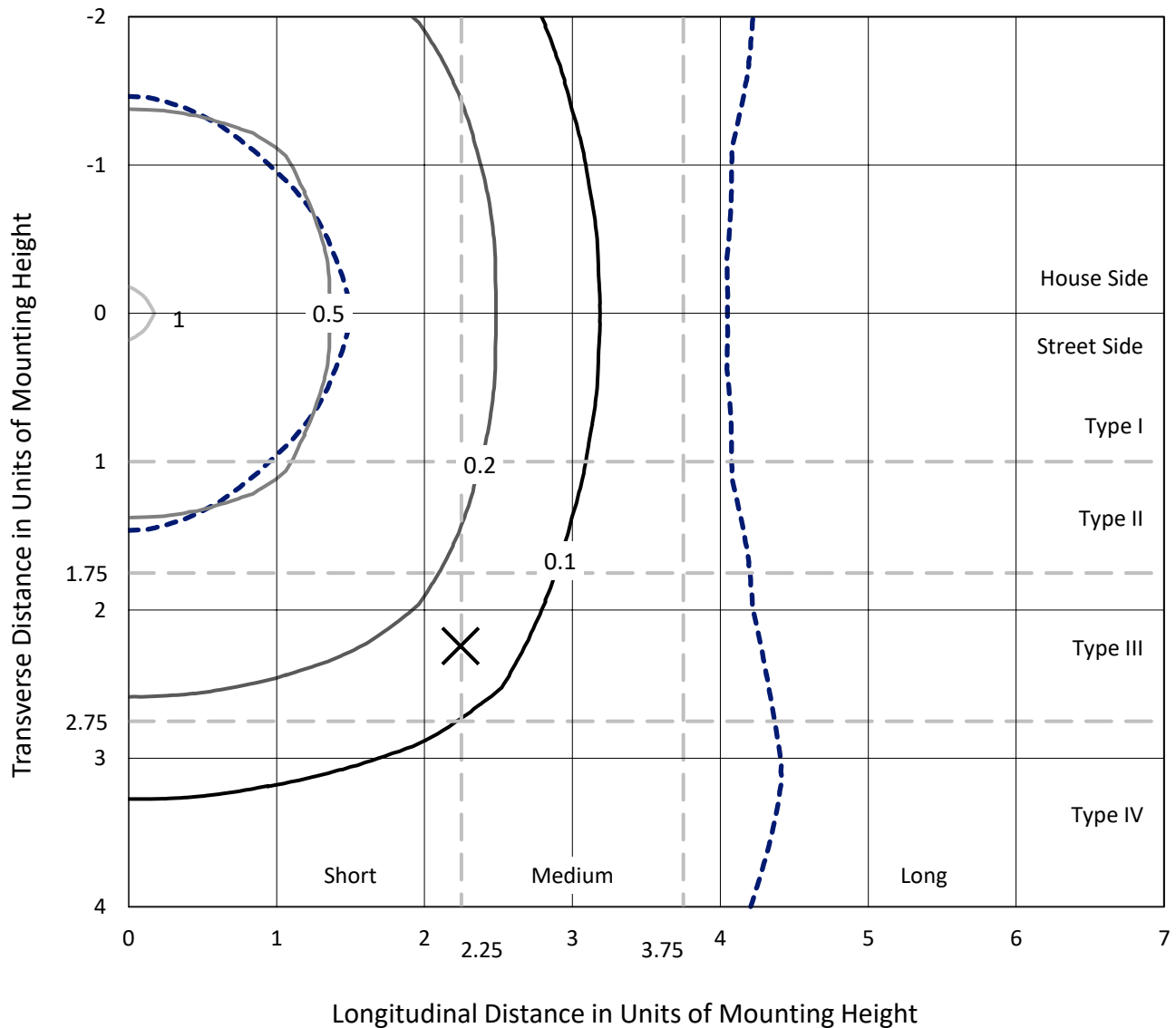
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

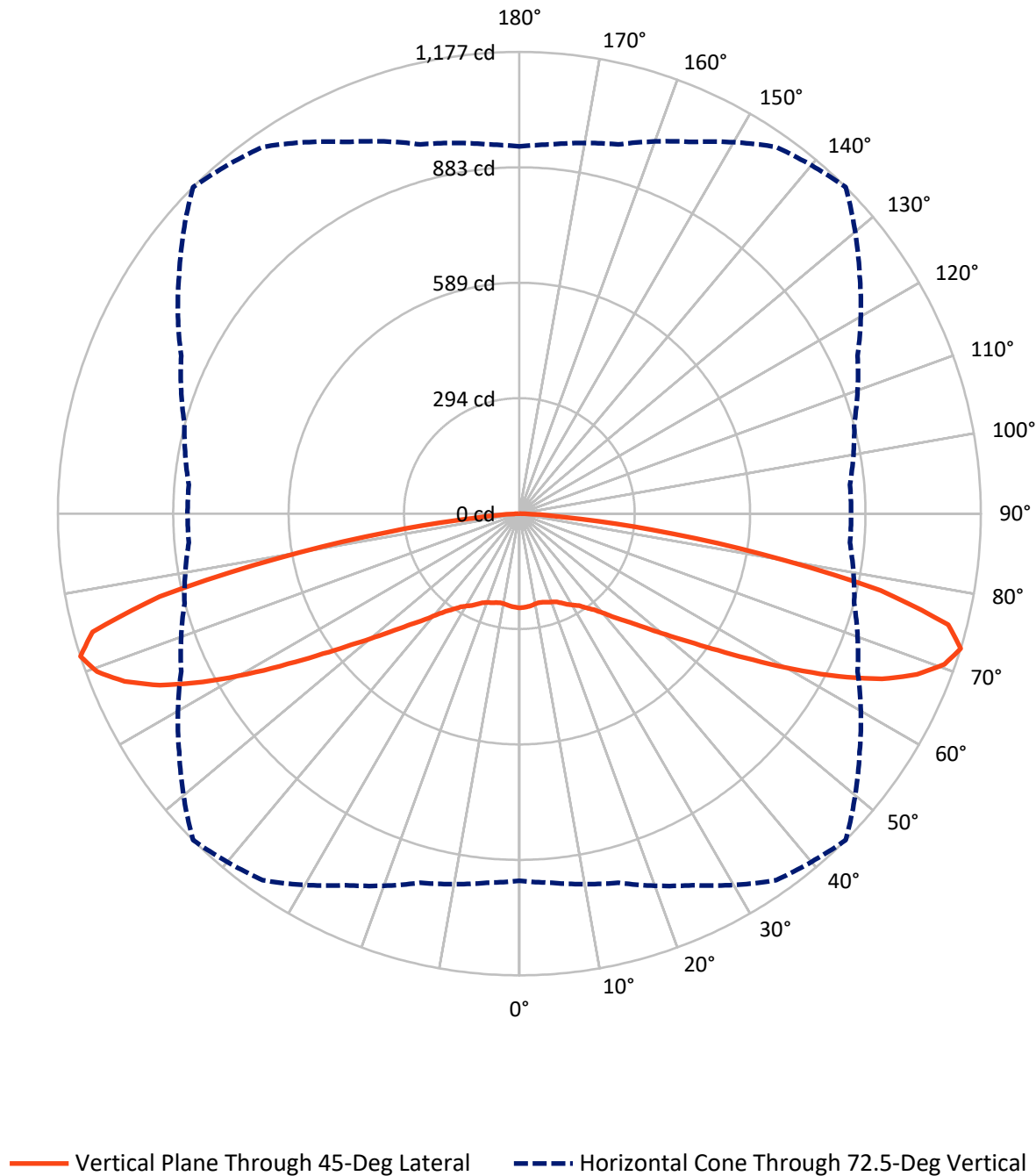
× Max cd  
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.1 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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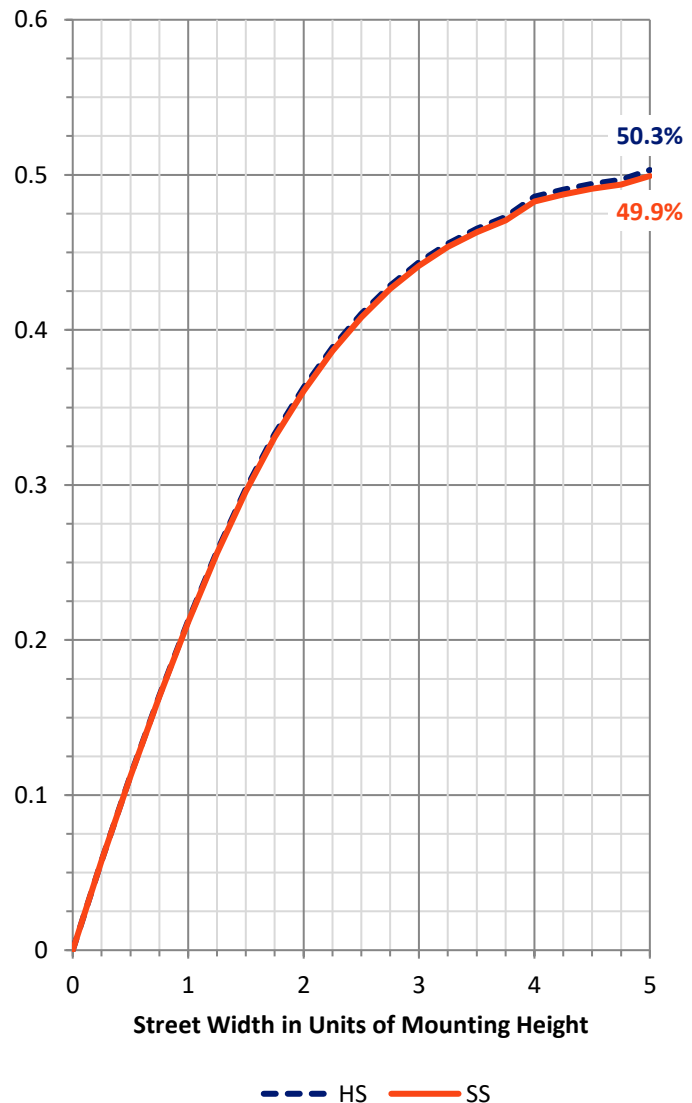
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1543.1   | 0.0    | 1543.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1543.1   | 0.0    | 1543.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3086.2   | 0.0    | 3086.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 22.6   | 0.7       |
| 10°-20°   | 67.0   | 2.2       |
| 20°-30°   | 117.7  | 3.8       |
| 30°-40°   | 187.9  | 6.1       |
| 40°-50°   | 314.1  | 10.2      |
| 50°-60°   | 537.5  | 17.4      |
| 60°-70°   | 887.4  | 28.8      |
| 70°-80°   | 850.5  | 27.6      |
| 80°-90°   | 101.4  | 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°    | 3086.2 | 100.0     |
| 0°-180°   | 3086.2 | 100.0     |



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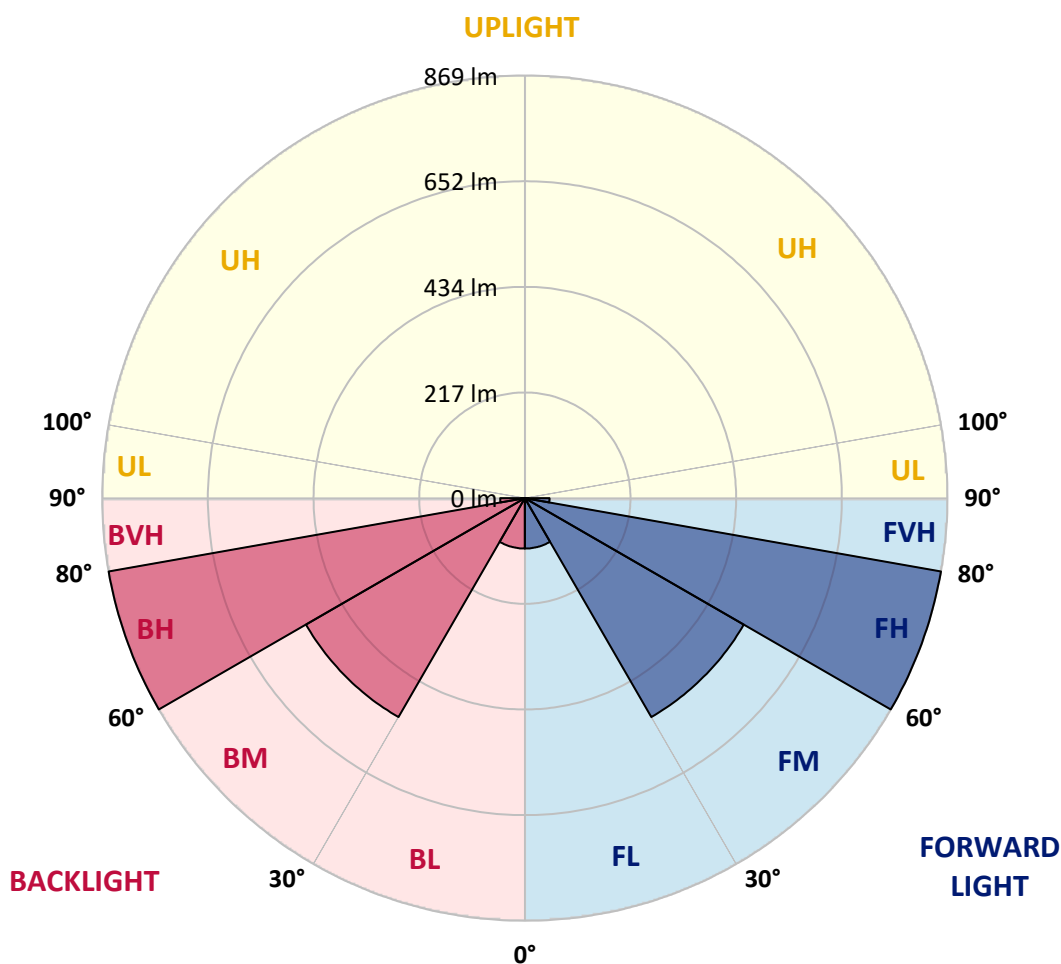
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 103.7  | 3.4       |                         |      |         |
| FM   | (30°-60°)   | 519.8  | 16.8      |                         |      |         |
| FH   | (60°-80°)   | 868.9  | 28.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 50.7   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 103.7  | 3.4       | B0/110                  |      |         |
| BM   | (30°-60°)   | 519.8  | 16.8      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 868.9  | 28.2      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 50.7   | 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°    | 240.3 | 240.3 | 240.3  | 240.3  | 240.3  | 240.3  | 240.3  | 240.3 | 240.3 | 240.3 | 240.3 |
| 2.5°  | 238.8 | 238.8 | 239.5  | 239.7  | 239.5  | 239.2  | 239.0  | 238.8 | 239.5 | 239.2 | 239.5 |
| 5°    | 238.2 | 238.2 | 238.4  | 238.6  | 238.2  | 238.0  | 237.5  | 237.3 | 237.7 | 237.7 | 238.2 |
| 7.5°  | 236.4 | 236.2 | 236.4  | 236.7  | 236.0  | 235.8  | 235.2  | 235.2 | 235.2 | 234.9 | 235.4 |
| 10°   | 234.9 | 234.5 | 234.5  | 234.1  | 233.0  | 233.2  | 232.4  | 233.0 | 234.1 | 234.3 | 234.5 |
| 12.5° | 235.6 | 235.2 | 234.7  | 233.7  | 232.1  | 232.4  | 232.1  | 232.8 | 234.3 | 235.2 | 235.8 |
| 15°   | 238.6 | 238.2 | 237.1  | 235.2  | 234.3  | 234.3  | 233.9  | 234.1 | 236.2 | 237.5 | 238.2 |
| 17.5° | 241.8 | 241.0 | 239.0  | 237.7  | 236.9  | 237.5  | 236.0  | 235.8 | 237.5 | 239.5 | 240.1 |
| 20°   | 244.4 | 243.8 | 241.4  | 239.9  | 239.9  | 240.5  | 239.0  | 238.2 | 240.1 | 242.5 | 243.1 |
| 22.5° | 248.9 | 248.5 | 246.1  | 244.6  | 244.6  | 244.8  | 244.0  | 243.3 | 245.5 | 247.9 | 248.5 |
| 25°   | 255.4 | 255.4 | 253.0  | 252.4  | 252.2  | 252.6  | 251.5  | 250.9 | 252.8 | 254.5 | 255.2 |
| 27.5° | 262.9 | 262.3 | 260.4  | 259.9  | 260.8  | 262.3  | 260.4  | 258.6 | 260.1 | 261.6 | 261.9 |
| 30°   | 270.9 | 270.9 | 269.2  | 269.2  | 269.8  | 270.5  | 268.8  | 267.0 | 268.5 | 270.3 | 270.5 |
| 32.5° | 282.1 | 281.5 | 280.8  | 281.0  | 280.8  | 279.9  | 279.1  | 278.9 | 280.2 | 281.2 | 281.7 |
| 35°   | 295.9 | 295.7 | 294.8  | 295.2  | 295.2  | 295.2  | 292.7  | 291.8 | 293.9 | 294.8 | 294.4 |
| 37.5° | 317.2 | 317.0 | 314.8  | 313.5  | 312.0  | 311.4  | 308.2  | 307.9 | 313.1 | 315.7 | 315.3 |
| 40°   | 343.3 | 342.4 | 340.5  | 338.3  | 336.4  | 335.1  | 331.8  | 334.2 | 339.6 | 341.5 | 341.5 |
| 42.5° | 371.7 | 370.6 | 368.5  | 367.4  | 366.1  | 364.8  | 360.5  | 361.6 | 368.0 | 370.0 | 367.8 |
| 45°   | 406.6 | 405.1 | 402.7  | 400.3  | 398.4  | 395.8  | 393.7  | 394.7 | 401.6 | 404.0 | 402.3 |
| 47.5° | 443.6 | 443.2 | 441.2  | 439.3  | 437.6  | 435.9  | 433.1  | 435.0 | 441.0 | 440.6 | 437.2 |
| 50°   | 482.8 | 483.7 | 483.9  | 485.8  | 484.5  | 484.7  | 479.6  | 478.5 | 483.2 | 480.4 | 476.1 |
| 52.5° | 525.0 | 526.3 | 530.8  | 534.7  | 541.8  | 542.7  | 536.2  | 529.3 | 528.5 | 521.1 | 516.6 |
| 55°   | 573.9 | 573.7 | 583.6  | 594.4  | 610.1  | 615.0  | 600.6  | 587.7 | 580.6 | 566.4 | 561.6 |
| 57.5° | 629.2 | 628.6 | 643.7  | 662.6  | 691.0  | 703.3  | 676.8  | 652.3 | 635.1 | 618.0 | 613.1 |
| 60°   | 689.3 | 690.8 | 709.1  | 739.9  | 789.0  | 806.0  | 766.0  | 725.3 | 699.0 | 676.8 | 674.9 |
| 62.5° | 759.5 | 759.7 | 781.3  | 823.1  | 886.8  | 914.1  | 859.0  | 803.9 | 770.5 | 746.2 | 741.0 |
| 65°   | 842.4 | 843.9 | 867.0  | 909.2  | 982.4  | 1016.2 | 952.7  | 885.5 | 846.1 | 813.1 | 812.5 |
| 67.5° | 927.5 | 926.6 | 947.7  | 992.5  | 1063.2 | 1094.4 | 1027.8 | 952.9 | 901.7 | 860.5 | 855.1 |
| 70°   | 982.0 | 986.7 | 1009.5 | 1052.4 | 1120.0 | 1150.4 | 1069.4 | 979.0 | 925.3 | 887.7 | 885.1 |
| 72.5° | 936.1 | 944.9 | 974.4  | 1045.5 | 1141.3 | 1177.3 | 1059.5 | 952.0 | 884.4 | 846.5 | 846.5 |
| 75°   | 760.0 | 774.6 | 815.7  | 925.1  | 1067.7 | 1129.9 | 980.9  | 833.2 | 734.8 | 694.3 | 694.3 |
| 77.5° | 463.0 | 477.0 | 532.6  | 666.1  | 862.2  | 941.9  | 799.6  | 627.5 | 513.6 | 464.1 | 457.6 |
| 80°   | 154.0 | 163.0 | 217.5  | 338.5  | 529.3  | 626.9  | 535.8  | 356.4 | 230.0 | 175.3 | 174.4 |
| 82.5° | 40.9  | 44.6  | 62.0   | 98.2   | 229.8  | 339.6  | 245.1  | 117.6 | 67.4  | 52.3  | 48.2  |
| 85°   | 14.2  | 15.3  | 26.3   | 32.7   | 58.4   | 112.4  | 68.3   | 42.6  | 32.7  | 19.8  | 18.5  |
| 87.5° | 4.1   | 4.5   | 10.6   | 11.4   | 16.8   | 13.1   | 18.5   | 17.0  | 15.5  | 6.5   | 5.8   |
| 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)