

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: McGRAW-EDISON

Report Number: P595846

Luminaire Tested: **ISW-PA1F-727-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISW-PA1F-727-U-5WQ  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9601 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B4 - U0 - G2

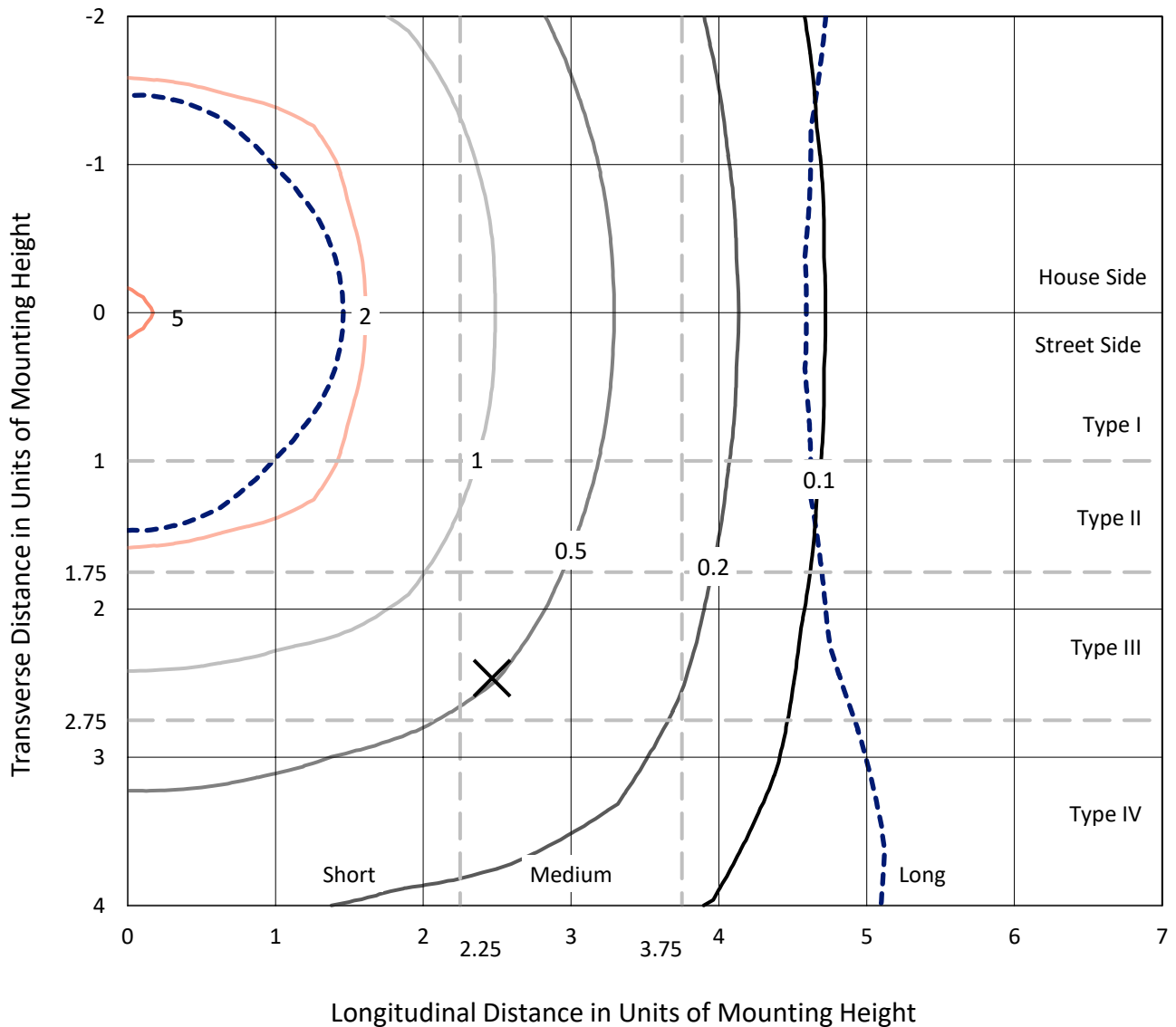
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

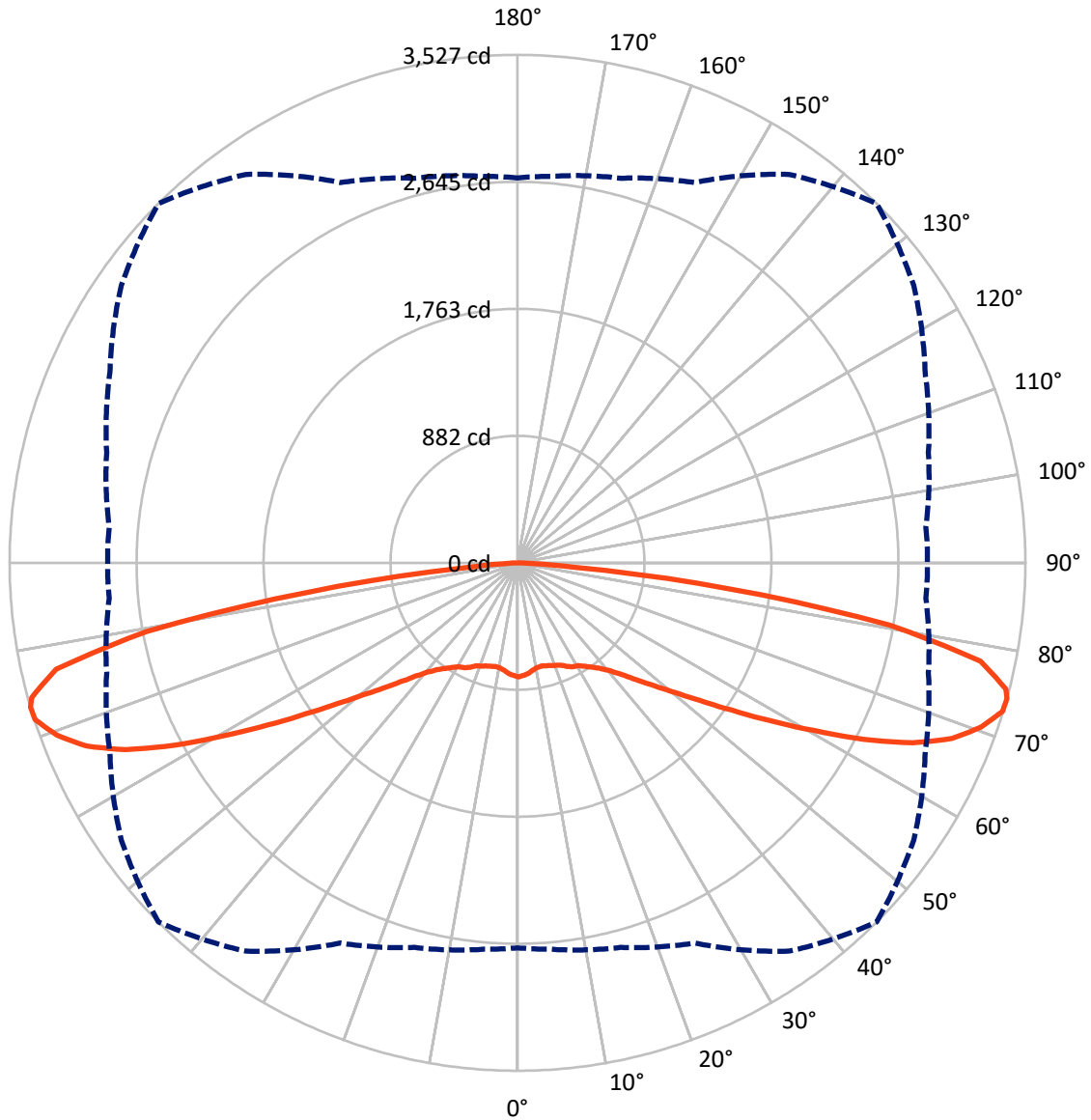
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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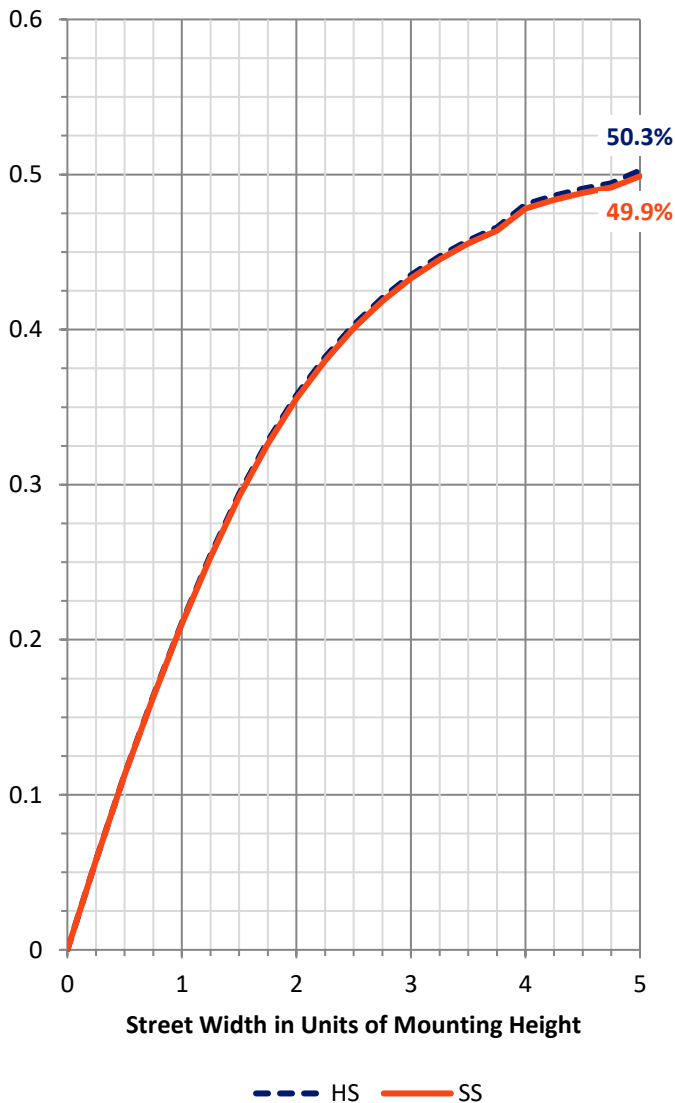
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4800.5   | 0.0    | 4800.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4800.5   | 0.0    | 4800.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9601.0   | 0.0    | 9601.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.6   | 0.8       |
| 10°-20°   | 212.7  | 2.2       |
| 20°-30°   | 367.3  | 3.8       |
| 30°-40°   | 562.6  | 5.9       |
| 40°-50°   | 915.3  | 9.5       |
| 50°-60°   | 1587.3 | 16.5      |
| 60°-70°   | 2628.8 | 27.4      |
| 70°-80°   | 2844.4 | 29.6      |
| 80°-90°   | 409.9  | 4.3       |
| 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°    | 9601.0 | 100.0     |
| 0°-180°   | 9601.0 | 100.0     |



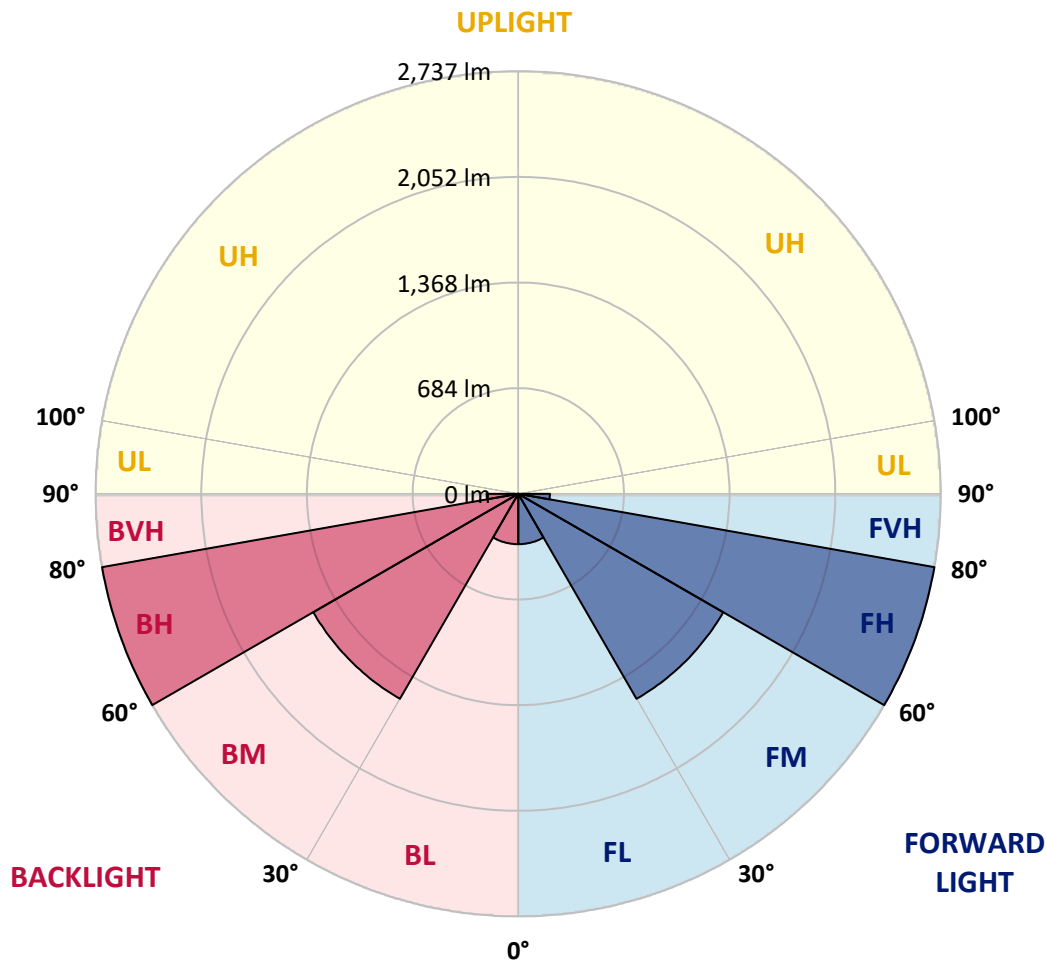
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 326.3  | 3.4       |                         |      |         |
| FM (30°-60°)   | 1532.6 | 16.0      |                         |      |         |
| FH (60°-80°)   | 2736.6 | 28.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 205.0  | 2.1       |                         |      | G2/225  |
| BL (0°-30°)    | 326.3  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 1532.6 | 16.0      | B2/2500                 |      |         |
| BH (60°-80°)   | 2736.6 | 28.5      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 205.0  | 2.1       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 792.1  | 792.1  | 792.1  | 792.1  | 792.1  | 792.1  | 792.1  | 792.1  | 792.1  | 792.1  | 792.1  |
| 2.5°  | 780.6  | 782.9  | 782.9  | 780.6  | 782.9  | 782.9  | 782.9  | 785.2  | 782.9  | 787.5  | 785.2  |
| 5°    | 769.2  | 769.2  | 771.5  | 769.2  | 769.2  | 771.5  | 769.2  | 773.8  | 771.5  | 776.1  | 771.5  |
| 7.5°  | 751.0  | 751.0  | 751.0  | 751.0  | 753.2  | 753.2  | 753.2  | 757.8  | 757.8  | 757.8  | 755.5  |
| 10°   | 746.4  | 744.1  | 744.1  | 739.6  | 739.6  | 739.6  | 737.3  | 744.1  | 746.4  | 751.0  | 748.7  |
| 12.5° | 748.7  | 748.7  | 744.1  | 739.6  | 737.3  | 735.0  | 735.0  | 741.8  | 748.7  | 751.0  | 751.0  |
| 15°   | 757.8  | 757.8  | 751.0  | 741.8  | 741.8  | 741.8  | 739.6  | 741.8  | 753.2  | 757.8  | 753.2  |
| 17.5° | 764.7  | 762.4  | 755.5  | 751.0  | 751.0  | 748.7  | 748.7  | 748.7  | 755.5  | 762.4  | 762.4  |
| 20°   | 776.1  | 776.1  | 766.9  | 762.4  | 762.4  | 760.1  | 757.8  | 755.5  | 762.4  | 771.5  | 769.2  |
| 22.5° | 792.1  | 787.5  | 780.6  | 776.1  | 773.8  | 771.5  | 766.9  | 769.2  | 773.8  | 780.6  | 780.6  |
| 25°   | 803.5  | 803.5  | 796.6  | 794.3  | 796.6  | 796.6  | 789.8  | 785.2  | 787.5  | 794.3  | 794.3  |
| 27.5° | 808.0  | 808.0  | 803.5  | 803.5  | 812.6  | 812.6  | 808.0  | 798.9  | 794.3  | 801.2  | 798.9  |
| 30°   | 826.3  | 826.3  | 821.7  | 819.4  | 826.3  | 826.3  | 824.0  | 817.2  | 814.9  | 821.7  | 819.4  |
| 32.5° | 858.2  | 856.0  | 849.1  | 842.3  | 844.6  | 856.0  | 846.8  | 844.6  | 844.6  | 851.4  | 853.7  |
| 35°   | 894.8  | 890.2  | 883.4  | 876.5  | 878.8  | 890.2  | 881.1  | 881.1  | 883.4  | 892.5  | 892.5  |
| 37.5° | 947.3  | 942.7  | 933.6  | 917.6  | 915.3  | 929.0  | 926.7  | 929.0  | 938.1  | 942.7  | 947.3  |
| 40°   | 1004.3 | 1002.0 | 990.6  | 976.9  | 974.7  | 983.8  | 986.1  | 990.6  | 999.8  | 1004.3 | 1006.6 |
| 42.5° | 1086.5 | 1081.9 | 1063.7 | 1050.0 | 1047.7 | 1059.1 | 1063.7 | 1068.2 | 1079.7 | 1084.2 | 1088.8 |
| 45°   | 1186.9 | 1184.7 | 1164.1 | 1148.1 | 1141.3 | 1157.3 | 1157.3 | 1161.8 | 1173.2 | 1182.4 | 1182.4 |
| 47.5° | 1296.5 | 1294.2 | 1278.2 | 1260.0 | 1262.3 | 1273.7 | 1271.4 | 1273.7 | 1282.8 | 1291.9 | 1298.8 |
| 50°   | 1419.8 | 1412.9 | 1394.6 | 1390.1 | 1401.5 | 1412.9 | 1403.8 | 1401.5 | 1415.2 | 1419.8 | 1417.5 |
| 52.5° | 1554.4 | 1547.6 | 1538.5 | 1538.5 | 1565.8 | 1586.4 | 1579.5 | 1559.0 | 1559.0 | 1556.7 | 1554.4 |
| 55°   | 1714.2 | 1709.6 | 1707.4 | 1718.8 | 1764.4 | 1805.5 | 1780.4 | 1741.6 | 1725.6 | 1716.5 | 1721.1 |
| 57.5° | 1880.8 | 1869.4 | 1890.0 | 1915.1 | 2006.4 | 2065.7 | 2026.9 | 1953.9 | 1931.1 | 1912.8 | 1903.7 |
| 60°   | 2049.7 | 2045.2 | 2074.9 | 2134.2 | 2264.3 | 2364.7 | 2312.2 | 2191.3 | 2150.2 | 2109.1 | 2109.1 |
| 62.5° | 2214.1 | 2209.5 | 2252.9 | 2344.2 | 2549.6 | 2698.0 | 2602.1 | 2449.2 | 2369.3 | 2307.7 | 2298.5 |
| 65°   | 2412.7 | 2405.8 | 2453.8 | 2551.9 | 2825.8 | 3013.0 | 2892.0 | 2691.1 | 2595.3 | 2510.8 | 2499.4 |
| 67.5° | 2574.7 | 2574.7 | 2638.6 | 2759.6 | 3058.6 | 3254.9 | 3104.3 | 2930.8 | 2819.0 | 2732.2 | 2723.1 |
| 70°   | 2730.0 | 2743.6 | 2791.6 | 2910.3 | 3236.7 | 3414.7 | 3277.8 | 3122.6 | 3022.1 | 2935.4 | 2926.3 |
| 72.5° | 2796.1 | 2814.4 | 2862.3 | 2978.8 | 3314.3 | 3522.0 | 3362.2 | 3184.2 | 3076.9 | 2990.2 | 2978.8 |
| 74°   | 2672.9 | 2693.4 | 2764.2 | 2912.6 | 3291.5 | 3526.6 | 3357.7 | 3122.6 | 2953.6 | 2846.4 | 2846.4 |
| 75°   | 2533.7 | 2561.0 | 2645.5 | 2805.3 | 3243.5 | 3501.5 | 3309.7 | 3024.4 | 2789.3 | 2663.8 | 2670.6 |
| 77.5° | 1953.9 | 2013.2 | 2104.5 | 2355.6 | 2910.3 | 3286.9 | 2942.2 | 2426.4 | 2049.7 | 1862.6 | 1858.0 |
| 80°   | 556.9  | 639.1  | 846.8  | 1406.1 | 2211.8 | 2618.1 | 2161.6 | 1435.7 | 1013.5 | 771.5  | 741.8  |
| 82.5° | 134.7  | 157.5  | 216.8  | 397.2  | 945.0  | 1479.1 | 1070.5 | 470.2  | 283.0  | 184.9  | 148.4  |
| 85°   | 57.1   | 61.6   | 98.2   | 137.0  | 260.2  | 392.6  | 248.8  | 159.8  | 116.4  | 52.5   | 50.2   |
| 87.5° | 20.5   | 22.8   | 36.5   | 36.5   | 54.8   | 32.0   | 57.1   | 38.8   | 41.1   | 13.7   | 13.7   |
| 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)