

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: P594775

Luminaire Tested: **ISS-PA1E-727-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594775  
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: ISS-PA1E-727-U-5WQ  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8881 lumens  
Efficiency: N/A  
Efficacy: 107.8 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

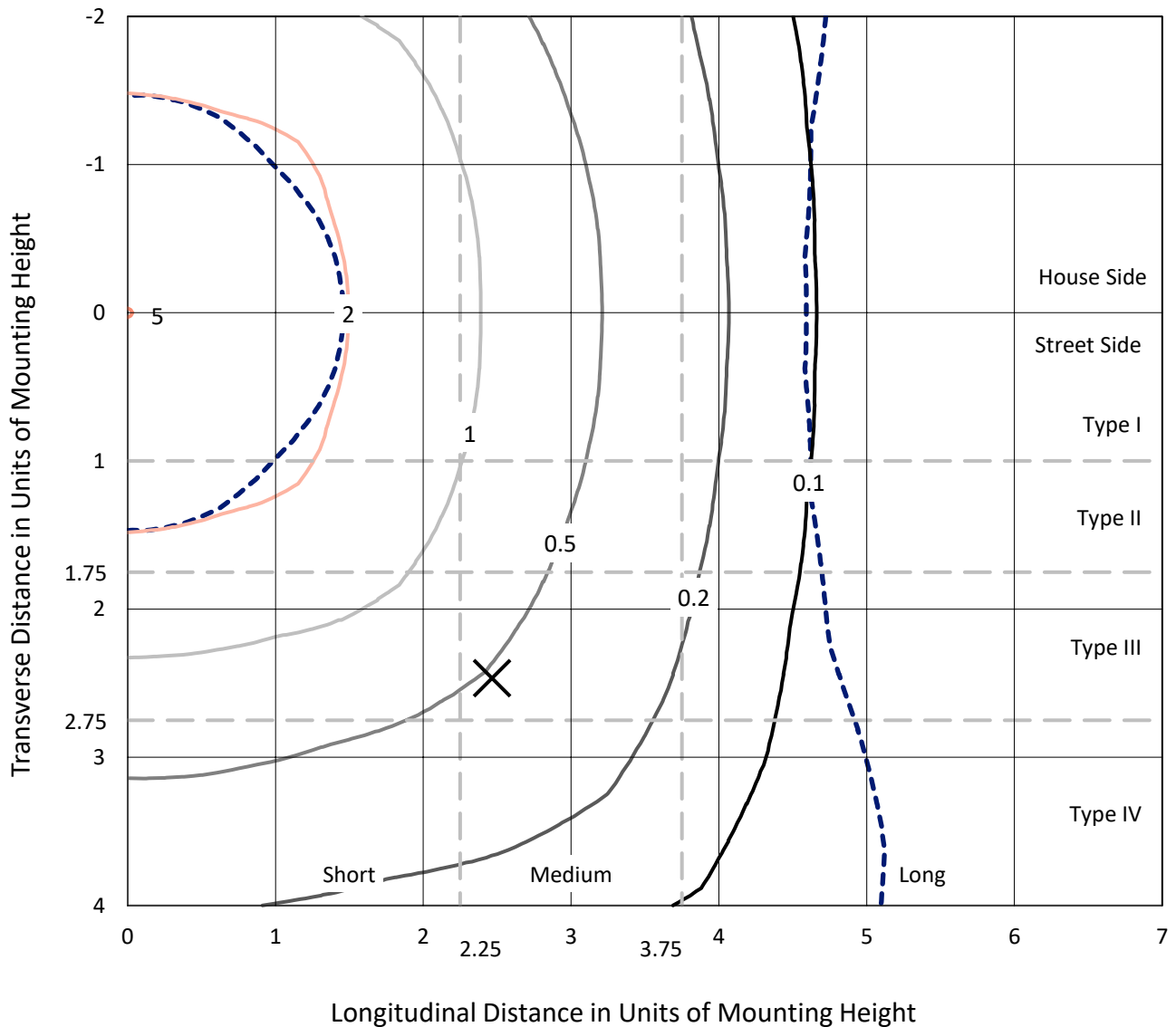
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

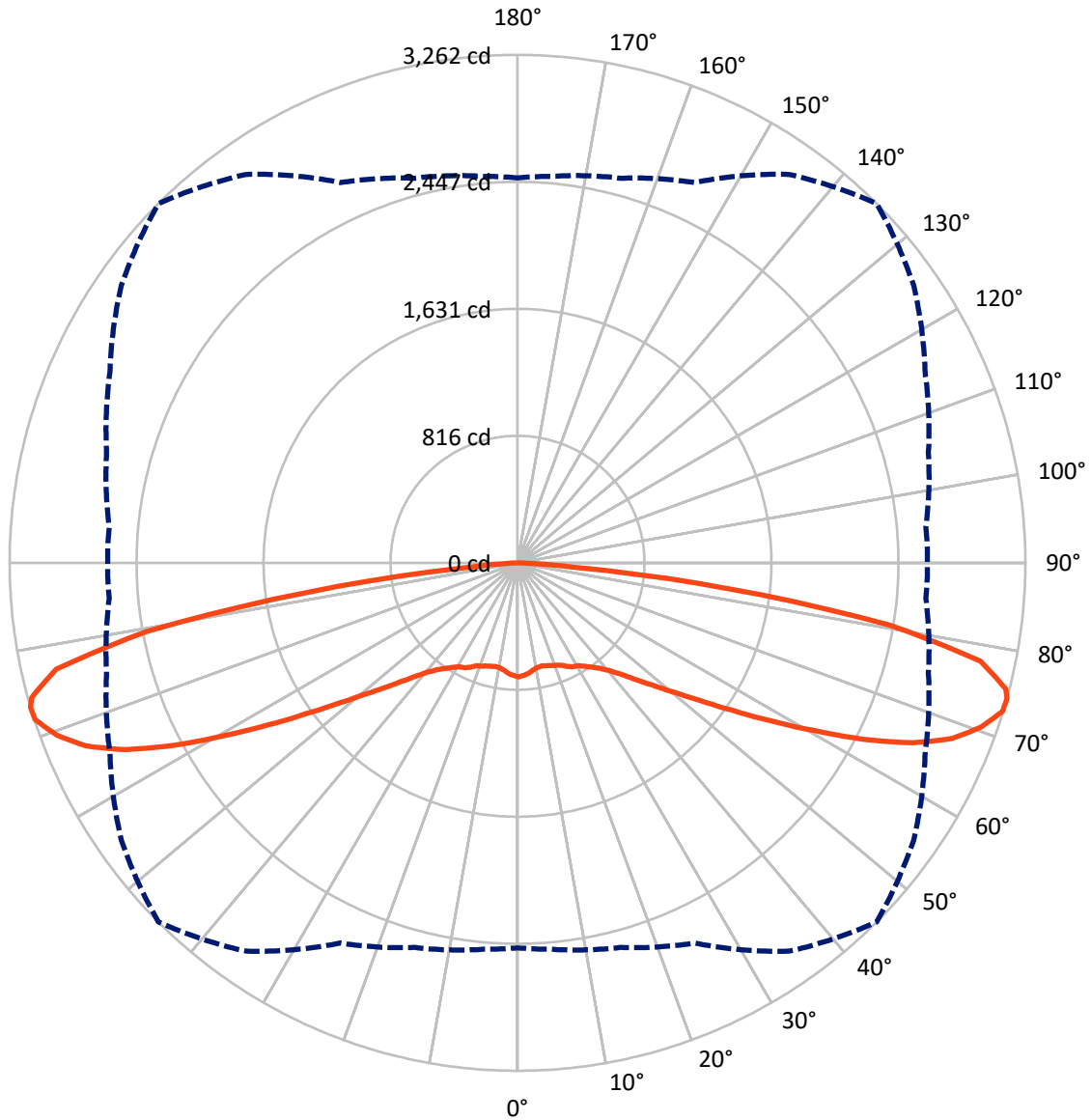
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.1 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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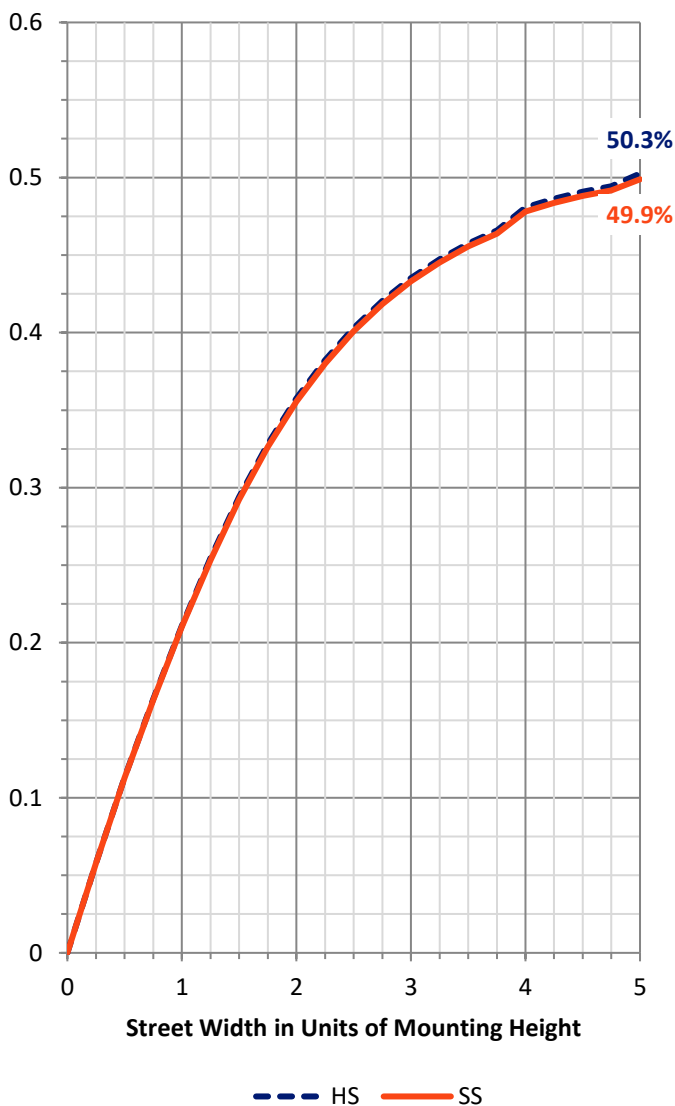
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4440.5   | 0.0    | 4440.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4440.5   | 0.0    | 4440.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8881.0   | 0.0    | 8881.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.2   | 0.8       |
| 10°-20°   | 196.7  | 2.2       |
| 20°-30°   | 339.8  | 3.8       |
| 30°-40°   | 520.4  | 5.9       |
| 40°-50°   | 846.7  | 9.5       |
| 50°-60°   | 1468.3 | 16.5      |
| 60°-70°   | 2431.7 | 27.4      |
| 70°-80°   | 2631.0 | 29.6      |
| 80°-90°   | 379.2  | 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°    | 8881.0 | 100.0     |
| 0°-180°   | 8881.0 | 100.0     |

**Coefficient of Utilization**

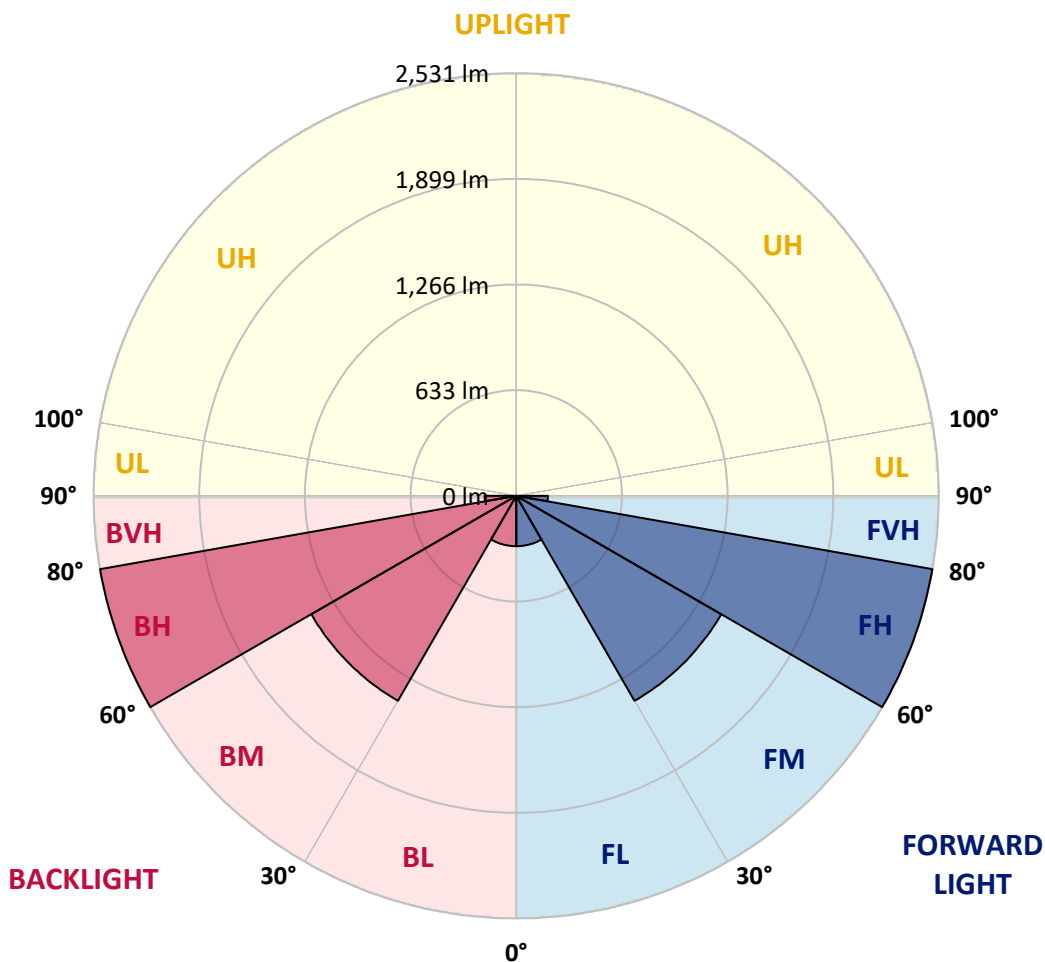


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 301.9  | 3.4       |                         |      |         |
| FM (30°-60°)   | 1417.7 | 16.0      |                         |      |         |
| FH (60°-80°)   | 2531.4 | 28.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 189.6  | 2.1       |                         |      | G2/225  |
| BL (0°-30°)    | 301.9  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 1417.7 | 16.0      | B2/2500                 |      |         |
| BH (60°-80°)   | 2531.4 | 28.5      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 189.6  | 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°    | 732.7  | 732.7  | 732.7  | 732.7  | 732.7  | 732.7  | 732.7  | 732.7  | 732.7  | 732.7  | 732.7  |
| 2.5°  | 722.1  | 724.2  | 724.2  | 722.1  | 724.2  | 724.2  | 724.2  | 726.3  | 724.2  | 728.4  | 726.3  |
| 5°    | 711.5  | 711.5  | 713.7  | 711.5  | 711.5  | 713.7  | 711.5  | 715.8  | 713.7  | 717.9  | 713.7  |
| 7.5°  | 694.6  | 694.6  | 694.6  | 694.6  | 696.8  | 696.8  | 696.8  | 701.0  | 701.0  | 701.0  | 698.9  |
| 10°   | 690.4  | 688.3  | 688.3  | 684.1  | 684.1  | 684.1  | 682.0  | 688.3  | 690.4  | 694.6  | 692.5  |
| 12.5° | 692.5  | 692.5  | 688.3  | 684.1  | 682.0  | 679.9  | 679.9  | 686.2  | 692.5  | 694.6  | 694.6  |
| 15°   | 701.0  | 701.0  | 694.6  | 686.2  | 686.2  | 686.2  | 684.1  | 686.2  | 696.8  | 701.0  | 696.8  |
| 17.5° | 707.3  | 705.2  | 698.9  | 694.6  | 694.6  | 692.5  | 692.5  | 692.5  | 698.9  | 705.2  | 705.2  |
| 20°   | 717.9  | 717.9  | 709.4  | 705.2  | 705.2  | 703.1  | 701.0  | 698.9  | 705.2  | 713.7  | 711.5  |
| 22.5° | 732.7  | 728.4  | 722.1  | 717.9  | 715.8  | 713.7  | 709.4  | 711.5  | 715.8  | 722.1  | 722.1  |
| 25°   | 743.2  | 743.2  | 736.9  | 734.8  | 736.9  | 736.9  | 730.5  | 726.3  | 728.4  | 734.8  | 734.8  |
| 27.5° | 747.4  | 747.4  | 743.2  | 743.2  | 751.7  | 755.9  | 747.4  | 739.0  | 734.8  | 741.1  | 739.0  |
| 30°   | 764.3  | 764.3  | 760.1  | 758.0  | 764.3  | 766.4  | 762.2  | 755.9  | 753.8  | 760.1  | 758.0  |
| 32.5° | 793.9  | 791.8  | 785.4  | 779.1  | 781.2  | 791.8  | 783.3  | 781.2  | 781.2  | 787.6  | 789.7  |
| 35°   | 827.7  | 823.4  | 817.1  | 810.8  | 812.9  | 823.4  | 815.0  | 815.0  | 817.1  | 825.6  | 825.6  |
| 37.5° | 876.2  | 872.0  | 863.6  | 848.8  | 846.7  | 859.3  | 857.2  | 859.3  | 867.8  | 872.0  | 876.2  |
| 40°   | 929.0  | 926.9  | 916.3  | 903.7  | 901.6  | 910.0  | 912.1  | 916.3  | 924.8  | 929.0  | 931.1  |
| 42.5° | 1005.0 | 1000.8 | 983.9  | 971.2  | 969.1  | 979.7  | 983.9  | 988.1  | 998.7  | 1002.9 | 1007.1 |
| 45°   | 1097.9 | 1095.8 | 1076.8 | 1062.0 | 1055.7 | 1070.5 | 1070.5 | 1074.7 | 1085.3 | 1093.7 | 1093.7 |
| 47.5° | 1199.3 | 1197.2 | 1182.4 | 1165.5 | 1167.6 | 1178.2 | 1176.0 | 1178.2 | 1186.6 | 1195.0 | 1201.4 |
| 50°   | 1313.3 | 1307.0 | 1290.1 | 1285.8 | 1296.4 | 1307.0 | 1298.5 | 1296.4 | 1309.1 | 1313.3 | 1311.2 |
| 52.5° | 1437.9 | 1431.5 | 1423.1 | 1423.1 | 1448.4 | 1467.4 | 1461.1 | 1442.1 | 1442.1 | 1440.0 | 1437.9 |
| 55°   | 1585.7 | 1581.4 | 1579.3 | 1589.9 | 1632.1 | 1670.1 | 1646.9 | 1611.0 | 1596.2 | 1587.8 | 1592.0 |
| 57.5° | 1739.8 | 1729.2 | 1748.2 | 1771.5 | 1855.9 | 1910.8 | 1874.9 | 1807.4 | 1786.2 | 1769.3 | 1760.9 |
| 60°   | 1896.0 | 1891.8 | 1919.3 | 1974.2 | 2094.5 | 2187.4 | 2138.8 | 2026.9 | 1988.9 | 1950.9 | 1950.9 |
| 62.5° | 2048.1 | 2043.8 | 2083.9 | 2168.4 | 2358.4 | 2495.7 | 2407.0 | 2265.5 | 2191.6 | 2134.6 | 2126.2 |
| 65°   | 2231.7 | 2225.4 | 2269.7 | 2360.5 | 2613.9 | 2787.0 | 2675.1 | 2489.3 | 2400.7 | 2322.5 | 2312.0 |
| 67.5° | 2381.7 | 2381.7 | 2440.8 | 2552.7 | 2829.3 | 3010.8 | 2871.5 | 2711.0 | 2607.6 | 2527.3 | 2518.9 |
| 70°   | 2525.2 | 2537.9 | 2582.2 | 2692.0 | 2994.0 | 3158.6 | 3032.0 | 2888.4 | 2795.5 | 2715.3 | 2706.8 |
| 72.5° | 2586.5 | 2603.3 | 2647.7 | 2755.4 | 3065.7 | 3257.9 | 3110.1 | 2945.4 | 2846.2 | 2765.9 | 2755.4 |
| 74°   | 2472.4 | 2491.4 | 2556.9 | 2694.1 | 3044.6 | 3262.1 | 3105.9 | 2888.4 | 2732.1 | 2632.9 | 2632.9 |
| 75°   | 2343.6 | 2369.0 | 2447.1 | 2594.9 | 3000.3 | 3238.9 | 3061.5 | 2797.6 | 2580.1 | 2464.0 | 2470.3 |
| 77.5° | 1807.4 | 1862.2 | 1946.7 | 2179.0 | 2692.0 | 3040.4 | 2721.6 | 2244.4 | 1896.0 | 1722.9 | 1718.7 |
| 80°   | 515.2  | 591.2  | 783.3  | 1300.6 | 2045.9 | 2421.8 | 1999.5 | 1328.1 | 937.5  | 713.7  | 686.2  |
| 82.5° | 124.6  | 145.7  | 200.6  | 367.4  | 874.1  | 1368.2 | 990.2  | 434.9  | 261.8  | 171.0  | 137.2  |
| 85°   | 52.8   | 57.0   | 90.8   | 126.7  | 240.7  | 363.2  | 230.1  | 147.8  | 107.7  | 48.6   | 46.5   |
| 87.5° | 19.0   | 21.1   | 33.8   | 33.8   | 50.7   | 29.6   | 52.8   | 35.9   | 38.0   | 12.7   | 12.7   |
| 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)