

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: STREETWORKS

Report Number: P799247

Luminaire Tested: **ARCH2-100-730-U-5WQ**

Issue Date: 4/4/2024

### Test Information

Test Method: LM-79-08  
Report Number: P799247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-100-730-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12686 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 103.3  
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: 24 FT

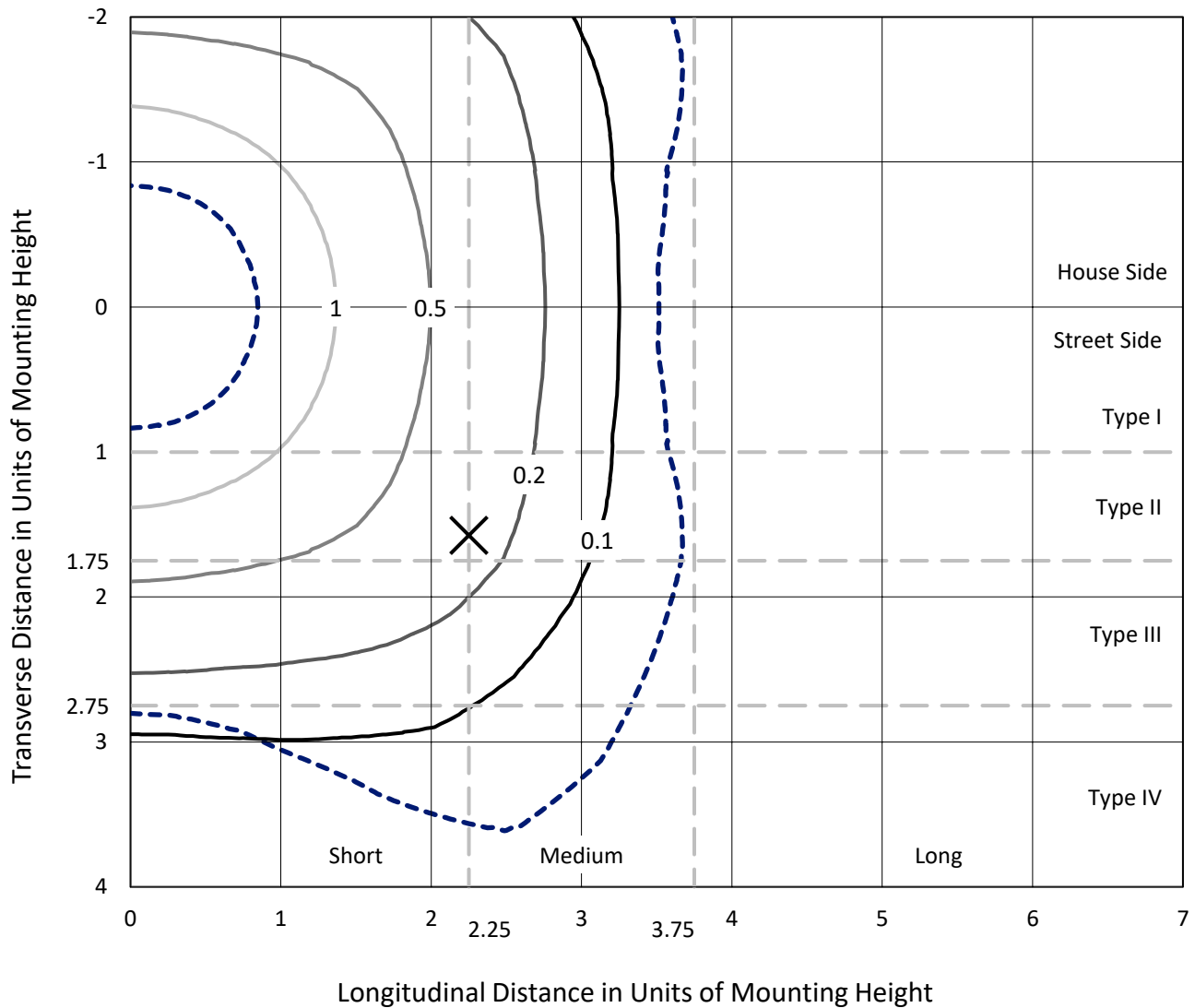


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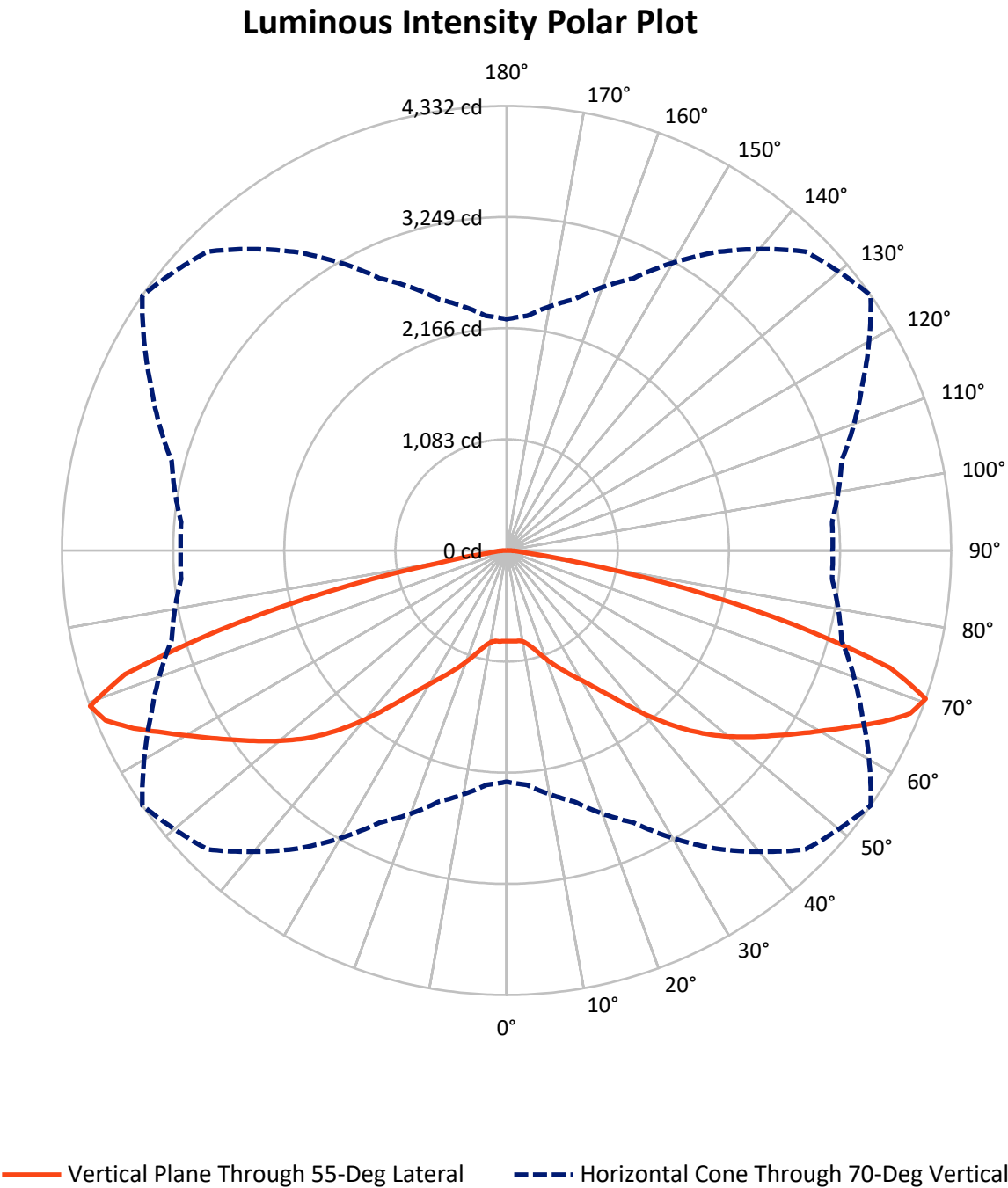
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
Type V - Medium - N/A

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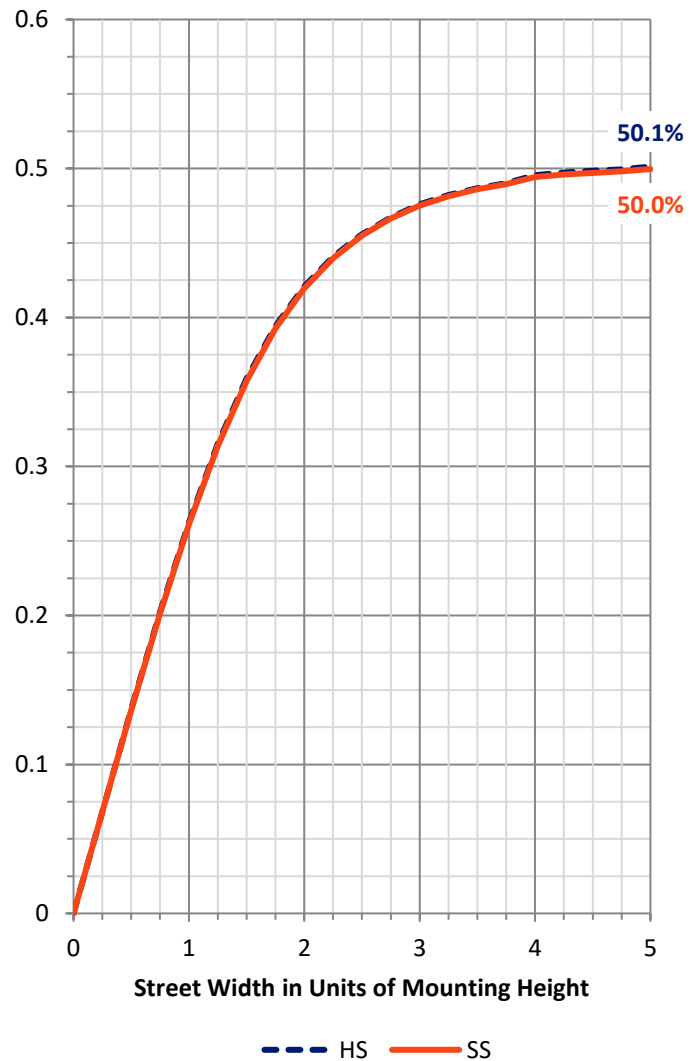
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6343.0   | 0.0    | 6343.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6343.0   | 0.0    | 6343.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12686.0  | 0.0    | 12686.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 85.4    | 0.7       |
| 10°-20°   | 290.6   | 2.3       |
| 20°-30°   | 603.7   | 4.8       |
| 30°-40°   | 1115.1  | 8.8       |
| 40°-50°   | 1959.0  | 15.4      |
| 50°-60°   | 2825.3  | 22.3      |
| 60°-70°   | 3457.8  | 27.3      |
| 70°-80°   | 2200.3  | 17.3      |
| 80°-90°   | 148.9   | 1.2       |
| 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°    | 12686.0 | 100.0     |
| 0°-180°   | 12686.0 | 100.0     |

**Coefficient of Utilization**



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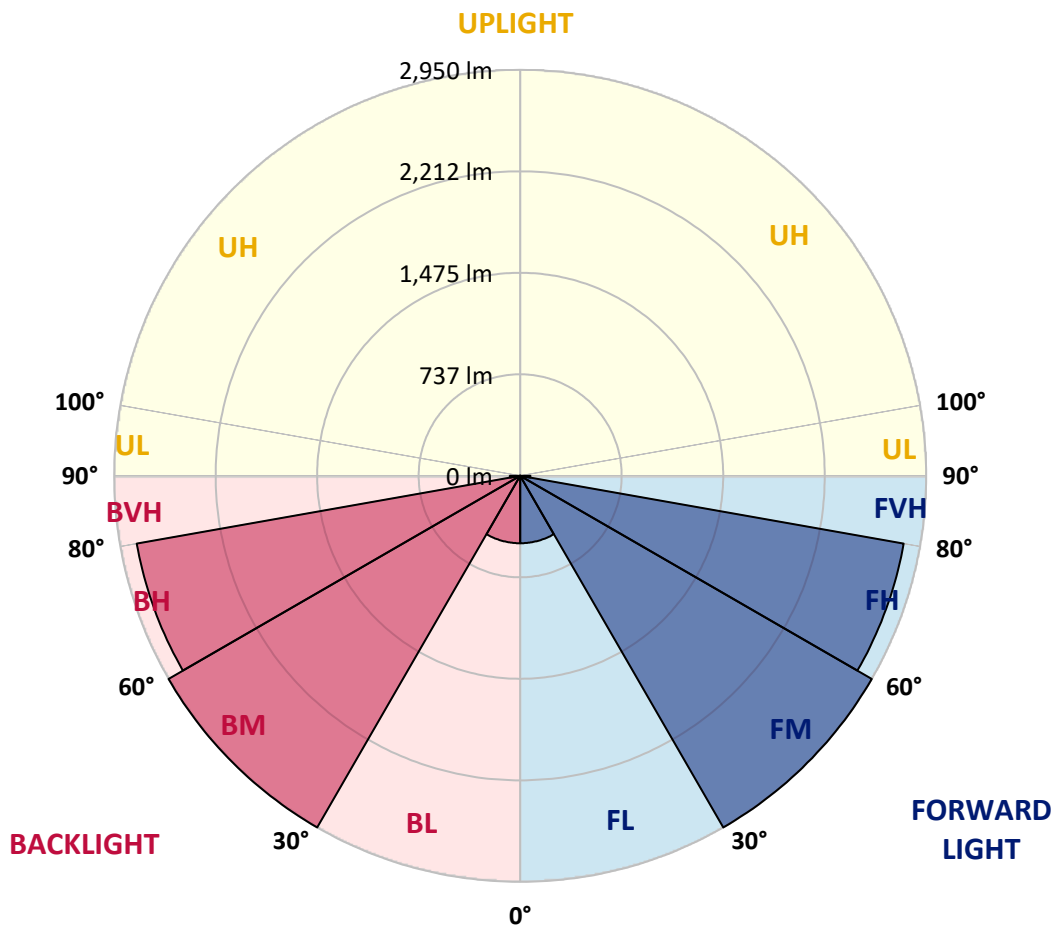
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 489.8  | 3.9       |                         |      |         |
| FM   | (30°-60°)   | 2949.7 | 23.3      |                         |      |         |
| FH   | (60°-80°)   | 2829.1 | 22.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 74.4   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 489.8  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2949.7 | 23.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2829.1 | 22.3      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 74.4   | 0.6       |                         |      | G1/100  |
| 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°    | 884.3  | 884.3  | 884.3  | 884.3  | 884.3  | 884.3  | 884.3  | 884.3  | 884.3  | 884.3  | 884.3  |
| 2.5°  | 896.1  | 896.1  | 893.8  | 893.8  | 889.1  | 886.7  | 884.3  | 884.3  | 882.0  | 882.0  | 879.6  |
| 5°    | 900.8  | 900.8  | 900.8  | 898.5  | 896.1  | 893.8  | 889.1  | 884.3  | 882.0  | 879.6  | 877.3  |
| 7.5°  | 903.2  | 903.2  | 900.8  | 900.8  | 898.5  | 896.1  | 889.1  | 882.0  | 879.6  | 877.3  | 877.3  |
| 10°   | 922.1  | 919.7  | 917.3  | 912.6  | 912.6  | 912.6  | 903.2  | 896.1  | 893.8  | 893.8  | 893.8  |
| 12.5° | 966.9  | 964.5  | 959.8  | 952.7  | 952.7  | 955.1  | 940.9  | 931.5  | 931.5  | 929.1  | 929.1  |
| 15°   | 1032.9 | 1030.5 | 1025.8 | 1014.0 | 1011.7 | 1016.4 | 995.2  | 985.7  | 985.7  | 985.7  | 983.4  |
| 17.5° | 1106.0 | 1101.3 | 1094.2 | 1084.8 | 1084.8 | 1084.8 | 1063.6 | 1051.8 | 1044.7 | 1044.7 | 1042.3 |
| 20°   | 1167.3 | 1165.0 | 1165.0 | 1162.6 | 1169.7 | 1169.7 | 1141.4 | 1122.5 | 1106.0 | 1096.6 | 1094.2 |
| 22.5° | 1221.6 | 1219.2 | 1223.9 | 1233.4 | 1247.5 | 1252.2 | 1219.2 | 1190.9 | 1165.0 | 1146.1 | 1141.4 |
| 25°   | 1294.7 | 1292.3 | 1289.9 | 1304.1 | 1327.7 | 1334.8 | 1299.4 | 1264.0 | 1238.1 | 1228.6 | 1223.9 |
| 27.5° | 1372.5 | 1374.8 | 1377.2 | 1391.4 | 1410.2 | 1422.0 | 1386.6 | 1353.6 | 1332.4 | 1318.2 | 1313.5 |
| 30°   | 1459.7 | 1464.5 | 1471.5 | 1492.8 | 1506.9 | 1511.6 | 1481.0 | 1457.4 | 1438.5 | 1426.7 | 1419.7 |
| 32.5° | 1570.6 | 1580.0 | 1589.4 | 1608.3 | 1615.4 | 1610.7 | 1596.5 | 1580.0 | 1565.9 | 1549.4 | 1547.0 |
| 35°   | 1735.7 | 1745.1 | 1742.7 | 1749.8 | 1752.2 | 1747.4 | 1740.4 | 1730.9 | 1723.9 | 1702.6 | 1700.3 |
| 37.5° | 1943.2 | 1952.6 | 1938.5 | 1931.4 | 1914.9 | 1917.2 | 1914.9 | 1922.0 | 1924.3 | 1903.1 | 1900.7 |
| 40°   | 2153.1 | 2162.5 | 2143.6 | 2124.8 | 2108.3 | 2101.2 | 2113.0 | 2136.6 | 2136.6 | 2122.4 | 2122.4 |
| 42.5° | 2377.1 | 2384.2 | 2353.5 | 2329.9 | 2308.7 | 2304.0 | 2311.1 | 2339.4 | 2346.4 | 2344.1 | 2344.1 |
| 45°   | 2601.1 | 2596.4 | 2556.3 | 2532.7 | 2513.9 | 2502.1 | 2504.4 | 2525.7 | 2539.8 | 2546.9 | 2546.9 |
| 47.5° | 2773.3 | 2766.2 | 2733.2 | 2714.3 | 2702.5 | 2686.0 | 2686.0 | 2697.8 | 2704.9 | 2707.2 | 2707.2 |
| 50°   | 2910.0 | 2903.0 | 2870.0 | 2867.6 | 2867.6 | 2860.5 | 2853.5 | 2851.1 | 2846.4 | 2848.7 | 2848.7 |
| 52.5° | 3028.0 | 3018.5 | 2994.9 | 2999.7 | 3020.9 | 3025.6 | 3016.2 | 2997.3 | 2978.4 | 2971.4 | 2973.7 |
| 55°   | 3155.3 | 3141.2 | 3122.3 | 3136.4 | 3178.9 | 3197.8 | 3183.6 | 3145.9 | 3112.9 | 3091.6 | 3091.6 |
| 57.5° | 3256.7 | 3240.2 | 3240.2 | 3280.3 | 3358.1 | 3395.8 | 3365.2 | 3294.4 | 3237.8 | 3214.3 | 3216.6 |
| 60°   | 3186.0 | 3171.8 | 3228.4 | 3405.3 | 3551.5 | 3615.2 | 3563.3 | 3438.3 | 3346.3 | 3318.0 | 3322.7 |
| 62.5° | 3046.8 | 3037.4 | 3108.1 | 3381.7 | 3726.0 | 3858.1 | 3780.2 | 3601.0 | 3464.2 | 3431.2 | 3431.2 |
| 65°   | 2841.7 | 2839.3 | 2938.3 | 3275.6 | 3766.1 | 4091.5 | 4025.5 | 3777.9 | 3601.0 | 3556.2 | 3565.6 |
| 67.5° | 2629.4 | 2629.4 | 2719.0 | 3094.0 | 3718.9 | 4190.6 | 4242.4 | 3938.2 | 3667.0 | 3556.2 | 3558.6 |
| 70°   | 2254.5 | 2294.6 | 2532.7 | 2926.6 | 3546.8 | 4119.8 | 4332.1 | 3825.0 | 3379.3 | 3183.6 | 3176.5 |
| 72.5° | 1485.7 | 1537.6 | 2011.6 | 2634.1 | 3377.0 | 3862.8 | 3909.9 | 3360.5 | 2806.3 | 2577.5 | 2565.7 |
| 75°   | 896.1  | 940.9  | 1304.1 | 2056.4 | 2969.0 | 3110.5 | 2903.0 | 2634.1 | 2096.5 | 1917.2 | 1917.2 |
| 77.5° | 264.1  | 294.8  | 601.3  | 1304.1 | 2054.0 | 2044.6 | 1789.9 | 1551.7 | 1240.4 | 1054.1 | 1068.3 |
| 80°   | 155.6  | 160.4  | 195.7  | 594.3  | 851.3  | 896.1  | 691.0  | 431.6  | 431.6  | 320.7  | 311.3  |
| 82.5° | 120.3  | 120.3  | 125.0  | 148.6  | 205.2  | 228.7  | 174.5  | 148.6  | 169.8  | 143.9  | 136.8  |
| 85°   | 84.9   | 84.9   | 84.9   | 87.3   | 89.6   | 92.0   | 96.7   | 99.0   | 108.5  | 89.6   | 84.9   |
| 87.5° | 25.9   | 28.3   | 30.7   | 35.4   | 42.4   | 44.8   | 47.2   | 42.4   | 42.4   | 40.1   | 37.7   |
| 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)