

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: P800143

Luminaire Tested: **ARCH2-80-730-U-5WQ**

Issue Date: 4/4/2024

#### Test Information

Test Method: LM-79-08  
Report Number: P800143  
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: ARCH2-80-730-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11036 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 84.3  
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

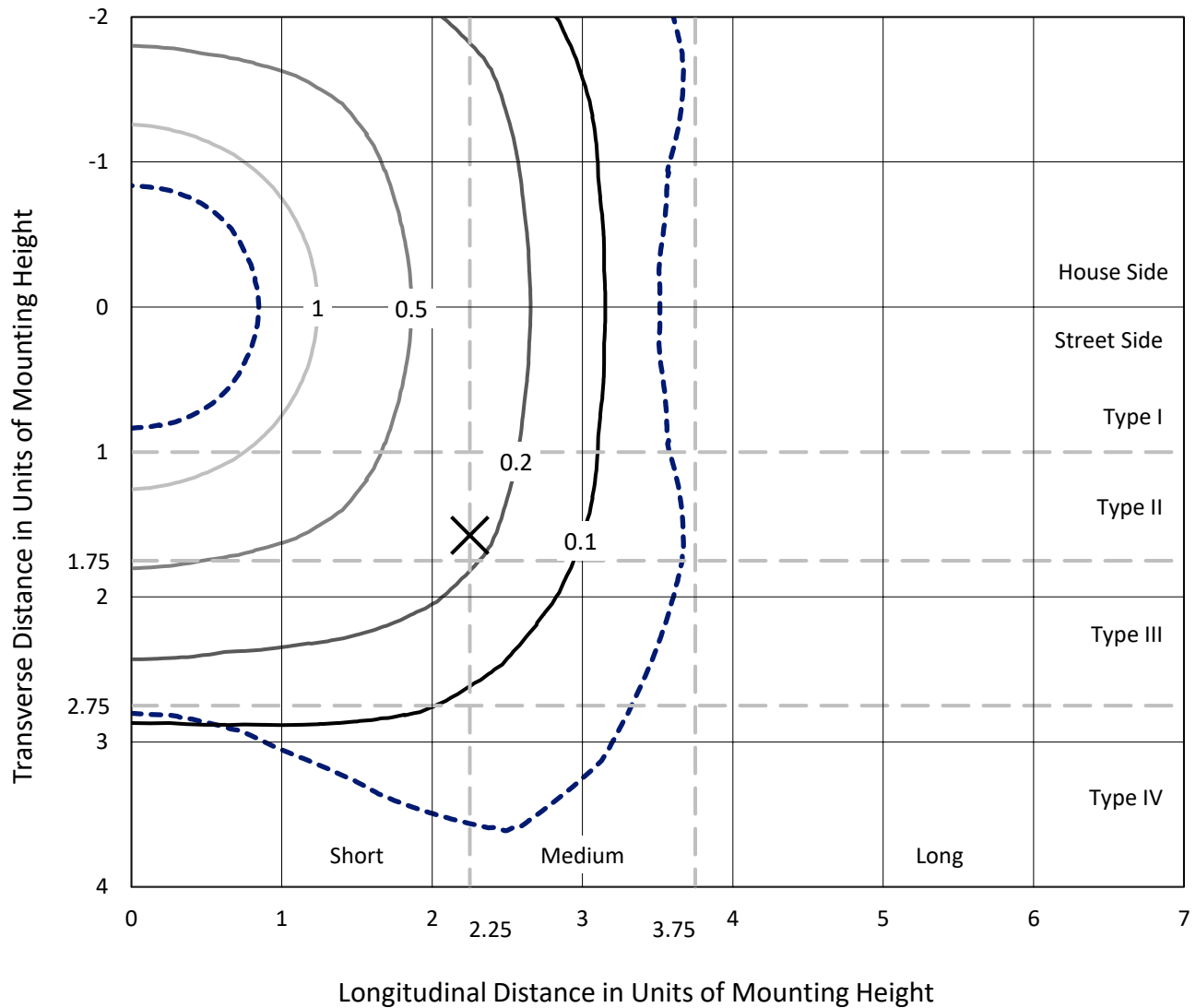


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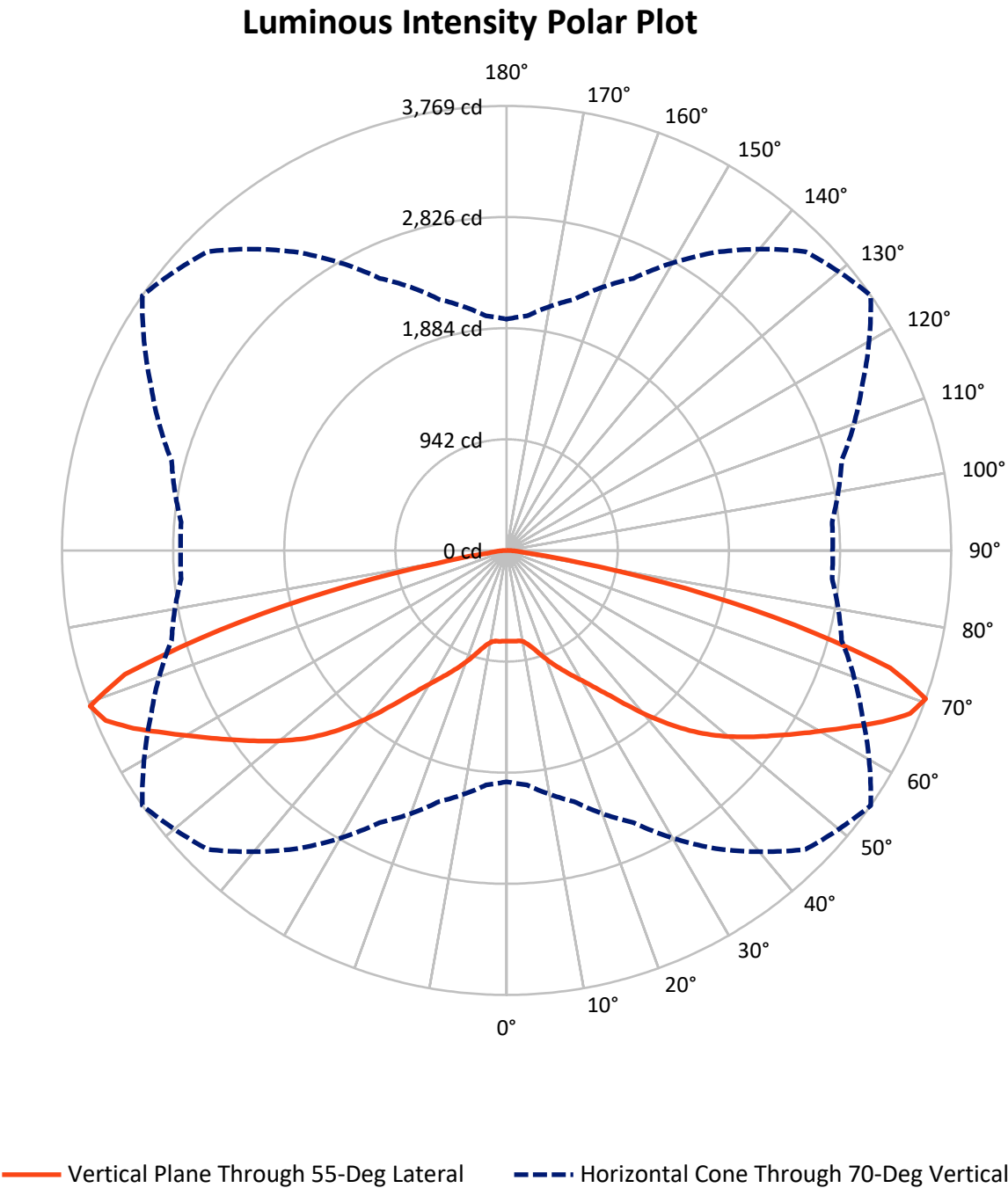
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
Type V - Medium - N/A

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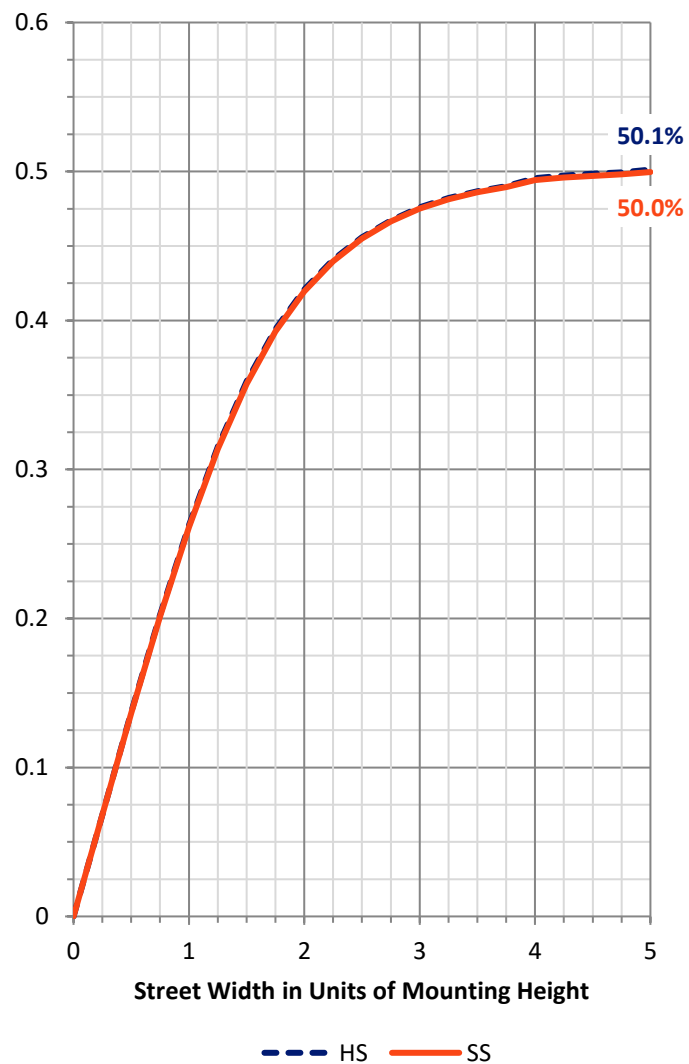
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5518.0   | 0.0    | 5518.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5518.0   | 0.0    | 5518.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11036.0  | 0.0    | 11036.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 74.3    | 0.7       |
| 10°-20°   | 252.8   | 2.3       |
| 20°-30°   | 525.2   | 4.8       |
| 30°-40°   | 970.0   | 8.8       |
| 40°-50°   | 1704.2  | 15.4      |
| 50°-60°   | 2457.8  | 22.3      |
| 60°-70°   | 3008.1  | 27.3      |
| 70°-80°   | 1914.1  | 17.3      |
| 80°-90°   | 129.5   | 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°    | 11036.0 | 100.0     |
| 0°-180°   | 11036.0 | 100.0     |

**Coefficient of Utilization**



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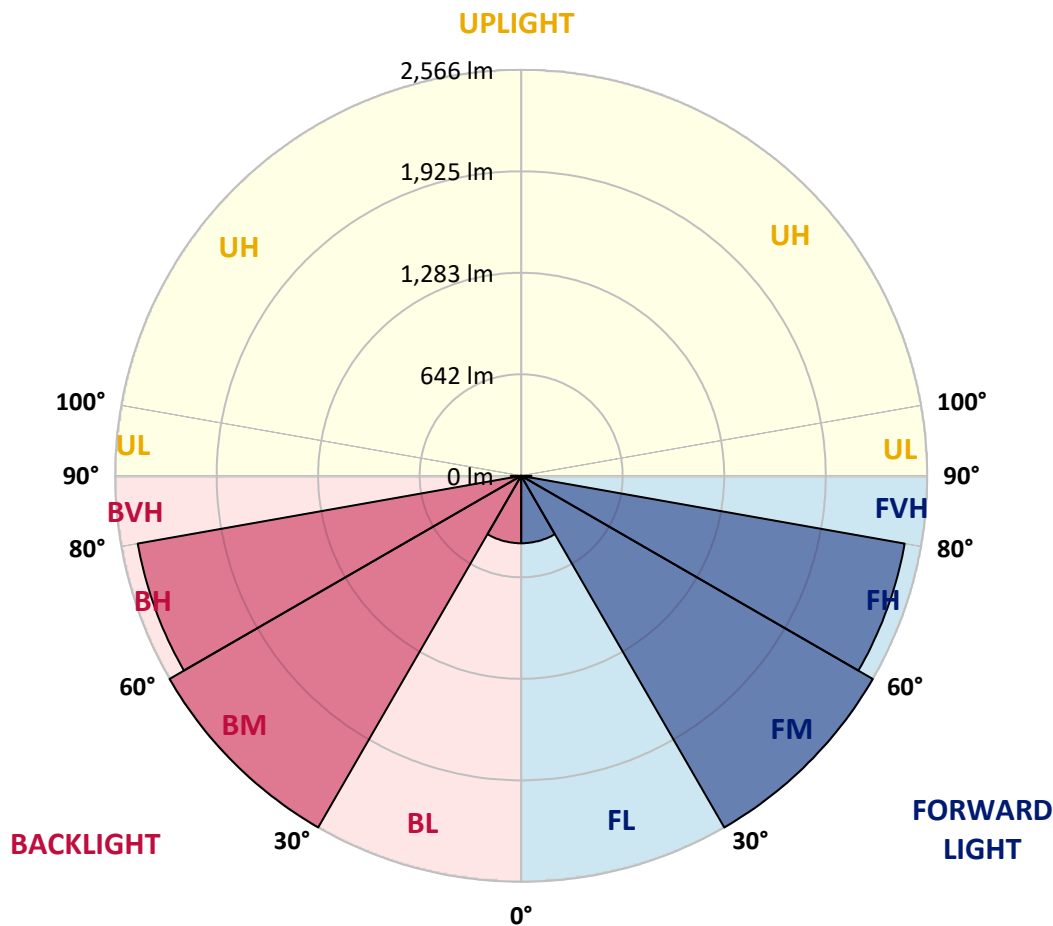
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 426.1  | 3.9       |                         |      |         |
| FM   | (30°-60°)   | 2566.0 | 23.3      |                         |      |         |
| FH   | (60°-80°)   | 2461.1 | 22.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 64.8   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 426.1  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2566.0 | 23.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2461.1 | 22.3      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 64.8   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 769.3  | 769.3  | 769.3  | 769.3  | 769.3  | 769.3  | 769.3  | 769.3  | 769.3  | 769.3  | 769.3  |
| 2.5°  | 779.6  | 779.6  | 777.5  | 777.5  | 773.4  | 771.4  | 769.3  | 769.3  | 767.3  | 767.3  | 765.2  |
| 5°    | 783.7  | 783.7  | 783.7  | 781.6  | 779.6  | 777.5  | 773.4  | 769.3  | 767.3  | 765.2  | 763.2  |
| 7.5°  | 785.7  | 785.7  | 783.7  | 783.7  | 781.6  | 779.6  | 773.4  | 767.3  | 765.2  | 763.2  | 763.2  |
| 10°   | 802.1  | 800.1  | 798.0  | 793.9  | 793.9  | 793.9  | 785.7  | 779.6  | 777.5  | 777.5  | 777.5  |
| 12.5° | 841.1  | 839.1  | 835.0  | 828.8  | 828.8  | 830.9  | 818.5  | 810.3  | 810.3  | 808.3  | 808.3  |
| 15°   | 898.6  | 896.5  | 892.4  | 882.1  | 880.1  | 884.2  | 865.7  | 857.5  | 857.5  | 857.5  | 855.5  |
| 17.5° | 962.2  | 958.1  | 951.9  | 943.7  | 943.7  | 943.7  | 925.2  | 915.0  | 908.8  | 908.8  | 906.8  |
| 20°   | 1015.5 | 1013.4 | 1013.4 | 1011.4 | 1017.5 | 1017.5 | 992.9  | 976.5  | 962.2  | 953.9  | 951.9  |
| 22.5° | 1062.7 | 1060.6 | 1064.7 | 1072.9 | 1085.2 | 1089.3 | 1060.6 | 1036.0 | 1013.4 | 997.0  | 992.9  |
| 25°   | 1126.3 | 1124.2 | 1122.2 | 1134.5 | 1155.0 | 1161.2 | 1130.4 | 1099.6 | 1077.0 | 1068.8 | 1064.7 |
| 27.5° | 1194.0 | 1196.0 | 1198.1 | 1210.4 | 1226.8 | 1237.1 | 1206.3 | 1177.6 | 1159.1 | 1146.8 | 1142.7 |
| 30°   | 1269.9 | 1274.0 | 1280.1 | 1298.6 | 1310.9 | 1315.0 | 1288.3 | 1267.8 | 1251.4 | 1241.2 | 1235.0 |
| 32.5° | 1366.3 | 1374.5 | 1382.7 | 1399.1 | 1405.3 | 1401.2 | 1388.9 | 1374.5 | 1362.2 | 1347.8 | 1345.8 |
| 35°   | 1509.9 | 1518.1 | 1516.1 | 1522.2 | 1524.3 | 1520.2 | 1514.0 | 1505.8 | 1499.6 | 1481.2 | 1479.1 |
| 37.5° | 1690.4 | 1698.6 | 1686.3 | 1680.2 | 1665.8 | 1667.9 | 1665.8 | 1672.0 | 1674.0 | 1655.6 | 1653.5 |
| 40°   | 1873.0 | 1881.2 | 1864.8 | 1848.4 | 1834.0 | 1827.9 | 1838.1 | 1858.7 | 1858.7 | 1846.4 | 1846.4 |
| 42.5° | 2067.9 | 2074.1 | 2047.4 | 2026.9 | 2008.4 | 2004.3 | 2010.5 | 2035.1 | 2041.2 | 2039.2 | 2039.2 |
| 45°   | 2262.8 | 2258.7 | 2223.8 | 2203.3 | 2186.9 | 2176.6 | 2178.7 | 2197.2 | 2209.5 | 2215.6 | 2215.6 |
| 47.5° | 2412.6 | 2406.4 | 2377.7 | 2361.3 | 2351.0 | 2336.7 | 2336.7 | 2346.9 | 2353.1 | 2355.1 | 2355.1 |
| 50°   | 2531.6 | 2525.4 | 2496.7 | 2494.6 | 2494.6 | 2488.5 | 2482.3 | 2480.3 | 2476.2 | 2478.2 | 2478.2 |
| 52.5° | 2634.1 | 2625.9 | 2605.4 | 2609.5 | 2628.0 | 2632.1 | 2623.9 | 2607.5 | 2591.0 | 2584.9 | 2586.9 |
| 55°   | 2744.9 | 2732.6 | 2716.2 | 2728.5 | 2765.4 | 2781.8 | 2769.5 | 2736.7 | 2708.0 | 2689.5 | 2689.5 |
| 57.5° | 2833.1 | 2818.8 | 2818.8 | 2853.6 | 2921.3 | 2954.2 | 2927.5 | 2865.9 | 2816.7 | 2796.2 | 2798.2 |
| 60°   | 2771.6 | 2759.3 | 2808.5 | 2962.4 | 3089.6 | 3145.0 | 3099.8 | 2991.1 | 2911.1 | 2886.5 | 2890.6 |
| 62.5° | 2650.5 | 2642.3 | 2703.9 | 2941.9 | 3241.4 | 3356.3 | 3288.6 | 3132.6 | 3013.7 | 2984.9 | 2984.9 |
| 65°   | 2472.1 | 2470.0 | 2556.2 | 2849.5 | 3276.2 | 3559.4 | 3501.9 | 3286.5 | 3132.6 | 3093.7 | 3101.9 |
| 67.5° | 2287.4 | 2287.4 | 2365.4 | 2691.6 | 3235.2 | 3645.5 | 3690.7 | 3426.0 | 3190.1 | 3093.7 | 3095.7 |
| 70°   | 1961.2 | 1996.1 | 2203.3 | 2545.9 | 3085.5 | 3584.0 | 3768.6 | 3327.5 | 2939.8 | 2769.5 | 2763.4 |
| 72.5° | 1292.4 | 1337.6 | 1749.9 | 2291.5 | 2937.8 | 3360.4 | 3401.4 | 2923.4 | 2441.3 | 2242.3 | 2232.0 |
| 75°   | 779.6  | 818.5  | 1134.5 | 1788.9 | 2582.8 | 2705.9 | 2525.4 | 2291.5 | 1823.8 | 1667.9 | 1667.9 |
| 77.5° | 229.8  | 256.4  | 523.1  | 1134.5 | 1786.9 | 1778.7 | 1557.1 | 1349.9 | 1079.1 | 917.0  | 929.3  |
| 80°   | 135.4  | 139.5  | 170.3  | 517.0  | 740.6  | 779.6  | 601.1  | 375.4  | 375.4  | 279.0  | 270.8  |
| 82.5° | 104.6  | 104.6  | 108.7  | 129.2  | 178.5  | 199.0  | 151.8  | 129.2  | 147.7  | 125.1  | 119.0  |
| 85°   | 73.9   | 73.9   | 73.9   | 75.9   | 78.0   | 80.0   | 84.1   | 86.2   | 94.4   | 78.0   | 73.9   |
| 87.5° | 22.6   | 24.6   | 26.7   | 30.8   | 36.9   | 39.0   | 41.0   | 36.9   | 36.9   | 34.9   | 32.8   |
| 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)