

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: P835963

Luminaire Tested: **ARCH3-120-730-U-5WQ**

Issue Date: 5/16/2024

### Test Information

Test Method: LM-79-08  
Report Number: P835963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-120-730-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

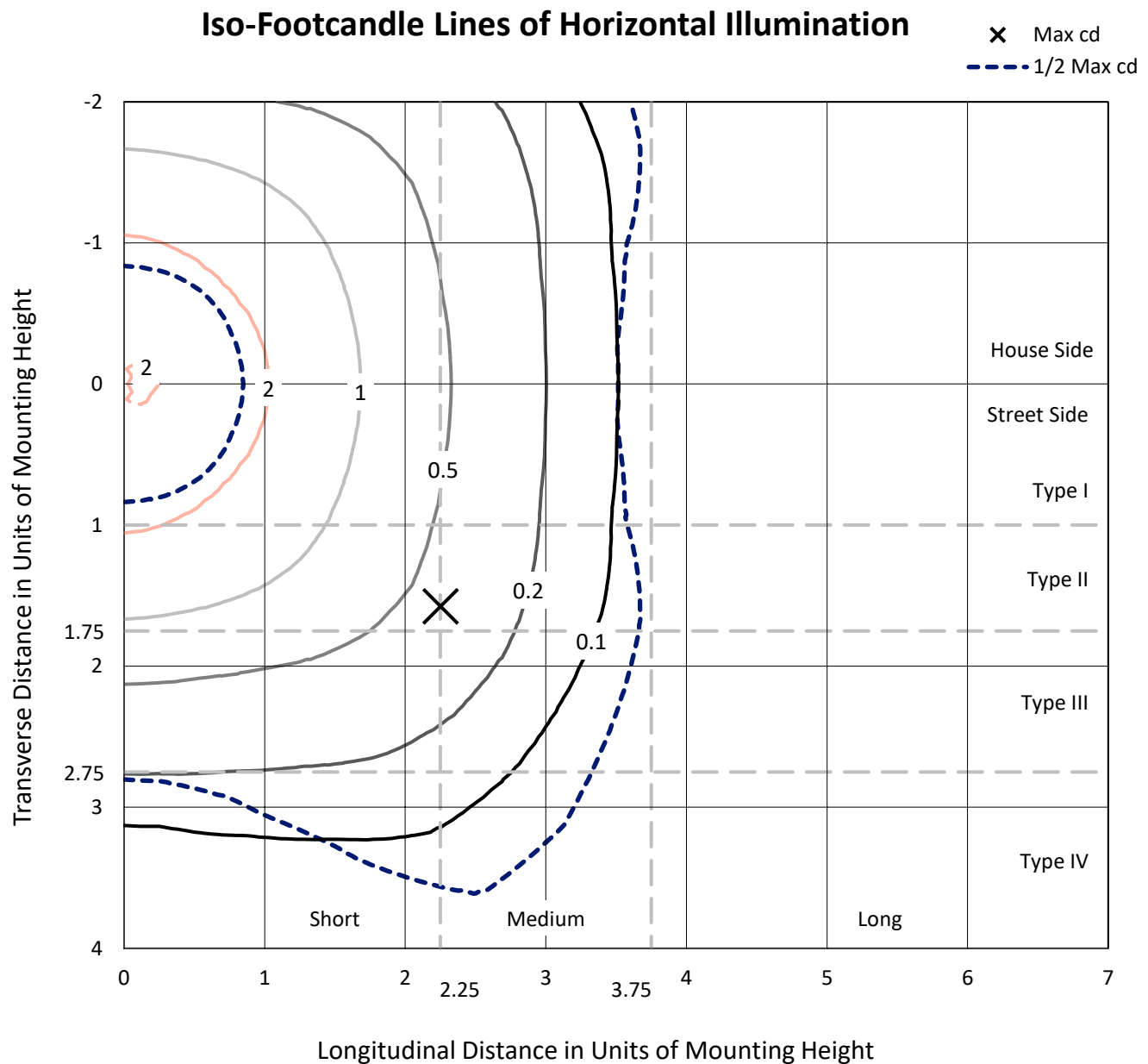
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 18047 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B4 - U0 - G2

Input Watts (W): 122.7  
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



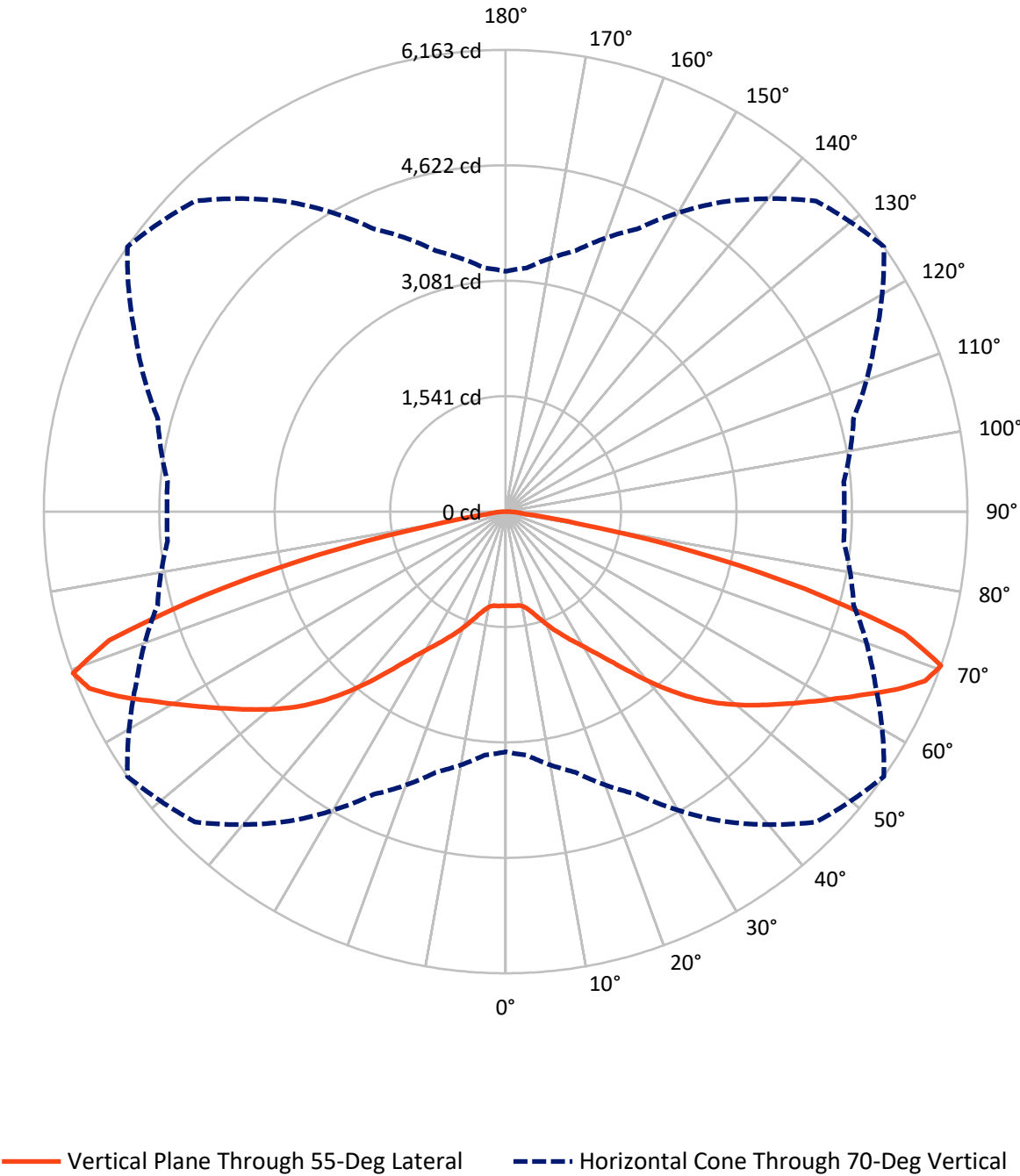
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Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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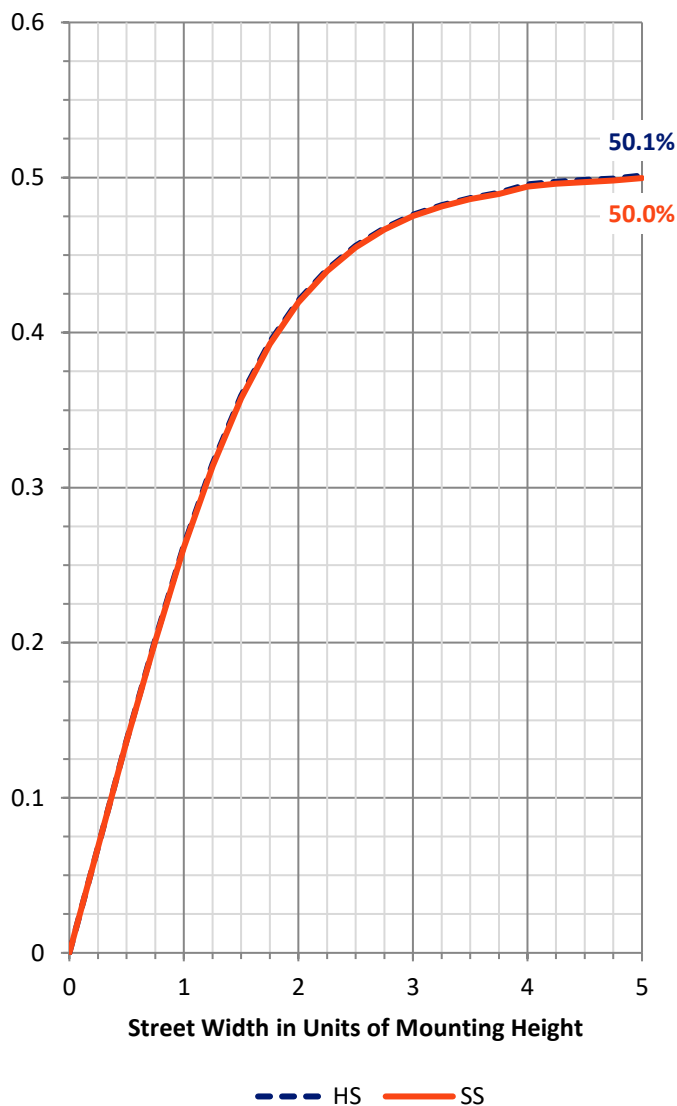
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9023.5   | 0.0    | 9023.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9023.5   | 0.0    | 9023.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 18047.0  | 0.0    | 18047.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 121.5   | 0.7       |
| 10°-20°   | 413.3   | 2.3       |
| 20°-30°   | 858.9   | 4.8       |
| 30°-40°   | 1586.3  | 8.8       |
| 40°-50°   | 2786.8  | 15.4      |
| 50°-60°   | 4019.2  | 22.3      |
| 60°-70°   | 4919.1  | 27.3      |
| 70°-80°   | 3130.1  | 17.3      |
| 80°-90°   | 211.8   | 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°    | 18047.0 | 100.0     |
| 0°-180°   | 18047.0 | 100.0     |

**Coefficient of Utilization**



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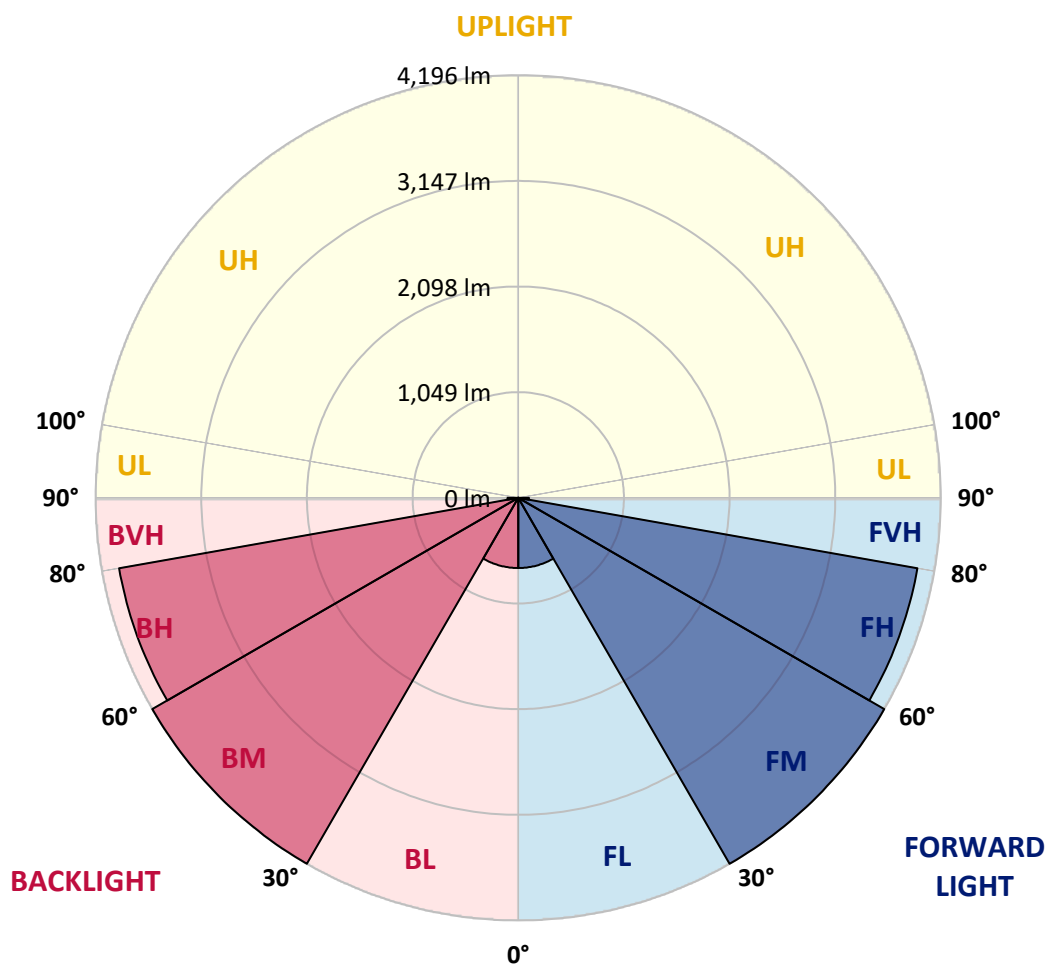
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 696.8  | 3.9       |                         |      |         |
| FM   | (30°-60°)   | 4196.2 | 23.3      |                         |      |         |
| FH   | (60°-80°)   | 4024.6 | 22.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 105.9  | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 696.8  | 3.9       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 4196.2 | 23.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 4024.6 | 22.3      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 105.9  | 0.6       |                         |      | 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°    | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 |
| 2.5°  | 1274.8 | 1274.8 | 1271.5 | 1271.5 | 1264.8 | 1261.4 | 1258.0 | 1258.0 | 1254.7 | 1254.7 | 1251.3 |
| 5°    | 1281.5 | 1281.5 | 1281.5 | 1278.2 | 1274.8 | 1271.5 | 1264.8 | 1258.0 | 1254.7 | 1251.3 | 1248.0 |
| 7.5°  | 1284.9 | 1284.9 | 1281.5 | 1281.5 | 1278.2 | 1274.8 | 1264.8 | 1254.7 | 1251.3 | 1248.0 | 1248.0 |
| 10°   | 1311.7 | 1308.4 | 1305.0 | 1298.3 | 1298.3 | 1298.3 | 1284.9 | 1274.8 | 1271.5 | 1271.5 | 1271.5 |
| 12.5° | 1375.5 | 1372.1 | 1365.4 | 1355.3 | 1355.3 | 1358.7 | 1338.6 | 1325.1 | 1325.1 | 1321.8 | 1321.8 |
| 15°   | 1469.4 | 1466.0 | 1459.3 | 1442.6 | 1439.2 | 1445.9 | 1415.7 | 1402.3 | 1402.3 | 1402.3 | 1398.9 |
| 17.5° | 1573.4 | 1566.7 | 1556.6 | 1543.2 | 1543.2 | 1543.2 | 1513.0 | 1496.2 | 1486.2 | 1486.2 | 1482.8 |
| 20°   | 1660.6 | 1657.3 | 1657.3 | 1653.9 | 1664.0 | 1664.0 | 1623.7 | 1596.9 | 1573.4 | 1560.0 | 1556.6 |
| 22.5° | 1737.8 | 1734.4 | 1741.1 | 1754.6 | 1774.7 | 1781.4 | 1734.4 | 1694.2 | 1657.3 | 1630.4 | 1623.7 |
| 25°   | 1841.8 | 1838.4 | 1835.1 | 1855.2 | 1888.7 | 1898.8 | 1848.5 | 1798.2 | 1761.3 | 1747.8 | 1741.1 |
| 27.5° | 1952.5 | 1955.8 | 1959.2 | 1979.3 | 2006.2 | 2022.9 | 1972.6 | 1925.6 | 1895.5 | 1875.3 | 1868.6 |
| 30°   | 2076.6 | 2083.3 | 2093.4 | 2123.6 | 2143.7 | 2150.4 | 2106.8 | 2073.3 | 2046.4 | 2029.6 | 2019.6 |
| 32.5° | 2234.3 | 2247.7 | 2261.1 | 2288.0 | 2298.0 | 2291.3 | 2271.2 | 2247.7 | 2227.6 | 2204.1 | 2200.7 |
| 35°   | 2469.1 | 2482.5 | 2479.2 | 2489.3 | 2492.6 | 2485.9 | 2475.8 | 2462.4 | 2452.4 | 2422.2 | 2418.8 |
| 37.5° | 2764.3 | 2777.8 | 2757.6 | 2747.6 | 2724.1 | 2727.4 | 2724.1 | 2734.2 | 2737.5 | 2707.3 | 2704.0 |
| 40°   | 3062.9 | 3076.3 | 3049.5 | 3022.7 | 2999.2 | 2989.1 | 3005.9 | 3039.4 | 3039.4 | 3019.3 | 3019.3 |
| 42.5° | 3381.6 | 3391.7 | 3348.1 | 3314.5 | 3284.3 | 3277.6 | 3287.7 | 3328.0 | 3338.0 | 3334.7 | 3334.7 |
| 45°   | 3700.3 | 3693.6 | 3636.6 | 3603.0 | 3576.2 | 3559.4 | 3562.8 | 3593.0 | 3613.1 | 3623.2 | 3623.2 |
| 47.5° | 3945.2 | 3935.2 | 3888.2 | 3861.4 | 3844.6 | 3821.1 | 3821.1 | 3837.9 | 3847.9 | 3851.3 | 3851.3 |
| 50°   | 4139.8 | 4129.7 | 4082.8 | 4079.4 | 4079.4 | 4069.4 | 4059.3 | 4055.9 | 4049.2 | 4052.6 | 4052.6 |
| 52.5° | 4307.6 | 4294.1 | 4260.6 | 4267.3 | 4297.5 | 4304.2 | 4290.8 | 4263.9 | 4237.1 | 4227.0 | 4230.4 |
| 55°   | 4488.7 | 4468.6 | 4441.7 | 4461.9 | 4522.3 | 4549.1 | 4529.0 | 4475.3 | 4428.3 | 4398.1 | 4398.1 |
| 57.5° | 4633.0 | 4609.5 | 4609.5 | 4666.5 | 4777.2 | 4830.9 | 4787.3 | 4686.6 | 4606.1 | 4572.6 | 4575.9 |
| 60°   | 4532.3 | 4512.2 | 4592.7 | 4844.3 | 5052.3 | 5142.9 | 5069.1 | 4891.3 | 4760.4 | 4720.2 | 4726.9 |
| 62.5° | 4334.4 | 4321.0 | 4421.6 | 4810.8 | 5300.6 | 5488.4 | 5377.7 | 5122.8 | 4928.2 | 4881.2 | 4881.2 |
| 65°   | 4042.5 | 4039.2 | 4180.1 | 4659.8 | 5357.6 | 5820.6 | 5726.6 | 5374.4 | 5122.8 | 5059.0 | 5072.4 |
| 67.5° | 3740.6 | 3740.6 | 3868.1 | 4401.5 | 5290.5 | 5961.5 | 6035.3 | 5602.5 | 5216.7 | 5059.0 | 5062.4 |
| 70°   | 3207.2 | 3264.2 | 3603.0 | 4163.3 | 5045.6 | 5860.8 | 6162.7 | 5441.5 | 4807.4 | 4529.0 | 4518.9 |
| 72.5° | 2113.5 | 2187.3 | 2861.6 | 3747.3 | 4804.1 | 5495.1 | 5562.2 | 4780.6 | 3992.2 | 3666.8 | 3650.0 |
| 75°   | 1274.8 | 1338.6 | 1855.2 | 2925.4 | 4223.7 | 4425.0 | 4129.7 | 3747.3 | 2982.4 | 2727.4 | 2727.4 |
| 77.5° | 375.7  | 419.3  | 855.5  | 1855.2 | 2922.0 | 2908.6 | 2546.3 | 2207.5 | 1764.6 | 1499.6 | 1519.7 |
| 80°   | 221.4  | 228.1  | 278.4  | 845.4  | 1211.1 | 1274.8 | 983.0  | 613.9  | 613.9  | 456.3  | 442.8  |
| 82.5° | 171.1  | 171.1  | 177.8  | 211.4  | 291.9  | 325.4  | 248.3  | 211.4  | 241.5  | 204.6  | 194.6  |
| 85°   | 120.8  | 120.8  | 120.8  | 124.1  | 127.5  | 130.8  | 137.5  | 140.9  | 154.3  | 127.5  | 120.8  |
| 87.5° | 36.9   | 40.3   | 43.6   | 50.3   | 60.4   | 63.7   | 67.1   | 60.4   | 60.4   | 57.0   | 53.7   |
| 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)