

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: P799295

Luminaire Tested: **ARCH2-100-750-U-5WQ**

Issue Date: 4/4/2024

### Test Information

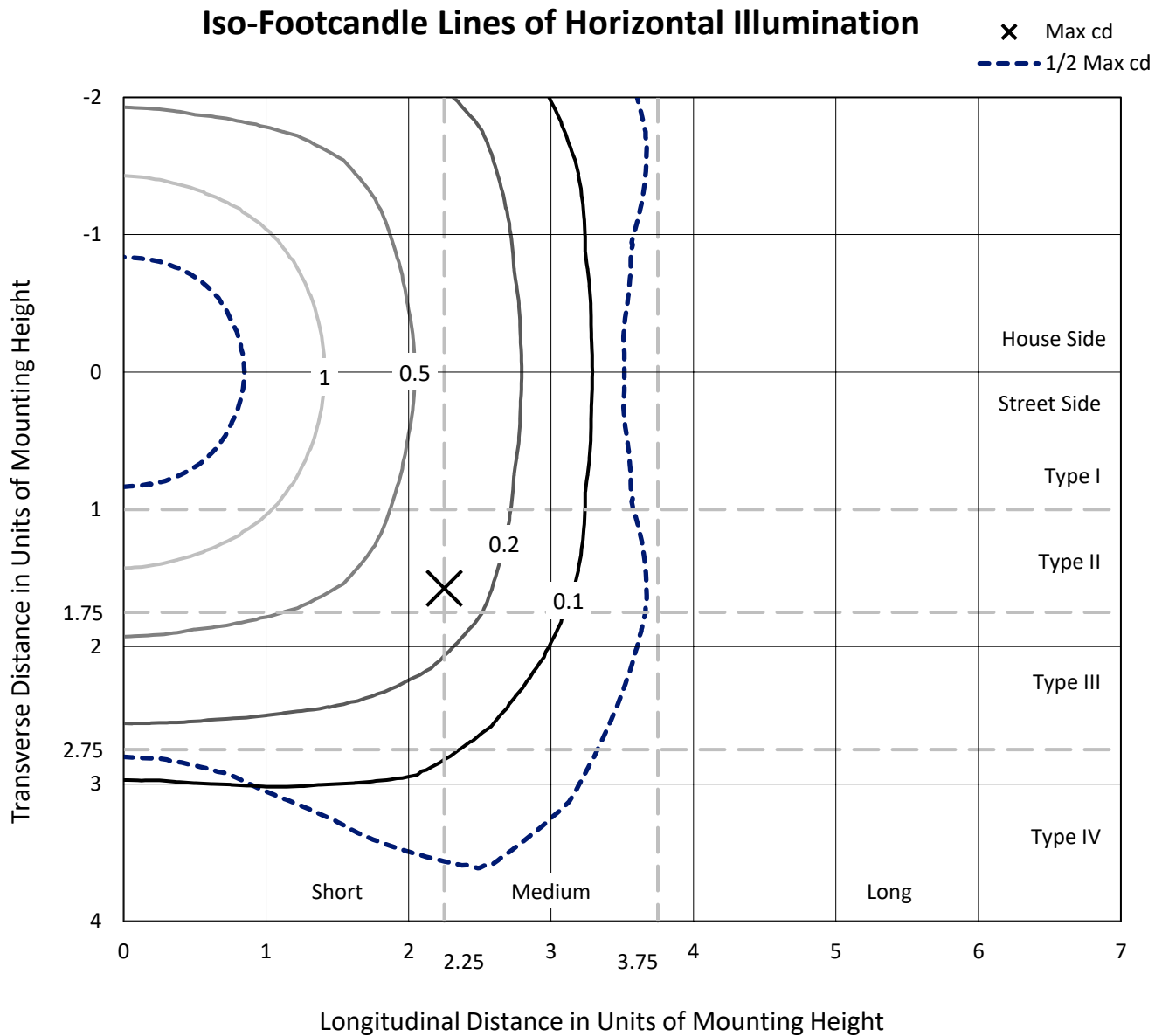
Test Method: LM-79-08  
Report Number: P799295  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-100-750-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 13320 lumens  
Efficiency: N/A  
Efficacy: 128.9 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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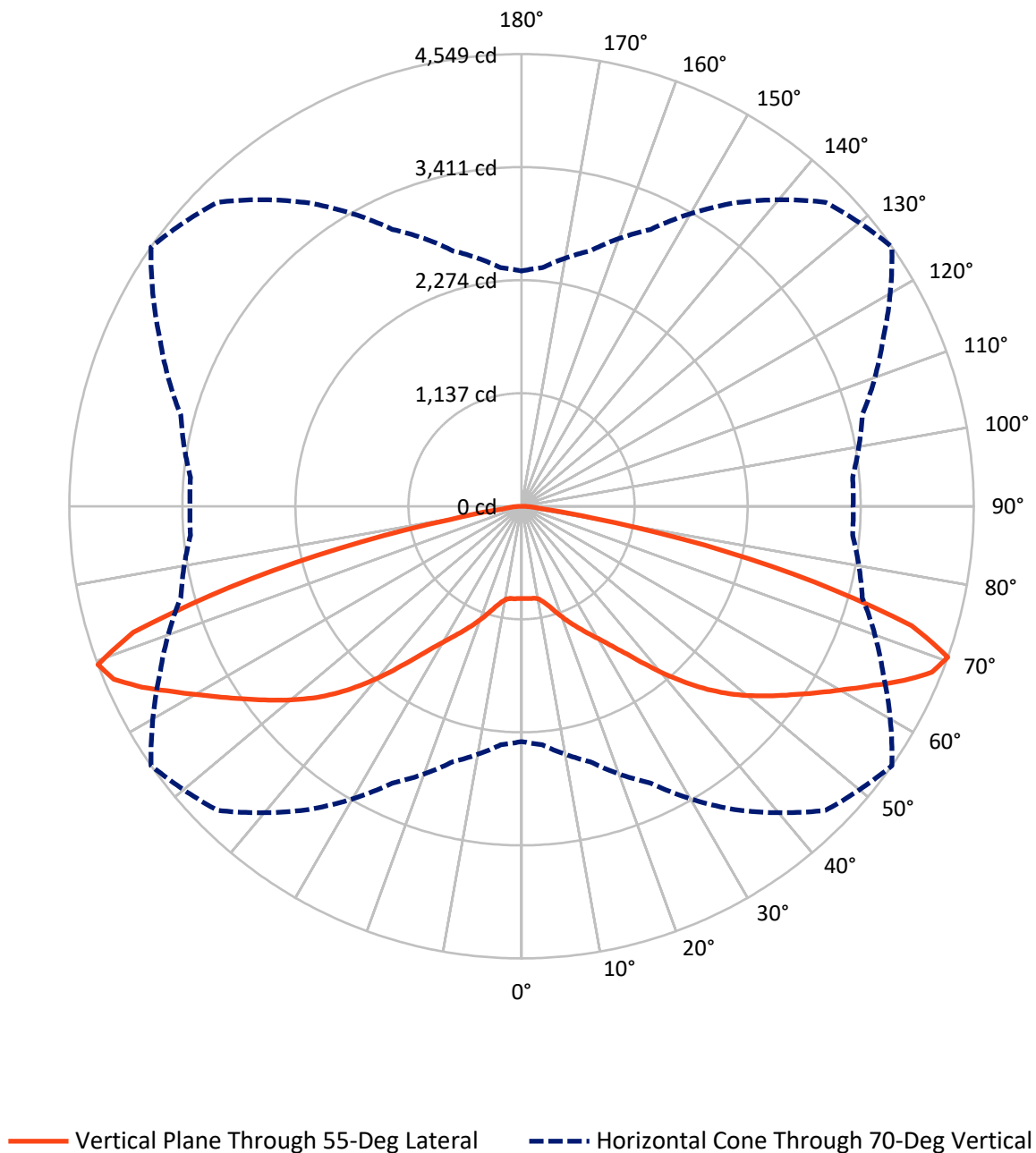


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
Type V - Medium - N/A

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## Luminous Intensity Polar Plot



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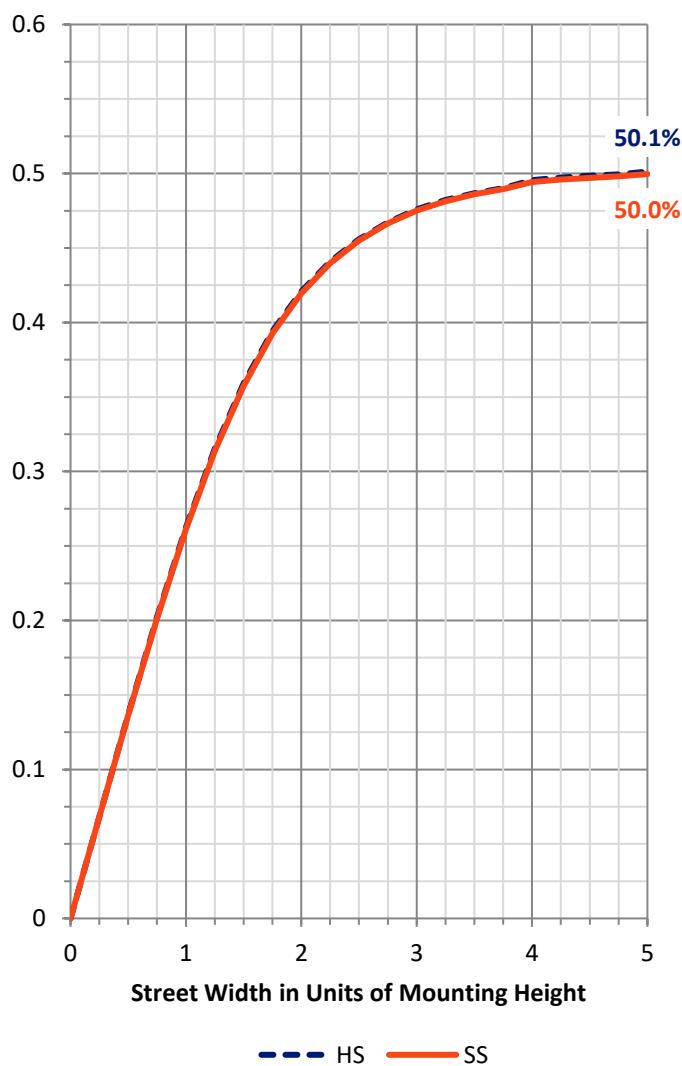
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6660.0   | 0.0    | 6660.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6660.0   | 0.0    | 6660.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 13320.0  | 0.0    | 13320.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 89.6    | 0.7       |
| 10°-20°   | 305.1   | 2.3       |
| 20°-30°   | 633.9   | 4.8       |
| 30°-40°   | 1170.8  | 8.8       |
| 40°-50°   | 2056.9  | 15.4      |
| 50°-60°   | 2966.5  | 22.3      |
| 60°-70°   | 3630.6  | 27.3      |
| 70°-80°   | 2310.3  | 17.3      |
| 80°-90°   | 156.3   | 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°    | 13320.0 | 100.0     |
| 0°-180°   | 13320.0 | 100.0     |

**Coefficient of Utilization**



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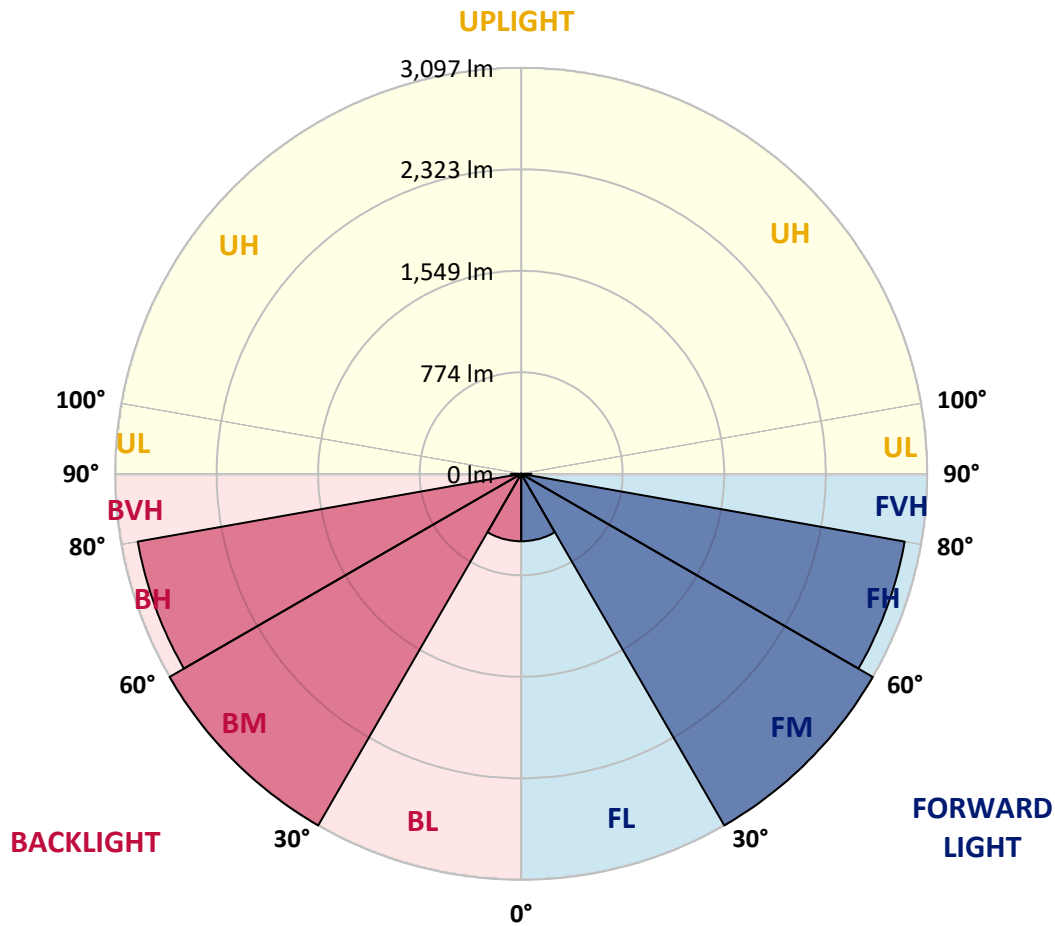
CATALOG NUMBER: ARCH2-100-750-U-5WQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 514.3  | 3.9       |                         |      |         |
| FM   | (30°-60°)   | 3097.1 | 23.3      |                         |      |         |
| FH   | (60°-80°)   | 2970.5 | 22.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 78.2   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 514.3  | 3.9       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3097.1 | 23.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2970.5 | 22.3      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 78.2   | 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°    | 928.5  | 928.5  | 928.5  | 928.5  | 928.5  | 928.5  | 928.5  | 928.5  | 928.5  | 928.5  | 928.5  |
| 2.5°  | 940.9  | 940.9  | 938.4  | 938.4  | 933.5  | 931.0  | 928.5  | 928.5  | 926.1  | 926.1  | 923.6  |
| 5°    | 945.9  | 945.9  | 945.9  | 943.4  | 940.9  | 938.4  | 933.5  | 928.5  | 926.1  | 923.6  | 921.1  |
| 7.5°  | 948.3  | 948.3  | 945.9  | 945.9  | 943.4  | 940.9  | 933.5  | 926.1  | 923.6  | 921.1  | 921.1  |
| 10°   | 968.1  | 965.7  | 963.2  | 958.2  | 958.2  | 958.2  | 948.3  | 940.9  | 938.4  | 938.4  | 938.4  |
| 12.5° | 1015.2 | 1012.7 | 1007.8 | 1000.3 | 1000.3 | 1002.8 | 988.0  | 978.1  | 978.1  | 975.6  | 975.6  |
| 15°   | 1084.5 | 1082.0 | 1077.1 | 1064.7 | 1062.2 | 1067.2 | 1044.9 | 1035.0 | 1035.0 | 1035.0 | 1032.5 |
| 17.5° | 1161.3 | 1156.3 | 1148.9 | 1139.0 | 1139.0 | 1139.0 | 1116.7 | 1104.3 | 1096.9 | 1096.9 | 1094.4 |
| 20°   | 1225.7 | 1223.2 | 1223.2 | 1220.7 | 1228.1 | 1228.1 | 1198.4 | 1178.6 | 1161.3 | 1151.4 | 1148.9 |
| 22.5° | 1282.6 | 1280.1 | 1285.1 | 1295.0 | 1309.8 | 1314.8 | 1280.1 | 1250.4 | 1223.2 | 1203.4 | 1198.4 |
| 25°   | 1359.4 | 1356.9 | 1354.4 | 1369.3 | 1394.0 | 1401.5 | 1364.3 | 1327.2 | 1299.9 | 1290.0 | 1285.1 |
| 27.5° | 1441.1 | 1443.6 | 1446.0 | 1460.9 | 1480.7 | 1493.1 | 1455.9 | 1421.3 | 1399.0 | 1384.1 | 1379.2 |
| 30°   | 1532.7 | 1537.6 | 1545.1 | 1567.4 | 1582.2 | 1587.2 | 1555.0 | 1530.2 | 1510.4 | 1498.0 | 1490.6 |
| 32.5° | 1649.1 | 1659.0 | 1668.9 | 1688.7 | 1696.1 | 1691.2 | 1676.3 | 1659.0 | 1644.1 | 1626.8 | 1624.3 |
| 35°   | 1822.4 | 1832.3 | 1829.8 | 1837.3 | 1839.7 | 1834.8 | 1827.3 | 1817.4 | 1810.0 | 1787.7 | 1785.3 |
| 37.5° | 2040.3 | 2050.2 | 2035.3 | 2027.9 | 2010.6 | 2013.1 | 2010.6 | 2018.0 | 2020.5 | 1998.2 | 1995.7 |
| 40°   | 2260.7 | 2270.6 | 2250.8 | 2230.9 | 2213.6 | 2206.2 | 2218.6 | 2243.3 | 2243.3 | 2228.5 | 2228.5 |
| 42.5° | 2495.9 | 2503.3 | 2471.1 | 2446.4 | 2424.1 | 2419.1 | 2426.6 | 2456.3 | 2463.7 | 2461.2 | 2461.2 |
| 45°   | 2731.1 | 2726.2 | 2684.1 | 2659.3 | 2639.5 | 2627.1 | 2629.6 | 2651.9 | 2666.7 | 2674.2 | 2674.2 |
| 47.5° | 2911.9 | 2904.4 | 2869.8 | 2850.0 | 2837.6 | 2820.3 | 2820.3 | 2832.6 | 2840.1 | 2842.5 | 2842.5 |
| 50°   | 3055.5 | 3048.1 | 3013.4 | 3010.9 | 3010.9 | 3003.5 | 2996.1 | 2993.6 | 2988.6 | 2991.1 | 2991.1 |
| 52.5° | 3179.3 | 3169.4 | 3144.6 | 3149.6 | 3171.9 | 3176.8 | 3166.9 | 3147.1 | 3127.3 | 3119.9 | 3122.3 |
| 55°   | 3313.0 | 3298.1 | 3278.3 | 3293.2 | 3337.8 | 3357.6 | 3342.7 | 3303.1 | 3268.4 | 3246.1 | 3246.1 |
| 57.5° | 3419.5 | 3402.1 | 3402.1 | 3444.2 | 3525.9 | 3565.6 | 3533.4 | 3459.1 | 3399.7 | 3374.9 | 3377.4 |
| 60°   | 3345.2 | 3330.3 | 3389.8 | 3575.5 | 3729.0 | 3795.8 | 3741.4 | 3610.1 | 3513.6 | 3483.8 | 3488.8 |
| 62.5° | 3199.1 | 3189.2 | 3263.5 | 3550.7 | 3912.2 | 4050.9 | 3969.2 | 3781.0 | 3637.4 | 3602.7 | 3602.7 |
| 65°   | 2983.7 | 2981.2 | 3085.2 | 3439.3 | 3954.3 | 4296.0 | 4226.7 | 3966.7 | 3781.0 | 3733.9 | 3743.8 |
| 67.5° | 2760.8 | 2760.8 | 2854.9 | 3248.6 | 3904.8 | 4400.0 | 4454.5 | 4135.1 | 3850.3 | 3733.9 | 3736.4 |
| 70°   | 2367.1 | 2409.2 | 2659.3 | 3072.8 | 3724.0 | 4325.7 | 4548.6 | 4016.2 | 3548.2 | 3342.7 | 3335.3 |
| 72.5° | 1559.9 | 1614.4 | 2112.1 | 2765.8 | 3545.7 | 4055.8 | 4105.3 | 3528.4 | 2946.5 | 2706.4 | 2694.0 |
| 75°   | 940.9  | 988.0  | 1369.3 | 2159.1 | 3117.4 | 3265.9 | 3048.1 | 2765.8 | 2201.2 | 2013.1 | 2013.1 |
| 77.5° | 277.3  | 309.5  | 631.4  | 1369.3 | 2156.7 | 2146.8 | 1879.3 | 1629.3 | 1302.4 | 1106.8 | 1121.7 |
| 80°   | 163.4  | 168.4  | 205.5  | 624.0  | 893.9  | 940.9  | 725.5  | 453.1  | 453.1  | 336.7  | 326.8  |
| 82.5° | 126.3  | 126.3  | 131.2  | 156.0  | 215.4  | 240.2  | 183.2  | 156.0  | 178.3  | 151.0  | 143.6  |
| 85°   | 89.1   | 89.1   | 89.1   | 91.6   | 94.1   | 96.6   | 101.5  | 104.0  | 113.9  | 94.1   | 89.1   |
| 87.5° | 27.2   | 29.7   | 32.2   | 37.1   | 44.6   | 47.0   | 49.5   | 44.6   | 44.6   | 42.1   | 39.6   |
| 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)