

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: LUMARK

Report Number: P381062

Luminaire Tested: **PRV-PA2A-8540-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA2A-8540-U-5WQ  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 85 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12748 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G3

Input Watts (W): 112  
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

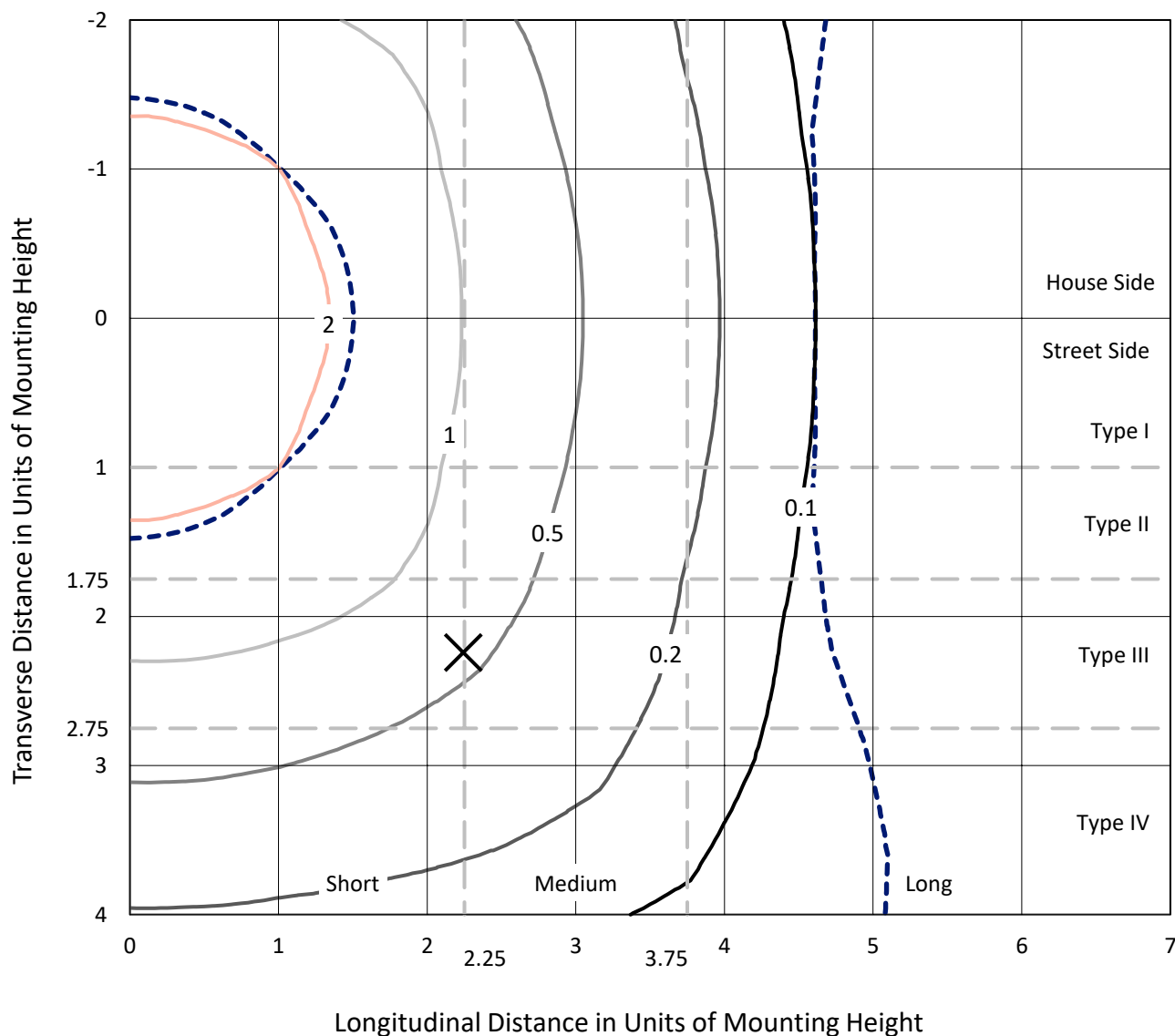


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

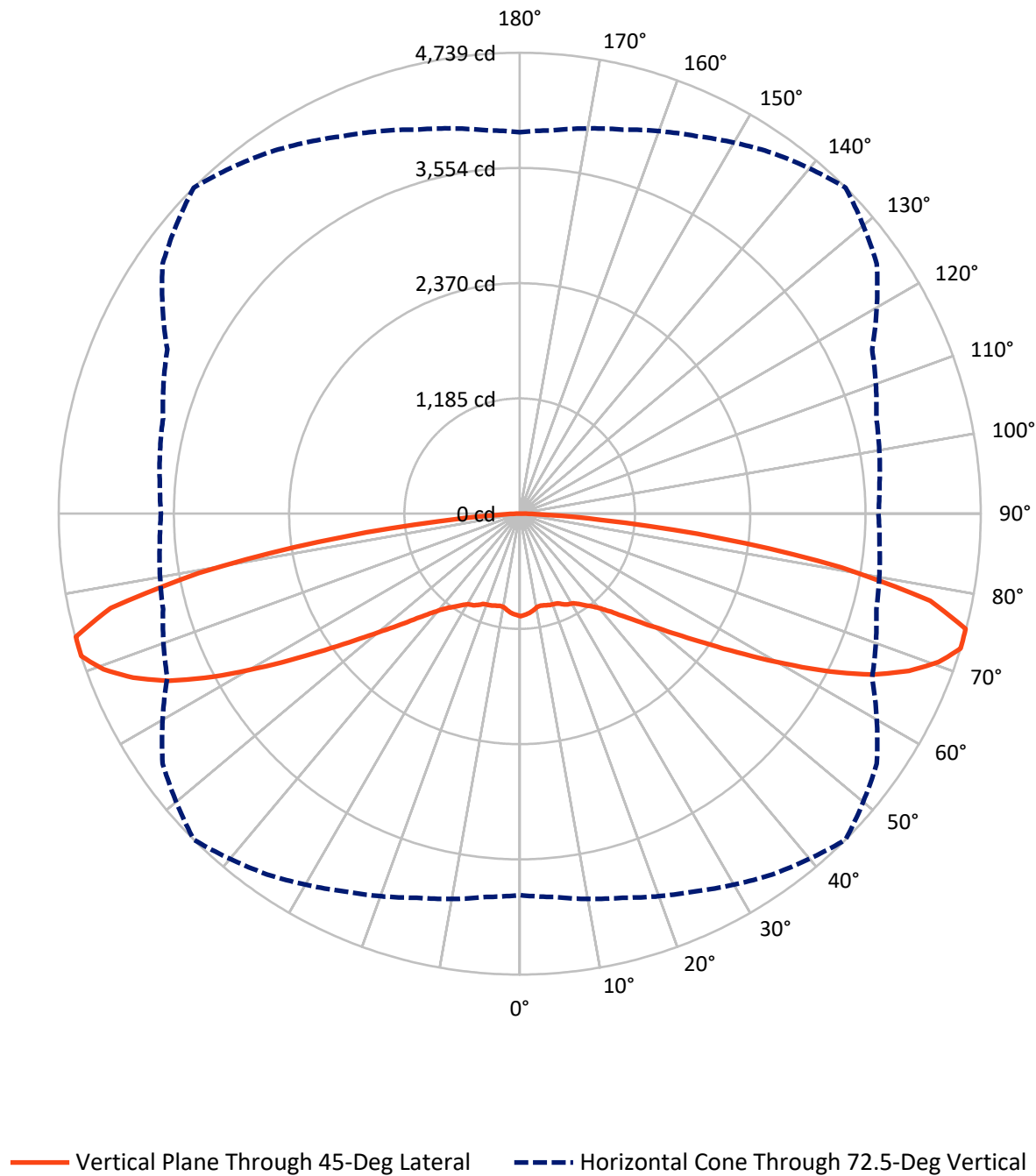


Based on 15 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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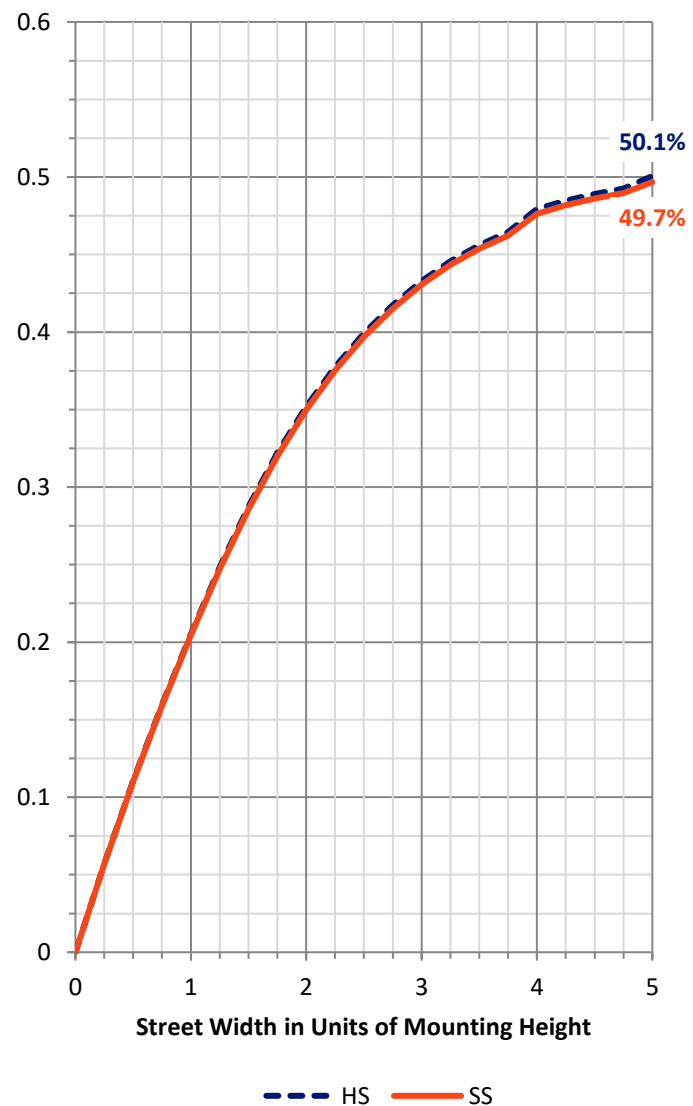
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6374.0   | 0.0    | 6374.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6374.0   | 0.0    | 6374.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12748.0  | 0.0    | 12748.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 96.7    | 0.8       |
| 10°-20°   | 280.8   | 2.2       |
| 20°-30°   | 477.1   | 3.7       |
| 30°-40°   | 727.7   | 5.7       |
| 40°-50°   | 1198.3  | 9.4       |
| 50°-60°   | 2092.5  | 16.4      |
| 60°-70°   | 3508.1  | 27.5      |
| 70°-80°   | 3754.4  | 29.5      |
| 80°-90°   | 612.3   | 4.8       |
| 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°    | 12748.0 | 100.0     |
| 0°-180°   | 12748.0 | 100.0     |

**Coefficient of Utilization**



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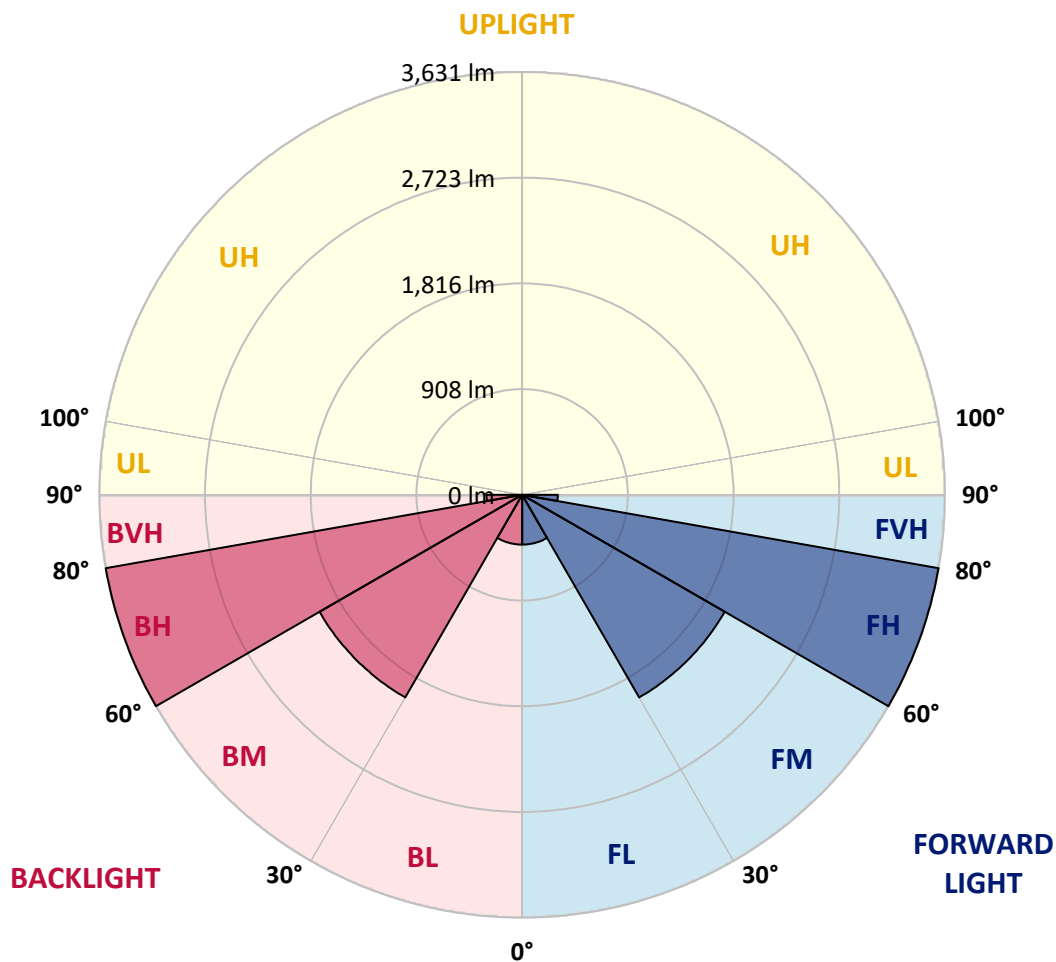
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 427.3  | 3.4       |                         |      |         |
| FM   | (30°-60°)   | 2009.2 | 15.8      |                         |      |         |
| FH   | (60°-80°)   | 3631.3 | 28.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 306.2  | 2.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 427.3  | 3.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2009.2 | 15.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 3631.3 | 28.5      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 306.2  | 2.4       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1054.9 | 1054.9 | 1054.9 | 1054.9 | 1054.9 | 1054.9 | 1054.9 | 1054.9 | 1054.9 | 1054.9 | 1054.9 |
| 2.5°  | 1048.4 | 1048.4 | 1048.4 | 1046.8 | 1043.5 | 1041.9 | 1038.6 | 1040.3 | 1040.3 | 1040.3 | 1040.3 |
| 5°    | 1035.4 | 1035.4 | 1033.7 | 1032.2 | 1028.9 | 1027.2 | 1024.0 | 1027.2 | 1027.2 | 1027.2 | 1027.2 |
| 7.5°  | 1010.9 | 1012.6 | 1012.6 | 1010.9 | 1006.1 | 1004.4 | 999.6  | 1001.2 | 1001.2 | 1002.8 | 1001.2 |
| 10°   | 997.9  | 997.9  | 996.3  | 988.1  | 980.0  | 976.8  | 975.1  | 980.0  | 984.9  | 989.8  | 989.8  |
| 12.5° | 997.9  | 997.9  | 994.6  | 981.6  | 970.3  | 970.3  | 970.3  | 976.8  | 986.5  | 996.3  | 997.9  |
| 15°   | 1002.8 | 1002.8 | 996.3  | 981.6  | 975.1  | 976.8  | 976.8  | 983.3  | 994.6  | 1007.7 | 1009.4 |
| 17.5° | 1006.1 | 1006.1 | 997.9  | 983.3  | 983.3  | 988.1  | 984.9  | 989.8  | 1001.2 | 1015.9 | 1017.5 |
| 20°   | 1010.9 | 1010.9 | 999.6  | 988.1  | 988.1  | 993.1  | 993.1  | 997.9  | 1007.7 | 1022.4 | 1024.0 |
| 22.5° | 1020.7 | 1019.1 | 1007.7 | 997.9  | 997.9  | 1001.2 | 1004.4 | 1010.9 | 1019.1 | 1032.2 | 1035.4 |
| 25°   | 1032.2 | 1032.2 | 1022.4 | 1020.7 | 1024.0 | 1032.2 | 1030.5 | 1028.9 | 1032.2 | 1043.5 | 1048.4 |
| 27.5° | 1038.6 | 1038.6 | 1032.2 | 1037.0 | 1050.0 | 1056.5 | 1048.4 | 1041.9 | 1041.9 | 1053.3 | 1054.9 |
| 30°   | 1059.8 | 1058.1 | 1051.6 | 1054.9 | 1066.3 | 1069.6 | 1064.6 | 1056.5 | 1061.4 | 1074.4 | 1076.1 |
| 32.5° | 1095.6 | 1095.6 | 1085.9 | 1085.9 | 1094.0 | 1107.0 | 1090.7 | 1085.9 | 1092.4 | 1107.0 | 1108.6 |
| 35°   | 1150.9 | 1150.9 | 1137.9 | 1131.4 | 1137.9 | 1155.9 | 1131.4 | 1129.8 | 1141.2 | 1157.5 | 1159.1 |
| 37.5° | 1220.9 | 1220.9 | 1212.8 | 1196.6 | 1198.1 | 1209.6 | 1188.4 | 1186.8 | 1207.9 | 1225.9 | 1225.9 |
| 40°   | 1308.9 | 1313.8 | 1305.7 | 1286.1 | 1279.6 | 1281.2 | 1264.9 | 1266.6 | 1290.9 | 1312.2 | 1312.2 |
| 42.5° | 1417.9 | 1421.2 | 1408.1 | 1393.5 | 1385.4 | 1380.5 | 1364.2 | 1367.5 | 1396.8 | 1424.4 | 1424.4 |
| 45°   | 1549.8 | 1551.4 | 1538.4 | 1520.5 | 1510.7 | 1507.5 | 1491.2 | 1499.4 | 1531.9 | 1561.2 | 1559.6 |
| 47.5° | 1697.9 | 1699.6 | 1686.6 | 1668.7 | 1662.2 | 1667.0 | 1650.7 | 1650.7 | 1680.1 | 1704.4 | 1701.2 |
| 50°   | 1865.7 | 1868.9 | 1854.2 | 1846.1 | 1841.2 | 1854.2 | 1834.7 | 1816.8 | 1836.3 | 1860.7 | 1857.5 |
| 52.5° | 2051.2 | 2059.4 | 2049.6 | 2052.9 | 2070.7 | 2087.0 | 2054.5 | 2015.4 | 2025.2 | 2041.4 | 2036.6 |
| 55°   | 2275.9 | 2285.7 | 2288.9 | 2300.3 | 2347.5 | 2375.2 | 2321.4 | 2256.4 | 2251.4 | 2253.1 | 2244.9 |
| 57.5° | 2528.2 | 2534.7 | 2555.9 | 2581.9 | 2679.6 | 2723.6 | 2638.9 | 2526.6 | 2490.8 | 2469.6 | 2464.7 |
| 60°   | 2782.2 | 2793.6 | 2845.7 | 2899.4 | 3049.2 | 3128.9 | 2998.7 | 2809.9 | 2733.3 | 2694.2 | 2686.2 |
| 62.5° | 3037.7 | 3060.5 | 3145.2 | 3236.4 | 3454.5 | 3573.4 | 3373.1 | 3099.6 | 2988.9 | 2940.1 | 2927.1 |
| 65°   | 3334.0 | 3361.7 | 3464.3 | 3579.9 | 3822.4 | 3990.1 | 3747.5 | 3399.2 | 3280.3 | 3215.2 | 3198.9 |
| 67.5° | 3680.8 | 3710.1 | 3793.2 | 3921.7 | 4151.3 | 4315.7 | 4100.8 | 3705.2 | 3550.6 | 3467.5 | 3454.5 |
| 70°   | 3965.7 | 3991.7 | 4081.3 | 4211.5 | 4382.5 | 4569.7 | 4364.5 | 3949.4 | 3809.4 | 3750.8 | 3742.7 |
| 72.5° | 3921.7 | 3956.0 | 4087.8 | 4283.2 | 4527.3 | 4739.0 | 4480.1 | 3996.6 | 3794.7 | 3713.4 | 3687.3 |
| 75°   | 3425.2 | 3462.7 | 3618.9 | 3972.2 | 4418.2 | 4734.1 | 4312.5 | 3682.4 | 3444.7 | 3376.4 | 3363.4 |
| 77.5° | 2267.7 | 2303.6 | 2567.3 | 3124.0 | 3858.2 | 4314.1 | 3806.2 | 3084.9 | 2702.4 | 2538.0 | 2528.2 |
| 80°   | 916.5  | 962.2  | 1214.4 | 1805.4 | 2734.9 | 3353.6 | 2822.9 | 1974.7 | 1331.6 | 1074.4 | 1022.4 |
| 82.5° | 213.3  | 253.9  | 369.6  | 665.9  | 1400.0 | 2088.7 | 1522.2 | 737.4  | 428.1  | 304.4  | 273.5  |
| 85°   | 89.6   | 91.1   | 157.9  | 216.5  | 437.9  | 843.3  | 498.1  | 268.6  | 218.1  | 159.6  | 156.3  |
| 87.5° | 34.2   | 35.8   | 76.5   | 91.1   | 140.0  | 159.6  | 169.3  | 138.4  | 128.6  | 79.8   | 76.5   |
| 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)