

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: McGRAW-EDISON

Report Number: P821412

Luminaire Tested: **TT-D2-750-12VDC-5WQ-PM**

Issue Date: 2/18/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P821412  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-14)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/18/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-D2-750-12VDC-5WQ-PM  
Description: TOPTIER LED SITE LUMINAIRE  
5000K, 70 CRI LEDS AND WIDE DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

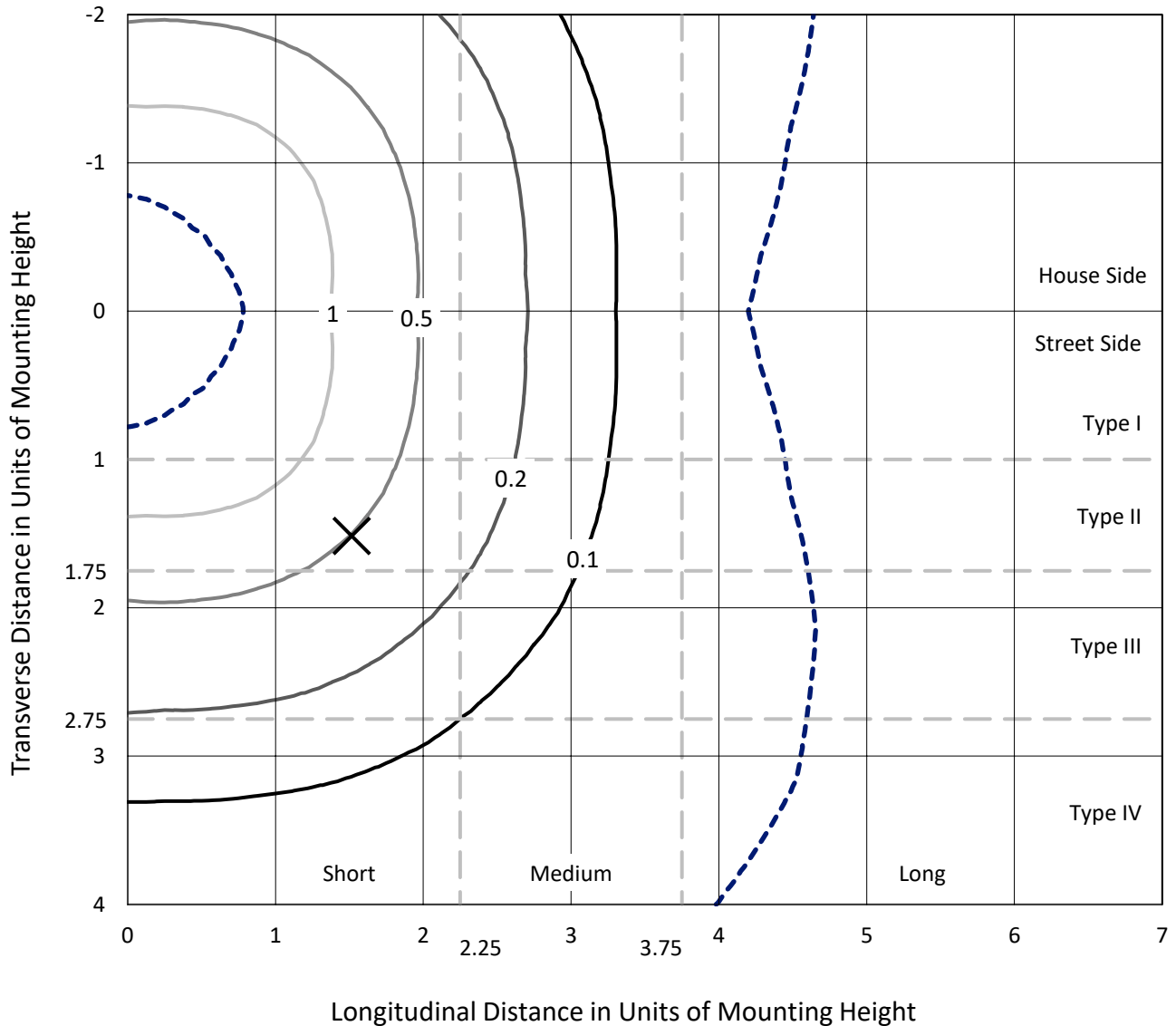
Lumens per Lamp: N/A  
Luminaire Lumens: 5273 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

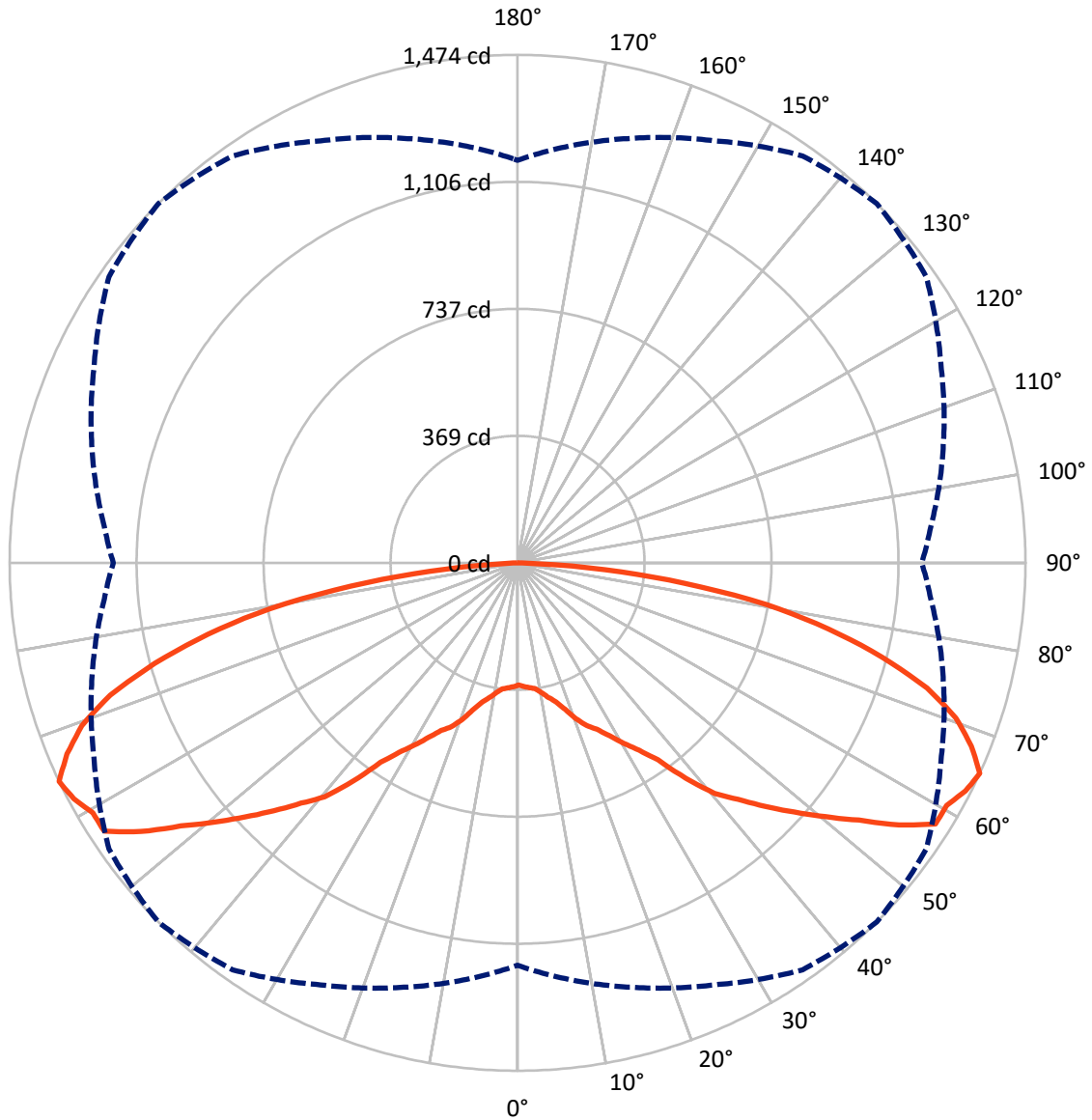
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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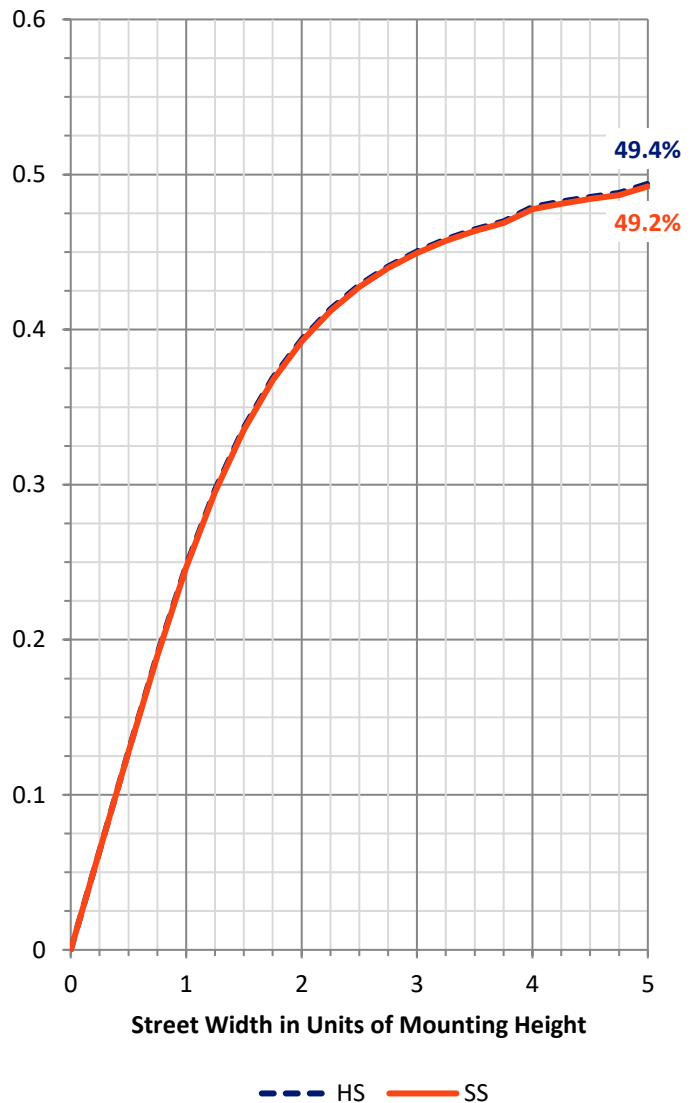
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2636.5   | 0.0    | 2636.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2636.5   | 0.0    | 2636.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5273.0   | 0.0    | 5273.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 35.4   | 0.7       |
| 10°-20°   | 121.7  | 2.3       |
| 20°-30°   | 249.9  | 4.7       |
| 30°-40°   | 444.0  | 8.4       |
| 40°-50°   | 748.5  | 14.2      |
| 50°-60°   | 1104.1 | 20.9      |
| 60°-70°   | 1295.8 | 24.6      |
| 70°-80°   | 1009.6 | 19.1      |
| 80°-90°   | 263.9  | 5.0       |
| 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°    | 5273.0 | 100.0     |
| 0°-180°   | 5273.0 | 100.0     |

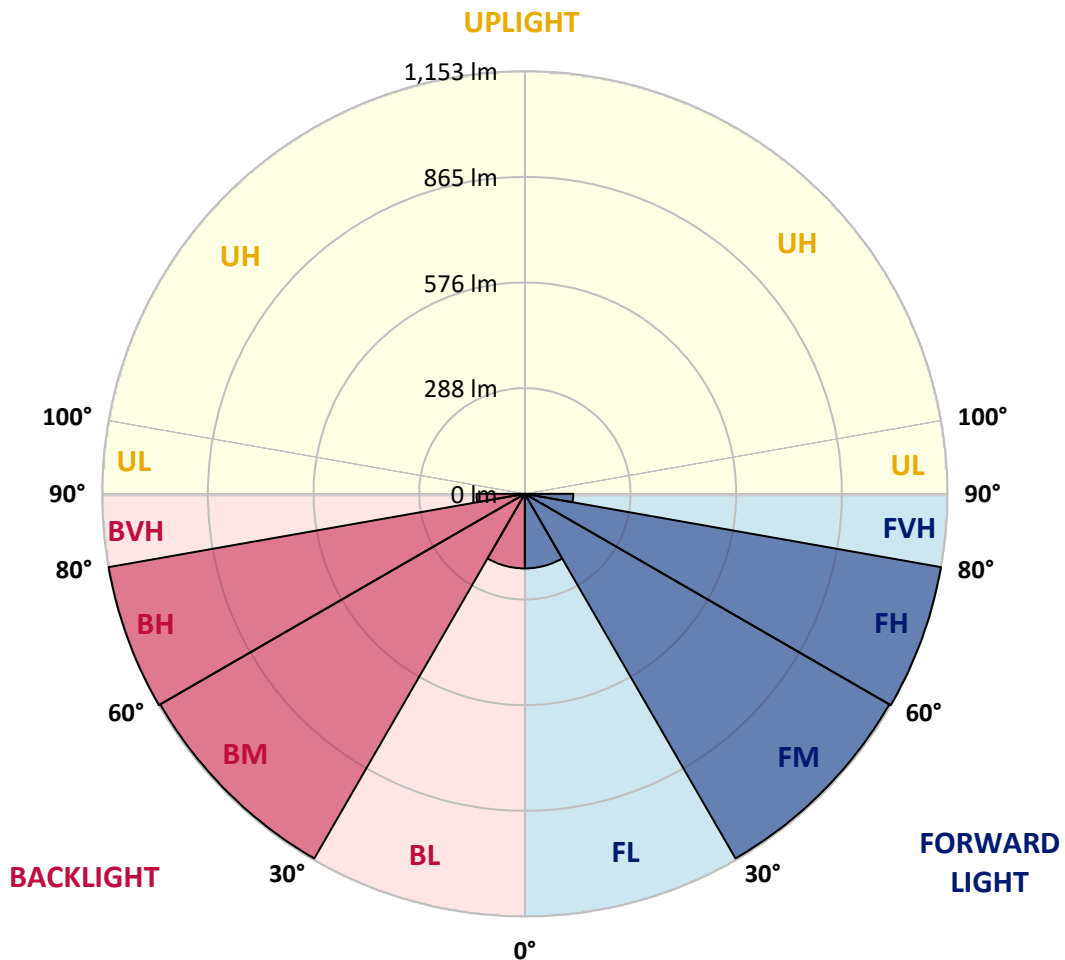


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 203.5  | 3.9       |                         |      |         |
| FM (30°-60°)   | 1148.3 | 21.8      |                         |      |         |
| FH (60°-80°)   | 1152.7 | 21.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 132.0  | 2.5       |                         |      | G2/225  |
| BL (0°-30°)    | 203.5  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 1148.3 | 21.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 1152.7 | 21.9      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 132.0  | 2.5       |                         |      | G2/225  |
| 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 354.9  | 354.9  | 354.9  | 354.9  | 354.9  | 354.9  | 354.9  | 354.9  | 354.9  | 354.9  | 354.9  |
| 2.5°  | 360.7  | 360.7  | 360.7  | 359.9  | 359.9  | 359.9  | 359.9  | 360.7  | 360.7  | 360.7  | 360.7  |
| 5°    | 369.0  | 369.0  | 367.3  | 365.7  | 364.0  | 364.0  | 364.8  | 365.7  | 366.5  | 368.2  | 368.2  |
| 7.5°  | 374.0  | 374.0  | 373.1  | 371.5  | 369.0  | 369.0  | 369.8  | 371.5  | 372.3  | 372.3  | 371.5  |
| 10°   | 380.6  | 381.4  | 383.9  | 384.7  | 383.1  | 383.1  | 383.9  | 384.7  | 383.1  | 380.6  | 380.6  |
| 12.5° | 396.3  | 397.2  | 400.5  | 403.0  | 403.0  | 401.3  | 402.2  | 403.8  | 399.7  | 395.5  | 396.3  |
| 15°   | 418.7  | 418.7  | 419.6  | 422.1  | 420.4  | 418.7  | 420.4  | 421.2  | 418.7  | 417.9  | 419.6  |
| 17.5° | 448.6  | 448.6  | 443.6  | 447.8  | 448.6  | 447.8  | 449.4  | 445.3  | 442.8  | 446.1  | 447.8  |
| 20°   | 480.9  | 477.6  | 475.1  | 478.4  | 485.1  | 482.6  | 485.9  | 476.8  | 474.3  | 475.9  | 476.8  |
| 22.5° | 501.7  | 504.1  | 505.8  | 507.5  | 516.6  | 513.3  | 516.6  | 506.6  | 505.0  | 501.7  | 499.2  |
| 25°   | 526.5  | 529.0  | 539.0  | 534.0  | 539.8  | 534.8  | 539.0  | 533.2  | 536.5  | 526.5  | 526.5  |
| 27.5° | 554.7  | 559.7  | 565.5  | 563.0  | 570.5  | 568.0  | 570.5  | 562.2  | 563.0  | 558.9  | 557.2  |
| 30°   | 592.9  | 592.9  | 591.2  | 596.2  | 609.4  | 607.8  | 608.6  | 597.8  | 590.4  | 591.2  | 594.5  |
| 32.5° | 631.0  | 626.0  | 628.5  | 643.4  | 651.7  | 648.4  | 650.1  | 645.1  | 628.5  | 625.2  | 627.7  |
| 35°   | 666.7  | 674.1  | 679.9  | 692.4  | 704.0  | 702.3  | 701.5  | 693.2  | 682.4  | 669.1  | 665.0  |
| 37.5° | 722.2  | 730.5  | 746.3  | 768.7  | 789.4  | 793.5  | 782.7  | 772.0  | 747.1  | 728.0  | 718.1  |
| 40°   | 795.2  | 796.0  | 814.3  | 857.4  | 876.4  | 879.8  | 874.0  | 855.7  | 817.6  | 796.0  | 795.2  |
| 42.5° | 859.0  | 853.2  | 883.1  | 919.6  | 937.0  | 938.6  | 934.5  | 919.6  | 883.1  | 852.4  | 858.2  |
| 45°   | 908.8  | 908.8  | 944.4  | 973.5  | 1001.7 | 1008.3 | 1000.8 | 969.3  | 945.3  | 909.6  | 907.1  |
| 47.5° | 954.4  | 966.8  | 996.7  | 1032.3 | 1072.1 | 1081.3 | 1072.1 | 1034.8 | 994.2  | 967.7  | 953.6  |
| 50°   | 1009.1 | 1024.0 | 1045.6 | 1101.2 | 1145.9 | 1158.4 | 1145.1 | 1104.5 | 1045.6 | 1023.2 | 1014.9 |
| 52.5° | 1073.0 | 1085.4 | 1119.4 | 1189.0 | 1222.2 | 1240.5 | 1229.7 | 1190.7 | 1121.1 | 1087.1 | 1080.4 |
| 55°   | 1149.2 | 1137.6 | 1190.7 | 1257.9 | 1319.2 | 1343.3 | 1321.7 | 1259.5 | 1199.0 | 1137.6 | 1149.2 |
| 57.5° | 1188.2 | 1174.9 | 1249.6 | 1313.4 | 1398.8 | 1430.3 | 1403.8 | 1318.4 | 1249.6 | 1179.1 | 1187.4 |
| 60°   | 1191.5 | 1197.3 | 1253.7 | 1358.2 | 1417.1 | 1430.3 | 1422.0 | 1365.7 | 1256.2 | 1202.3 | 1186.6 |
| 62.5° | 1181.6 | 1217.2 | 1265.3 | 1373.1 | 1426.2 | 1458.5 | 1430.3 | 1374.8 | 1270.3 | 1223.0 | 1182.4 |
| 65°   | 1168.3 | 1204.0 | 1275.3 | 1351.6 | 1441.9 | 1474.3 | 1447.7 | 1355.7 | 1278.6 | 1204.0 | 1173.3 |
| 67.5° | 1145.1 | 1132.7 | 1220.6 | 1322.5 | 1401.3 | 1420.4 | 1403.8 | 1324.2 | 1219.7 | 1131.0 | 1147.6 |
| 70°   | 1071.3 | 1060.5 | 1136.0 | 1247.9 | 1323.4 | 1349.9 | 1330.0 | 1249.6 | 1137.6 | 1063.0 | 1073.0 |
| 72.5° | 961.8  | 965.2  | 1038.1 | 1145.1 | 1226.4 | 1242.9 | 1232.2 | 1144.3 | 1042.3 | 969.3  | 956.0  |
| 75°   | 834.2  | 842.4  | 912.1  | 1009.1 | 1082.9 | 1092.9 | 1082.1 | 1013.3 | 911.3  | 847.4  | 830.0  |
| 77.5° | 685.7  | 698.2  | 754.6  | 851.6  | 900.5  | 922.9  | 905.5  | 854.1  | 758.7  | 701.5  | 684.1  |
| 80°   | 531.5  | 535.7  | 575.5  | 653.4  | 718.1  | 733.0  | 716.4  | 655.9  | 580.4  | 537.3  | 524.9  |
| 82.5° | 348.3  | 354.9  | 390.5  | 450.2  | 492.5  | 488.4  | 492.5  | 445.3  | 394.7  | 353.2  | 332.5  |
| 85°   | 155.1  | 168.3  | 192.4  | 220.6  | 247.9  | 255.4  | 247.9  | 223.9  | 192.4  | 165.0  | 161.7  |
| 87.5° | 10.8   | 12.4   | 14.9   | 15.8   | 17.4   | 13.3   | 13.3   | 13.3   | 11.6   | 13.3   | 10.8   |
| 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)