

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: P821249

Luminaire Tested: **TT-D4-740-24VDC-RW-PM**

Issue Date: 10/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P821249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-981-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-D4-740-24VDC-RW-PM  
Description: TOPTIER LED SITE LUMINAIRE  
4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

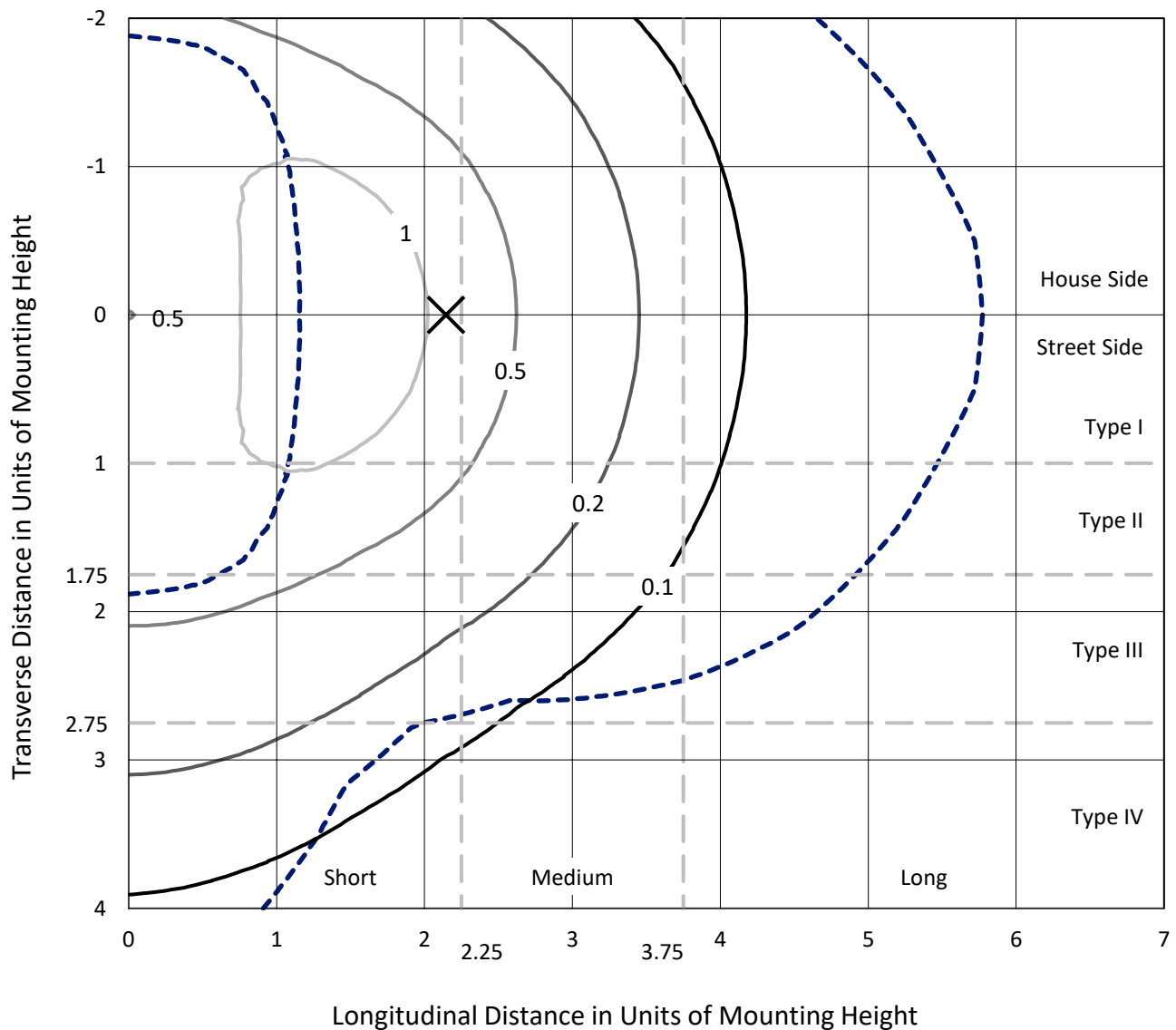
Lumens per Lamp: N/A  
Luminaire Lumens: 6050 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 57  
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: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

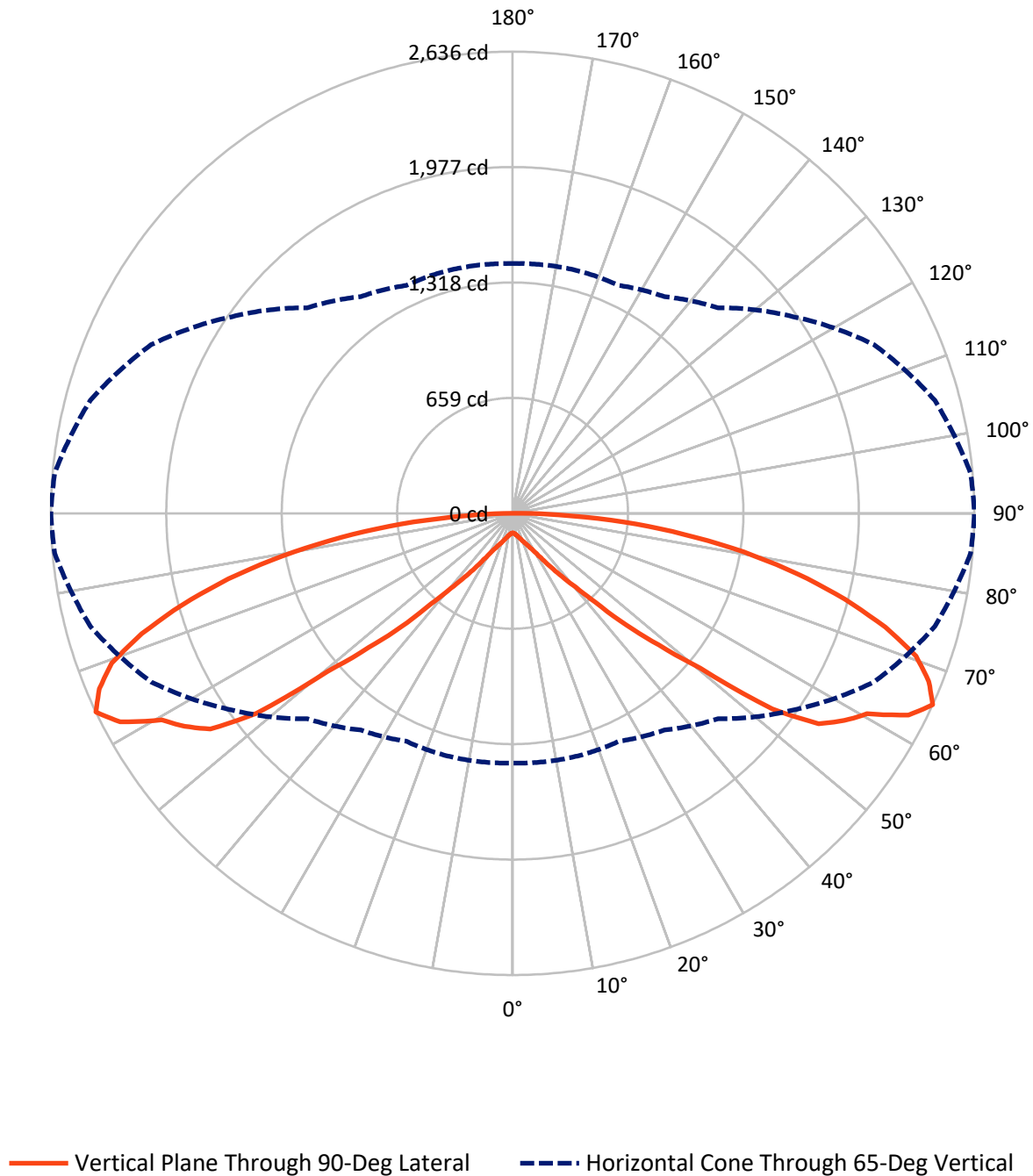
× Max cd  
 --- 1/2 Max cd



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

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## Luminous Intensity Polar Plot



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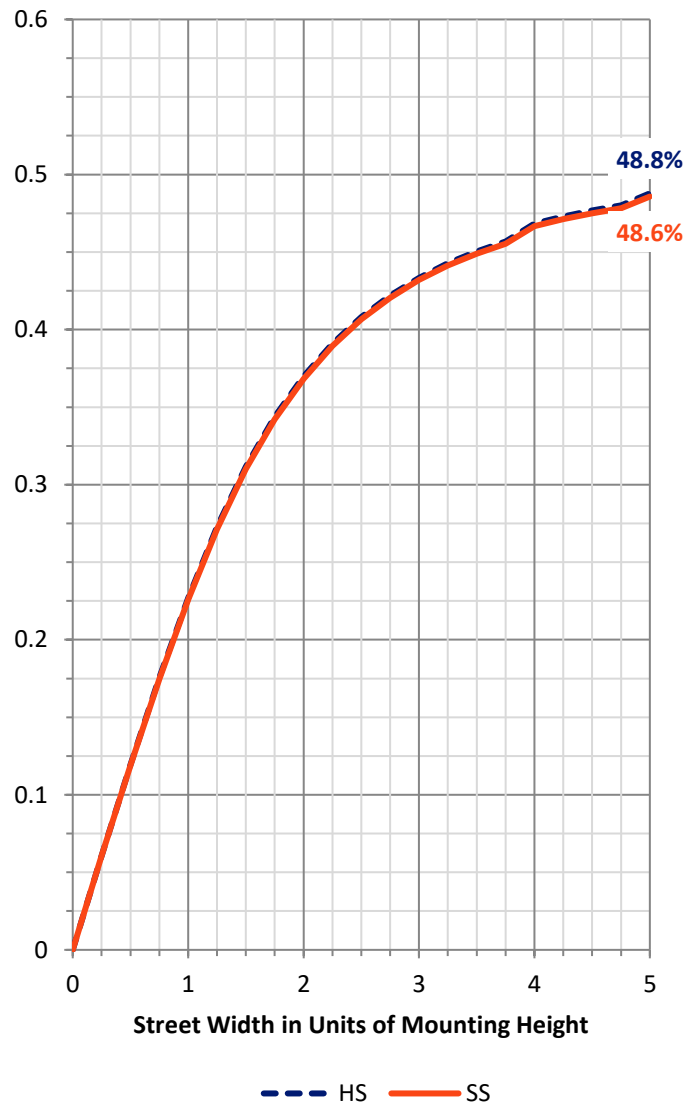
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3025.0   | 0.0    | 3025.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3025.0   | 0.0    | 3025.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6050.0   | 0.0    | 6050.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 11.5   | 0.2       |
| 10°-20°   | 43.1   | 0.7       |
| 20°-30°   | 99.7   | 1.6       |
| 30°-40°   | 225.4  | 3.7       |
| 40°-50°   | 549.1  | 9.1       |
| 50°-60°   | 1234.8 | 20.4      |
| 60°-70°   | 1804.6 | 29.8      |
| 70°-80°   | 1572.4 | 26.0      |
| 80°-90°   | 509.3  | 8.4       |
| 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°    | 6050.0 | 100.0     |
| 0°-180°   | 6050.0 | 100.0     |



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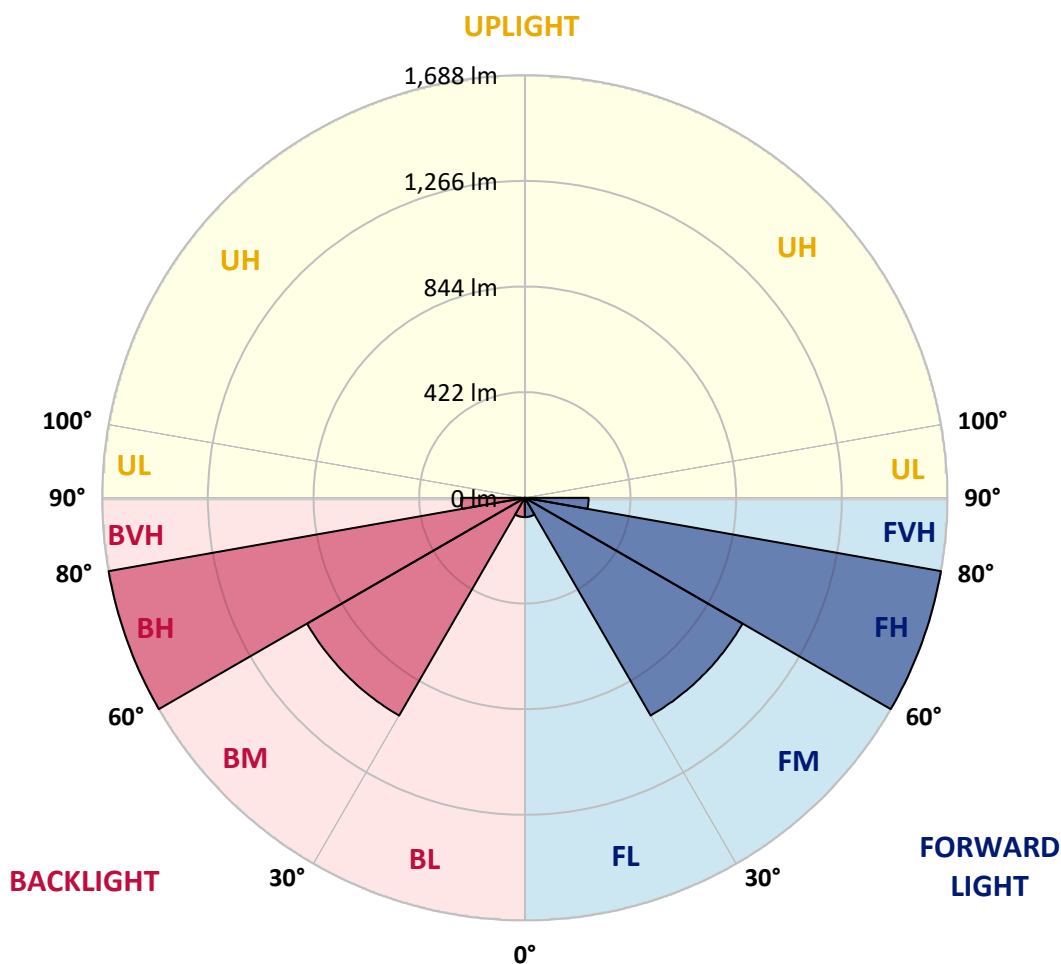
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 77.2   | 1.3       |                         |      |         |
| FM   | (30°-60°)   | 1004.6 | 16.6      |                         |      |         |
| FH   | (60°-80°)   | 1688.5 | 27.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 254.7  | 4.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 77.2   | 1.3       | B0/110                  |      |         |
| BM   | (30°-60°)   | 1004.6 | 16.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1688.5 | 27.9      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 254.7  | 4.2       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 110.5  | 110.5  | 110.5  | 110.5  | 110.5  | 110.5  | 110.5  | 110.5  | 110.5  | 110.5  | 110.5  |
| 2.5°  | 112.0  | 112.0  | 113.4  | 113.4  | 113.4  | 113.4  | 113.4  | 113.4  | 113.4  | 113.4  | 113.4  |
| 5°    | 116.3  | 116.3  | 116.3  | 116.3  | 117.7  | 117.7  | 116.3  | 116.3  | 116.3  | 116.3  | 116.3  |
| 7.5°  | 123.5  | 122.0  | 123.5  | 123.5  | 123.5  | 122.0  | 122.0  | 122.0  | 120.6  | 120.6  | 120.6  |
| 10°   | 130.6  | 130.6  | 132.1  | 130.6  | 130.6  | 129.2  | 129.2  | 129.2  | 127.8  | 127.8  | 127.8  |
| 12.5° | 140.7  | 140.7  | 140.7  | 140.7  | 139.2  | 139.2  | 137.8  | 136.4  | 134.9  | 134.9  | 134.9  |
| 15°   | 153.6  | 152.2  | 152.2  | 150.7  | 149.3  | 147.9  | 146.4  | 146.4  | 145.0  | 145.0  | 145.0  |
| 17.5° | 166.5  | 166.5  | 165.1  | 163.6  | 160.8  | 159.3  | 159.3  | 157.9  | 156.5  | 156.5  | 156.5  |
| 20°   | 182.3  | 182.3  | 180.9  | 178.0  | 175.1  | 173.7  | 172.3  | 172.3  | 170.8  | 170.8  | 170.8  |
| 22.5° | 201.0  | 199.5  | 196.7  | 193.8  | 190.9  | 189.5  | 188.1  | 186.6  | 186.6  | 186.6  | 186.6  |
| 25°   | 221.1  | 219.6  | 218.2  | 213.9  | 209.6  | 208.1  | 205.3  | 205.3  | 203.8  | 205.3  | 205.3  |
| 27.5° | 245.5  | 244.0  | 241.2  | 236.9  | 231.1  | 228.2  | 226.8  | 226.8  | 228.2  | 228.2  | 229.7  |
| 30°   | 275.6  | 272.7  | 269.9  | 264.1  | 258.4  | 254.1  | 254.1  | 255.5  | 259.8  | 262.7  | 262.7  |
| 32.5° | 311.5  | 310.1  | 305.8  | 300.0  | 290.0  | 287.1  | 290.0  | 298.6  | 304.3  | 308.6  | 311.5  |
| 35°   | 353.1  | 351.7  | 346.0  | 335.9  | 328.7  | 327.3  | 335.9  | 350.3  | 368.9  | 374.7  | 377.5  |
| 37.5° | 399.1  | 400.5  | 393.3  | 381.8  | 374.7  | 377.5  | 394.8  | 422.0  | 440.7  | 453.6  | 456.5  |
| 40°   | 456.5  | 459.4  | 450.8  | 437.8  | 430.7  | 442.1  | 469.4  | 501.0  | 534.0  | 549.8  | 554.1  |
| 42.5° | 524.0  | 528.3  | 516.8  | 503.9  | 499.6  | 518.2  | 557.0  | 608.7  | 667.5  | 686.2  | 693.4  |
| 45°   | 607.2  | 610.1  | 595.7  | 584.3  | 581.4  | 614.4  | 680.4  | 766.6  | 859.9  | 902.9  | 910.1  |
| 47.5° | 706.3  | 704.8  | 691.9  | 677.6  | 680.4  | 727.8  | 826.9  | 943.1  | 1042.2 | 1108.2 | 1122.6 |
| 50°   | 819.7  | 812.5  | 802.5  | 785.2  | 803.9  | 872.8  | 997.7  | 1138.4 | 1304.9 | 1363.7 | 1389.6 |
| 52.5° | 933.1  | 920.2  | 911.5  | 900.1  | 933.1  | 1022.1 | 1197.2 | 1442.7 | 1693.9 | 1828.8 | 1856.1 |
| 55°   | 1035.0 | 1025.0 | 1020.6 | 1022.1 | 1073.8 | 1201.5 | 1431.2 | 1745.6 | 1988.2 | 2100.2 | 2120.3 |
| 57.5° | 1135.5 | 1129.7 | 1125.4 | 1134.1 | 1215.9 | 1382.4 | 1640.8 | 1935.1 | 2134.6 | 2217.9 | 2232.2 |
| 60°   | 1230.2 | 1236.0 | 1233.1 | 1258.9 | 1358.0 | 1525.9 | 1749.9 | 2039.9 | 2232.2 | 2308.3 | 2324.1 |
| 62.5° | 1335.0 | 1339.3 | 1339.3 | 1368.0 | 1448.4 | 1596.3 | 1824.5 | 2163.3 | 2407.4 | 2519.3 | 2536.5 |
| 65°   | 1425.5 | 1428.3 | 1434.1 | 1435.5 | 1510.2 | 1658.0 | 1956.6 | 2276.7 | 2494.9 | 2624.1 | 2635.6 |
| 67.5° | 1492.9 | 1495.8 | 1488.6 | 1481.4 | 1538.9 | 1672.4 | 1946.6 | 2262.4 | 2456.2 | 2553.8 | 2562.4 |
| 70°   | 1547.5 | 1534.6 | 1514.5 | 1478.6 | 1497.2 | 1597.7 | 1863.3 | 2147.5 | 2342.8 | 2430.3 | 2443.2 |
| 72.5° | 1554.7 | 1543.2 | 1480.0 | 1399.6 | 1376.7 | 1464.2 | 1716.9 | 1972.4 | 2140.3 | 2223.6 | 2225.0 |
| 75°   | 1511.6 | 1481.4 | 1376.7 | 1256.1 | 1213.0 | 1296.3 | 1513.0 | 1745.6 | 1880.5 | 1950.9 | 1958.0 |
| 77.5° | 1366.6 | 1337.9 | 1205.8 | 1068.0 | 1019.2 | 1091.0 | 1274.7 | 1462.8 | 1592.0 | 1660.9 | 1665.2 |
| 80°   | 1109.7 | 1099.6 | 979.0  | 852.7  | 793.8  | 835.5  | 996.2  | 1144.1 | 1248.9 | 1330.7 | 1337.9 |
| 82.5° | 818.2  | 809.6  | 717.8  | 607.2  | 559.8  | 594.3  | 709.1  | 818.2  | 915.9  | 981.9  | 986.2  |
| 85°   | 511.0  | 493.8  | 436.4  | 358.9  | 327.3  | 350.3  | 426.3  | 499.6  | 587.1  | 638.8  | 641.7  |
| 87.5° | 170.8  | 163.6  | 140.7  | 116.3  | 97.6   | 101.9  | 124.9  | 152.2  | 222.5  | 245.5  | 259.8  |
| 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)