

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: P387213

Luminaire Tested: **TT-D4-750-U-5MQ-PM**

Issue Date: 2/18/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P387213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-16)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/18/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TT-D4-750-U-5MQ-PM  
Description: TOPTIER LED SITE LUMINAIRE  
5000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8002 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

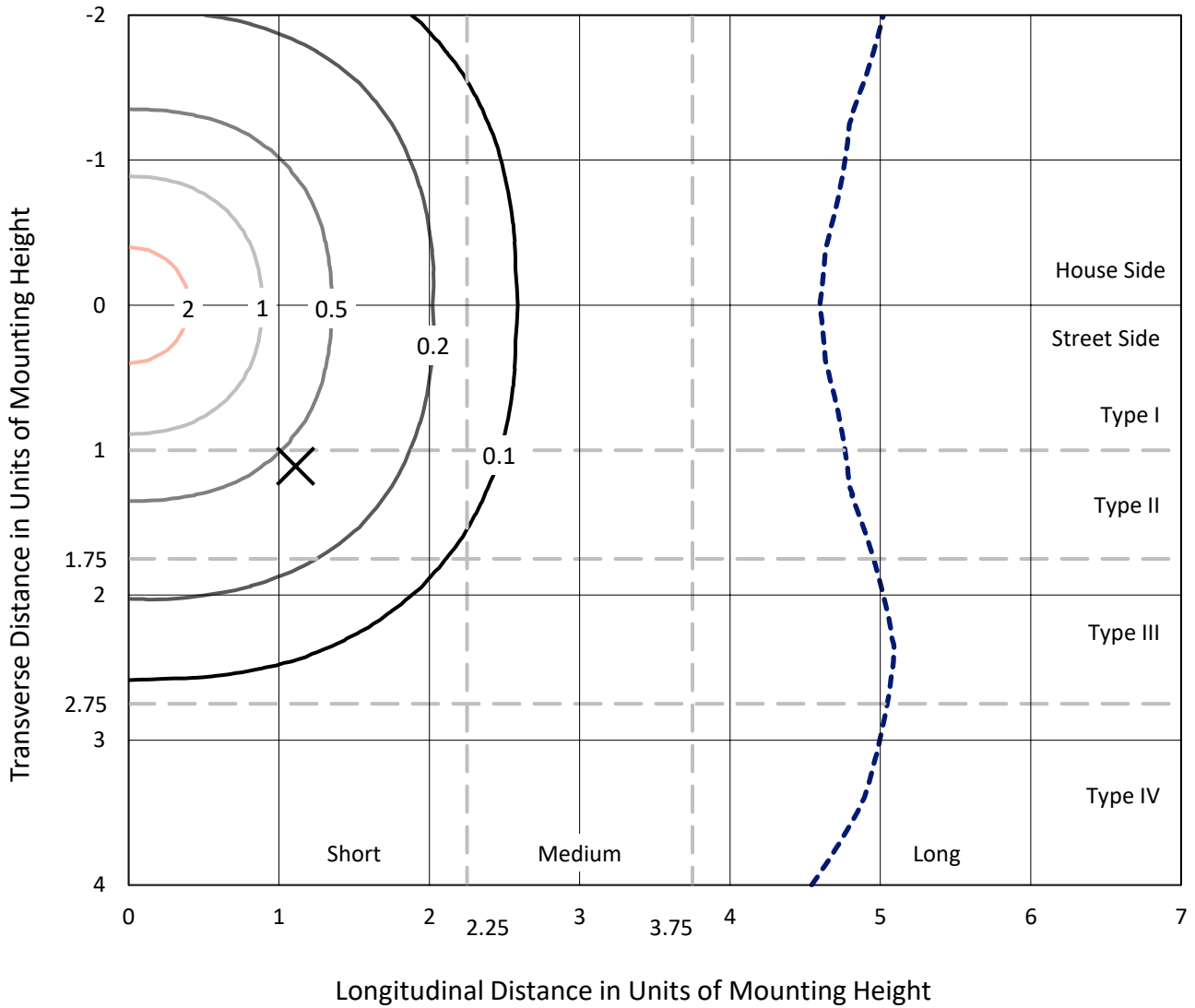
Input Watts (W): 57.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

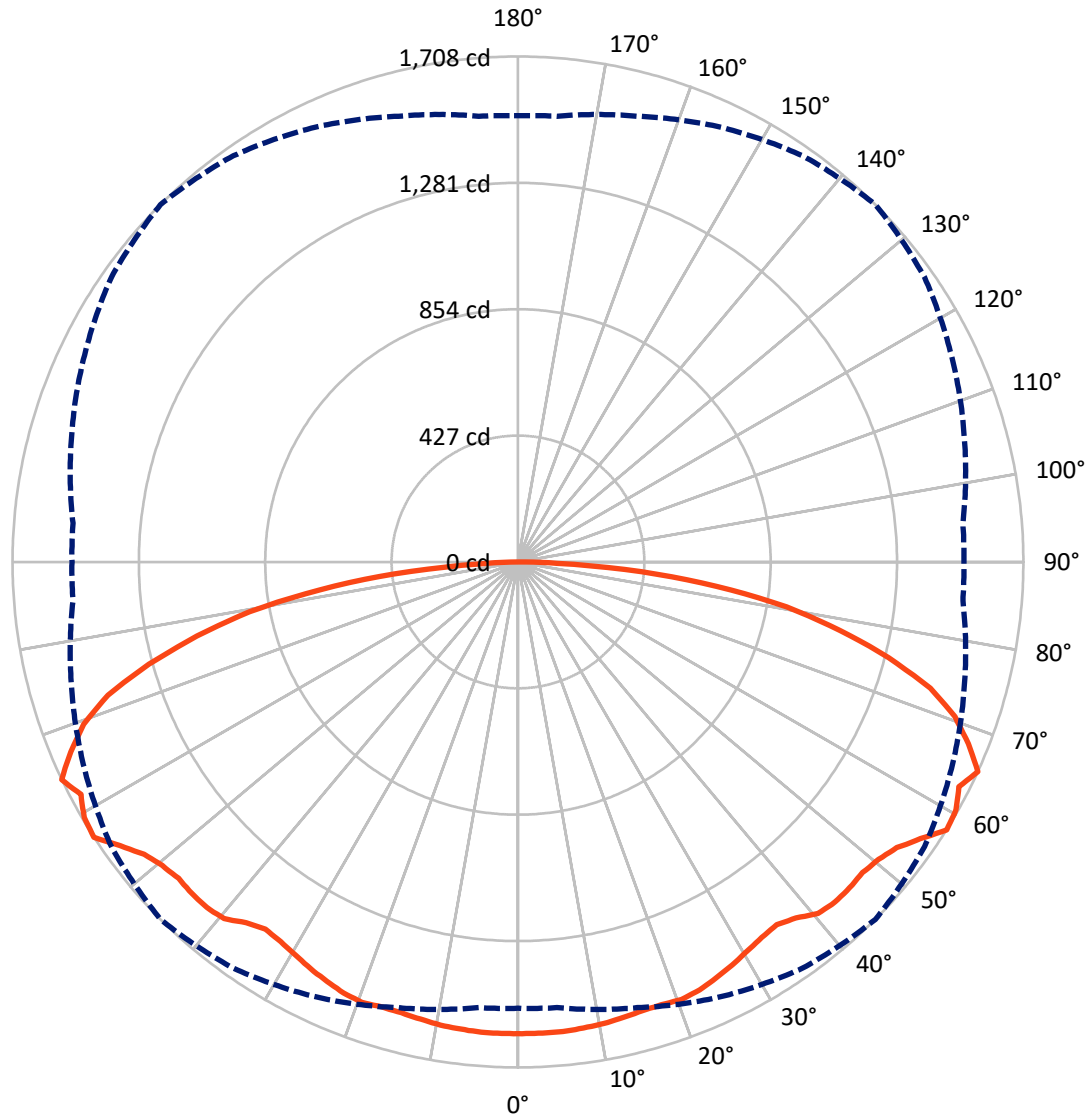
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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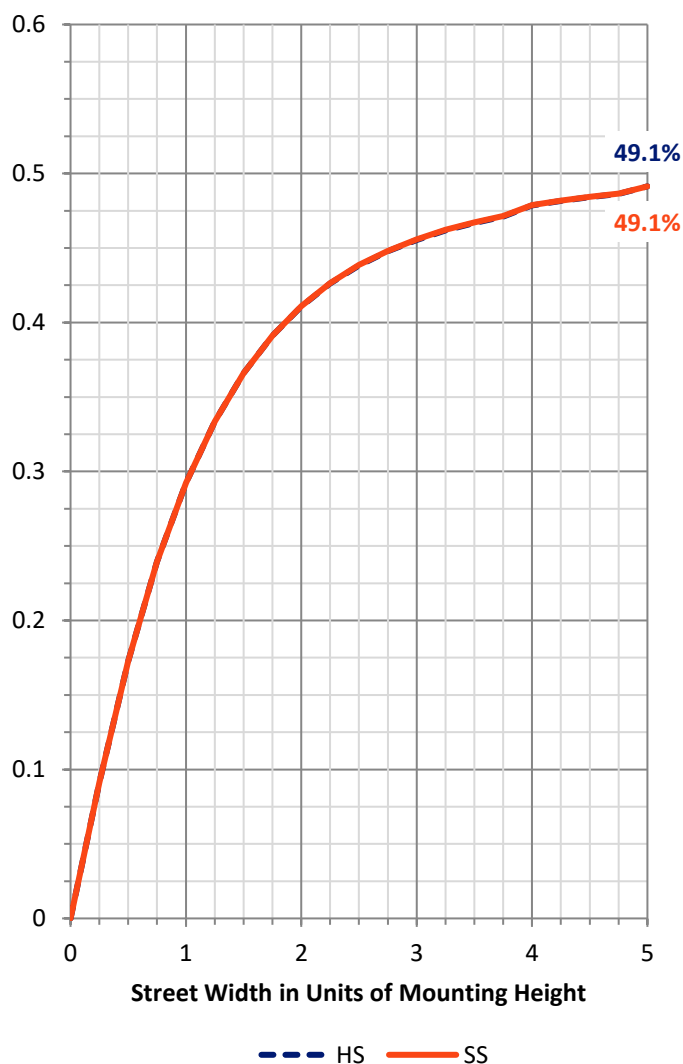
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4001.0   | 0.0    | 4001.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4001.0   | 0.0    | 4001.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8002.0   | 0.0    | 8002.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 151.9  | 1.9       |
| 10°-20°   | 446.7  | 5.6       |
| 20°-30°   | 717.8  | 9.0       |
| 30°-40°   | 947.6  | 11.8      |
| 40°-50°   | 1185.5 | 14.8      |
| 50°-60°   | 1410.1 | 17.6      |
| 60°-70°   | 1529.4 | 19.1      |
| 70°-80°   | 1217.3 | 15.2      |
| 80°-90°   | 395.7  | 4.9       |
| 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°    | 8002.0 | 100.0     |
| 0°-180°   | 8002.0 | 100.0     |

**Coefficient of Utilization**

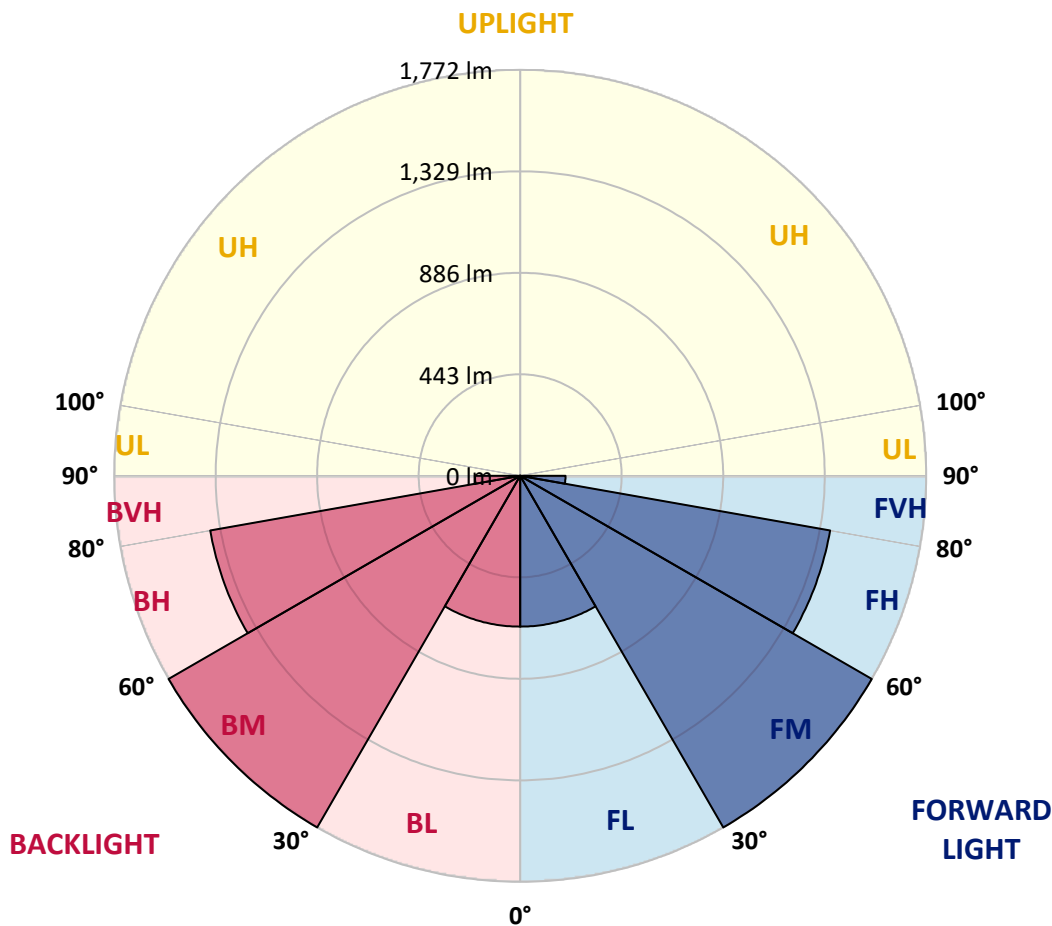


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 658.2  | 8.2       |                         |      |         |
| FM (30°-60°)   | 1771.6 | 22.1      |                         |      |         |
| FH (60°-80°)   | 1373.4 | 17.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 197.9  | 2.5       |                         |      | G2/225  |
| BL (0°-30°)    | 658.2  | 8.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 1771.6 | 22.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1373.4 | 17.2      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 197.9  | 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°    | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 |
| 2.5°  | 1596.1 | 1594.9 | 1596.1 | 1594.9 | 1594.9 | 1593.8 | 1594.9 | 1594.9 | 1594.9 | 1594.9 | 1594.9 |
| 5°    | 1594.9 | 1593.8 | 1593.8 | 1594.9 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 |
| 7.5°  | 1590.2 | 1590.2 | 1591.4 | 1590.2 | 1590.2 | 1590.2 | 1590.2 | 1590.2 | 1590.2 | 1591.4 | 1591.4 |
| 10°   | 1586.6 | 1585.4 | 1586.6 | 1586.6 | 1585.4 | 1586.6 | 1585.4 | 1586.6 | 1586.6 | 1586.6 | 1586.6 |
| 12.5° | 1581.8 | 1580.7 | 1581.8 | 1581.8 | 1580.7 | 1579.5 | 1580.7 | 1580.7 | 1581.8 | 1581.8 | 1581.8 |
| 15°   | 1573.5 | 1573.5 | 1575.9 | 1574.7 | 1574.7 | 1573.5 | 1575.9 | 1574.7 | 1573.5 | 1574.7 | 1574.7 |
| 17.5° | 1567.6 | 1567.6 | 1569.9 | 1572.3 | 1572.3 | 1572.3 | 1572.3 | 1571.1 | 1568.8 | 1569.9 | 1567.6 |
| 20°   | 1568.8 | 1569.9 | 1571.1 | 1574.7 | 1577.1 | 1578.3 | 1578.3 | 1574.7 | 1571.1 | 1572.3 | 1571.1 |
| 22.5° | 1565.2 | 1564.0 | 1565.2 | 1567.6 | 1571.1 | 1571.1 | 1571.1 | 1566.4 | 1565.2 | 1564.0 | 1564.0 |
| 25°   | 1550.9 | 1550.9 | 1553.3 | 1555.7 | 1558.0 | 1556.9 | 1558.0 | 1555.7 | 1553.3 | 1550.9 | 1550.9 |
| 27.5° | 1534.2 | 1534.2 | 1537.8 | 1540.2 | 1542.6 | 1542.6 | 1541.4 | 1539.0 | 1537.8 | 1535.4 | 1534.2 |
| 30°   | 1517.6 | 1517.6 | 1521.1 | 1523.5 | 1527.1 | 1525.9 | 1525.9 | 1522.3 | 1518.8 | 1516.4 | 1516.4 |
| 32.5° | 1499.7 | 1498.5 | 1502.1 | 1508.1 | 1512.8 | 1512.8 | 1512.8 | 1505.7 | 1500.9 | 1498.5 | 1497.3 |
| 35°   | 1484.2 | 1484.2 | 1489.0 | 1499.7 | 1505.7 | 1505.7 | 1503.3 | 1498.5 | 1487.8 | 1484.2 | 1484.2 |
| 37.5° | 1479.5 | 1483.1 | 1496.2 | 1511.6 | 1523.5 | 1525.9 | 1522.3 | 1509.2 | 1495.0 | 1484.2 | 1480.7 |
| 40°   | 1495.0 | 1498.5 | 1515.2 | 1540.2 | 1558.0 | 1561.6 | 1558.0 | 1539.0 | 1514.0 | 1497.3 | 1496.2 |
| 42.5° | 1497.3 | 1499.7 | 1520.0 | 1548.5 | 1565.2 | 1571.1 | 1565.2 | 1546.1 | 1518.8 | 1498.5 | 1497.3 |
| 45°   | 1489.0 | 1490.2 | 1514.0 | 1543.8 | 1564.0 | 1571.1 | 1564.0 | 1541.4 | 1512.8 | 1490.2 | 1489.0 |
| 47.5° | 1478.3 | 1480.7 | 1506.9 | 1537.8 | 1562.8 | 1567.6 | 1561.6 | 1536.6 | 1504.5 | 1481.9 | 1478.3 |
| 50°   | 1470.0 | 1477.1 | 1500.9 | 1535.4 | 1565.2 | 1579.5 | 1565.2 | 1531.9 | 1499.7 | 1474.7 | 1470.0 |
| 52.5° | 1474.7 | 1477.1 | 1508.1 | 1556.9 | 1597.3 | 1603.3 | 1596.1 | 1556.9 | 1505.7 | 1477.1 | 1473.5 |
| 55°   | 1489.0 | 1499.7 | 1533.0 | 1603.3 | 1640.2 | 1650.9 | 1635.4 | 1600.9 | 1534.2 | 1499.7 | 1489.0 |
| 57.5° | 1508.1 | 1511.6 | 1559.2 | 1621.1 | 1675.9 | 1708.0 | 1677.1 | 1619.9 | 1562.8 | 1509.2 | 1506.9 |
| 60°   | 1492.6 | 1481.9 | 1541.4 | 1614.0 | 1687.8 | 1700.9 | 1683.0 | 1615.2 | 1539.0 | 1480.7 | 1491.4 |
| 62.5° | 1450.9 | 1458.1 | 1506.9 | 1606.8 | 1658.0 | 1672.3 | 1653.3 | 1606.8 | 1504.5 | 1464.0 | 1447.3 |
| 65°   | 1417.6 | 1460.4 | 1514.0 | 1585.4 | 1667.5 | 1708.0 | 1668.7 | 1583.0 | 1516.4 | 1453.3 | 1414.0 |
| 67.5° | 1371.2 | 1379.5 | 1459.3 | 1547.3 | 1621.1 | 1641.4 | 1619.9 | 1548.5 | 1452.1 | 1373.6 | 1379.5 |
| 70°   | 1292.6 | 1280.7 | 1361.7 | 1464.0 | 1534.2 | 1566.4 | 1536.6 | 1459.3 | 1358.1 | 1278.3 | 1289.0 |
| 72.5° | 1162.9 | 1170.0 | 1245.0 | 1353.3 | 1425.9 | 1456.9 | 1427.1 | 1345.0 | 1242.6 | 1177.2 | 1170.0 |
| 75°   | 1027.2 | 1035.5 | 1108.1 | 1206.9 | 1280.7 | 1293.8 | 1285.5 | 1201.0 | 1110.5 | 1034.3 | 1027.2 |
| 77.5° | 872.5  | 880.8  | 940.3  | 1048.6 | 1092.7 | 1112.9 | 1095.0 | 1054.6 | 937.9  | 879.6  | 870.1  |
| 80°   | 701.1  | 698.7  | 751.1  | 843.9  | 898.6  | 921.3  | 898.6  | 846.3  | 748.7  | 703.4  | 688.0  |
| 82.5° | 501.1  | 503.5  | 552.3  | 616.6  | 668.9  | 676.1  | 665.4  | 622.5  | 547.5  | 509.4  | 488.0  |
| 85°   | 278.5  | 289.2  | 324.9  | 372.5  | 407.1  | 419.0  | 401.1  | 360.6  | 323.7  | 294.0  | 284.5  |
| 87.5° | 66.7   | 72.6   | 84.5   | 107.1  | 120.2  | 132.1  | 120.2  | 111.9  | 79.7   | 72.6   | 66.7   |
| 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)