

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: P821393

Luminaire Tested: **TT-D5-740-12VDC-5WQ-PM**

Issue Date: 2/12/2020



Test Information

Test Method: LM-79-08
Report Number: P821393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D5-740-12VDC-5WQ-PM
Description: TOPTIER LED SITE LUMINAIRE
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

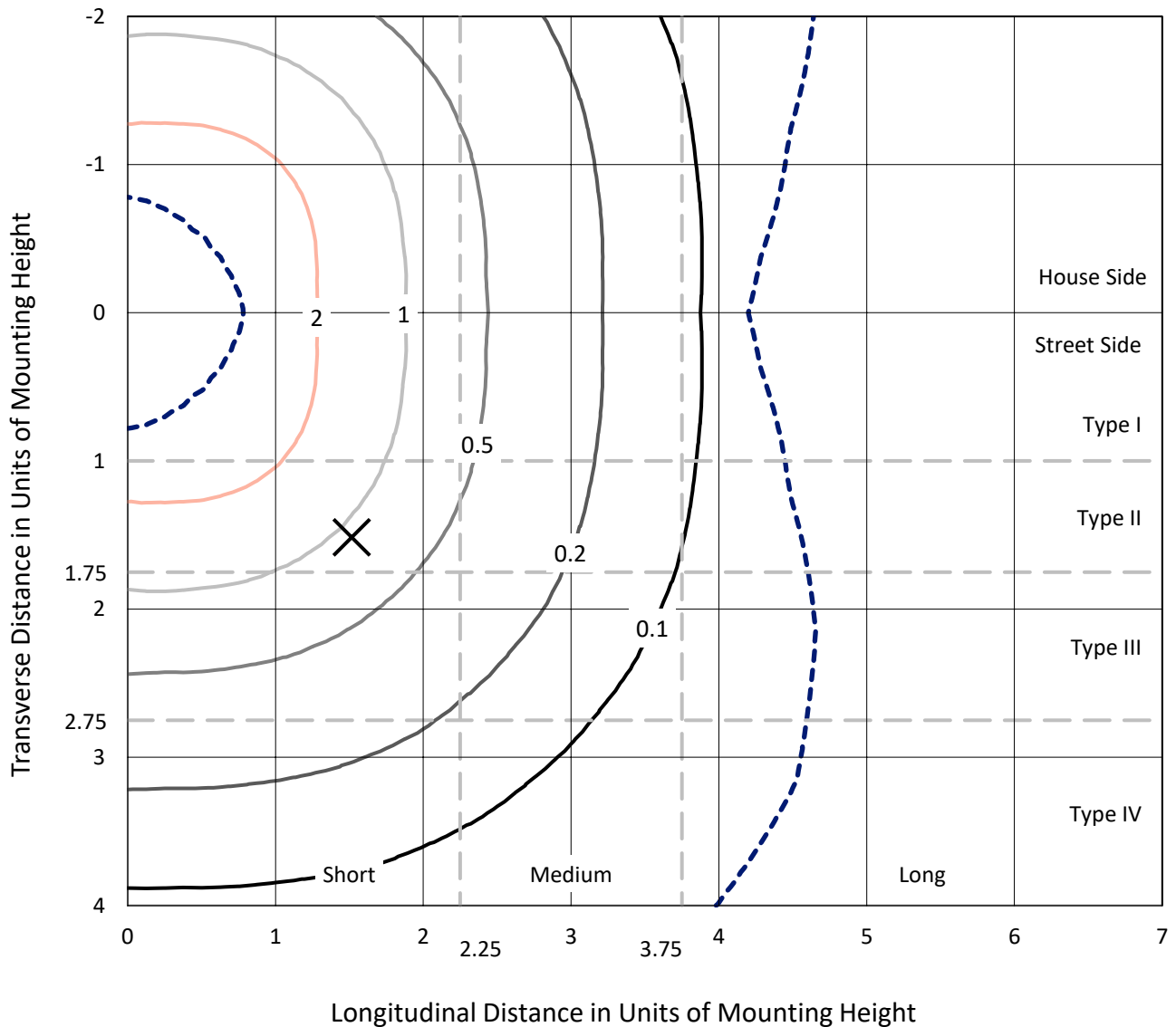
Lumens per Lamp: N/A
Luminaire Lumens: 9527 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 73
Input Voltage (V): NR
Input Current (A_{in}): 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

REPORT NUMBER: P821393
 CATALOG NUMBER: TT-D5-740-12VDC-5WQ-PM

Iso-Footcandle Lines of Horizontal Illumination

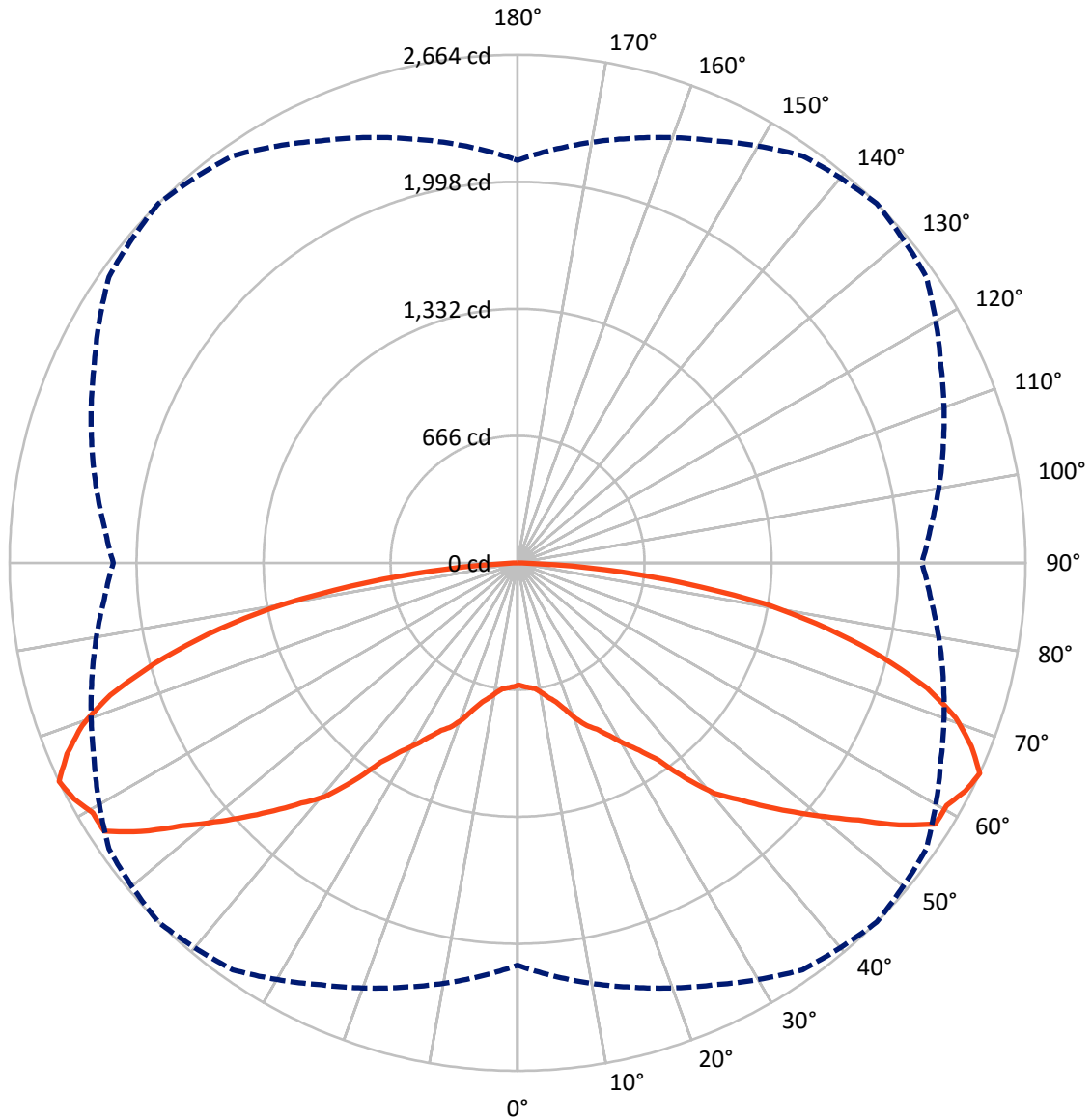
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

REPORT NUMBER: P821393
CATALOG NUMBER: TT-D5-740-12VDC-5WQ-PM

Luminous Intensity Polar Plot



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

REPORT NUMBER: P821393
 CATALOG NUMBER: TT-D5-740-12VDC-5WQ-PM

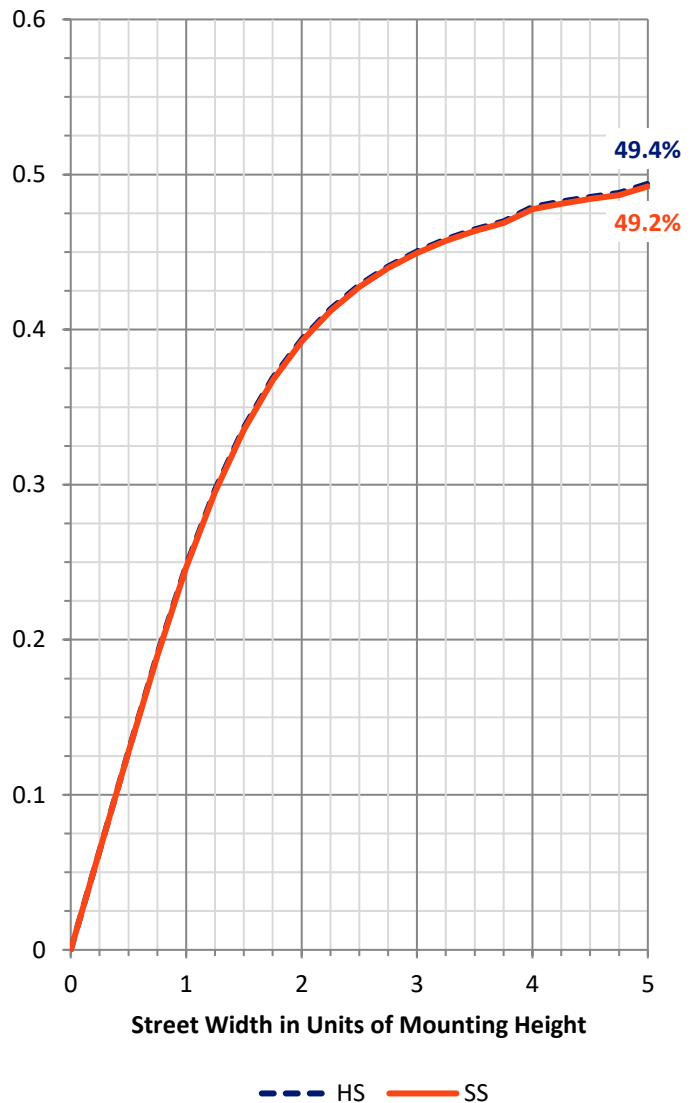
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4763.5 | 0.0 | 4763.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4763.5 | 0.0 | 4763.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9527.0 | 0.0 | 9527.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.9 | 0.7 |
| 10°-20° | 219.9 | 2.3 |
| 20°-30° | 451.6 | 4.7 |
| 30°-40° | 802.2 | 8.4 |
| 40°-50° | 1352.3 | 14.2 |
| 50°-60° | 1994.9 | 20.9 |
| 60°-70° | 2341.2 | 24.6 |
| 70°-80° | 1824.0 | 19.1 |
| 80°-90° | 476.9 | 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° | 9527.0 | 100.0 |
| 0°-180° | 9527.0 | 100.0 |

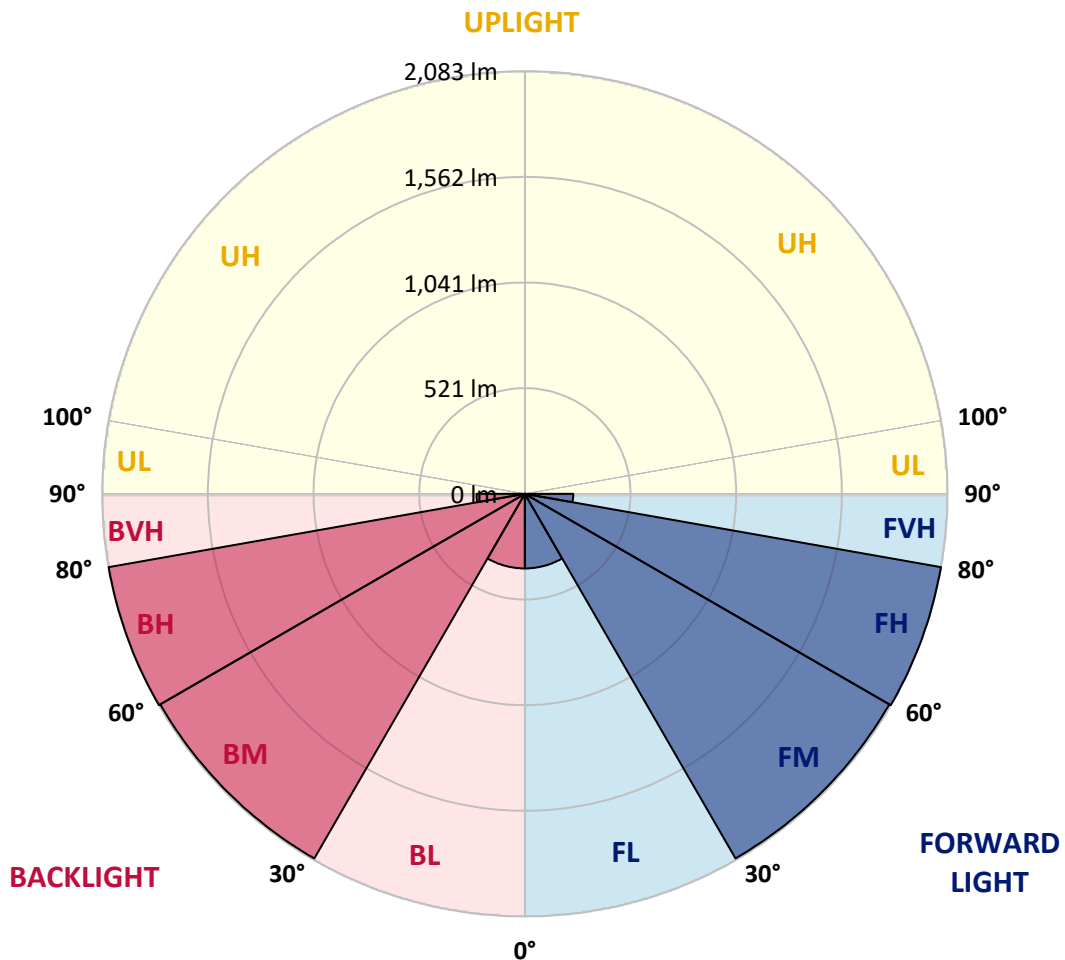


REPORT NUMBER: P821393
 CATALOG NUMBER: TT-D5-740-12VDC-5WQ-PM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 367.7 | 3.9 | | | |
| FM (30°-60°) | 2074.7 | 21.8 | | | |
| FH (60°-80°) | 2082.6 | 21.9 | | | G2/5000 |
| FVH (80°-90°) | 238.4 | 2.5 | | | G3/500 |
| BL (0°-30°) | 367.7 | 3.9 | B1/500 | | |
| BM (30°-60°) | 2074.7 | 21.8 | B2/2500 | | |
| BH (60°-80°) | 2082.6 | 21.9 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 238.4 | 2.5 | | | 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 V Short





REPORT NUMBER: P821393

CATALOG NUMBER: TT-D5-740-12VDC-5WQ-PM

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 641.2 | 641.2 | 641.2 | 641.2 | 641.2 | 641.2 | 641.2 | 641.2 | 641.2 | 641.2 | 641.2 |
| 2.5° | 651.7 | 651.7 | 651.7 | 650.2 | 650.2 | 650.2 | 650.2 | 651.7 | 651.7 | 651.7 | 651.7 |
| 5° | 666.7 | 666.7 | 663.7 | 660.7 | 657.7 | 657.7 | 659.2 | 660.7 | 662.2 | 665.2 | 665.2 |
| 7.5° | 675.7 | 675.7 | 674.2 | 671.2 | 666.7 | 666.7 | 668.2 | 671.2 | 672.7 | 672.7 | 671.2 |
| 10° | 687.6 | 689.1 | 693.6 | 695.1 | 692.1 | 692.1 | 693.6 | 695.1 | 692.1 | 687.6 | 687.6 |
| 12.5° | 716.1 | 717.6 | 723.6 | 728.1 | 728.1 | 725.1 | 726.6 | 729.6 | 722.1 | 714.6 | 716.1 |
| 15° | 756.6 | 756.6 | 758.1 | 762.5 | 759.5 | 756.6 | 759.5 | 761.0 | 756.6 | 755.1 | 758.1 |
| 17.5° | 810.5 | 810.5 | 801.5 | 809.0 | 810.5 | 809.0 | 812.0 | 804.5 | 800.0 | 806.0 | 809.0 |
| 20° | 868.9 | 862.9 | 858.4 | 864.4 | 876.4 | 871.9 | 877.9 | 861.4 | 856.9 | 859.9 | 861.4 |
| 22.5° | 906.4 | 910.9 | 913.9 | 916.9 | 933.3 | 927.3 | 933.3 | 915.4 | 912.4 | 906.4 | 901.9 |
| 25° | 951.3 | 955.8 | 973.8 | 964.8 | 975.3 | 966.3 | 973.8 | 963.3 | 969.3 | 951.3 | 951.3 |
| 27.5° | 1002.2 | 1011.2 | 1021.7 | 1017.2 | 1030.7 | 1026.2 | 1030.7 | 1015.7 | 1017.2 | 1009.7 | 1006.7 |
| 30° | 1071.2 | 1071.2 | 1068.2 | 1077.2 | 1101.1 | 1098.1 | 1099.6 | 1080.1 | 1066.7 | 1068.2 | 1074.2 |
| 32.5° | 1140.1 | 1131.1 | 1135.6 | 1162.5 | 1177.5 | 1171.5 | 1174.5 | 1165.5 | 1135.6 | 1129.6 | 1134.1 |
| 35° | 1204.5 | 1218.0 | 1228.5 | 1250.9 | 1271.9 | 1268.9 | 1267.4 | 1252.4 | 1233.0 | 1209.0 | 1201.5 |
| 37.5° | 1304.9 | 1319.8 | 1348.3 | 1388.8 | 1426.2 | 1433.7 | 1414.2 | 1394.8 | 1349.8 | 1315.4 | 1297.4 |
| 40° | 1436.7 | 1438.2 | 1471.2 | 1549.1 | 1583.5 | 1589.5 | 1579.0 | 1546.1 | 1477.1 | 1438.2 | 1436.7 |
| 42.5° | 1552.1 | 1541.6 | 1595.5 | 1661.4 | 1692.9 | 1695.9 | 1688.4 | 1661.4 | 1595.5 | 1540.1 | 1550.6 |
| 45° | 1641.9 | 1641.9 | 1706.4 | 1758.8 | 1809.7 | 1821.7 | 1808.2 | 1751.3 | 1707.9 | 1643.4 | 1638.9 |
| 47.5° | 1724.3 | 1746.8 | 1800.7 | 1865.2 | 1937.1 | 1953.6 | 1937.1 | 1869.7 | 1796.2 | 1748.3 | 1722.8 |
| 50° | 1823.2 | 1850.2 | 1889.1 | 1989.5 | 2070.4 | 2092.9 | 2068.9 | 1995.5 | 1889.1 | 1848.7 | 1833.7 |
| 52.5° | 1938.6 | 1961.0 | 2022.5 | 2148.3 | 2208.2 | 2241.2 | 2221.7 | 2151.3 | 2025.5 | 1964.0 | 1952.1 |
| 55° | 2076.4 | 2055.4 | 2151.3 | 2272.7 | 2383.5 | 2427.0 | 2388.0 | 2275.6 | 2166.3 | 2055.4 | 2076.4 |
| 57.5° | 2146.8 | 2122.8 | 2257.7 | 2373.0 | 2527.3 | 2584.3 | 2536.3 | 2382.0 | 2257.7 | 2130.3 | 2145.3 |
| 60° | 2152.8 | 2163.3 | 2265.2 | 2453.9 | 2560.3 | 2584.3 | 2569.3 | 2467.4 | 2269.7 | 2172.3 | 2143.8 |
| 62.5° | 2134.8 | 2199.2 | 2286.1 | 2480.9 | 2576.8 | 2635.2 | 2584.3 | 2483.9 | 2295.1 | 2209.7 | 2136.3 |
| 65° | 2110.9 | 2175.3 | 2304.1 | 2441.9 | 2605.2 | 2663.7 | 2615.7 | 2449.4 | 2310.1 | 2175.3 | 2119.8 |
| 67.5° | 2068.9 | 2046.4 | 2205.2 | 2389.5 | 2531.8 | 2566.3 | 2536.3 | 2392.5 | 2203.7 | 2043.4 | 2073.4 |
| 70° | 1935.6 | 1916.1 | 2052.4 | 2254.7 | 2391.0 | 2438.9 | 2403.0 | 2257.7 | 2055.4 | 1920.6 | 1938.6 |
| 72.5° | 1737.8 | 1743.8 | 1875.7 | 2068.9 | 2215.7 | 2245.7 | 2226.2 | 2067.4 | 1883.1 | 1751.3 | 1727.3 |
| 75° | 1507.1 | 1522.1 | 1647.9 | 1823.2 | 1956.5 | 1974.5 | 1955.1 | 1830.7 | 1646.4 | 1531.1 | 1499.6 |
| 77.5° | 1238.9 | 1261.4 | 1363.3 | 1538.6 | 1627.0 | 1667.4 | 1636.0 | 1543.1 | 1370.8 | 1267.4 | 1236.0 |
| 80° | 960.3 | 967.8 | 1039.7 | 1180.5 | 1297.4 | 1324.3 | 1294.4 | 1185.0 | 1048.7 | 970.8 | 948.3 |
| 82.5° | 629.2 | 641.2 | 705.6 | 813.5 | 889.9 | 882.4 | 889.9 | 804.5 | 713.1 | 638.2 | 600.7 |
| 85° | 280.1 | 304.1 | 347.6 | 398.5 | 447.9 | 461.4 | 447.9 | 404.5 | 347.6 | 298.1 | 292.1 |
| 87.5° | 19.5 | 22.5 | 27.0 | 28.5 | 31.5 | 24.0 | 24.0 | 24.0 | 21.0 | 24.0 | 19.5 |
| 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)