

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631747

Luminaire Tested: GWS-SA2B-735-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-735-U-5NQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6170.6 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

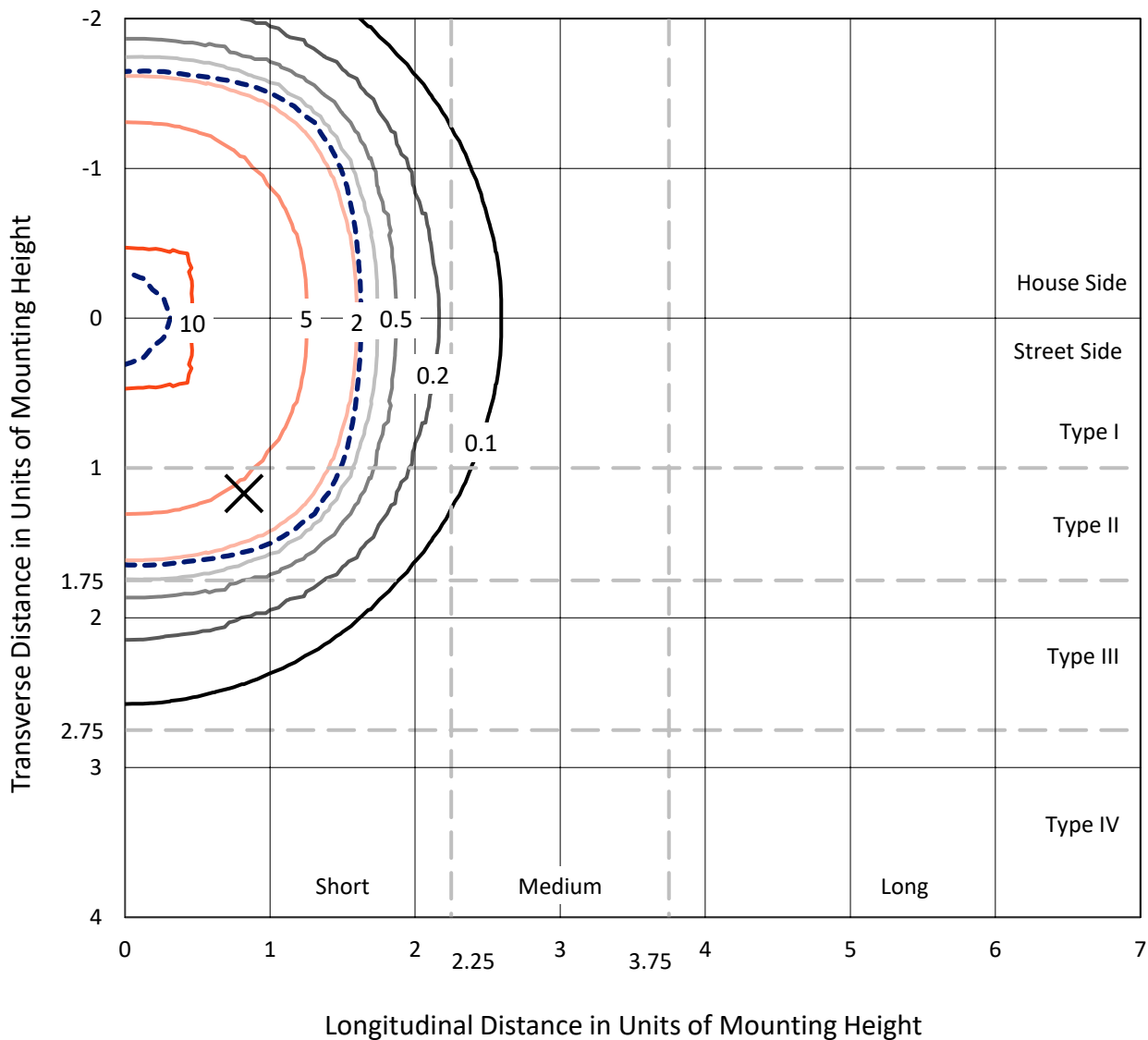
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

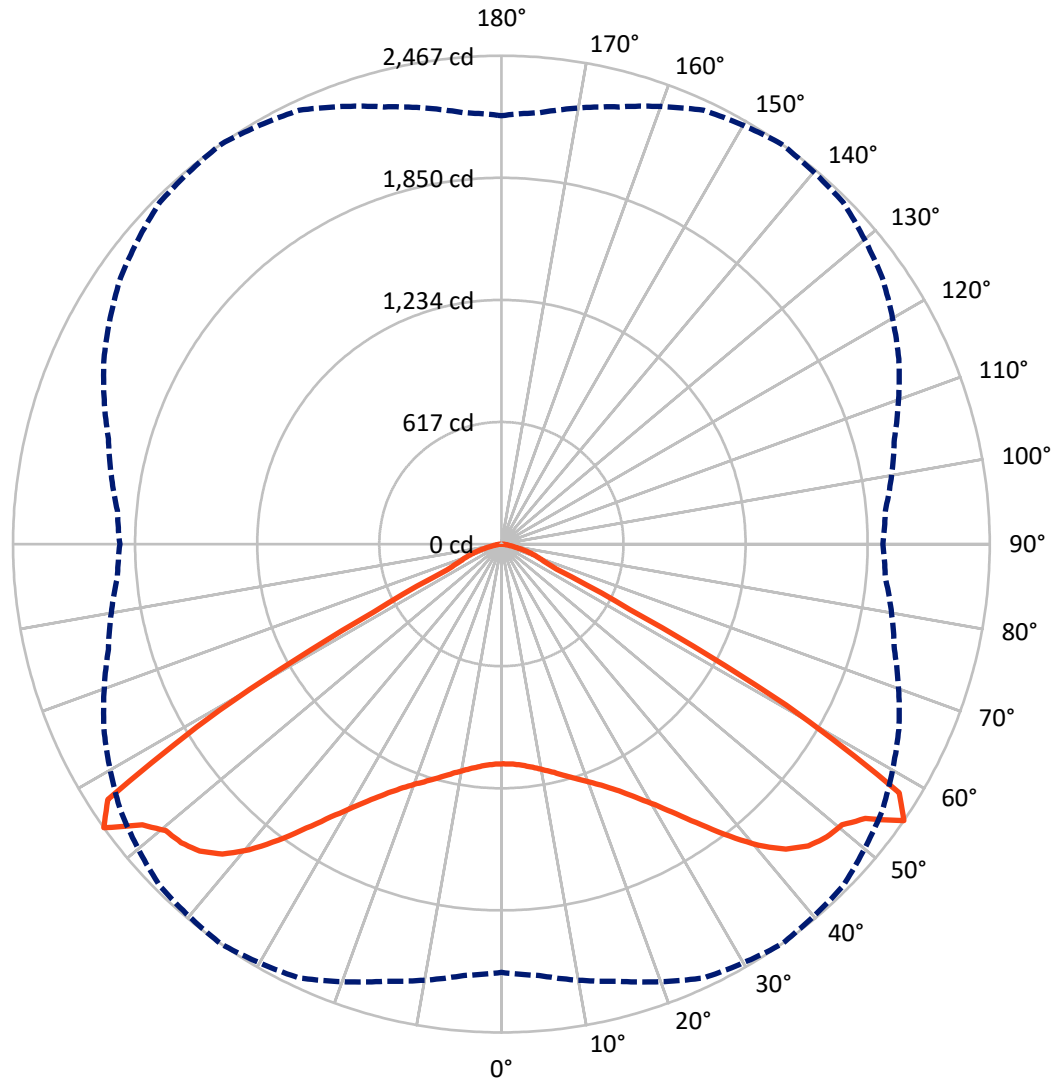
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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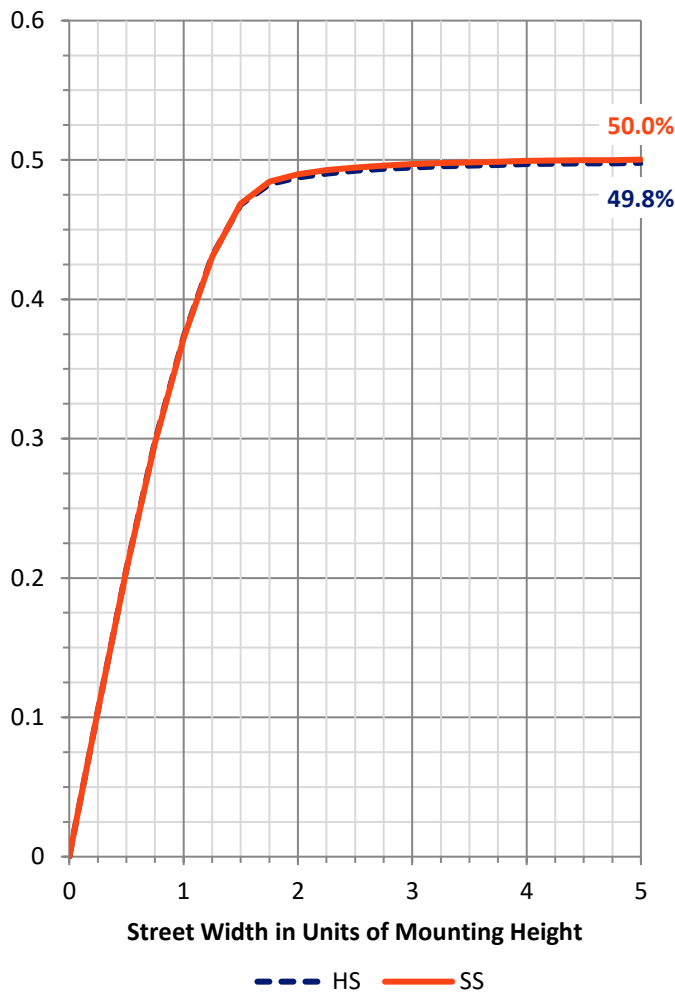
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3085.3 | 0.0 | 3085.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3085.3 | 0.0 | 3085.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6170.6 | 0.0 | 6170.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.3 | 1.8 |
| 10°-20° | 344.7 | 5.6 |
| 20°-30° | 638.0 | 10.3 |
| 30°-40° | 1067.3 | 17.3 |
| 40°-50° | 1626.4 | 26.4 |
| 50°-60° | 1821.9 | 29.5 |
| 60°-70° | 431.1 | 7.0 |
| 70°-80° | 116.2 | 1.9 |
| 80°-90° | 16.7 | 0.3 |
| 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° | 6170.6 | 100.0 |
| 0°-180° | 6170.6 | 100.0 |

Coefficient of Utilization



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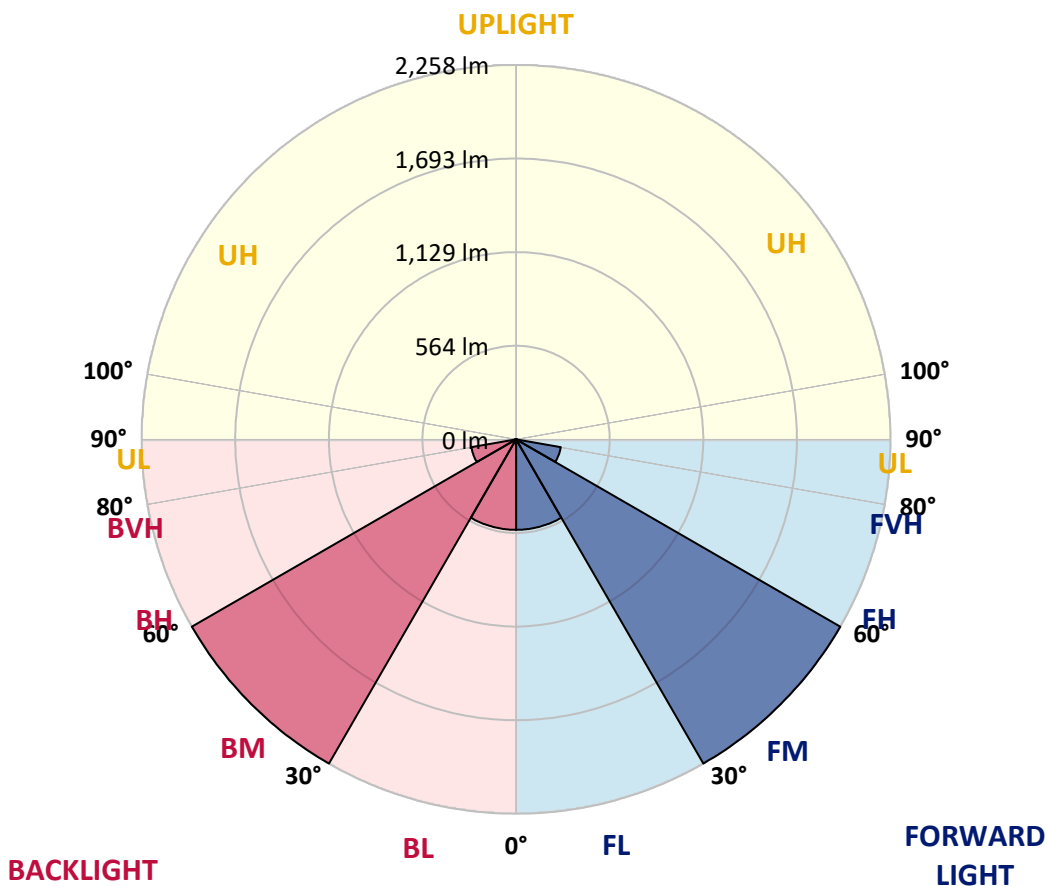
CATALOG NUMBER: GWS-SA2B-735-U-5NQ-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 545.5 | 8.8 | | | |
| FM (30°-60°) | 2257.8 | 36.6 | | | |
| FH (60°-80°) | 273.7 | 4.4 | | | G0/660 |
| FVH (80°-90°) | 8.4 | 0.1 | | | G0/10 |
| BL (0°-30°) | 545.5 | 8.8 | B2/1000 | | |
| BM (30°-60°) | 2257.8 | 36.6 | B2/2500 | | |
| BH (60°-80°) | 273.7 | 4.4 | B1/500 | | G0/660 |
| BVH (80°-90°) | 8.4 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 |
| 2.5° | 1107.7 | 1107.7 | 1109.6 | 1112.1 | 1112.5 | 1117.4 | 1116.5 | 1114.5 | 1113.5 | 1111.6 | 1116.0 |
| 5° | 1119.9 | 1120.4 | 1121.8 | 1123.3 | 1122.3 | 1126.2 | 1124.7 | 1122.3 | 1120.8 | 1118.4 | 1122.8 |
| 7.5° | 1136.0 | 1136.0 | 1137.4 | 1139.4 | 1138.4 | 1144.3 | 1141.3 | 1137.9 | 1135.5 | 1132.6 | 1136.5 |
| 10° | 1150.6 | 1151.6 | 1153.0 | 1157.0 | 1158.9 | 1165.2 | 1163.3 | 1158.4 | 1154.5 | 1151.1 | 1155.5 |
| 12.5° | 1172.6 | 1173.5 | 1175.0 | 1180.4 | 1183.8 | 1190.1 | 1187.2 | 1180.4 | 1174.5 | 1169.6 | 1174.5 |
| 15° | 1200.9 | 1199.9 | 1203.8 | 1210.6 | 1215.0 | 1220.9 | 1217.5 | 1205.7 | 1197.9 | 1191.6 | 1196.5 |
| 17.5° | 1229.7 | 1229.2 | 1233.1 | 1241.9 | 1248.2 | 1256.0 | 1250.2 | 1236.5 | 1228.2 | 1220.4 | 1225.3 |
| 20° | 1260.9 | 1262.4 | 1266.3 | 1274.5 | 1283.8 | 1294.1 | 1289.2 | 1274.5 | 1265.3 | 1256.5 | 1260.4 |
| 22.5° | 1299.4 | 1299.9 | 1304.3 | 1315.1 | 1327.2 | 1337.0 | 1334.1 | 1316.0 | 1304.3 | 1295.0 | 1299.9 |
| 25° | 1345.8 | 1345.3 | 1351.2 | 1363.8 | 1380.9 | 1390.7 | 1384.3 | 1364.3 | 1351.6 | 1340.9 | 1344.8 |
| 27.5° | 1399.0 | 1398.5 | 1407.3 | 1423.9 | 1448.3 | 1461.9 | 1448.8 | 1423.9 | 1406.3 | 1391.2 | 1394.6 |
| 30° | 1465.8 | 1464.4 | 1474.1 | 1496.6 | 1528.3 | 1551.2 | 1531.7 | 1497.1 | 1474.1 | 1458.0 | 1461.4 |
| 32.5° | 1540.0 | 1542.0 | 1554.2 | 1584.4 | 1624.4 | 1654.2 | 1624.9 | 1586.4 | 1555.6 | 1532.2 | 1536.1 |
| 35° | 1621.5 | 1621.5 | 1646.4 | 1683.9 | 1741.0 | 1780.6 | 1735.2 | 1679.6 | 1638.6 | 1606.4 | 1607.3 |
| 37.5° | 1712.2 | 1713.2 | 1745.9 | 1797.6 | 1872.3 | 1918.7 | 1857.2 | 1788.4 | 1738.6 | 1704.0 | 1702.0 |
| 40° | 1823.0 | 1825.9 | 1859.6 | 1917.2 | 2001.1 | 2043.6 | 1977.7 | 1910.4 | 1859.6 | 1818.6 | 1814.7 |
| 42.5° | 1947.9 | 1948.9 | 1984.5 | 2036.3 | 2107.0 | 2132.4 | 2080.7 | 2025.5 | 1984.0 | 1947.0 | 1943.1 |
| 45° | 2067.0 | 2064.6 | 2095.3 | 2133.8 | 2174.8 | 2177.3 | 2148.5 | 2126.0 | 2089.9 | 2058.2 | 2052.4 |
| 47.5° | 2159.7 | 2157.8 | 2185.6 | 2206.6 | 2211.4 | 2187.5 | 2196.8 | 2200.2 | 2158.2 | 2115.3 | 2104.1 |
| 50° | 2216.3 | 2220.2 | 2246.6 | 2258.3 | 2229.5 | 2190.4 | 2225.6 | 2216.8 | 2156.8 | 2100.7 | 2082.6 |
| 52.5° | 2250.5 | 2256.3 | 2302.2 | 2332.0 | 2302.2 | 2265.1 | 2270.0 | 2218.3 | 2131.9 | 2057.7 | 2034.3 |
| 55° | 2164.1 | 2187.5 | 2286.6 | 2418.3 | 2467.1 | 2441.3 | 2348.5 | 2215.3 | 2055.3 | 1947.4 | 1927.4 |
| 57.5° | 1603.9 | 1641.0 | 1787.9 | 2073.3 | 2370.0 | 2464.2 | 2193.4 | 1857.2 | 1614.7 | 1476.1 | 1464.4 |
| 60° | 818.8 | 860.3 | 977.9 | 1271.1 | 1652.7 | 1785.4 | 1527.8 | 1189.2 | 945.2 | 832.9 | 820.3 |
| 62.5° | 334.3 | 341.1 | 379.6 | 492.8 | 730.5 | 842.7 | 740.2 | 519.7 | 390.4 | 359.6 | 360.1 |
| 65° | 263.0 | 264.5 | 262.5 | 269.4 | 306.0 | 339.6 | 313.8 | 275.7 | 268.9 | 272.3 | 269.8 |
| 67.5° | 229.3 | 229.8 | 228.4 | 228.4 | 229.8 | 228.4 | 231.3 | 232.8 | 233.7 | 237.6 | 235.2 |
| 70° | 191.8 | 192.3 | 192.3 | 193.2 | 192.7 | 190.3 | 194.7 | 196.6 | 197.1 | 199.6 | 198.1 |
| 72.5° | 148.3 | 149.8 | 150.8 | 151.3 | 150.8 | 149.3 | 151.8 | 155.2 | 154.7 | 157.1 | 154.7 |
| 75° | 100.5 | 102.5 | 103.4 | 105.4 | 104.9 | 104.9 | 107.8 | 109.3 | 107.8 | 109.8 | 107.8 |
| 77.5° | 57.1 | 58.6 | 61.5 | 63.4 | 65.4 | 66.9 | 68.8 | 69.8 | 69.3 | 70.3 | 69.3 |
| 80° | 33.2 | 33.7 | 36.1 | 37.1 | 39.5 | 42.0 | 43.9 | 44.9 | 45.4 | 45.9 | 45.4 |
| 82.5° | 19.0 | 19.5 | 20.5 | 21.5 | 23.4 | 25.4 | 27.3 | 28.8 | 28.8 | 29.3 | 28.8 |
| 85° | 9.3 | 9.3 | 9.8 | 10.2 | 11.2 | 12.7 | 14.2 | 15.6 | 16.1 | 16.1 | 16.1 |
| 87.5° | 1.5 | 1.5 | 2.0 | 2.0 | 2.4 | 2.9 | 3.9 | 4.9 | 5.4 | 5.4 | 5.4 |
| 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)