

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: P629367

Luminaire Tested: GWS-SA1B-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3654.5 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 25
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

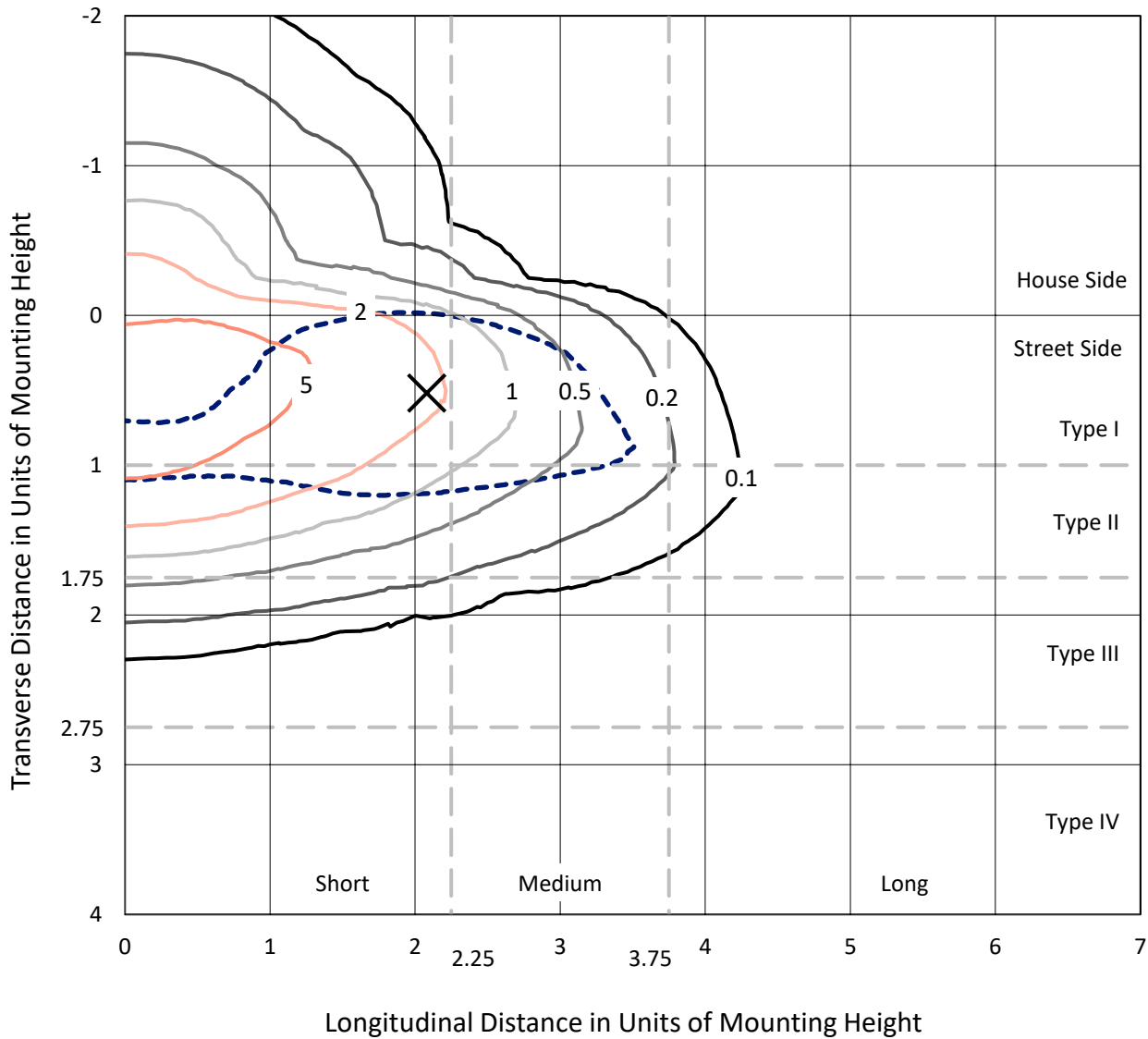


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Iso-Footcandle Lines of Horizontal Illumination

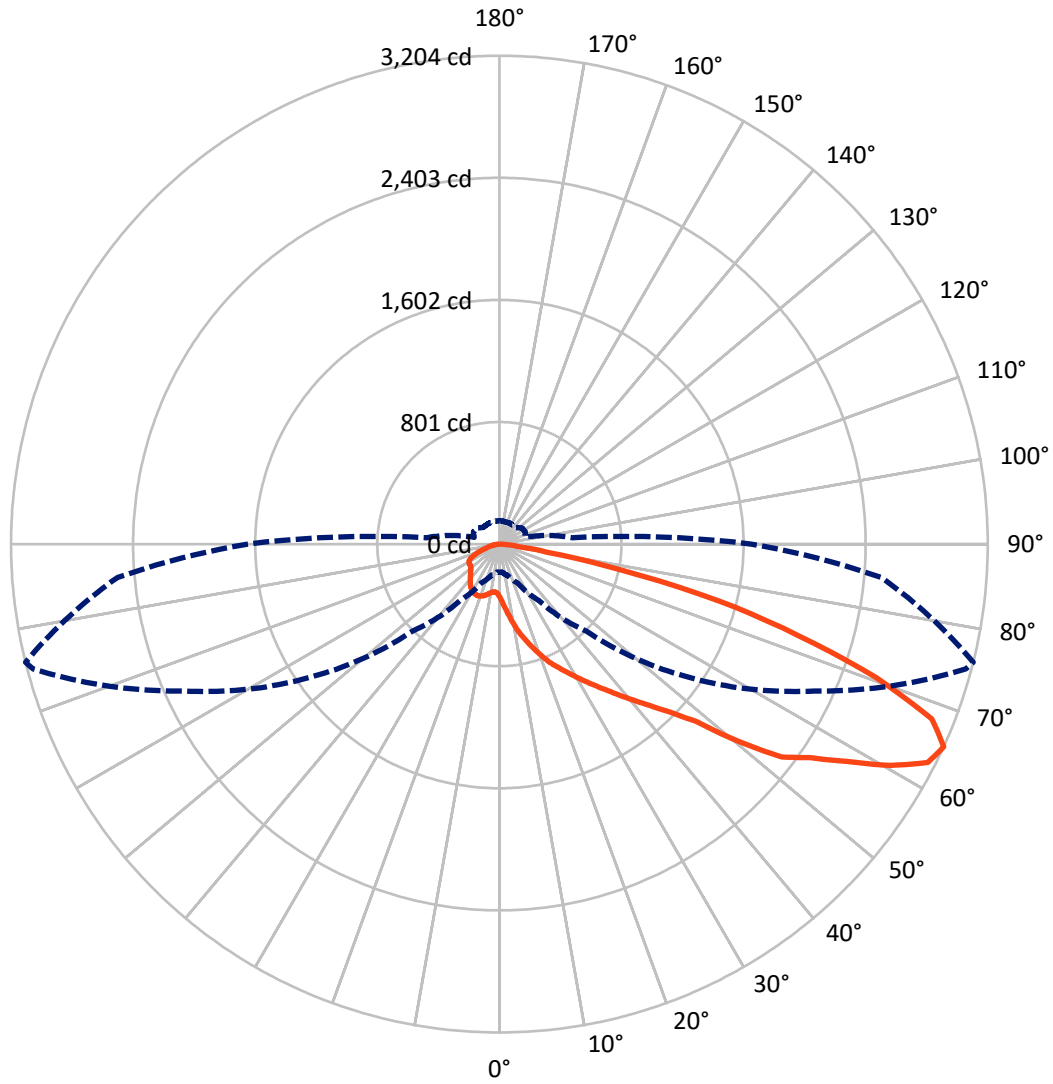
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 610.8 | 0.0 | 610.8 |
| | % Fixture | 16.7 | 0.0 | 16.7 |
| Street Side | Lumens | 3043.6 | 0.0 | 3043.6 |
| | % Fixture | 83.3 | 0.0 | 83.3 |
| Total | Lumens | 3654.5 | 0.0 | 3654.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.1 | 1.1 |
| 10°-20° | 156.6 | 4.3 |
| 20°-30° | 305.2 | 8.4 |
| 30°-40° | 510.4 | 14.0 |
| 40°-50° | 730.8 | 20.0 |
| 50°-60° | 865.2 | 23.7 |
| 60°-70° | 719.4 | 19.7 |
| 70°-80° | 294.4 | 8.1 |
| 80°-90° | 31.3 | 0.9 |
| 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° | 3654.5 | 100.0 |
| 0°-180° | 3654.5 | 100.0 |

Coefficient of Utilization



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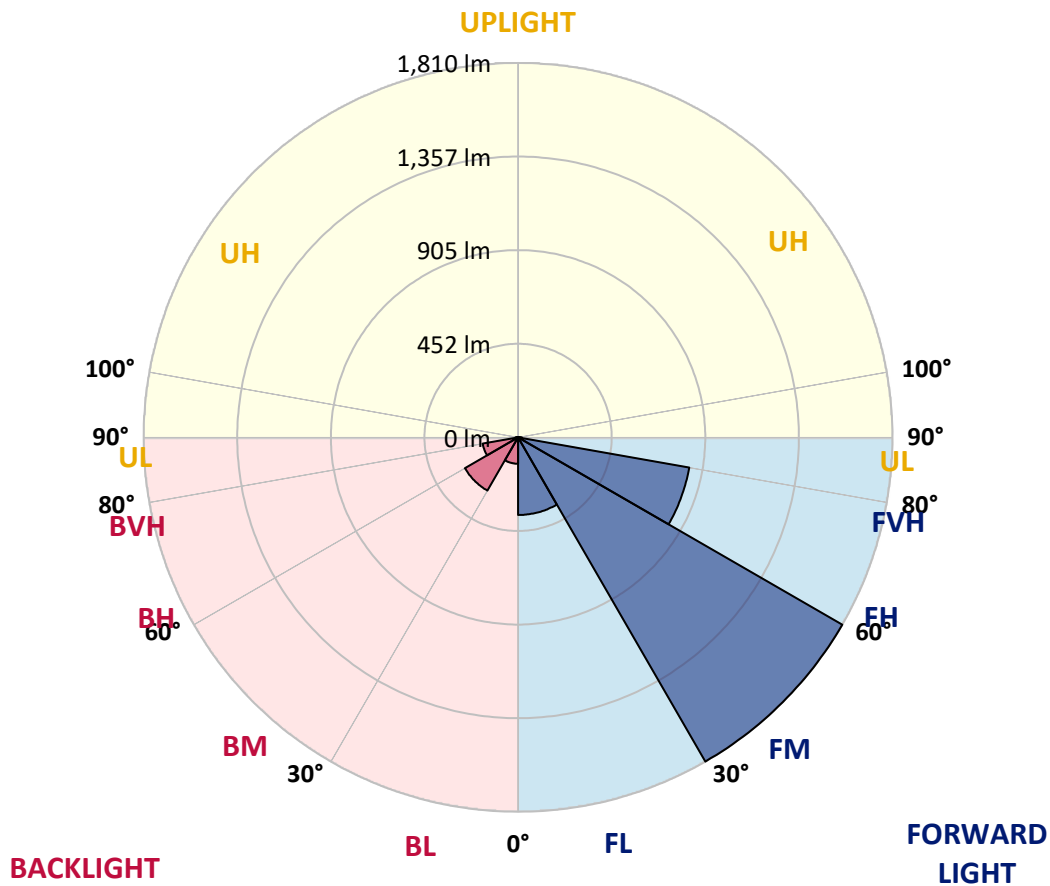
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 375.1 | 10.3 | | | |
| FM (30°-60°) | 1809.6 | 49.5 | | | |
| FH (60°-80°) | 840.3 | 23.0 | | | G1/1800 |
| FVH (80°-90°) | 18.7 | 0.5 | | | G1/100 |
| BL (0°-30°) | 127.8 | 3.5 | B1/500 | | |
| BM (30°-60°) | 296.9 | 8.1 | B1/1000 | | |
| BH (60°-80°) | 173.6 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.7 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 |
| 2.5° | 485.1 | 486.9 | 480.9 | 478.9 | 465.0 | 446.3 | 430.6 | 407.0 | 385.1 | 381.8 | 362.3 |
| 5° | 616.1 | 608.4 | 601.7 | 597.3 | 578.1 | 556.7 | 523.6 | 479.2 | 432.6 | 427.0 | 384.9 |
| 7.5° | 693.9 | 692.6 | 684.4 | 681.9 | 667.0 | 645.6 | 611.5 | 556.2 | 488.7 | 479.4 | 415.4 |
| 10° | 756.4 | 755.6 | 751.5 | 753.8 | 740.2 | 719.4 | 686.2 | 629.2 | 550.1 | 540.8 | 449.6 |
| 12.5° | 810.8 | 812.1 | 811.3 | 819.8 | 812.9 | 796.7 | 762.3 | 699.6 | 611.5 | 601.4 | 491.2 |
| 15° | 850.7 | 851.7 | 855.5 | 874.0 | 877.9 | 874.5 | 839.6 | 768.7 | 672.1 | 657.7 | 534.1 |
| 17.5° | 862.0 | 864.0 | 873.3 | 903.1 | 923.9 | 937.7 | 911.8 | 839.1 | 731.7 | 716.0 | 577.8 |
| 20° | 877.1 | 879.4 | 888.7 | 919.8 | 950.3 | 981.9 | 977.3 | 910.5 | 791.8 | 779.0 | 622.0 |
| 22.5° | 947.3 | 945.5 | 941.3 | 956.2 | 978.1 | 1017.4 | 1029.0 | 979.1 | 854.0 | 841.7 | 670.8 |
| 25° | 1082.4 | 1079.1 | 1052.8 | 1039.2 | 1032.0 | 1055.9 | 1076.5 | 1041.5 | 914.6 | 896.1 | 716.3 |
| 27.5° | 1231.4 | 1229.6 | 1196.2 | 1163.8 | 1119.6 | 1109.4 | 1121.4 | 1096.0 | 973.5 | 954.7 | 755.9 |
| 30° | 1372.5 | 1367.1 | 1332.1 | 1291.5 | 1232.4 | 1188.2 | 1170.5 | 1149.4 | 1037.9 | 1018.4 | 802.1 |
| 32.5° | 1498.6 | 1491.7 | 1450.6 | 1405.6 | 1343.7 | 1291.5 | 1238.6 | 1206.2 | 1110.9 | 1088.3 | 849.4 |
| 35° | 1602.1 | 1595.2 | 1553.1 | 1505.3 | 1437.2 | 1398.7 | 1326.2 | 1267.9 | 1185.2 | 1162.3 | 905.1 |
| 37.5° | 1682.3 | 1675.9 | 1631.9 | 1584.9 | 1525.6 | 1495.0 | 1432.1 | 1337.3 | 1270.7 | 1246.8 | 964.2 |
| 40° | 1727.3 | 1722.6 | 1687.4 | 1650.2 | 1600.3 | 1573.9 | 1545.6 | 1424.9 | 1366.5 | 1342.6 | 1033.8 |
| 42.5° | 1740.9 | 1737.8 | 1713.1 | 1693.9 | 1660.2 | 1640.2 | 1656.3 | 1527.9 | 1468.8 | 1448.0 | 1112.2 |
| 45° | 1706.7 | 1706.7 | 1699.5 | 1709.3 | 1710.8 | 1710.6 | 1767.3 | 1644.3 | 1594.4 | 1571.6 | 1222.7 |
| 47.5° | 1619.3 | 1625.0 | 1635.5 | 1683.6 | 1734.2 | 1776.6 | 1897.1 | 1799.4 | 1756.0 | 1737.3 | 1379.1 |
| 50° | 1459.5 | 1475.0 | 1510.9 | 1604.7 | 1712.4 | 1820.3 | 2019.9 | 2028.9 | 2070.2 | 2037.1 | 1609.3 |
| 52.5° | 1225.5 | 1223.2 | 1314.9 | 1448.5 | 1612.7 | 1822.1 | 2087.5 | 2231.3 | 2342.6 | 2319.7 | 1780.4 |
| 55° | 974.0 | 970.1 | 1055.7 | 1239.9 | 1459.8 | 1753.2 | 2128.0 | 2324.1 | 2493.6 | 2473.1 | 1934.3 |
| 57.5° | 745.8 | 740.9 | 817.0 | 983.2 | 1244.0 | 1607.0 | 2120.3 | 2434.5 | 2701.5 | 2691.0 | 2143.5 |
| 60° | 513.3 | 507.4 | 578.6 | 724.0 | 988.6 | 1383.5 | 2035.0 | 2491.3 | 2944.8 | 2948.4 | 2367.2 |
| 62.5° | 308.3 | 305.0 | 356.6 | 469.4 | 711.1 | 1106.5 | 1835.4 | 2456.9 | 3138.5 | 3154.7 | 2511.1 |
| 65° | 186.0 | 183.7 | 214.0 | 280.0 | 451.1 | 807.5 | 1527.6 | 2280.9 | 3166.5 | 3203.8 | 2514.4 |
| 67.5° | 135.4 | 135.7 | 144.4 | 170.6 | 263.1 | 521.5 | 1146.4 | 1965.4 | 3020.6 | 3059.1 | 2355.9 |
| 70° | 117.7 | 118.2 | 122.8 | 128.7 | 159.0 | 298.5 | 745.3 | 1551.5 | 2589.2 | 2619.0 | 1976.0 |
| 72.5° | 104.6 | 104.6 | 107.6 | 110.7 | 124.3 | 181.9 | 399.2 | 1084.4 | 2043.5 | 2051.5 | 1508.1 |
| 75° | 92.0 | 91.2 | 92.7 | 94.3 | 107.9 | 127.2 | 194.2 | 755.6 | 1509.4 | 1490.9 | 974.7 |
| 77.5° | 73.2 | 72.5 | 72.7 | 74.2 | 86.6 | 90.9 | 98.4 | 472.0 | 850.7 | 802.9 | 430.6 |
| 80° | 52.2 | 51.6 | 54.5 | 58.3 | 64.0 | 55.8 | 61.7 | 228.4 | 337.3 | 314.0 | 167.0 |
| 82.5° | 31.1 | 32.1 | 36.5 | 39.6 | 44.2 | 34.9 | 39.8 | 76.3 | 119.5 | 116.4 | 67.8 |
| 85° | 4.4 | 4.6 | 13.1 | 15.2 | 19.0 | 13.6 | 21.1 | 34.4 | 47.8 | 51.1 | 23.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 6.2 | 13.6 | 13.9 | 5.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 |
| 2.5° | 352.2 | 340.2 | 322.9 | 308.6 | 296.5 | 286.7 | 278.5 | 272.3 | 270.5 | 268.0 | 268.0 |
| 5° | 365.1 | 343.2 | 312.4 | 290.6 | 278.0 | 270.5 | 265.4 | 262.8 | 261.5 | 260.0 | 259.2 |
| 7.5° | 382.8 | 352.2 | 310.6 | 288.5 | 278.8 | 274.1 | 270.8 | 269.2 | 268.2 | 266.7 | 266.7 |
| 10° | 407.2 | 365.6 | 316.3 | 295.7 | 288.0 | 283.4 | 279.5 | 277.0 | 274.6 | 272.3 | 271.8 |
| 12.5° | 433.7 | 383.1 | 326.5 | 305.5 | 297.3 | 291.6 | 286.2 | 282.4 | 279.5 | 276.7 | 275.9 |
| 15° | 463.0 | 401.0 | 337.6 | 315.0 | 304.7 | 297.0 | 290.6 | 284.7 | 280.8 | 276.7 | 276.2 |
| 17.5° | 491.7 | 419.3 | 346.8 | 321.4 | 308.3 | 298.8 | 289.5 | 281.8 | 277.0 | 272.3 | 271.0 |
| 20° | 526.2 | 437.5 | 353.3 | 323.2 | 307.5 | 294.9 | 283.9 | 274.1 | 268.7 | 263.3 | 262.6 |
| 22.5° | 557.8 | 454.5 | 356.3 | 320.6 | 301.6 | 286.7 | 273.9 | 263.3 | 257.4 | 252.0 | 251.0 |
| 25° | 588.3 | 469.4 | 355.1 | 314.5 | 292.6 | 275.4 | 262.1 | 251.5 | 245.9 | 240.2 | 238.7 |
| 27.5° | 617.9 | 479.4 | 349.9 | 305.0 | 281.3 | 262.8 | 250.0 | 240.5 | 235.6 | 230.7 | 228.7 |
| 30° | 646.9 | 488.7 | 342.0 | 292.6 | 266.9 | 249.7 | 239.2 | 232.5 | 227.6 | 222.5 | 220.9 |
| 32.5° | 676.2 | 495.3 | 329.9 | 278.2 | 252.3 | 238.2 | 231.7 | 226.9 | 221.7 | 216.6 | 215.0 |
| 35° | 705.8 | 498.2 | 315.2 | 261.8 | 240.0 | 230.7 | 228.4 | 222.7 | 215.8 | 209.6 | 207.6 |
| 37.5° | 740.9 | 500.7 | 297.0 | 245.6 | 229.2 | 227.1 | 226.6 | 218.1 | 209.9 | 201.4 | 199.1 |
| 40° | 783.3 | 504.1 | 278.2 | 231.0 | 220.4 | 225.8 | 223.8 | 212.2 | 195.8 | 187.5 | 185.0 |
| 42.5° | 835.2 | 510.2 | 258.7 | 217.6 | 214.0 | 220.9 | 218.6 | 197.8 | 186.8 | 182.2 | 180.9 |
| 45° | 911.5 | 532.8 | 239.2 | 207.1 | 209.1 | 214.0 | 210.4 | 189.3 | 185.0 | 181.9 | 180.4 |
| 47.5° | 1047.5 | 567.5 | 222.2 | 199.1 | 205.3 | 207.8 | 194.0 | 187.0 | 183.7 | 179.6 | 177.8 |
| 50° | 1188.8 | 582.7 | 208.6 | 194.2 | 200.9 | 202.2 | 185.0 | 184.0 | 181.6 | 177.3 | 175.5 |
| 52.5° | 1284.3 | 580.6 | 200.4 | 192.4 | 197.3 | 192.4 | 180.9 | 180.6 | 179.1 | 173.9 | 171.9 |
| 55° | 1392.2 | 584.2 | 196.8 | 192.9 | 195.8 | 176.0 | 175.7 | 176.5 | 175.7 | 170.1 | 169.1 |
| 57.5° | 1537.9 | 595.3 | 195.0 | 194.7 | 194.7 | 168.0 | 170.9 | 171.9 | 170.3 | 167.8 | 167.0 |
| 60° | 1677.9 | 596.0 | 191.7 | 196.8 | 194.0 | 163.1 | 165.2 | 166.2 | 164.4 | 163.9 | 163.7 |
| 62.5° | 1730.6 | 559.1 | 184.2 | 195.3 | 190.9 | 157.7 | 159.3 | 159.8 | 158.0 | 159.3 | 159.0 |
| 65° | 1652.2 | 480.4 | 171.9 | 187.8 | 181.4 | 152.9 | 151.8 | 153.1 | 150.0 | 153.4 | 153.6 |
| 67.5° | 1467.0 | 381.8 | 153.1 | 173.7 | 168.0 | 147.5 | 145.4 | 145.4 | 140.3 | 145.4 | 145.2 |
| 70° | 1182.8 | 269.8 | 125.6 | 151.1 | 153.4 | 141.0 | 140.0 | 134.1 | 125.9 | 133.6 | 132.8 |
| 72.5° | 896.6 | 193.7 | 98.9 | 119.5 | 132.1 | 132.1 | 132.3 | 122.3 | 112.8 | 116.4 | 113.3 |
| 75° | 568.0 | 136.4 | 79.1 | 91.5 | 103.5 | 115.9 | 121.8 | 103.3 | 94.8 | 93.3 | 91.7 |
| 77.5° | 255.9 | 89.7 | 61.7 | 70.1 | 73.5 | 91.5 | 111.2 | 88.9 | 77.3 | 74.0 | 73.0 |
| 80° | 107.1 | 55.8 | 43.9 | 49.6 | 45.2 | 76.8 | 98.1 | 69.1 | 56.8 | 52.2 | 48.8 |
| 82.5° | 47.0 | 33.1 | 28.0 | 26.7 | 28.3 | 57.0 | 73.2 | 46.0 | 35.5 | 48.0 | 48.6 |
| 85° | 19.8 | 17.5 | 14.4 | 13.1 | 11.6 | 21.8 | 34.4 | 18.0 | 22.1 | 12.6 | 10.3 |
| 87.5° | 4.6 | 5.1 | 3.9 | 2.6 | 1.5 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)