

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: P630627

Luminaire Tested: GWS-SA1E-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-722-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3741.6 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

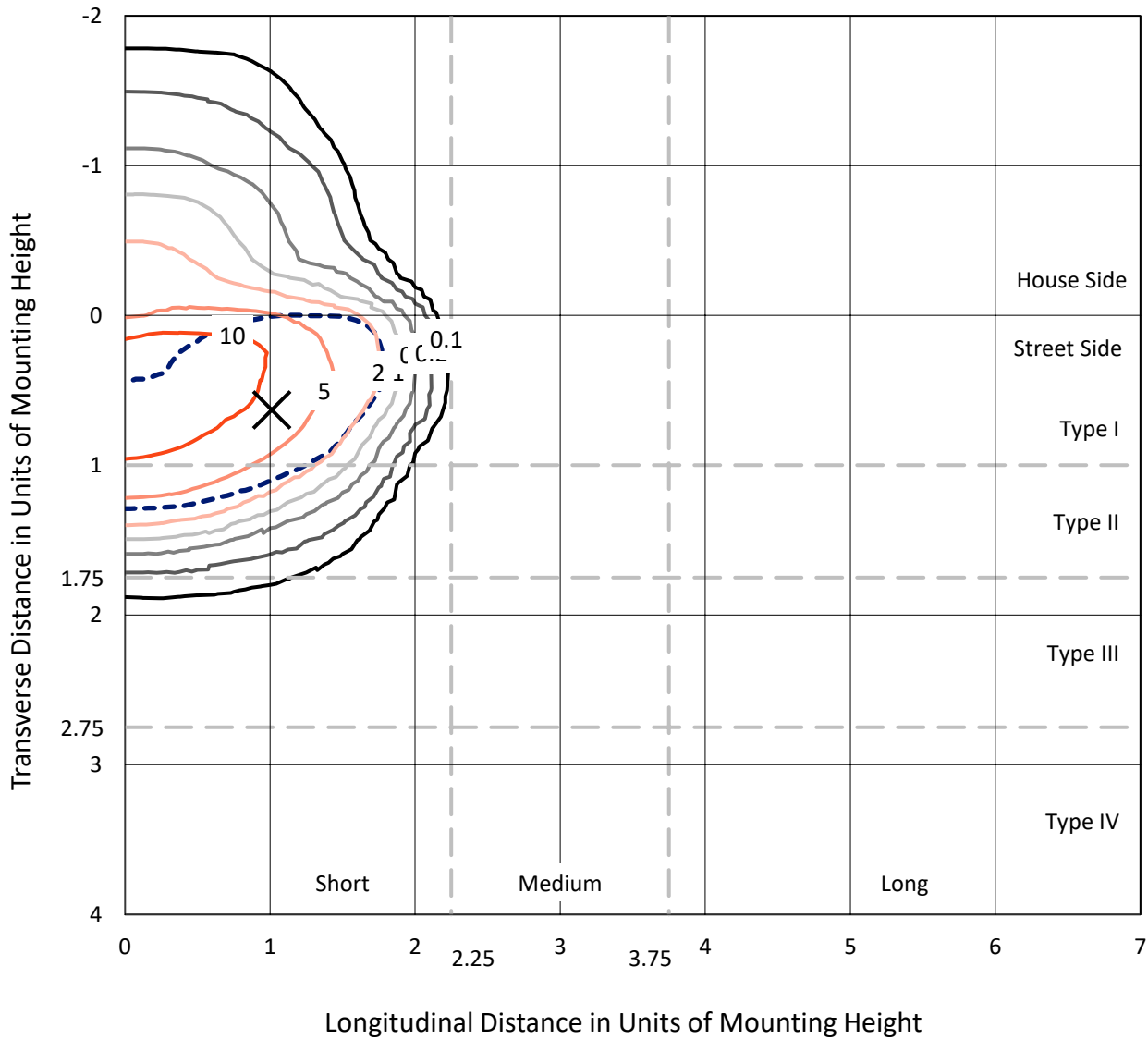
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

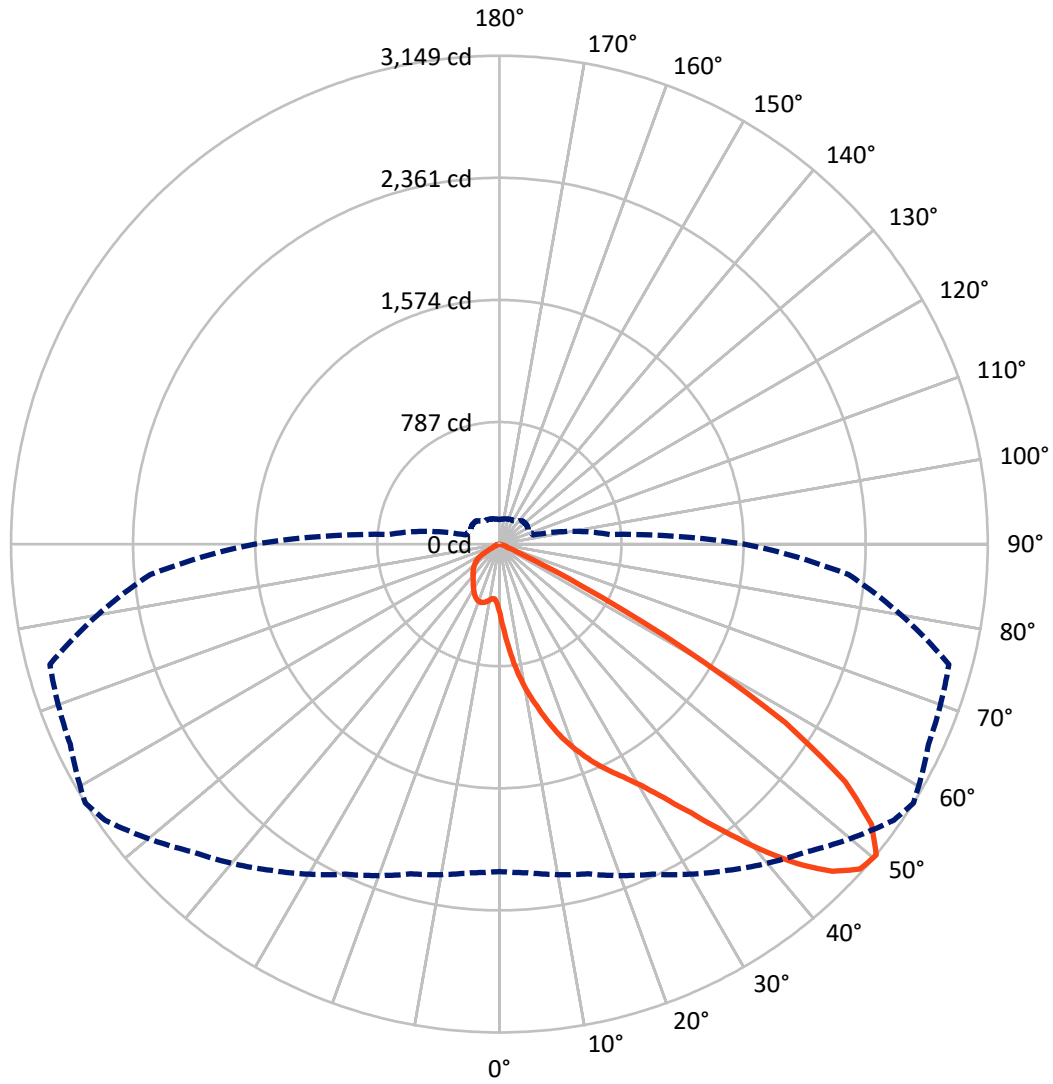
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 524.1 | 0.0 | 524.1 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 3217.5 | 0.0 | 3217.5 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 3741.6 | 0.0 | 3741.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.4 | 1.5 |
| 10°-20° | 219.2 | 5.9 |
| 20°-30° | 443.5 | 11.9 |
| 30°-40° | 784.7 | 21.0 |
| 40°-50° | 1143.9 | 30.6 |
| 50°-60° | 916.8 | 24.5 |
| 60°-70° | 165.2 | 4.4 |
| 70°-80° | 13.0 | 0.3 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 3741.6 | 100.0 |
| 0°-180° | 3741.6 | 100.0 |

Coefficient of Utilization



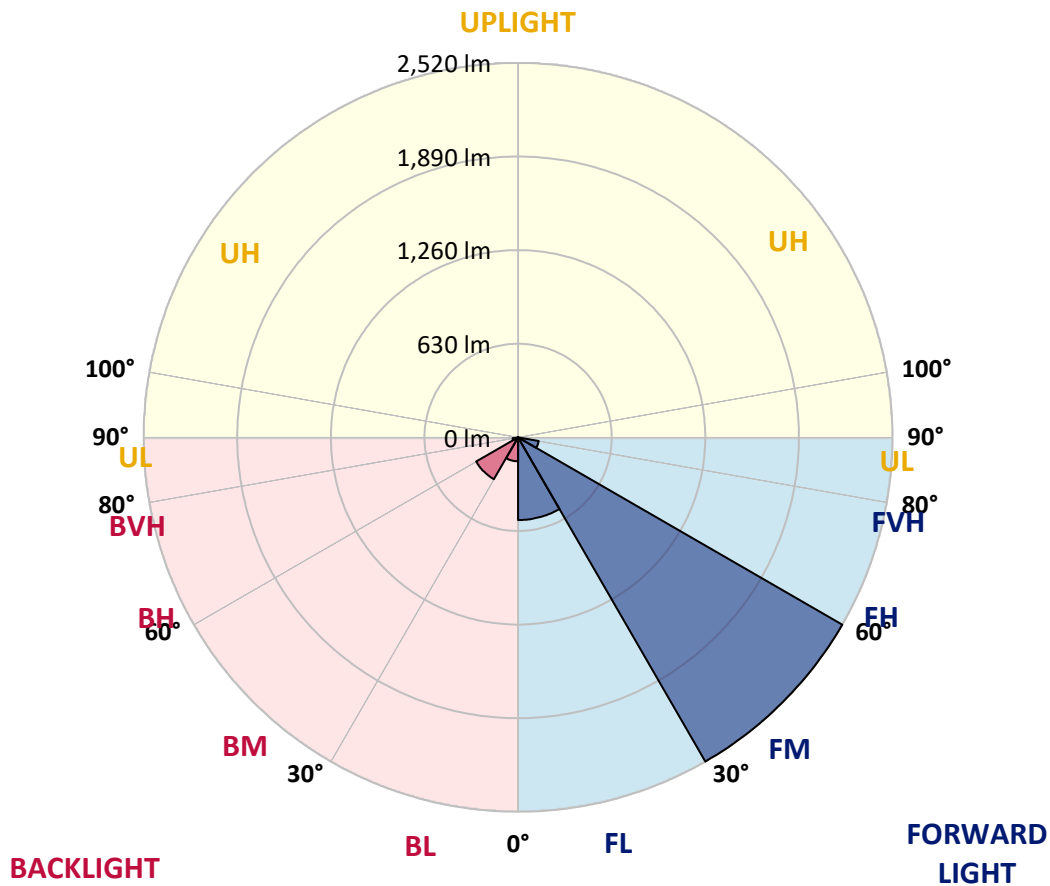
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 556.7 | 14.9 | | | |
| FM (30°-60°) | 2519.9 | 67.3 | | | |
| FH (60°-80°) | 140.9 | 3.8 | | | G0/660 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 161.3 | 4.3 | B1/500 | | |
| BM (30°-60°) | 325.5 | 8.7 | B1/1000 | | |
| BH (60°-80°) | 37.2 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 |
| 2.5° | 661.4 | 651.0 | 645.0 | 640.2 | 619.0 | 585.4 | 563.4 | 551.8 | 532.6 | 500.1 | 472.1 |
| 5° | 863.0 | 855.4 | 841.4 | 831.8 | 804.6 | 757.0 | 707.8 | 688.2 | 644.6 | 571.4 | 505.7 |
| 7.5° | 996.7 | 991.1 | 985.9 | 973.1 | 947.5 | 904.3 | 849.8 | 829.4 | 762.2 | 658.2 | 550.6 |
| 10° | 1099.5 | 1095.1 | 1089.1 | 1088.7 | 1068.7 | 1029.9 | 976.7 | 955.5 | 882.7 | 752.6 | 603.4 |
| 12.5° | 1189.9 | 1186.3 | 1185.1 | 1196.3 | 1183.5 | 1154.7 | 1097.1 | 1070.7 | 993.5 | 849.0 | 661.8 |
| 15° | 1252.0 | 1251.2 | 1256.4 | 1278.4 | 1285.6 | 1272.4 | 1223.9 | 1195.5 | 1106.7 | 945.9 | 726.2 |
| 17.5° | 1280.4 | 1282.8 | 1292.8 | 1330.8 | 1362.8 | 1374.0 | 1336.8 | 1312.8 | 1219.1 | 1043.9 | 795.0 |
| 20° | 1328.8 | 1328.0 | 1334.0 | 1370.0 | 1409.2 | 1449.2 | 1438.0 | 1417.6 | 1332.8 | 1147.5 | 871.4 |
| 22.5° | 1465.2 | 1453.6 | 1440.8 | 1446.4 | 1460.4 | 1507.2 | 1528.0 | 1517.6 | 1450.0 | 1254.0 | 950.3 |
| 25° | 1674.9 | 1662.9 | 1621.7 | 1581.7 | 1555.2 | 1576.5 | 1604.9 | 1610.1 | 1566.4 | 1363.2 | 1032.7 |
| 27.5° | 1897.3 | 1886.5 | 1840.1 | 1780.1 | 1704.5 | 1667.7 | 1688.9 | 1699.3 | 1680.9 | 1493.2 | 1120.3 |
| 30° | 2105.8 | 2091.4 | 2040.6 | 1966.2 | 1878.5 | 1822.1 | 1798.1 | 1805.3 | 1816.1 | 1647.3 | 1223.1 |
| 32.5° | 2286.7 | 2275.9 | 2215.0 | 2136.6 | 2052.2 | 1993.4 | 1937.4 | 1949.4 | 1975.8 | 1835.7 | 1354.8 |
| 35° | 2439.9 | 2434.3 | 2369.9 | 2291.9 | 2202.6 | 2172.6 | 2124.6 | 2127.0 | 2153.4 | 2063.4 | 1515.2 |
| 37.5° | 2573.1 | 2563.5 | 2505.1 | 2432.7 | 2361.9 | 2357.1 | 2343.9 | 2345.1 | 2358.7 | 2328.7 | 1699.7 |
| 40° | 2657.2 | 2648.4 | 2606.7 | 2561.9 | 2511.5 | 2512.3 | 2580.7 | 2585.9 | 2570.3 | 2589.1 | 1894.5 |
| 42.5° | 2688.8 | 2682.4 | 2660.0 | 2660.4 | 2655.2 | 2678.8 | 2807.2 | 2816.8 | 2760.8 | 2793.6 | 2061.0 |
| 45° | 2634.0 | 2631.2 | 2632.8 | 2690.4 | 2752.8 | 2825.6 | 2992.5 | 3009.3 | 2930.0 | 2929.2 | 2191.0 |
| 47.5° | 2457.1 | 2451.5 | 2498.3 | 2596.3 | 2740.8 | 2882.4 | 3104.5 | 3130.5 | 3048.5 | 3006.9 | 2272.6 |
| 50° | 2110.6 | 2126.6 | 2200.6 | 2347.9 | 2567.5 | 2804.4 | 3103.3 | 3148.5 | 3052.9 | 3000.1 | 2259.0 |
| 52.5° | 1528.8 | 1525.6 | 1687.7 | 1890.1 | 2157.4 | 2554.7 | 2938.4 | 3004.5 | 2946.0 | 2933.2 | 2228.6 |
| 55° | 831.8 | 861.0 | 970.3 | 1238.4 | 1572.0 | 2082.2 | 2561.9 | 2706.0 | 2773.6 | 2908.8 | 2283.5 |
| 57.5° | 305.7 | 318.5 | 386.9 | 576.6 | 832.2 | 1294.8 | 1957.0 | 2174.2 | 2383.1 | 2840.8 | 2274.2 |
| 60° | 123.2 | 125.6 | 152.8 | 212.1 | 349.7 | 659.0 | 1173.9 | 1366.8 | 1563.6 | 2174.6 | 1745.3 |
| 62.5° | 89.6 | 92.8 | 103.6 | 124.0 | 176.9 | 288.1 | 506.1 | 588.6 | 643.4 | 1077.1 | 859.8 |
| 65° | 72.4 | 74.8 | 83.6 | 92.8 | 116.8 | 154.8 | 163.2 | 157.2 | 156.4 | 278.5 | 197.3 |
| 67.5° | 60.0 | 62.4 | 68.8 | 75.2 | 84.0 | 77.2 | 56.0 | 58.8 | 48.0 | 47.6 | 38.8 |
| 70° | 44.0 | 46.8 | 53.2 | 60.0 | 50.4 | 20.8 | 32.4 | 48.0 | 36.4 | 30.4 | 29.6 |
| 72.5° | 33.2 | 35.2 | 41.2 | 39.2 | 14.8 | 8.0 | 21.6 | 34.8 | 28.0 | 22.4 | 22.0 |
| 75° | 24.8 | 26.0 | 20.8 | 6.4 | 1.6 | 2.0 | 8.0 | 14.4 | 15.6 | 12.8 | 12.8 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.2 | 1.6 | 2.0 | 2.4 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 |
| 2.5° | 456.1 | 439.3 | 415.3 | 395.3 | 380.1 | 365.3 | 354.1 | 342.9 | 342.5 | 336.9 | 335.7 |
| 5° | 475.3 | 444.9 | 400.9 | 369.3 | 350.1 | 338.5 | 330.5 | 326.5 | 324.5 | 322.5 | 321.7 |
| 7.5° | 502.9 | 459.3 | 398.5 | 364.9 | 348.9 | 341.3 | 335.7 | 333.3 | 332.1 | 330.5 | 330.1 |
| 10° | 537.0 | 480.1 | 407.3 | 373.3 | 359.3 | 352.1 | 346.1 | 342.5 | 340.5 | 337.7 | 336.9 |
| 12.5° | 577.8 | 505.7 | 421.3 | 387.3 | 372.5 | 362.9 | 354.9 | 349.7 | 346.9 | 343.3 | 342.5 |
| 15° | 621.8 | 533.4 | 436.9 | 400.1 | 382.5 | 370.1 | 360.1 | 352.1 | 346.9 | 342.5 | 341.3 |
| 17.5° | 667.4 | 561.4 | 450.9 | 408.9 | 387.3 | 372.5 | 358.1 | 347.3 | 340.9 | 335.3 | 333.7 |
| 20° | 718.6 | 590.2 | 460.1 | 410.5 | 385.7 | 366.1 | 349.3 | 335.7 | 329.3 | 321.7 | 320.1 |
| 22.5° | 772.2 | 617.0 | 464.1 | 406.9 | 376.9 | 354.1 | 336.1 | 322.1 | 312.9 | 304.9 | 302.5 |
| 25° | 824.2 | 641.0 | 462.1 | 396.9 | 363.7 | 337.3 | 318.9 | 304.5 | 294.5 | 286.5 | 284.5 |
| 27.5° | 879.5 | 661.0 | 454.9 | 382.1 | 345.7 | 318.9 | 301.3 | 288.9 | 279.7 | 270.9 | 268.9 |
| 30° | 941.5 | 679.4 | 443.3 | 364.1 | 324.5 | 300.1 | 286.5 | 278.1 | 268.1 | 258.9 | 256.1 |
| 32.5° | 1016.3 | 695.8 | 426.5 | 342.5 | 305.7 | 283.7 | 276.1 | 269.7 | 258.1 | 248.5 | 246.5 |
| 35° | 1101.9 | 709.4 | 405.3 | 320.1 | 287.3 | 273.3 | 271.7 | 263.3 | 248.1 | 236.9 | 234.5 |
| 37.5° | 1201.1 | 722.6 | 380.1 | 298.1 | 273.7 | 268.5 | 268.9 | 254.5 | 236.1 | 222.5 | 220.9 |
| 40° | 1308.0 | 735.8 | 352.1 | 278.9 | 261.3 | 265.7 | 262.1 | 241.7 | 211.7 | 198.5 | 196.9 |
| 42.5° | 1419.2 | 750.2 | 323.7 | 260.9 | 250.9 | 254.9 | 249.7 | 216.1 | 194.5 | 187.7 | 186.9 |
| 45° | 1519.6 | 767.4 | 292.9 | 242.9 | 240.5 | 239.3 | 230.5 | 195.7 | 186.5 | 181.7 | 181.3 |
| 47.5° | 1592.1 | 764.6 | 260.1 | 225.7 | 229.3 | 225.3 | 198.5 | 186.1 | 178.5 | 172.0 | 170.4 |
| 50° | 1578.9 | 715.8 | 226.1 | 206.5 | 214.9 | 211.3 | 178.5 | 174.8 | 168.0 | 161.2 | 158.8 |
| 52.5° | 1545.2 | 649.4 | 196.5 | 186.1 | 199.3 | 190.9 | 164.8 | 161.2 | 155.2 | 146.4 | 143.6 |
| 55° | 1563.2 | 587.0 | 173.2 | 169.6 | 183.3 | 158.0 | 149.6 | 144.0 | 137.6 | 128.0 | 126.8 |
| 57.5° | 1505.2 | 478.9 | 139.2 | 141.6 | 162.0 | 134.8 | 131.2 | 122.4 | 111.6 | 105.2 | 104.4 |
| 60° | 1041.9 | 257.3 | 87.2 | 90.0 | 117.2 | 113.2 | 117.6 | 109.6 | 96.4 | 90.4 | 89.2 |
| 62.5° | 478.5 | 103.2 | 47.6 | 45.6 | 61.6 | 76.8 | 100.8 | 100.0 | 83.6 | 74.0 | 73.2 |
| 65° | 116.0 | 47.2 | 34.0 | 32.0 | 34.8 | 46.0 | 65.6 | 78.8 | 67.6 | 56.4 | 55.2 |
| 67.5° | 37.6 | 38.4 | 31.2 | 29.2 | 30.8 | 34.4 | 39.2 | 43.6 | 43.2 | 39.6 | 38.8 |
| 70° | 30.0 | 34.8 | 28.8 | 26.4 | 26.4 | 27.6 | 26.4 | 21.2 | 18.4 | 20.0 | 20.8 |
| 72.5° | 22.4 | 26.4 | 22.8 | 20.4 | 19.6 | 19.2 | 16.4 | 12.0 | 8.4 | 7.6 | 7.2 |
| 75° | 13.2 | 14.8 | 14.0 | 12.0 | 11.2 | 10.0 | 8.0 | 5.2 | 2.8 | 2.0 | 1.2 |
| 77.5° | 2.4 | 2.8 | 3.2 | 2.4 | 2.0 | 1.6 | 1.2 | 0.4 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)