

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: P629775

Luminaire Tested: GWS-SA1C-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4300.8 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

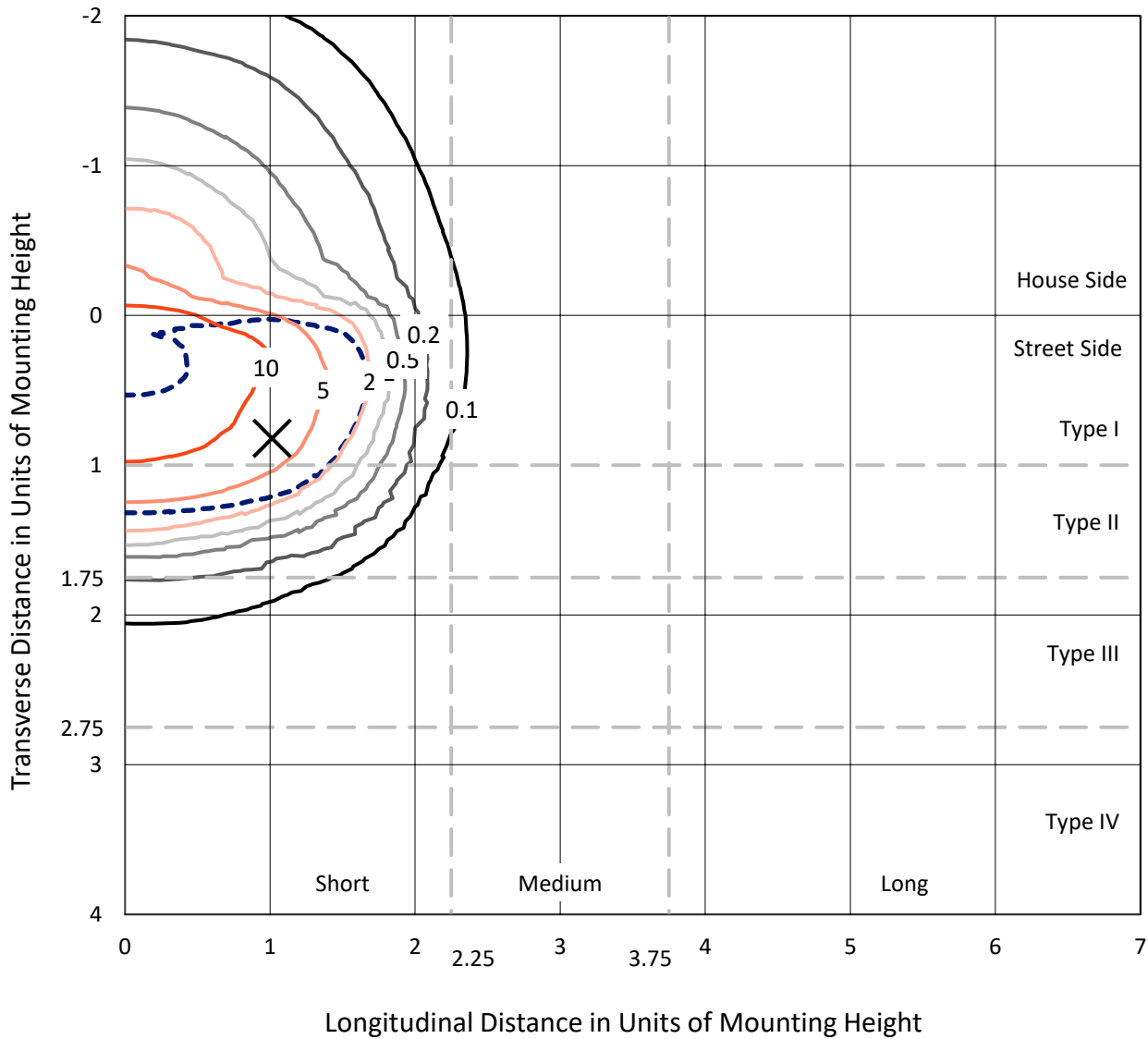
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

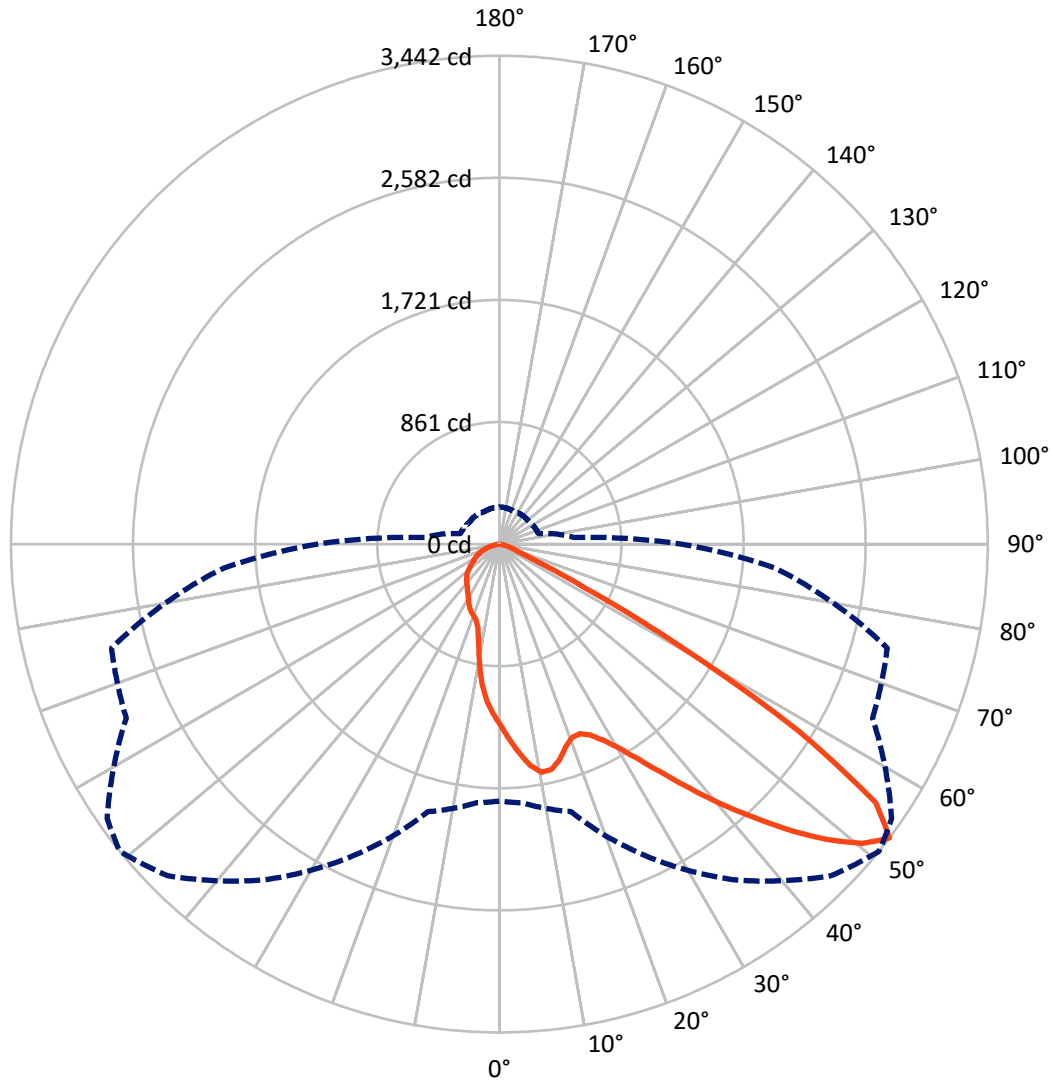
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 838.0 | 0.0 | 838.0 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 3462.8 | 0.0 | 3462.8 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 4300.8 | 0.0 | 4300.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 119.5 | 2.8 |
| 10°-20° | 310.5 | 7.2 |
| 20°-30° | 504.8 | 11.7 |
| 30°-40° | 800.1 | 18.6 |
| 40°-50° | 1206.7 | 28.1 |
| 50°-60° | 1043.8 | 24.3 |
| 60°-70° | 236.7 | 5.5 |
| 70°-80° | 69.8 | 1.6 |
| 80°-90° | 9.0 | 0.2 |
| 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° | 4300.8 | 100.0 |
| 0°-180° | 4300.8 | 100.0 |

Coefficient of Utilization



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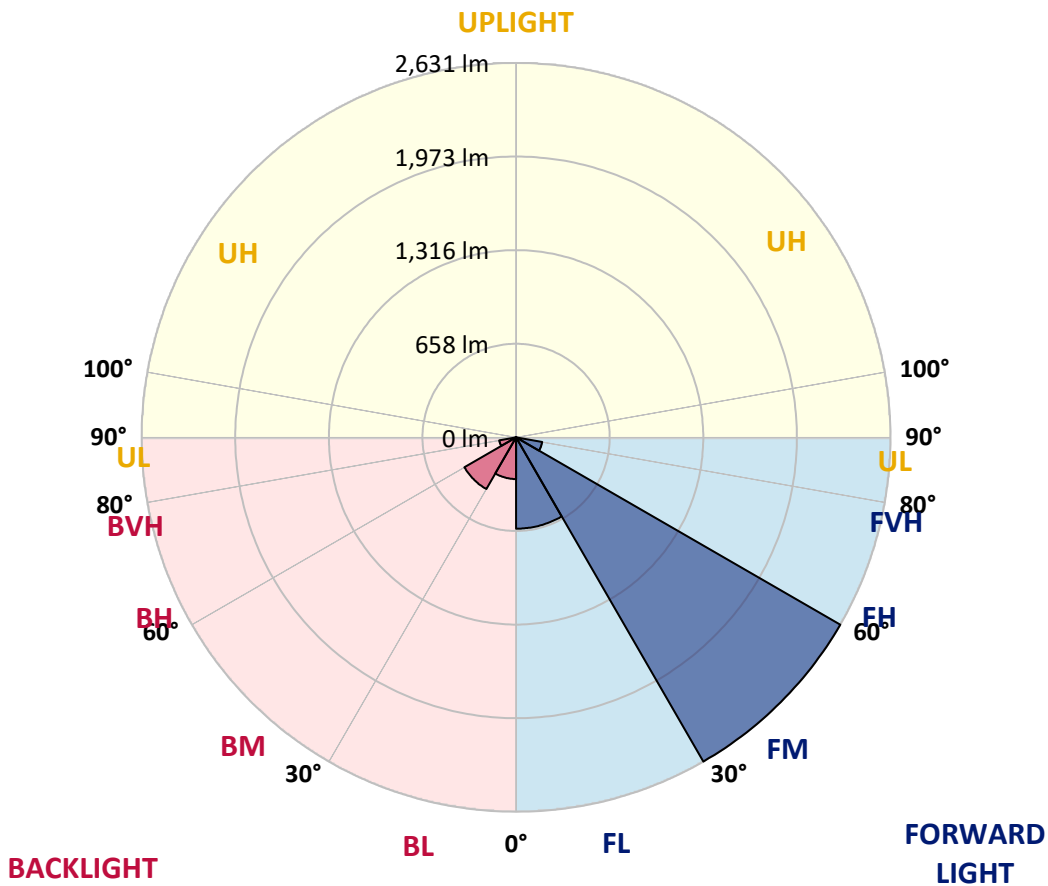
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 641.9 | 14.9 | | | |
| FM (30°-60°) | 2631.3 | 61.2 | | | |
| FH (60°-80°) | 186.2 | 4.3 | | | G0/660 |
| FVH (80°-90°) | 3.4 | 0.1 | | | G0/10 |
| BL (0°-30°) | 292.9 | 6.8 | B1/500 | | |
| BM (30°-60°) | 419.3 | 9.7 | B1/1000 | | |
| BH (60°-80°) | 120.2 | 2.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.6 | 0.1 | | | G0/10 |
| 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° | 51° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 |
| 2.5° | 1427.0 | 1435.2 | 1422.6 | 1417.9 | 1410.0 | 1396.5 | 1380.8 | 1376.4 | 1342.8 | 1320.7 | 1295.9 |
| 5° | 1570.5 | 1574.9 | 1564.7 | 1554.5 | 1535.1 | 1511.0 | 1480.7 | 1474.3 | 1413.1 | 1362.5 | 1309.8 |
| 7.5° | 1602.4 | 1600.7 | 1609.5 | 1615.3 | 1612.9 | 1603.4 | 1576.6 | 1564.0 | 1490.9 | 1410.7 | 1332.9 |
| 10° | 1476.0 | 1466.5 | 1499.1 | 1537.8 | 1584.4 | 1638.1 | 1635.0 | 1634.0 | 1570.5 | 1475.6 | 1362.5 |
| 12.5° | 1308.4 | 1303.7 | 1330.2 | 1378.8 | 1466.8 | 1585.7 | 1630.3 | 1664.9 | 1642.2 | 1537.5 | 1395.4 |
| 15° | 1212.6 | 1210.9 | 1228.9 | 1263.9 | 1333.9 | 1484.1 | 1579.3 | 1647.9 | 1703.7 | 1603.8 | 1430.4 |
| 17.5° | 1195.3 | 1196.3 | 1202.4 | 1222.4 | 1272.7 | 1396.5 | 1506.6 | 1602.4 | 1751.6 | 1676.5 | 1474.3 |
| 20° | 1245.9 | 1252.7 | 1242.2 | 1245.2 | 1272.4 | 1364.8 | 1456.9 | 1556.5 | 1782.2 | 1749.6 | 1521.5 |
| 22.5° | 1358.4 | 1356.0 | 1332.9 | 1319.3 | 1319.6 | 1384.2 | 1451.5 | 1535.1 | 1802.2 | 1820.6 | 1564.3 |
| 25° | 1485.8 | 1483.1 | 1455.6 | 1425.3 | 1406.3 | 1436.9 | 1490.6 | 1557.9 | 1820.2 | 1885.5 | 1598.7 |
| 27.5° | 1636.4 | 1627.9 | 1597.3 | 1558.6 | 1516.4 | 1529.7 | 1566.0 | 1619.4 | 1848.1 | 1949.4 | 1621.4 |
| 30° | 1782.2 | 1792.0 | 1748.2 | 1702.3 | 1657.8 | 1649.6 | 1670.7 | 1719.0 | 1904.9 | 2024.2 | 1648.6 |
| 32.5° | 1975.6 | 1972.2 | 1923.6 | 1863.7 | 1800.2 | 1794.1 | 1810.7 | 1854.9 | 2006.8 | 2127.5 | 1690.1 |
| 35° | 2209.7 | 2210.4 | 2141.4 | 2060.5 | 1970.1 | 1953.8 | 1981.7 | 2024.5 | 2158.7 | 2267.5 | 1755.7 |
| 37.5° | 2453.1 | 2452.0 | 2391.9 | 2300.1 | 2176.8 | 2153.6 | 2185.6 | 2217.5 | 2348.7 | 2458.2 | 1857.6 |
| 40° | 2623.7 | 2630.5 | 2602.2 | 2554.0 | 2437.1 | 2380.7 | 2408.9 | 2431.0 | 2555.3 | 2682.5 | 1991.9 |
| 42.5° | 2720.5 | 2730.7 | 2736.8 | 2765.7 | 2704.2 | 2644.0 | 2633.9 | 2645.4 | 2739.9 | 2890.8 | 2118.0 |
| 45° | 2741.2 | 2754.8 | 2799.4 | 2906.4 | 2930.2 | 2913.2 | 2879.9 | 2852.0 | 2877.5 | 3038.6 | 2200.5 |
| 47.5° | 2649.8 | 2673.6 | 2768.8 | 2956.0 | 3095.0 | 3148.4 | 3111.3 | 3068.9 | 2957.1 | 3076.7 | 2192.0 |
| 50° | 2287.5 | 2315.4 | 2529.9 | 2854.8 | 3118.5 | 3312.9 | 3316.3 | 3253.4 | 2947.5 | 2966.9 | 2085.3 |
| 52.5° | 1811.1 | 1830.1 | 1952.8 | 2420.1 | 2888.4 | 3306.1 | 3442.0 | 3374.7 | 2901.7 | 2829.6 | 1951.8 |
| 55° | 1082.4 | 1113.0 | 1227.5 | 1596.6 | 2250.2 | 2930.2 | 3219.8 | 3252.4 | 2879.2 | 2714.4 | 1860.7 |
| 57.5° | 365.3 | 380.3 | 489.7 | 705.2 | 1326.1 | 2145.5 | 2487.7 | 2620.3 | 2613.8 | 2538.4 | 1682.9 |
| 60° | 174.0 | 177.4 | 199.5 | 267.5 | 530.8 | 1121.2 | 1472.6 | 1625.5 | 1764.9 | 1778.8 | 1047.1 |
| 62.5° | 132.5 | 134.6 | 145.8 | 160.4 | 213.4 | 472.4 | 674.9 | 791.9 | 845.9 | 725.9 | 381.3 |
| 65° | 110.8 | 112.5 | 121.0 | 130.2 | 145.1 | 204.6 | 259.0 | 298.7 | 269.2 | 209.7 | 181.8 |
| 67.5° | 92.4 | 93.8 | 100.3 | 110.1 | 120.3 | 137.0 | 143.8 | 147.8 | 155.0 | 174.0 | 167.2 |
| 70° | 72.4 | 73.7 | 80.5 | 89.0 | 98.9 | 103.0 | 109.4 | 113.5 | 127.8 | 152.3 | 151.6 |
| 72.5° | 55.7 | 57.4 | 61.2 | 66.6 | 74.8 | 78.8 | 86.0 | 90.7 | 98.9 | 118.6 | 126.8 |
| 75° | 40.8 | 41.8 | 45.2 | 46.9 | 47.9 | 46.9 | 54.0 | 59.5 | 70.3 | 77.8 | 79.9 |
| 77.5° | 16.7 | 18.7 | 18.0 | 18.0 | 21.4 | 25.8 | 29.6 | 33.0 | 40.4 | 44.9 | 45.2 |
| 80° | 6.8 | 7.5 | 8.8 | 9.9 | 11.9 | 15.3 | 17.7 | 19.0 | 22.4 | 25.1 | 27.2 |
| 82.5° | 4.1 | 4.4 | 5.1 | 5.4 | 6.8 | 8.8 | 10.2 | 11.2 | 13.9 | 16.7 | 17.7 |
| 85° | 2.0 | 2.0 | 2.4 | 2.7 | 3.4 | 4.1 | 4.8 | 5.4 | 7.1 | 8.8 | 9.9 |
| 87.5° | 0.3 | 0.3 | 0.3 | 0.7 | 1.0 | 1.4 | 1.7 | 2.0 | 2.4 | 2.7 | 3.4 |
| 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° | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 | 1280.6 |
| 2.5° | 1281.2 | 1262.9 | 1241.5 | 1224.5 | 1204.8 | 1190.2 | 1169.4 | 1156.5 | 1144.3 | 1134.1 | 1126.6 |
| 5° | 1282.6 | 1251.7 | 1207.2 | 1167.7 | 1126.9 | 1088.2 | 1048.4 | 1016.2 | 987.3 | 963.1 | 961.1 |
| 7.5° | 1290.4 | 1245.9 | 1176.2 | 1107.2 | 1027.7 | 950.9 | 874.1 | 811.6 | 764.0 | 739.2 | 734.1 |
| 10° | 1303.7 | 1245.2 | 1144.6 | 1034.5 | 898.9 | 775.2 | 684.1 | 636.5 | 609.0 | 599.2 | 595.8 |
| 12.5° | 1317.6 | 1243.5 | 1104.2 | 931.9 | 743.6 | 635.2 | 585.2 | 579.4 | 584.5 | 585.2 | 584.9 |
| 15° | 1334.6 | 1242.5 | 1053.2 | 811.6 | 630.1 | 570.3 | 573.7 | 585.9 | 597.8 | 600.5 | 600.5 |
| 17.5° | 1355.3 | 1240.1 | 983.9 | 694.0 | 559.1 | 557.7 | 575.7 | 592.0 | 603.2 | 605.3 | 605.3 |
| 20° | 1377.1 | 1234.0 | 898.6 | 598.1 | 530.2 | 549.9 | 569.3 | 581.8 | 589.6 | 592.4 | 592.7 |
| 22.5° | 1392.0 | 1217.7 | 800.4 | 527.1 | 512.2 | 534.9 | 548.9 | 561.8 | 561.8 | 555.0 | 552.9 |
| 25° | 1395.1 | 1182.7 | 694.0 | 478.5 | 490.7 | 511.8 | 526.1 | 518.6 | 504.7 | 499.2 | 498.9 |
| 27.5° | 1383.9 | 1131.7 | 589.0 | 443.8 | 464.9 | 486.0 | 483.6 | 472.7 | 466.6 | 461.2 | 463.2 |
| 30° | 1370.3 | 1070.5 | 497.9 | 415.3 | 435.0 | 455.7 | 447.6 | 443.8 | 439.4 | 433.3 | 434.7 |
| 32.5° | 1361.1 | 1002.2 | 427.9 | 393.2 | 415.0 | 418.4 | 424.1 | 423.8 | 419.7 | 408.2 | 407.5 |
| 35° | 1363.8 | 933.2 | 381.0 | 375.2 | 398.3 | 396.9 | 407.8 | 405.8 | 377.6 | 361.6 | 360.6 |
| 37.5° | 1385.6 | 867.0 | 353.4 | 360.9 | 371.8 | 380.3 | 389.8 | 365.3 | 355.5 | 345.3 | 346.0 |
| 40° | 1427.0 | 805.4 | 338.5 | 353.1 | 355.8 | 368.4 | 346.3 | 346.0 | 341.6 | 332.4 | 332.0 |
| 42.5° | 1473.9 | 753.5 | 328.3 | 349.4 | 345.6 | 348.0 | 324.6 | 327.3 | 326.9 | 321.2 | 319.5 |
| 45° | 1502.5 | 705.5 | 320.1 | 335.4 | 336.5 | 312.7 | 305.5 | 308.6 | 310.3 | 307.2 | 306.9 |
| 47.5° | 1472.9 | 650.5 | 311.6 | 314.0 | 322.9 | 296.7 | 287.9 | 288.2 | 291.3 | 291.6 | 290.2 |
| 50° | 1390.0 | 589.0 | 301.4 | 295.7 | 289.9 | 280.0 | 271.9 | 270.2 | 273.2 | 276.3 | 277.3 |
| 52.5° | 1282.9 | 530.2 | 284.5 | 275.6 | 262.0 | 262.0 | 258.3 | 252.8 | 256.9 | 261.0 | 262.4 |
| 55° | 1204.4 | 486.7 | 260.3 | 250.5 | 235.5 | 240.6 | 239.9 | 235.2 | 240.6 | 243.7 | 244.7 |
| 57.5° | 1043.7 | 391.2 | 229.1 | 226.0 | 213.4 | 219.5 | 220.9 | 214.8 | 212.1 | 212.7 | 213.8 |
| 60° | 619.6 | 252.5 | 206.6 | 206.3 | 195.1 | 202.2 | 206.3 | 200.2 | 192.0 | 193.0 | 194.4 |
| 62.5° | 278.0 | 193.0 | 178.4 | 177.1 | 176.7 | 185.9 | 190.3 | 184.5 | 173.0 | 174.0 | 175.4 |
| 65° | 175.0 | 166.9 | 155.0 | 155.0 | 160.4 | 168.2 | 171.6 | 166.9 | 153.6 | 151.9 | 153.3 |
| 67.5° | 162.4 | 155.3 | 143.1 | 140.7 | 143.4 | 149.9 | 150.2 | 141.0 | 133.2 | 131.9 | 131.9 |
| 70° | 145.8 | 140.4 | 128.5 | 123.7 | 122.7 | 122.3 | 121.3 | 118.9 | 113.9 | 112.5 | 113.2 |
| 72.5° | 120.6 | 116.9 | 109.4 | 104.3 | 101.6 | 101.3 | 97.2 | 95.2 | 90.7 | 90.1 | 89.7 |
| 75° | 79.9 | 80.9 | 80.9 | 80.2 | 77.8 | 76.8 | 72.4 | 70.3 | 65.3 | 63.2 | 62.9 |
| 77.5° | 47.2 | 48.3 | 49.6 | 50.0 | 49.6 | 49.6 | 45.5 | 43.2 | 38.1 | 35.3 | 34.7 |
| 80° | 28.9 | 29.6 | 30.2 | 31.3 | 29.9 | 28.9 | 25.1 | 22.8 | 20.4 | 18.7 | 18.4 |
| 82.5° | 18.7 | 19.4 | 19.7 | 20.4 | 19.7 | 18.4 | 15.3 | 13.9 | 12.2 | 10.9 | 10.5 |
| 85° | 10.5 | 10.9 | 11.6 | 11.6 | 10.5 | 9.5 | 7.8 | 6.8 | 5.8 | 5.1 | 5.1 |
| 87.5° | 3.7 | 3.7 | 3.7 | 4.1 | 3.4 | 3.1 | 2.0 | 1.4 | 1.0 | 1.0 | 1.0 |
| 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)