

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: P630402

Luminaire Tested: GWS-SA1D-750-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-750-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6191.4 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B2 - U0 - G2

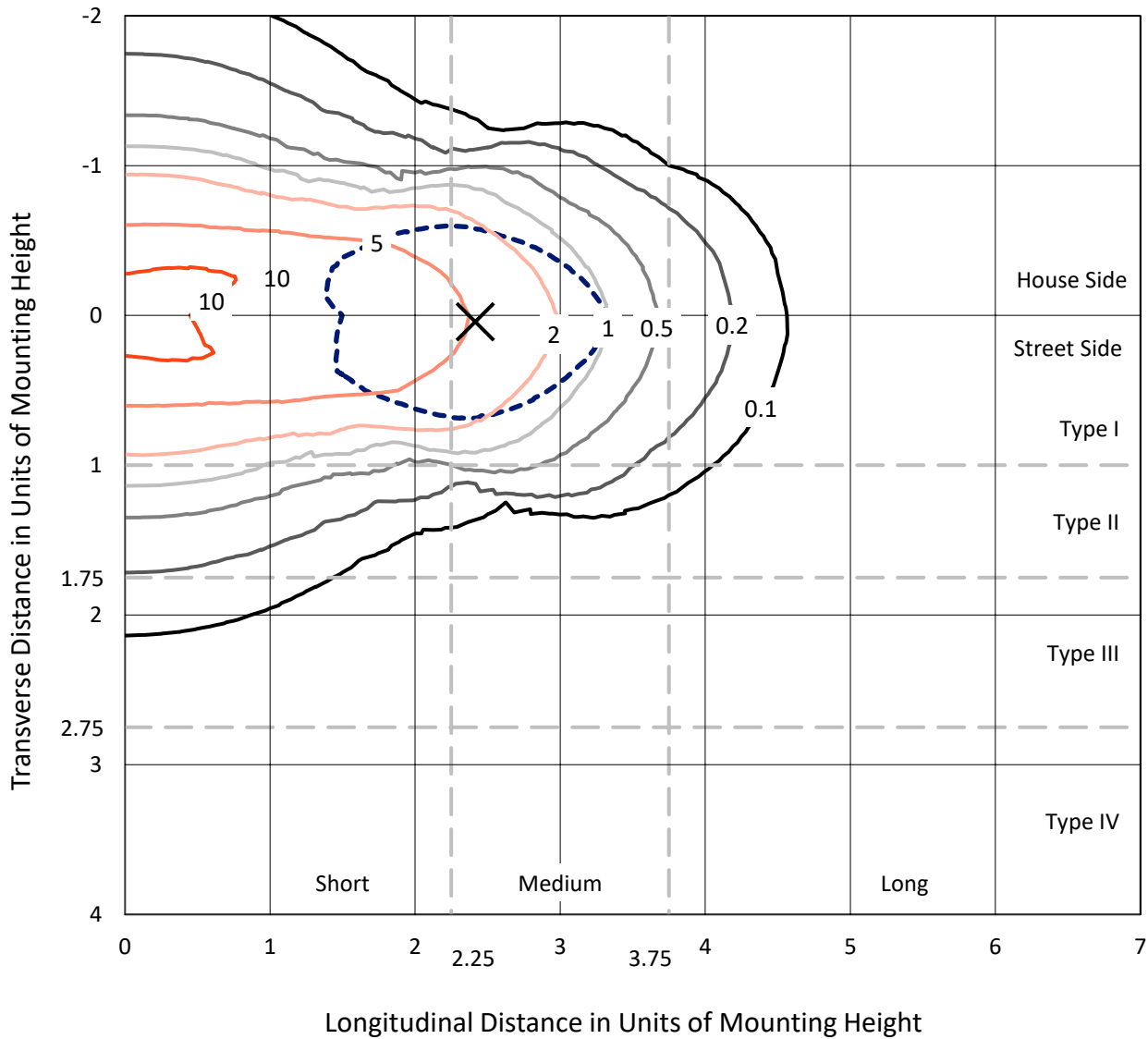
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

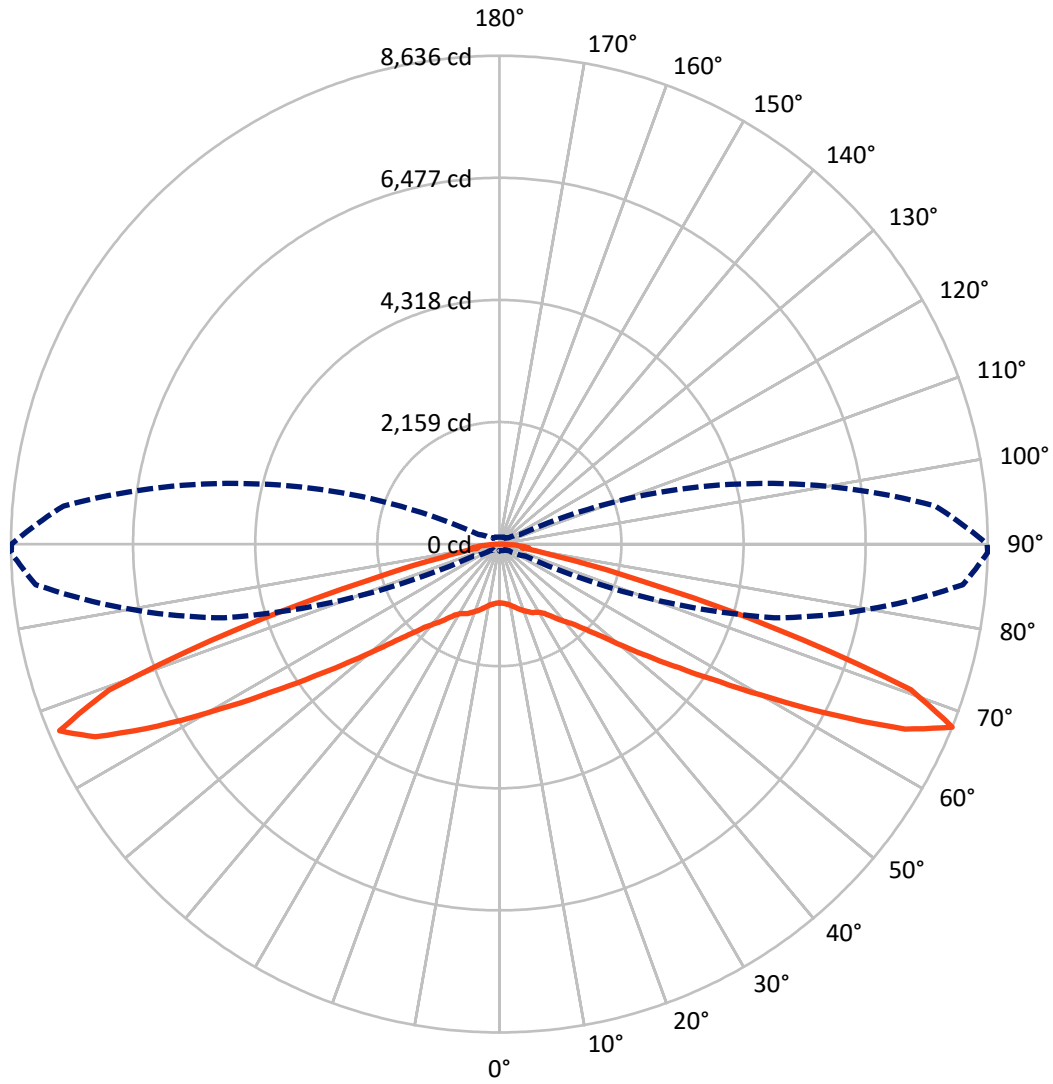
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3068.6 | 0.0 | 3068.6 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 3122.8 | 0.0 | 3122.8 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 6191.4 | 0.0 | 6191.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.2 | 1.7 |
| 10°-20° | 339.4 | 5.5 |
| 20°-30° | 573.8 | 9.3 |
| 30°-40° | 787.4 | 12.7 |
| 40°-50° | 1004.1 | 16.2 |
| 50°-60° | 1259.8 | 20.3 |
| 60°-70° | 1519.5 | 24.5 |
| 70°-80° | 549.7 | 8.9 |
| 80°-90° | 53.5 | 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° | 6191.4 | 100.0 |
| 0°-180° | 6191.4 | 100.0 |

Coefficient of Utilization



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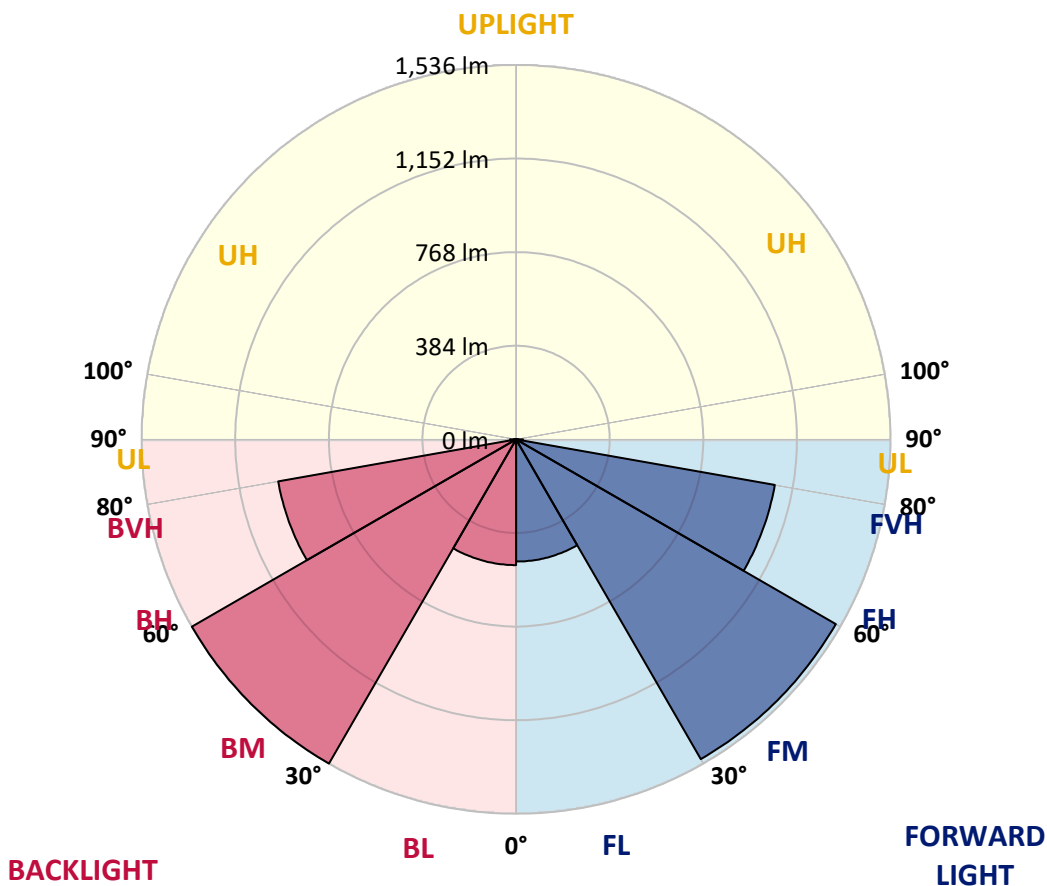
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 501.5 | 8.1 | | | |
| FM (30°-60°) | 1515.2 | 24.5 | | | |
| FH (60°-80°) | 1078.0 | 17.4 | | | G1/1800 |
| FVH (80°-90°) | 28.2 | 0.5 | | | G1/100 |
| BL (0°-30°) | 516.0 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 1536.2 | 24.8 | B2/2500 | | |
| BH (60°-80°) | 991.1 | 16.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 25.2 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type I Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 89° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 |
| 2.5° | 1042.3 | 1041.4 | 1039.2 | 1045.8 | 1044.5 | 1045.0 | 1047.6 | 1045.8 | 1042.7 | 1037.4 | 1045.0 |
| 5° | 1071.6 | 1071.2 | 1066.3 | 1070.3 | 1065.9 | 1062.7 | 1062.3 | 1057.9 | 1054.3 | 1048.5 | 1056.5 |
| 7.5° | 1100.1 | 1099.7 | 1095.6 | 1102.8 | 1099.2 | 1095.6 | 1091.6 | 1082.8 | 1074.3 | 1065.9 | 1074.7 |
| 10° | 1121.9 | 1121.4 | 1120.5 | 1130.8 | 1131.7 | 1133.0 | 1131.2 | 1116.1 | 1101.4 | 1091.2 | 1100.1 |
| 12.5° | 1134.3 | 1135.7 | 1137.9 | 1156.6 | 1165.9 | 1174.8 | 1177.0 | 1164.6 | 1140.1 | 1125.4 | 1136.1 |
| 15° | 1125.9 | 1128.6 | 1139.7 | 1173.5 | 1199.3 | 1219.3 | 1227.7 | 1217.5 | 1185.9 | 1161.5 | 1173.5 |
| 17.5° | 1085.4 | 1087.6 | 1109.4 | 1161.0 | 1217.9 | 1264.2 | 1278.0 | 1271.7 | 1236.6 | 1206.8 | 1218.4 |
| 20° | 1029.4 | 1034.3 | 1057.9 | 1129.9 | 1214.8 | 1295.3 | 1332.2 | 1330.0 | 1291.7 | 1245.9 | 1259.7 |
| 22.5° | 978.7 | 984.5 | 1009.4 | 1089.0 | 1193.9 | 1303.3 | 1386.9 | 1392.7 | 1342.0 | 1285.1 | 1296.2 |
| 25° | 921.8 | 927.1 | 959.1 | 1040.5 | 1157.9 | 1297.1 | 1433.6 | 1459.8 | 1398.9 | 1330.0 | 1340.2 |
| 27.5° | 863.5 | 867.5 | 899.1 | 985.8 | 1110.8 | 1285.5 | 1470.5 | 1533.6 | 1454.9 | 1361.1 | 1368.2 |
| 30° | 812.4 | 817.7 | 846.6 | 931.1 | 1059.2 | 1262.4 | 1500.7 | 1612.3 | 1519.4 | 1396.2 | 1402.0 |
| 32.5° | 763.0 | 767.5 | 799.1 | 877.3 | 1004.5 | 1226.8 | 1527.9 | 1704.8 | 1615.0 | 1461.6 | 1461.6 |
| 35° | 700.8 | 708.8 | 744.4 | 825.7 | 952.9 | 1179.7 | 1547.4 | 1812.4 | 1745.7 | 1558.1 | 1558.5 |
| 37.5° | 643.4 | 647.9 | 685.2 | 767.5 | 898.7 | 1126.3 | 1549.2 | 1924.1 | 1911.2 | 1680.8 | 1681.7 |
| 40° | 578.1 | 583.8 | 623.9 | 705.2 | 836.4 | 1070.3 | 1532.3 | 2028.1 | 2084.6 | 1807.1 | 1802.2 |
| 42.5° | 511.8 | 520.3 | 558.5 | 638.1 | 769.3 | 1001.8 | 1487.4 | 2127.3 | 2304.7 | 1953.4 | 1941.4 |
| 45° | 447.8 | 453.1 | 491.4 | 566.5 | 692.3 | 920.0 | 1415.4 | 2222.4 | 2566.1 | 2175.7 | 2158.4 |
| 47.5° | 375.7 | 378.0 | 417.5 | 489.6 | 612.7 | 828.9 | 1312.2 | 2307.4 | 2853.4 | 2470.1 | 2440.3 |
| 50° | 311.7 | 314.8 | 345.9 | 407.8 | 515.4 | 720.8 | 1183.7 | 2357.2 | 3219.4 | 2871.6 | 2820.1 |
| 52.5° | 252.1 | 255.2 | 280.1 | 329.5 | 426.0 | 597.6 | 1024.5 | 2345.6 | 3590.7 | 3370.1 | 3295.0 |
| 55° | 203.7 | 205.9 | 222.8 | 261.5 | 335.3 | 475.3 | 836.4 | 2242.0 | 4002.9 | 4021.1 | 3859.2 |
| 57.5° | 172.1 | 173.0 | 184.5 | 208.1 | 261.9 | 366.4 | 645.7 | 1997.4 | 4435.1 | 4851.7 | 4585.8 |
| 60° | 153.9 | 154.3 | 159.6 | 174.3 | 206.8 | 279.7 | 473.1 | 1607.9 | 4882.8 | 5890.9 | 5526.3 |
| 62.5° | 142.3 | 142.3 | 146.7 | 155.2 | 171.6 | 215.2 | 347.7 | 1154.8 | 5204.3 | 7021.7 | 6659.3 |
| 65° | 131.2 | 131.2 | 134.3 | 141.4 | 150.3 | 175.6 | 261.0 | 744.8 | 5362.2 | 7967.0 | 7886.5 |
| 67.5° | 116.9 | 117.4 | 119.6 | 127.2 | 135.2 | 146.7 | 197.9 | 503.8 | 5034.5 | 8228.5 | 8635.8 |
| 70° | 103.6 | 104.1 | 107.2 | 112.1 | 118.7 | 126.7 | 154.7 | 347.3 | 3664.5 | 6853.1 | 7721.6 |
| 72.5° | 88.9 | 90.7 | 92.9 | 98.3 | 102.3 | 108.1 | 126.3 | 225.0 | 2132.2 | 4408.4 | 5104.3 |
| 75° | 72.9 | 75.1 | 77.8 | 83.2 | 85.8 | 88.0 | 104.1 | 160.5 | 1025.8 | 2234.0 | 2543.9 |
| 77.5° | 56.5 | 58.7 | 61.8 | 66.7 | 68.5 | 71.1 | 79.6 | 116.1 | 491.4 | 990.3 | 1067.6 |
| 80° | 37.8 | 38.7 | 41.4 | 47.1 | 50.2 | 52.0 | 58.7 | 79.1 | 213.4 | 397.5 | 394.0 |
| 82.5° | 23.1 | 23.6 | 24.5 | 28.0 | 29.3 | 31.1 | 38.2 | 48.5 | 101.8 | 451.8 | 518.0 |
| 85° | 8.4 | 8.0 | 7.6 | 9.8 | 11.6 | 13.3 | 17.8 | 24.5 | 44.5 | 310.4 | 347.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.4 | 0.9 | 0.9 | 1.8 | 3.6 | 10.7 | 116.1 | 79.6 |
| 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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 CATALOG NUMBER: GWS-SA1D-750-U-T1-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 | 1039.2 |
| 2.5° | 1042.7 | 1037.8 | 1044.1 | 1048.5 | 1058.3 | 1061.9 | 1062.7 | 1059.6 | 1059.6 | 1054.3 | 1055.2 |
| 5° | 1054.7 | 1051.6 | 1061.9 | 1069.4 | 1083.6 | 1089.0 | 1092.5 | 1090.3 | 1091.6 | 1088.1 | 1089.0 |
| 7.5° | 1073.0 | 1070.3 | 1088.1 | 1102.8 | 1117.4 | 1123.7 | 1126.8 | 1125.0 | 1125.4 | 1121.0 | 1122.3 |
| 10° | 1098.3 | 1099.2 | 1120.5 | 1139.7 | 1159.2 | 1165.5 | 1166.8 | 1161.5 | 1157.0 | 1149.0 | 1149.5 |
| 12.5° | 1133.0 | 1137.4 | 1167.7 | 1189.0 | 1209.0 | 1217.9 | 1208.1 | 1188.6 | 1170.4 | 1156.6 | 1154.8 |
| 15° | 1170.8 | 1178.8 | 1222.4 | 1249.5 | 1271.3 | 1266.8 | 1237.9 | 1193.9 | 1157.9 | 1137.4 | 1133.4 |
| 17.5° | 1216.2 | 1228.2 | 1282.9 | 1315.3 | 1334.0 | 1305.5 | 1245.1 | 1179.2 | 1129.0 | 1101.4 | 1096.1 |
| 20° | 1258.8 | 1278.0 | 1346.9 | 1389.1 | 1391.3 | 1327.3 | 1241.9 | 1149.5 | 1086.3 | 1052.5 | 1045.4 |
| 22.5° | 1298.0 | 1322.4 | 1414.0 | 1467.8 | 1438.9 | 1337.1 | 1222.8 | 1107.2 | 1034.7 | 995.2 | 988.9 |
| 25° | 1340.7 | 1375.3 | 1492.3 | 1542.5 | 1486.5 | 1333.1 | 1182.8 | 1054.7 | 972.5 | 932.0 | 927.6 |
| 27.5° | 1370.0 | 1413.6 | 1571.0 | 1619.0 | 1525.6 | 1310.4 | 1131.2 | 997.4 | 915.6 | 877.3 | 871.1 |
| 30° | 1403.8 | 1459.4 | 1657.7 | 1702.2 | 1549.6 | 1277.1 | 1076.1 | 944.0 | 862.6 | 821.3 | 816.8 |
| 32.5° | 1465.2 | 1535.0 | 1765.3 | 1790.2 | 1557.2 | 1235.7 | 1023.2 | 892.4 | 807.5 | 766.2 | 759.9 |
| 35° | 1563.9 | 1645.7 | 1916.5 | 1888.5 | 1551.4 | 1190.4 | 972.9 | 832.0 | 751.0 | 712.3 | 706.1 |
| 37.5° | 1688.4 | 1790.2 | 2085.0 | 1977.0 | 1535.4 | 1140.6 | 913.3 | 781.3 | 700.3 | 661.2 | 657.7 |
| 40° | 1804.4 | 1929.8 | 2274.0 | 2053.5 | 1503.0 | 1079.2 | 856.0 | 728.4 | 645.7 | 604.3 | 596.3 |
| 42.5° | 1949.8 | 2116.6 | 2492.8 | 2119.7 | 1449.6 | 1005.8 | 791.5 | 663.0 | 577.2 | 539.8 | 530.0 |
| 45° | 2170.8 | 2378.1 | 2747.1 | 2183.3 | 1370.0 | 915.6 | 710.6 | 583.4 | 502.0 | 463.8 | 456.2 |
| 47.5° | 2446.5 | 2704.9 | 3022.8 | 2221.1 | 1249.1 | 820.4 | 619.0 | 499.4 | 418.0 | 374.9 | 371.3 |
| 50° | 2833.8 | 3180.2 | 3318.5 | 2214.4 | 1113.9 | 707.5 | 515.8 | 399.3 | 331.3 | 300.1 | 295.3 |
| 52.5° | 3305.6 | 3777.0 | 3638.2 | 2134.4 | 970.3 | 579.0 | 402.0 | 313.5 | 262.8 | 240.6 | 236.6 |
| 55° | 3897.5 | 4491.5 | 3974.8 | 1962.7 | 788.8 | 443.3 | 315.7 | 247.2 | 212.5 | 199.2 | 197.4 |
| 57.5° | 4630.3 | 5416.9 | 4299.0 | 1673.7 | 593.2 | 338.4 | 243.2 | 204.1 | 187.6 | 179.6 | 179.2 |
| 60° | 5597.4 | 6399.1 | 4580.5 | 1300.6 | 424.7 | 258.8 | 201.0 | 182.3 | 169.4 | 164.1 | 163.6 |
| 62.5° | 6747.3 | 7291.1 | 4755.7 | 885.8 | 319.3 | 206.3 | 177.0 | 165.4 | 157.9 | 154.7 | 154.3 |
| 65° | 7929.2 | 7855.0 | 4672.1 | 580.3 | 242.3 | 175.2 | 158.7 | 152.5 | 145.8 | 142.7 | 142.7 |
| 67.5° | 8627.3 | 7735.8 | 4030.4 | 402.9 | 192.1 | 153.9 | 143.2 | 137.4 | 126.3 | 123.6 | 123.6 |
| 70° | 7641.5 | 6268.4 | 2641.7 | 294.8 | 155.6 | 134.7 | 124.5 | 116.5 | 112.1 | 109.4 | 108.9 |
| 72.5° | 5054.0 | 4078.9 | 1404.7 | 204.5 | 129.8 | 114.7 | 105.4 | 102.3 | 96.9 | 94.3 | 93.8 |
| 75° | 2515.5 | 2142.4 | 719.9 | 147.6 | 108.1 | 92.0 | 88.0 | 86.7 | 82.3 | 78.7 | 77.8 |
| 77.5° | 1048.5 | 953.8 | 335.7 | 107.2 | 82.3 | 74.3 | 70.7 | 70.7 | 65.8 | 61.8 | 60.0 |
| 80° | 395.3 | 352.2 | 158.7 | 73.4 | 60.9 | 55.1 | 52.9 | 51.1 | 47.1 | 42.2 | 39.6 |
| 82.5° | 528.7 | 345.5 | 77.8 | 45.8 | 40.0 | 35.6 | 32.5 | 31.1 | 28.9 | 26.7 | 24.9 |
| 85° | 342.4 | 245.5 | 35.1 | 23.6 | 20.0 | 15.1 | 13.3 | 12.5 | 11.1 | 9.8 | 8.9 |
| 87.5° | 69.8 | 82.3 | 10.7 | 4.4 | 2.7 | 1.3 | 1.3 | 0.4 | 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)