

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: P632856

Luminaire Tested: GWS-SA2D-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-750-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7741 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

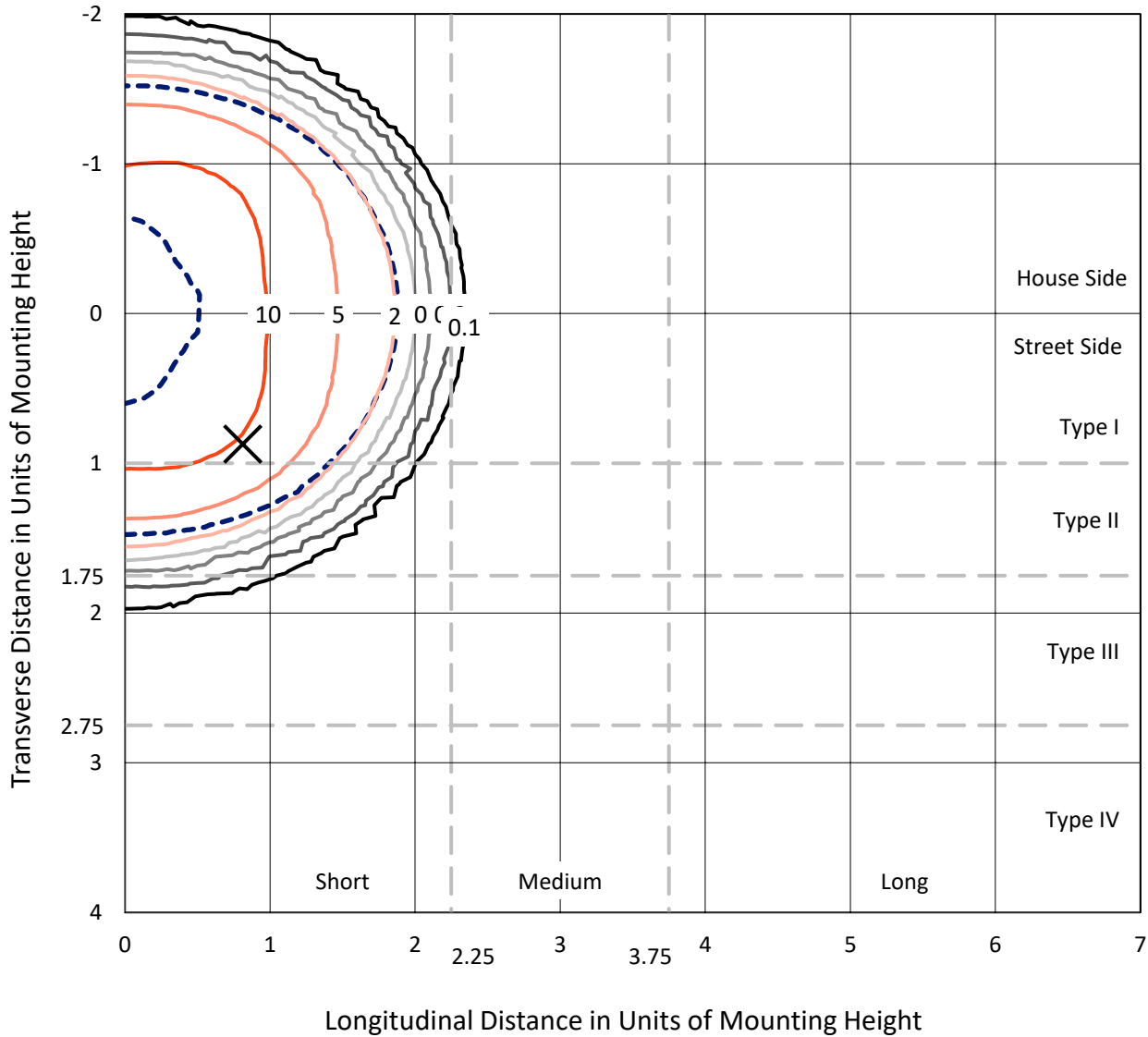
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

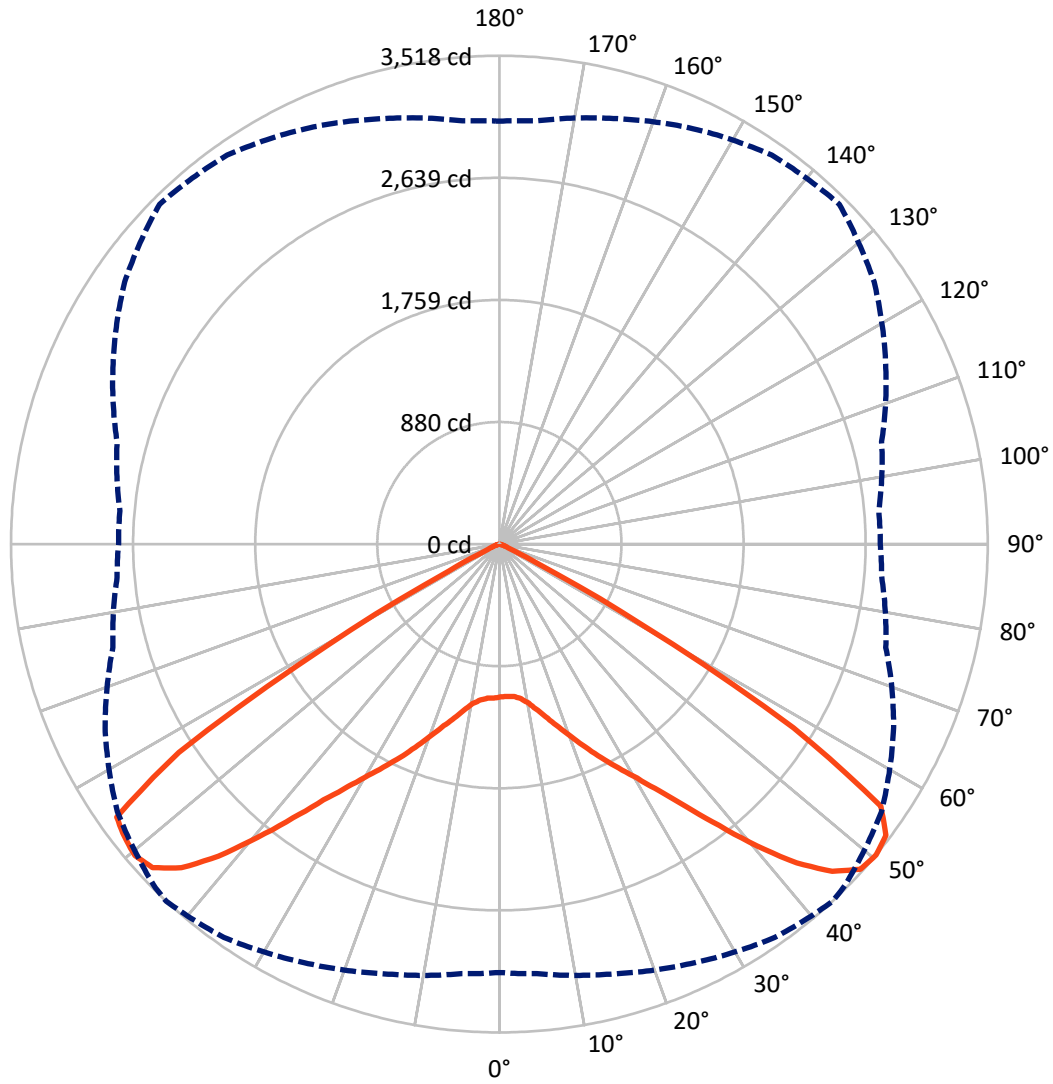
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3870.4 | 0.0 | 3870.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3870.6 | 0.0 | 3870.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7741.0 | 0.0 | 7741.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.4 | 1.4 |
| 10°-20° | 373.1 | 4.8 |
| 20°-30° | 754.9 | 9.8 |
| 30°-40° | 1400.6 | 18.1 |
| 40°-50° | 2324.9 | 30.0 |
| 50°-60° | 2372.7 | 30.7 |
| 60°-70° | 389.1 | 5.0 |
| 70°-80° | 17.0 | 0.2 |
| 80°-90° | 0.2 | 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° | 7741.0 | 100.0 |
| 0°-180° | 7741.0 | 100.0 |

Coefficient of Utilization



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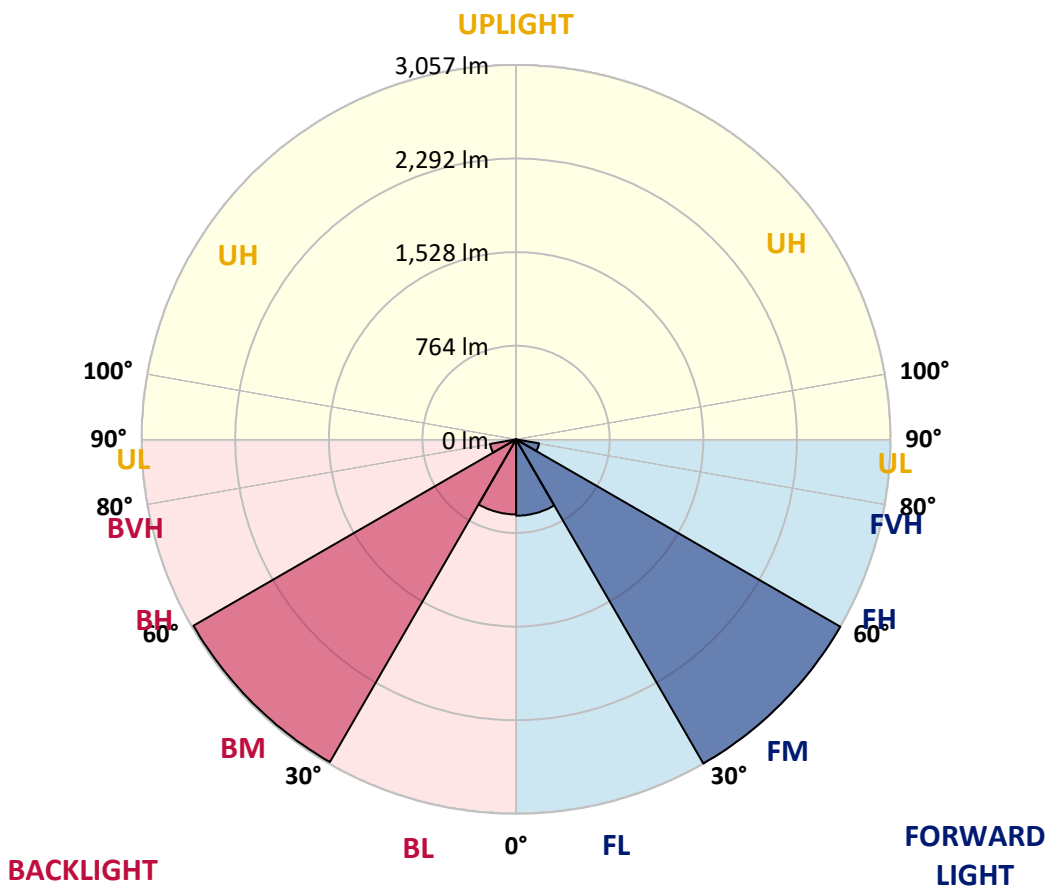
CATALOG NUMBER: GWS-SA2D-750-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 623.6 | 8.1 | | | |
| FM (30°-60°) | 3056.5 | 39.5 | | | |
| FH (60°-80°) | 190.3 | 2.5 | | | G0/660 |
| FVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 612.8 | 7.9 | B2/1000 | | |
| BM (30°-60°) | 3041.7 | 39.3 | B3/5000 | | |
| BH (60°-80°) | 215.8 | 2.8 | B1/500 | | G0/660 |
| BVH (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 43° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 |
| 2.5° | 1080.5 | 1083.1 | 1086.5 | 1089.9 | 1094.2 | 1098.5 | 1101.0 | 1108.7 | 1107.0 | 1113.9 | 1113.9 |
| 5° | 1068.5 | 1071.1 | 1075.3 | 1083.1 | 1092.5 | 1101.9 | 1108.7 | 1124.2 | 1132.7 | 1146.4 | 1151.5 |
| 7.5° | 1074.5 | 1077.9 | 1083.1 | 1095.0 | 1109.6 | 1124.2 | 1131.9 | 1156.7 | 1173.8 | 1199.5 | 1214.0 |
| 10° | 1094.2 | 1097.6 | 1106.2 | 1126.7 | 1145.6 | 1166.1 | 1175.5 | 1207.2 | 1234.6 | 1269.7 | 1290.2 |
| 12.5° | 1116.4 | 1120.7 | 1137.9 | 1168.7 | 1201.2 | 1228.6 | 1241.4 | 1276.5 | 1304.8 | 1344.2 | 1376.7 |
| 15° | 1139.6 | 1146.4 | 1173.0 | 1218.3 | 1264.6 | 1301.4 | 1315.1 | 1352.7 | 1381.0 | 1423.0 | 1459.8 |
| 17.5° | 1193.5 | 1201.2 | 1231.2 | 1280.0 | 1343.3 | 1386.1 | 1398.1 | 1437.5 | 1458.9 | 1487.2 | 1525.7 |
| 20° | 1261.1 | 1275.7 | 1312.5 | 1371.6 | 1440.9 | 1482.0 | 1490.6 | 1529.1 | 1527.4 | 1539.4 | 1572.8 |
| 22.5° | 1345.0 | 1355.3 | 1395.6 | 1465.8 | 1543.7 | 1589.1 | 1608.7 | 1625.0 | 1603.6 | 1593.3 | 1614.7 |
| 25° | 1432.4 | 1444.4 | 1488.0 | 1565.1 | 1652.4 | 1704.6 | 1720.9 | 1733.7 | 1699.5 | 1661.0 | 1663.5 |
| 27.5° | 1545.4 | 1553.9 | 1596.8 | 1678.9 | 1766.3 | 1825.4 | 1839.9 | 1862.2 | 1816.8 | 1755.1 | 1738.0 |
| 30° | 1679.8 | 1688.4 | 1733.7 | 1820.2 | 1906.7 | 1957.2 | 1979.5 | 2006.9 | 1957.2 | 1880.1 | 1860.5 |
| 32.5° | 1837.3 | 1845.9 | 1904.1 | 1993.2 | 2064.2 | 2119.0 | 2140.4 | 2169.5 | 2130.2 | 2043.7 | 2021.4 |
| 35° | 2025.7 | 2030.8 | 2099.3 | 2196.1 | 2271.4 | 2324.5 | 2339.1 | 2373.3 | 2329.6 | 2243.2 | 2231.2 |
| 37.5° | 2244.0 | 2250.0 | 2324.5 | 2436.7 | 2513.7 | 2572.8 | 2595.9 | 2605.3 | 2552.2 | 2455.5 | 2446.1 |
| 40° | 2483.7 | 2503.4 | 2576.2 | 2696.9 | 2783.4 | 2857.9 | 2878.4 | 2846.8 | 2772.3 | 2640.4 | 2623.3 |
| 42.5° | 2733.8 | 2750.9 | 2832.2 | 2963.2 | 3063.4 | 3139.6 | 3140.4 | 3071.9 | 2945.2 | 2762.9 | 2737.2 |
| 45° | 2941.8 | 2948.7 | 3054.0 | 3185.8 | 3309.1 | 3363.0 | 3368.2 | 3244.0 | 3053.1 | 2833.9 | 2779.1 |
| 47.5° | 3084.8 | 3095.9 | 3187.5 | 3314.2 | 3450.4 | 3499.2 | 3488.9 | 3333.9 | 3104.5 | 2880.2 | 2789.4 |
| 50° | 3086.5 | 3105.3 | 3204.6 | 3327.1 | 3458.9 | 3518.0 | 3503.4 | 3359.6 | 3133.6 | 2881.9 | 2764.6 |
| 52.5° | 2813.4 | 2844.2 | 3006.0 | 3183.2 | 3385.3 | 3486.3 | 3489.7 | 3393.0 | 3122.5 | 2854.5 | 2742.3 |
| 55° | 2122.4 | 2155.8 | 2359.6 | 2661.8 | 3052.2 | 3333.9 | 3382.7 | 3353.6 | 3109.6 | 2866.5 | 2781.7 |
| 57.5° | 1123.3 | 1097.6 | 1210.6 | 1510.3 | 2000.9 | 2499.2 | 2642.1 | 2875.0 | 2966.6 | 2881.0 | 2854.5 |
| 60° | 244.9 | 261.1 | 347.6 | 468.3 | 780.8 | 1175.5 | 1315.1 | 1714.1 | 2188.4 | 2399.0 | 2551.4 |
| 62.5° | 105.3 | 103.6 | 107.9 | 122.4 | 178.9 | 297.9 | 363.9 | 594.2 | 937.5 | 1287.7 | 1524.8 |
| 65° | 86.5 | 87.3 | 90.8 | 90.8 | 84.8 | 85.6 | 89.9 | 136.1 | 219.2 | 307.4 | 412.7 |
| 67.5° | 65.1 | 65.9 | 71.9 | 73.6 | 69.3 | 61.6 | 60.8 | 51.4 | 53.9 | 67.6 | 70.2 |
| 70° | 41.1 | 41.1 | 44.5 | 46.2 | 46.2 | 42.8 | 42.0 | 36.8 | 36.0 | 41.1 | 46.2 |
| 72.5° | 22.3 | 22.3 | 24.0 | 24.8 | 24.0 | 23.1 | 23.1 | 22.3 | 21.4 | 24.8 | 31.7 |
| 75° | 9.4 | 9.4 | 10.3 | 10.3 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 11.1 | 17.1 |
| 77.5° | 1.7 | 2.6 | 3.4 | 2.6 | 1.7 | 1.7 | 1.7 | 2.6 | 2.6 | 3.4 | 5.1 |
| 80° | 0.9 | 0.9 | 1.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 |
| 82.5° | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 |
| 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° | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 |
| 2.5° | 1119.9 | 1110.5 | 1113.9 | 1115.6 | 1113.0 | 1111.3 | 1101.9 | 1099.3 | 1095.0 | 1088.2 | 1086.5 |
| 5° | 1157.5 | 1149.8 | 1149.0 | 1143.8 | 1131.9 | 1117.3 | 1099.3 | 1091.6 | 1083.1 | 1074.5 | 1072.8 |
| 7.5° | 1220.9 | 1211.5 | 1205.5 | 1188.4 | 1161.0 | 1137.9 | 1107.9 | 1091.6 | 1080.5 | 1069.4 | 1066.8 |
| 10° | 1302.2 | 1291.1 | 1274.0 | 1242.3 | 1205.5 | 1172.1 | 1137.0 | 1115.6 | 1098.5 | 1083.1 | 1082.2 |
| 12.5° | 1388.7 | 1376.7 | 1345.9 | 1305.7 | 1261.1 | 1230.3 | 1185.8 | 1155.8 | 1130.1 | 1107.0 | 1104.5 |
| 15° | 1479.5 | 1464.9 | 1423.0 | 1375.0 | 1333.9 | 1302.2 | 1253.4 | 1205.5 | 1166.1 | 1132.7 | 1129.3 |
| 17.5° | 1548.8 | 1530.8 | 1481.2 | 1445.2 | 1411.8 | 1379.3 | 1324.5 | 1261.1 | 1208.9 | 1168.7 | 1159.3 |
| 20° | 1592.5 | 1575.4 | 1528.3 | 1508.6 | 1493.2 | 1470.0 | 1405.0 | 1339.1 | 1280.8 | 1231.2 | 1222.6 |
| 22.5° | 1634.4 | 1613.9 | 1572.8 | 1572.8 | 1584.8 | 1575.4 | 1505.1 | 1429.8 | 1361.3 | 1303.9 | 1291.1 |
| 25° | 1681.5 | 1665.3 | 1636.1 | 1660.1 | 1690.1 | 1689.2 | 1617.3 | 1523.1 | 1444.4 | 1380.1 | 1367.3 |
| 27.5° | 1750.0 | 1733.7 | 1723.5 | 1768.8 | 1806.5 | 1804.0 | 1725.2 | 1623.3 | 1540.3 | 1476.9 | 1464.9 |
| 30° | 1870.7 | 1855.3 | 1844.2 | 1899.0 | 1946.9 | 1929.0 | 1842.5 | 1744.0 | 1660.1 | 1588.2 | 1579.6 |
| 32.5° | 2031.7 | 2015.4 | 2000.9 | 2055.7 | 2098.5 | 2075.4 | 1993.2 | 1900.7 | 1804.0 | 1733.7 | 1716.6 |
| 35° | 2243.2 | 2208.9 | 2194.4 | 2259.4 | 2277.4 | 2251.7 | 2173.0 | 2091.6 | 1988.9 | 1908.4 | 1897.3 |
| 37.5° | 2461.5 | 2421.2 | 2411.0 | 2467.5 | 2496.6 | 2487.2 | 2394.7 | 2309.9 | 2198.6 | 2109.6 | 2096.8 |
| 40° | 2648.1 | 2611.3 | 2593.3 | 2681.5 | 2747.5 | 2753.4 | 2670.4 | 2566.8 | 2435.8 | 2343.3 | 2320.2 |
| 42.5° | 2757.7 | 2726.0 | 2721.8 | 2858.8 | 2966.6 | 3043.7 | 2944.4 | 2837.3 | 2699.5 | 2595.1 | 2576.2 |
| 45° | 2782.6 | 2762.0 | 2798.0 | 2977.8 | 3145.6 | 3286.0 | 3201.2 | 3088.2 | 2939.2 | 2828.8 | 2810.8 |
| 47.5° | 2780.0 | 2773.1 | 2837.3 | 3039.4 | 3251.7 | 3424.7 | 3382.7 | 3255.2 | 3111.3 | 2995.7 | 2978.6 |
| 50° | 2743.2 | 2744.0 | 2851.0 | 3070.2 | 3294.5 | 3462.4 | 3420.4 | 3302.2 | 3173.8 | 3060.0 | 3046.3 |
| 52.5° | 2728.6 | 2723.5 | 2825.4 | 3060.8 | 3338.2 | 3445.2 | 3351.0 | 3218.3 | 3075.4 | 2935.0 | 2914.4 |
| 55° | 2780.0 | 2767.1 | 2828.8 | 3053.1 | 3343.3 | 3435.8 | 3187.5 | 2899.8 | 2607.0 | 2440.9 | 2427.2 |
| 57.5° | 2857.0 | 2843.3 | 2872.5 | 2996.6 | 3075.4 | 2857.0 | 2345.9 | 1881.9 | 1580.5 | 1452.9 | 1397.3 |
| 60° | 2551.4 | 2542.0 | 2519.7 | 2369.9 | 2032.5 | 1533.4 | 1044.5 | 666.1 | 478.6 | 387.0 | 387.0 |
| 62.5° | 1583.1 | 1570.2 | 1449.5 | 1077.1 | 782.5 | 452.9 | 249.1 | 155.8 | 118.2 | 110.4 | 109.6 |
| 65° | 444.4 | 441.8 | 365.6 | 258.6 | 164.4 | 101.9 | 89.9 | 91.6 | 89.9 | 87.3 | 86.5 |
| 67.5° | 66.8 | 73.6 | 73.6 | 59.9 | 57.4 | 64.2 | 75.3 | 80.5 | 76.2 | 71.9 | 70.2 |
| 70° | 42.8 | 46.2 | 44.5 | 38.5 | 41.1 | 47.9 | 53.9 | 54.8 | 52.2 | 47.9 | 47.1 |
| 72.5° | 30.0 | 33.4 | 27.4 | 24.8 | 25.7 | 28.3 | 30.8 | 30.8 | 30.0 | 28.3 | 26.5 |
| 75° | 18.0 | 18.0 | 12.8 | 12.0 | 12.0 | 12.8 | 12.8 | 14.6 | 14.6 | 13.7 | 12.8 |
| 77.5° | 6.0 | 6.8 | 4.3 | 3.4 | 3.4 | 3.4 | 4.3 | 5.1 | 5.1 | 4.3 | 3.4 |
| 80° | 0.9 | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 0.9 |
| 82.5° | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 0.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 |
| 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)