

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: P633351

Luminaire Tested: GWS-SA2E-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633351
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-SA2E-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: 9673.5 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

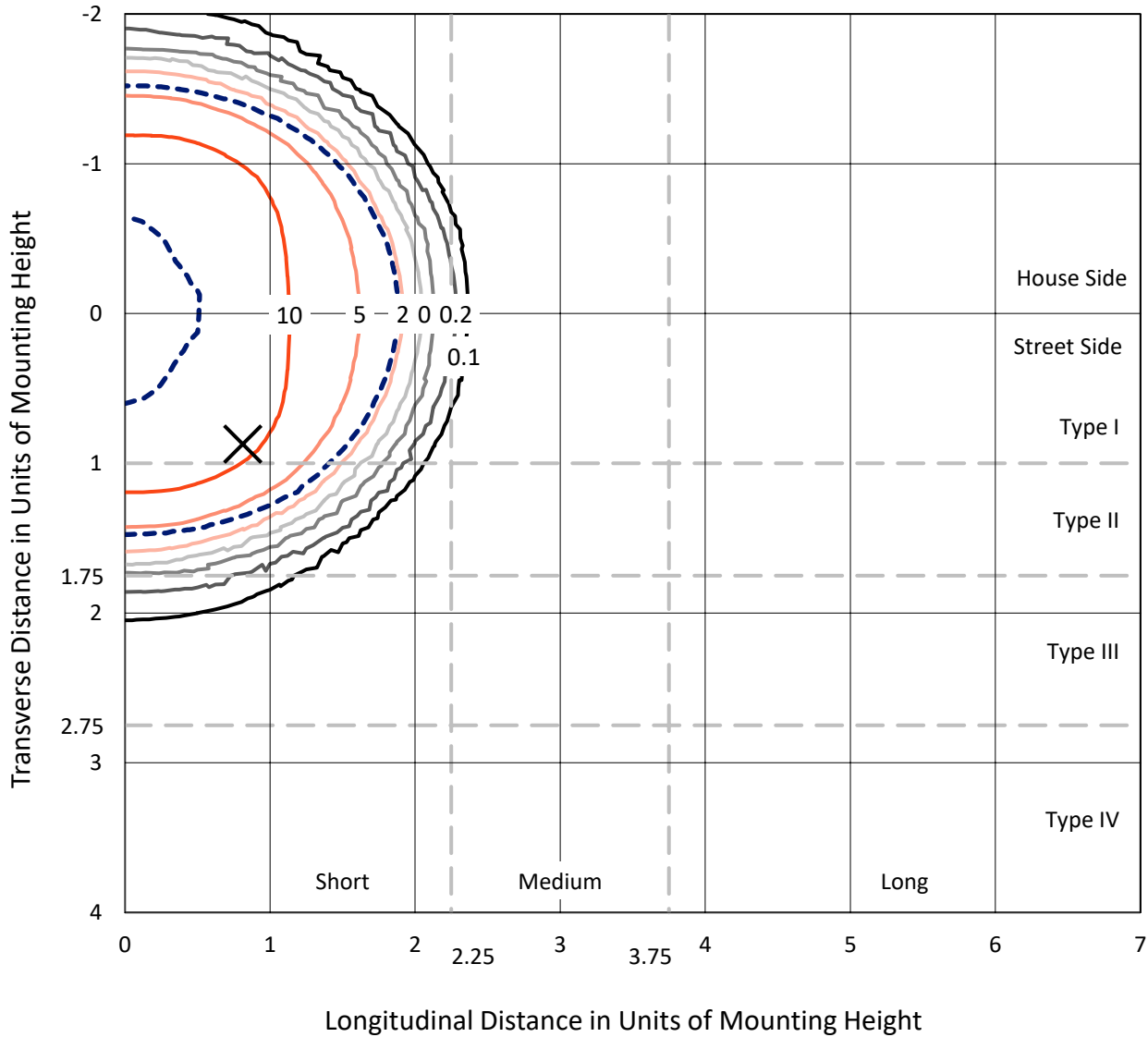
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

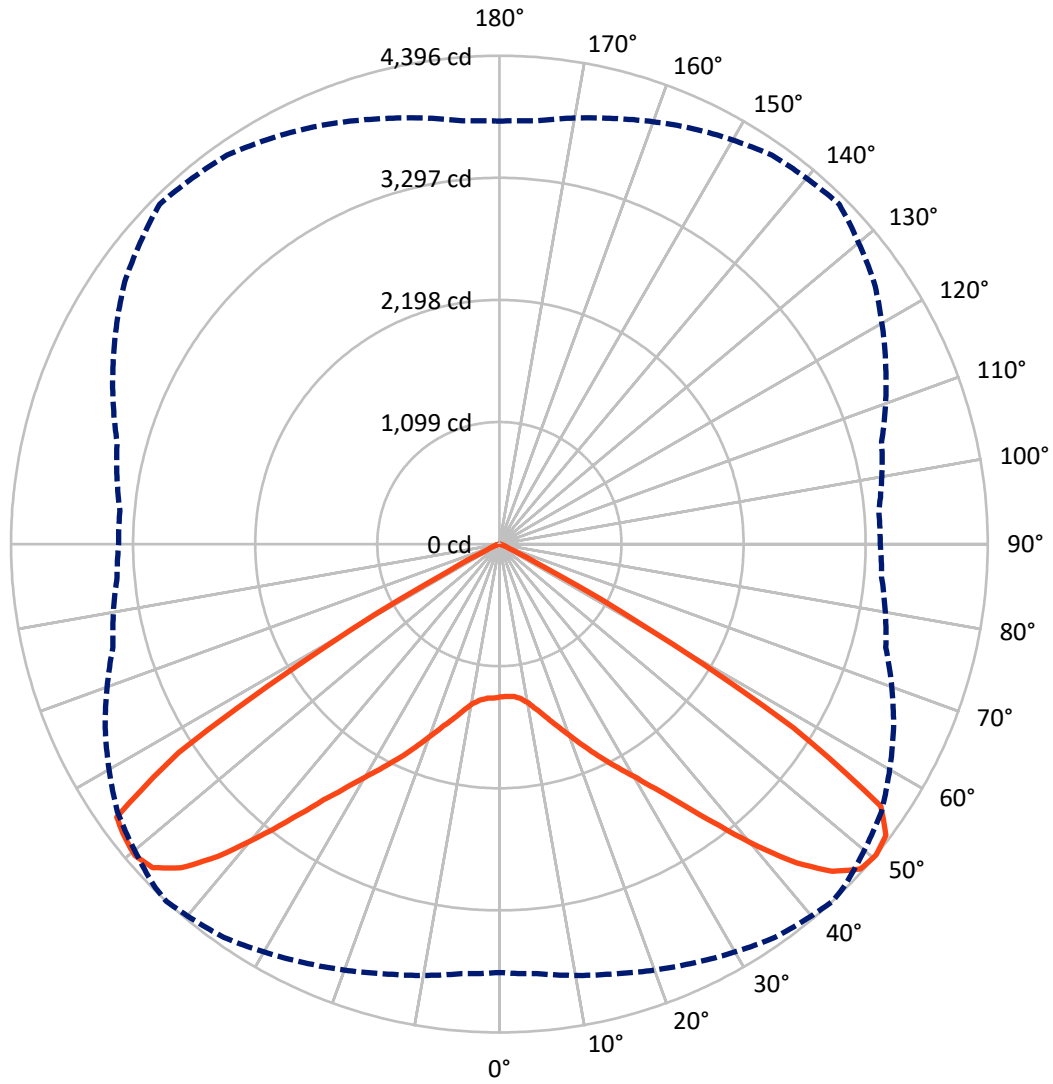
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 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 | 4836.6 | 0.0 | 4836.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4836.9 | 0.0 | 4836.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9673.5 | 0.0 | 9673.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 135.5 | 1.4 |
| 10°-20° | 466.3 | 4.8 |
| 20°-30° | 943.4 | 9.8 |
| 30°-40° | 1750.3 | 18.1 |
| 40°-50° | 2905.3 | 30.0 |
| 50°-60° | 2965.0 | 30.7 |
| 60°-70° | 486.2 | 5.0 |
| 70°-80° | 21.3 | 0.2 |
| 80°-90° | 0.3 | 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° | 9673.5 | 100.0 |
| 0°-180° | 9673.5 | 100.0 |

Coefficient of Utilization



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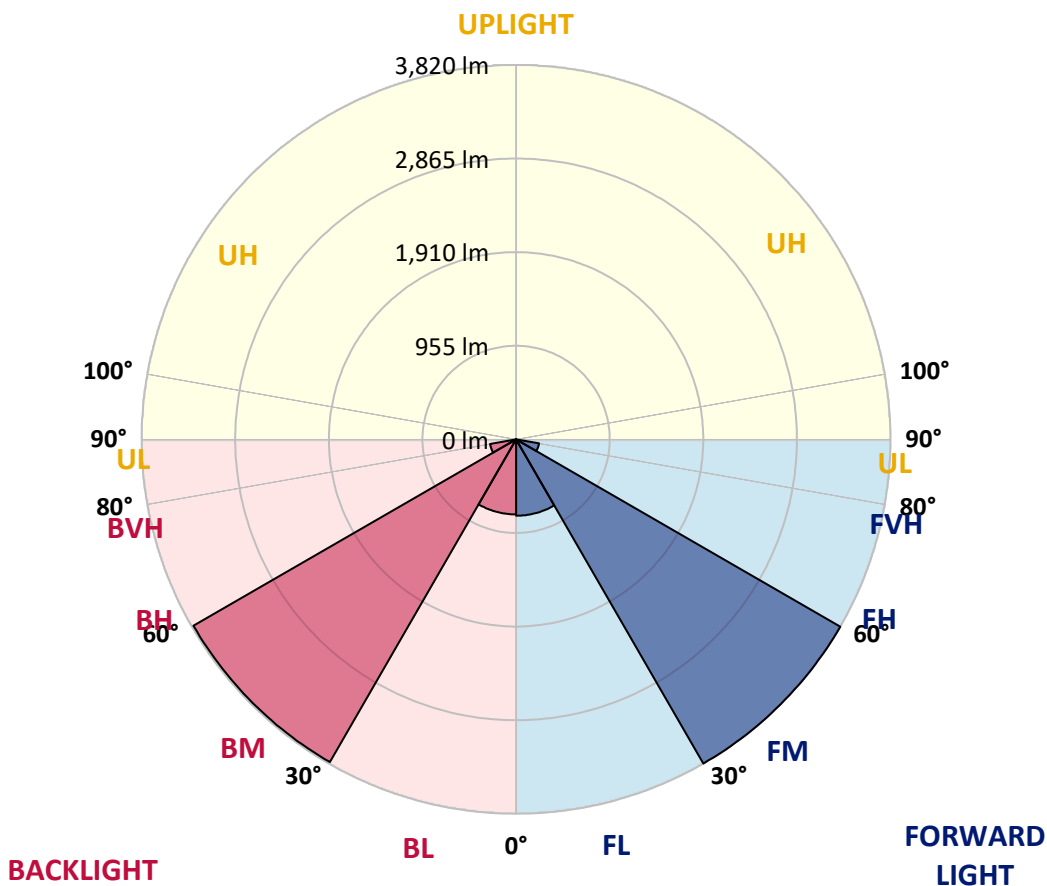
CATALOG NUMBER: GWS-SA2E-750-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 779.3 | 8.1 | | | |
| FM (30°-60°) | 3819.6 | 39.5 | | | |
| FH (60°-80°) | 237.9 | 2.5 | | | G0/660 |
| FVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 765.8 | 7.9 | B2/1000 | | |
| BM (30°-60°) | 3801.0 | 39.3 | B3/5000 | | |
| BH (60°-80°) | 269.6 | 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° | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 |
| 2.5° | 1350.2 | 1353.4 | 1357.7 | 1362.0 | 1367.3 | 1372.7 | 1375.9 | 1385.5 | 1383.4 | 1392.0 | 1392.0 |
| 5° | 1335.2 | 1338.5 | 1343.8 | 1353.4 | 1365.2 | 1377.0 | 1385.5 | 1404.8 | 1415.5 | 1432.6 | 1439.0 |
| 7.5° | 1342.7 | 1347.0 | 1353.4 | 1368.4 | 1386.6 | 1404.8 | 1414.4 | 1445.4 | 1466.8 | 1498.9 | 1517.1 |
| 10° | 1367.3 | 1371.6 | 1382.3 | 1408.0 | 1431.5 | 1457.2 | 1469.0 | 1508.6 | 1542.8 | 1586.7 | 1612.4 |
| 12.5° | 1395.2 | 1400.5 | 1421.9 | 1460.4 | 1501.1 | 1535.3 | 1551.4 | 1595.2 | 1630.5 | 1679.8 | 1720.4 |
| 15° | 1424.0 | 1432.6 | 1465.8 | 1522.5 | 1580.3 | 1626.3 | 1643.4 | 1690.5 | 1725.8 | 1778.2 | 1824.2 |
| 17.5° | 1491.5 | 1501.1 | 1538.5 | 1599.5 | 1678.7 | 1732.2 | 1747.2 | 1796.4 | 1823.1 | 1858.4 | 1906.6 |
| 20° | 1576.0 | 1594.2 | 1640.2 | 1714.0 | 1800.7 | 1852.0 | 1862.7 | 1910.9 | 1908.7 | 1923.7 | 1965.4 |
| 22.5° | 1680.8 | 1693.7 | 1744.0 | 1831.7 | 1929.0 | 1985.8 | 2010.4 | 2030.7 | 2003.9 | 1991.1 | 2017.8 |
| 25° | 1790.0 | 1804.9 | 1859.5 | 1955.8 | 2064.9 | 2130.2 | 2150.5 | 2166.6 | 2123.8 | 2075.6 | 2078.8 |
| 27.5° | 1931.2 | 1941.9 | 1995.4 | 2098.1 | 2207.2 | 2281.0 | 2299.2 | 2327.1 | 2270.3 | 2193.3 | 2171.9 |
| 30° | 2099.2 | 2109.9 | 2166.6 | 2274.6 | 2382.7 | 2445.8 | 2473.6 | 2507.9 | 2445.8 | 2349.5 | 2324.9 |
| 32.5° | 2296.0 | 2306.7 | 2379.5 | 2490.7 | 2579.5 | 2648.0 | 2674.8 | 2711.1 | 2661.9 | 2553.9 | 2526.1 |
| 35° | 2531.4 | 2537.8 | 2623.4 | 2744.3 | 2838.5 | 2904.8 | 2923.0 | 2965.8 | 2911.2 | 2803.2 | 2788.2 |
| 37.5° | 2804.2 | 2811.7 | 2904.8 | 3045.0 | 3141.3 | 3215.1 | 3244.0 | 3255.7 | 3189.4 | 3068.5 | 3056.7 |
| 40° | 3103.8 | 3128.4 | 3219.4 | 3370.2 | 3478.3 | 3571.4 | 3597.0 | 3557.4 | 3464.4 | 3299.6 | 3278.2 |
| 42.5° | 3416.2 | 3437.6 | 3539.3 | 3703.0 | 3828.1 | 3923.4 | 3924.4 | 3838.8 | 3680.5 | 3452.6 | 3420.5 |
| 45° | 3676.2 | 3684.8 | 3816.4 | 3981.1 | 4135.2 | 4202.6 | 4209.0 | 4053.9 | 3815.3 | 3541.4 | 3472.9 |
| 47.5° | 3854.9 | 3868.8 | 3983.3 | 4141.6 | 4311.7 | 4372.7 | 4359.9 | 4166.2 | 3879.5 | 3599.2 | 3485.8 |
| 50° | 3857.0 | 3880.6 | 4004.7 | 4157.7 | 4322.4 | 4396.3 | 4378.1 | 4198.3 | 3915.9 | 3601.3 | 3454.7 |
| 52.5° | 3515.7 | 3554.2 | 3756.4 | 3977.9 | 4230.4 | 4356.7 | 4360.9 | 4240.0 | 3902.0 | 3567.1 | 3426.9 |
| 55° | 2652.3 | 2694.0 | 2948.7 | 3326.3 | 3814.2 | 4166.2 | 4227.2 | 4190.8 | 3885.9 | 3582.1 | 3476.1 |
| 57.5° | 1403.7 | 1371.6 | 1512.9 | 1887.3 | 2500.4 | 3123.1 | 3301.7 | 3592.8 | 3707.2 | 3600.2 | 3567.1 |
| 60° | 306.0 | 326.3 | 434.4 | 585.2 | 975.8 | 1469.0 | 1643.4 | 2142.0 | 2734.7 | 2997.9 | 3188.3 |
| 62.5° | 131.6 | 129.5 | 134.8 | 153.0 | 223.6 | 372.3 | 454.7 | 742.5 | 1171.5 | 1609.1 | 1905.5 |
| 65° | 108.1 | 109.1 | 113.4 | 113.4 | 105.9 | 107.0 | 112.3 | 170.1 | 273.9 | 384.1 | 515.7 |
| 67.5° | 81.3 | 82.4 | 89.9 | 92.0 | 86.7 | 77.0 | 76.0 | 64.2 | 67.4 | 84.5 | 87.7 |
| 70° | 51.4 | 51.4 | 55.6 | 57.8 | 57.8 | 53.5 | 52.4 | 46.0 | 44.9 | 51.4 | 57.8 |
| 72.5° | 27.8 | 27.8 | 30.0 | 31.0 | 30.0 | 28.9 | 28.9 | 27.8 | 26.7 | 31.0 | 39.6 |
| 75° | 11.8 | 11.8 | 12.8 | 12.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 13.9 | 21.4 |
| 77.5° | 2.1 | 3.2 | 4.3 | 3.2 | 2.1 | 2.1 | 2.1 | 3.2 | 3.2 | 4.3 | 6.4 |
| 80° | 1.1 | 1.1 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 |
| 82.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| 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° | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 | 1375.9 |
| 2.5° | 1399.4 | 1387.7 | 1392.0 | 1394.1 | 1390.9 | 1388.7 | 1377.0 | 1373.8 | 1368.4 | 1359.9 | 1357.7 |
| 5° | 1446.5 | 1436.9 | 1435.8 | 1429.4 | 1414.4 | 1396.2 | 1373.8 | 1364.1 | 1353.4 | 1342.7 | 1340.6 |
| 7.5° | 1525.7 | 1513.9 | 1506.4 | 1485.0 | 1450.8 | 1421.9 | 1384.5 | 1364.1 | 1350.2 | 1336.3 | 1333.1 |
| 10° | 1627.3 | 1613.4 | 1592.0 | 1552.4 | 1506.4 | 1464.7 | 1420.8 | 1394.1 | 1372.7 | 1353.4 | 1352.4 |
| 12.5° | 1735.4 | 1720.4 | 1681.9 | 1631.6 | 1576.0 | 1537.5 | 1481.8 | 1444.4 | 1412.3 | 1383.4 | 1380.2 |
| 15° | 1848.8 | 1830.6 | 1778.2 | 1718.3 | 1666.9 | 1627.3 | 1566.3 | 1506.4 | 1457.2 | 1415.5 | 1411.2 |
| 17.5° | 1935.5 | 1913.0 | 1850.9 | 1806.0 | 1764.3 | 1723.6 | 1655.1 | 1576.0 | 1510.7 | 1460.4 | 1448.7 |
| 20° | 1990.0 | 1968.6 | 1909.8 | 1885.2 | 1865.9 | 1837.0 | 1755.7 | 1673.3 | 1600.6 | 1538.5 | 1527.8 |
| 22.5° | 2042.5 | 2016.8 | 1965.4 | 1965.4 | 1980.4 | 1968.6 | 1880.9 | 1786.7 | 1701.2 | 1629.5 | 1613.4 |
| 25° | 2101.3 | 2081.0 | 2044.6 | 2074.6 | 2112.0 | 2110.9 | 2021.1 | 1903.4 | 1804.9 | 1724.7 | 1708.6 |
| 27.5° | 2186.9 | 2166.6 | 2153.7 | 2210.4 | 2257.5 | 2254.3 | 2155.9 | 2028.5 | 1924.8 | 1845.6 | 1830.6 |
| 30° | 2337.8 | 2318.5 | 2304.6 | 2373.1 | 2433.0 | 2410.5 | 2302.4 | 2179.4 | 2074.6 | 1984.7 | 1974.0 |
| 32.5° | 2538.9 | 2518.6 | 2500.4 | 2568.9 | 2622.3 | 2593.5 | 2490.7 | 2375.2 | 2254.3 | 2166.6 | 2145.2 |
| 35° | 2803.2 | 2760.4 | 2742.2 | 2823.5 | 2846.0 | 2813.9 | 2715.4 | 2613.8 | 2485.4 | 2384.8 | 2370.9 |
| 37.5° | 3076.0 | 3025.7 | 3012.9 | 3083.5 | 3119.9 | 3108.1 | 2992.5 | 2886.6 | 2747.5 | 2636.3 | 2620.2 |
| 40° | 3309.2 | 3263.2 | 3240.8 | 3351.0 | 3433.3 | 3440.8 | 3337.0 | 3207.6 | 3043.9 | 2928.3 | 2899.5 |
| 42.5° | 3446.2 | 3406.6 | 3401.2 | 3572.4 | 3707.2 | 3803.5 | 3679.4 | 3545.7 | 3373.4 | 3242.9 | 3219.4 |
| 45° | 3477.2 | 3451.5 | 3496.5 | 3721.1 | 3930.8 | 4106.3 | 4000.4 | 3859.2 | 3673.0 | 3535.0 | 3512.5 |
| 47.5° | 3474.0 | 3465.4 | 3545.7 | 3798.2 | 4063.5 | 4279.6 | 4227.2 | 4067.8 | 3888.0 | 3743.6 | 3722.2 |
| 50° | 3428.0 | 3429.1 | 3562.8 | 3836.7 | 4117.0 | 4326.7 | 4274.3 | 4126.6 | 3966.2 | 3823.9 | 3806.7 |
| 52.5° | 3409.8 | 3403.4 | 3530.7 | 3824.9 | 4171.6 | 4305.3 | 4187.6 | 4021.8 | 3843.1 | 3667.6 | 3642.0 |
| 55° | 3474.0 | 3457.9 | 3535.0 | 3815.3 | 4178.0 | 4293.5 | 3983.3 | 3623.8 | 3257.9 | 3050.3 | 3033.2 |
| 57.5° | 3570.3 | 3553.2 | 3589.5 | 3744.7 | 3843.1 | 3570.3 | 2931.5 | 2351.7 | 1975.1 | 1815.6 | 1746.1 |
| 60° | 3188.3 | 3176.6 | 3148.7 | 2961.5 | 2540.0 | 1916.2 | 1305.3 | 832.4 | 598.1 | 483.6 | 483.6 |
| 62.5° | 1978.3 | 1962.2 | 1811.4 | 1345.9 | 977.9 | 566.0 | 311.3 | 194.7 | 147.6 | 138.0 | 136.9 |
| 65° | 555.3 | 552.1 | 456.9 | 323.1 | 205.4 | 127.3 | 112.3 | 114.5 | 112.3 | 109.1 | 108.1 |
| 67.5° | 83.5 | 92.0 | 92.0 | 74.9 | 71.7 | 80.2 | 94.2 | 100.6 | 95.2 | 89.9 | 87.7 |
| 70° | 53.5 | 57.8 | 55.6 | 48.1 | 51.4 | 59.9 | 67.4 | 68.5 | 65.3 | 59.9 | 58.8 |
| 72.5° | 37.4 | 41.7 | 34.2 | 31.0 | 32.1 | 35.3 | 38.5 | 38.5 | 37.4 | 35.3 | 33.2 |
| 75° | 22.5 | 22.5 | 16.0 | 15.0 | 15.0 | 16.0 | 16.0 | 18.2 | 18.2 | 17.1 | 16.0 |
| 77.5° | 7.5 | 8.6 | 5.3 | 4.3 | 4.3 | 4.3 | 5.3 | 6.4 | 6.4 | 5.3 | 4.3 |
| 80° | 1.1 | 2.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 2.1 | 2.1 | 1.1 |
| 82.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 |
| 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)