

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: P632837

Luminaire Tested: GWS-SA2D-740-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-740-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9140.3 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

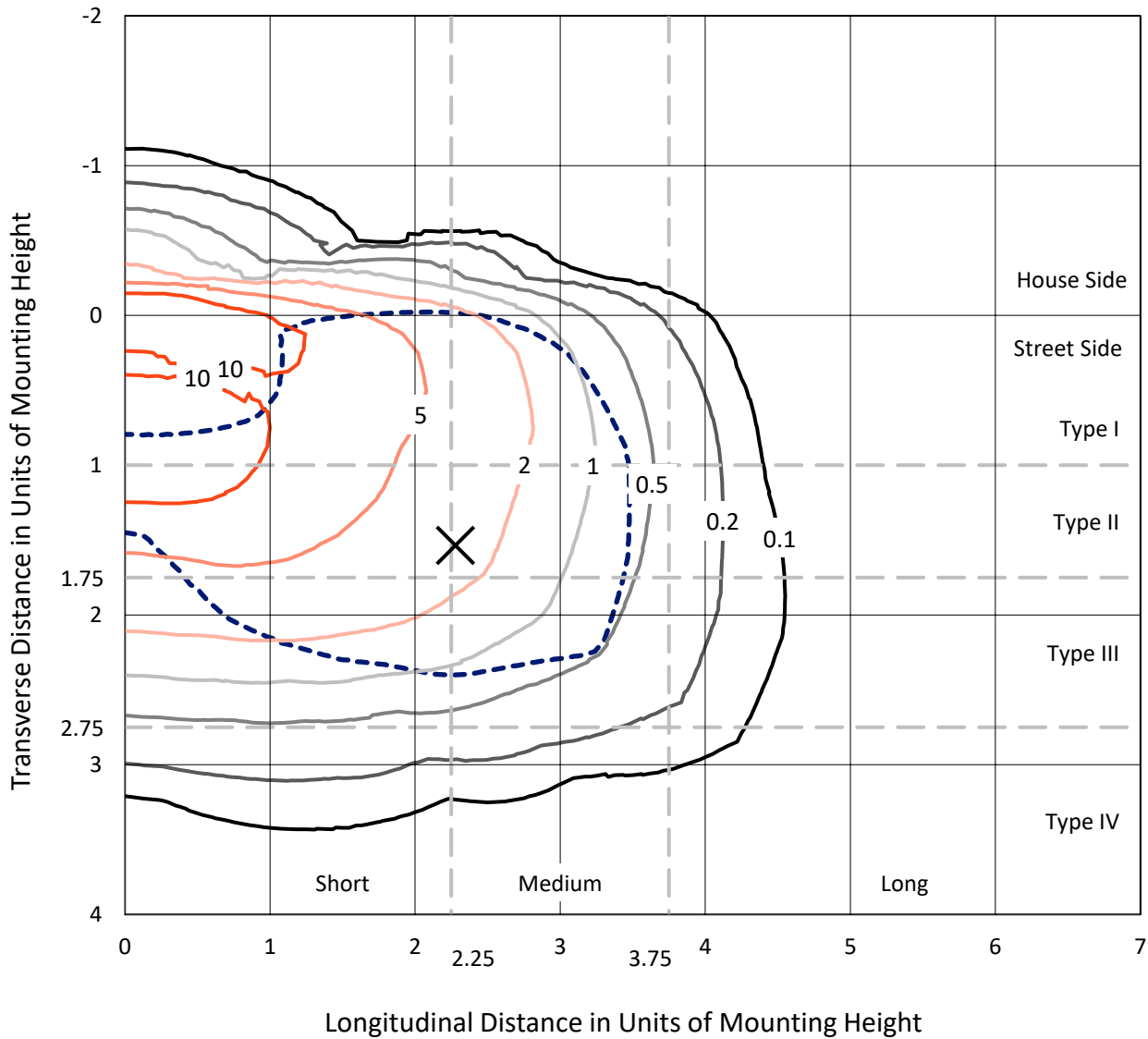
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

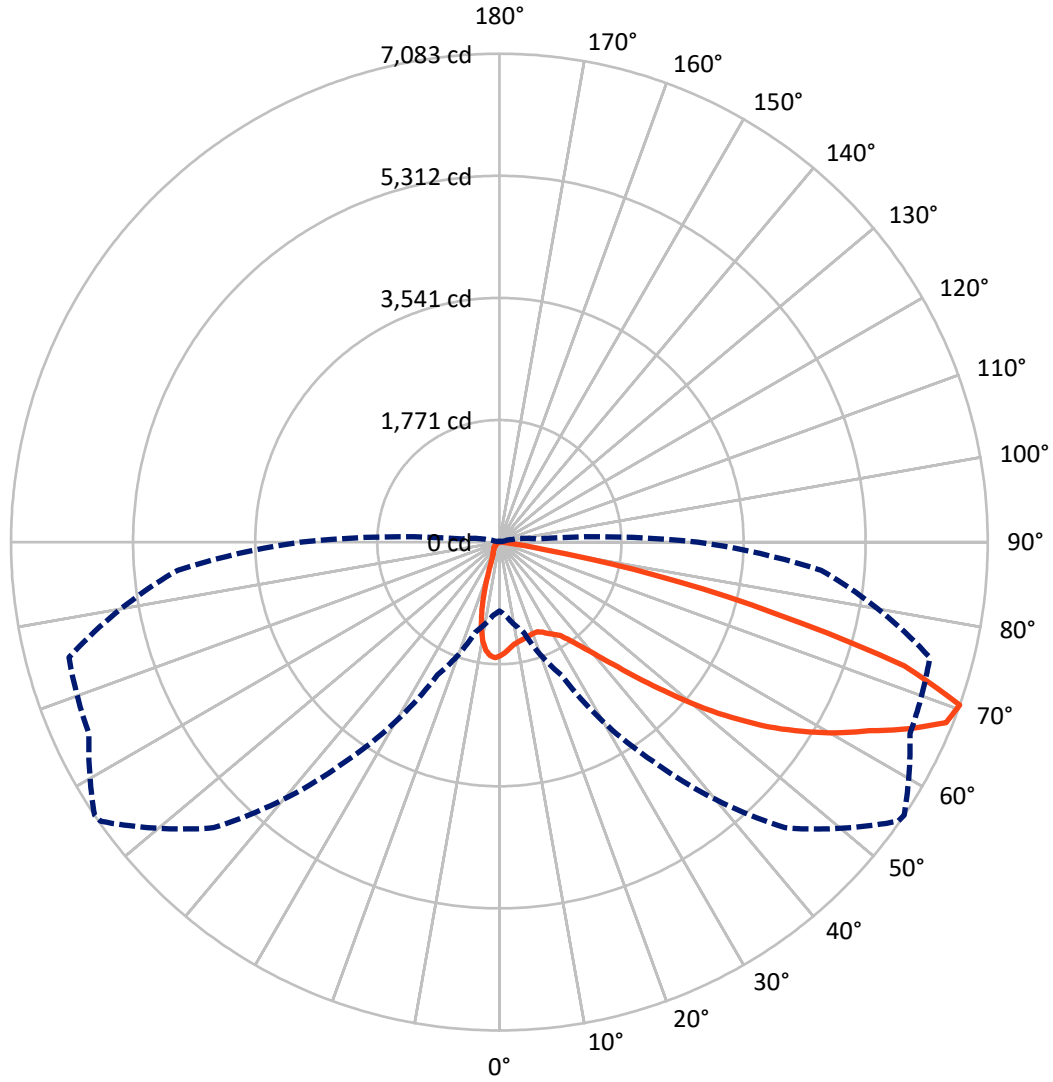
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 821.0 | 0.0 | 821.0 |
| | % Fixture | 9.0 | 0.0 | 9.0 |
| Street Side | Lumens | 8319.3 | 0.0 | 8319.3 |
| | % Fixture | 91.0 | 0.0 | 91.0 |
| Total | Lumens | 9140.3 | 0.0 | 9140.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 141.5 | 1.5 |
| 10°-20° | 318.3 | 3.5 |
| 20°-30° | 504.1 | 5.5 |
| 30°-40° | 869.3 | 9.5 |
| 40°-50° | 1468.0 | 16.1 |
| 50°-60° | 2157.0 | 23.6 |
| 60°-70° | 2557.3 | 28.0 |
| 70°-80° | 1090.5 | 11.9 |
| 80°-90° | 34.2 | 0.4 |
| 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° | 9140.3 | 100.0 |
| 0°-180° | 9140.3 | 100.0 |

Coefficient of Utilization



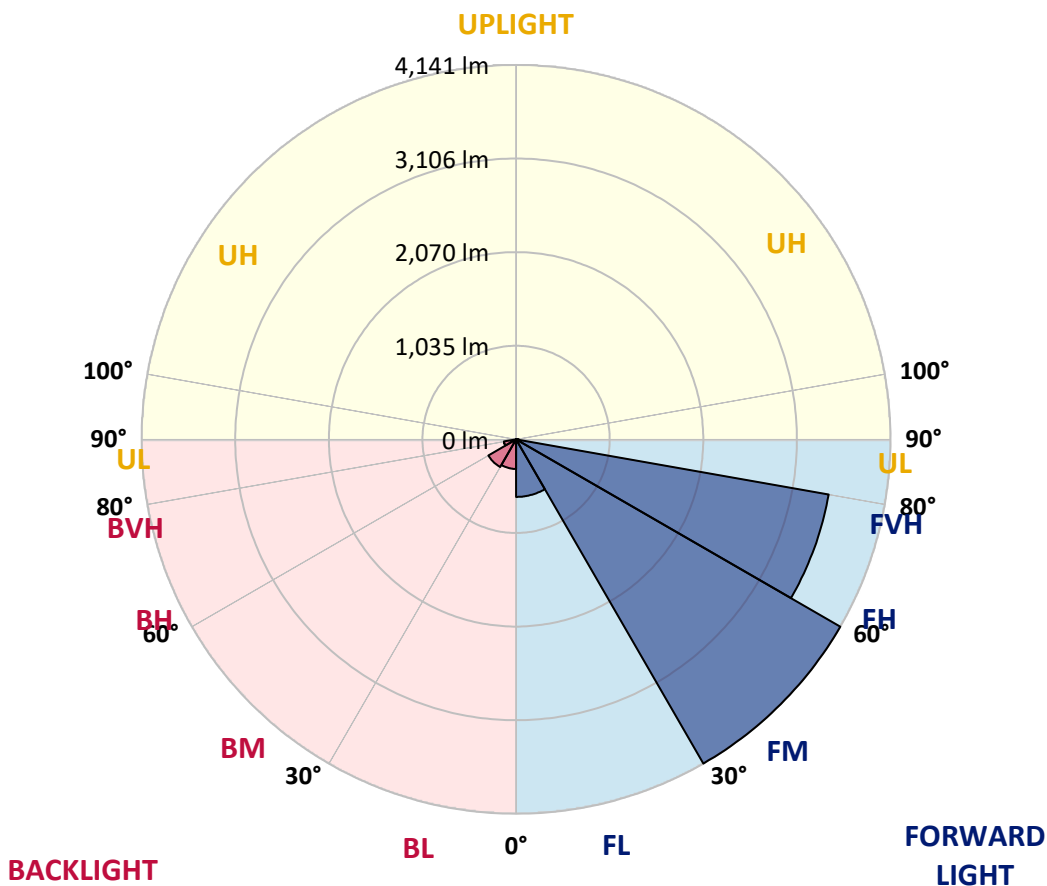
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 636.9 | 7.0 | | | |
| FM (30°-60°) | 4140.8 | 45.3 | | | |
| FH (60°-80°) | 3510.9 | 38.4 | | | G2/5000 |
| FVH (80°-90°) | 30.8 | 0.3 | | | G1/100 |
| BL (0°-30°) | 327.0 | 3.6 | B1/500 | | |
| BM (30°-60°) | 353.6 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 136.9 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.5 | 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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 |
| 2.5° | 1534.3 | 1531.7 | 1533.4 | 1546.0 | 1569.4 | 1580.3 | 1598.7 | 1602.1 | 1617.1 | 1636.4 | 1643.9 |
| 5° | 1434.6 | 1426.3 | 1430.5 | 1448.0 | 1474.8 | 1505.0 | 1539.3 | 1548.5 | 1586.1 | 1628.8 | 1660.6 |
| 7.5° | 1343.4 | 1334.2 | 1344.3 | 1371.9 | 1409.5 | 1442.2 | 1493.2 | 1499.1 | 1559.4 | 1634.7 | 1692.5 |
| 10° | 1200.3 | 1202.8 | 1222.9 | 1271.4 | 1329.2 | 1397.0 | 1465.6 | 1474.0 | 1548.5 | 1653.9 | 1743.5 |
| 12.5° | 1090.6 | 1084.8 | 1106.5 | 1161.8 | 1243.0 | 1341.7 | 1444.7 | 1455.6 | 1549.3 | 1683.2 | 1808.8 |
| 15° | 1039.6 | 1037.9 | 1047.1 | 1087.3 | 1166.0 | 1282.3 | 1425.4 | 1439.7 | 1560.2 | 1710.0 | 1870.7 |
| 17.5° | 1041.3 | 1038.7 | 1037.9 | 1061.3 | 1119.9 | 1237.9 | 1404.5 | 1422.9 | 1569.4 | 1739.3 | 1936.0 |
| 20° | 1114.1 | 1102.4 | 1081.4 | 1070.5 | 1105.7 | 1209.5 | 1390.3 | 1411.2 | 1582.8 | 1770.3 | 2005.5 |
| 22.5° | 1266.4 | 1270.6 | 1214.5 | 1155.9 | 1139.2 | 1212.8 | 1388.6 | 1412.9 | 1612.1 | 1818.8 | 2090.9 |
| 25° | 1571.1 | 1564.4 | 1460.6 | 1329.2 | 1237.9 | 1251.3 | 1417.9 | 1447.2 | 1669.9 | 1888.3 | 2171.2 |
| 27.5° | 1952.8 | 1958.6 | 1816.3 | 1607.1 | 1416.2 | 1330.9 | 1471.5 | 1500.8 | 1736.8 | 1931.8 | 2224.8 |
| 30° | 2368.8 | 2362.9 | 2210.6 | 1978.7 | 1669.0 | 1463.1 | 1525.0 | 1551.0 | 1770.3 | 1955.3 | 2280.0 |
| 32.5° | 2762.2 | 2748.8 | 2598.1 | 2355.4 | 1991.3 | 1671.5 | 1598.7 | 1613.8 | 1814.7 | 2006.3 | 2354.5 |
| 35° | 3097.8 | 3097.0 | 2965.6 | 2706.9 | 2322.7 | 1932.7 | 1725.1 | 1737.6 | 1897.5 | 2087.5 | 2464.2 |
| 37.5° | 3444.3 | 3432.6 | 3285.3 | 3049.3 | 2663.4 | 2218.9 | 1918.4 | 1913.4 | 2028.1 | 2207.2 | 2598.9 |
| 40° | 3728.9 | 3721.4 | 3608.4 | 3381.6 | 3017.4 | 2535.3 | 2152.8 | 2137.7 | 2182.9 | 2372.9 | 2786.4 |
| 42.5° | 3939.8 | 3940.7 | 3905.5 | 3767.4 | 3392.4 | 2901.1 | 2447.4 | 2424.0 | 2423.2 | 2623.2 | 3034.2 |
| 45° | 4099.7 | 4110.6 | 4163.3 | 4142.4 | 3835.2 | 3327.1 | 2824.9 | 2800.7 | 2759.6 | 2948.0 | 3317.9 |
| 47.5° | 4174.2 | 4188.4 | 4347.5 | 4431.2 | 4222.8 | 3749.8 | 3274.4 | 3223.4 | 3143.0 | 3379.9 | 3635.2 |
| 50° | 4166.7 | 4191.8 | 4413.6 | 4668.0 | 4574.3 | 4178.4 | 3764.1 | 3739.8 | 3608.4 | 3836.9 | 3949.1 |
| 52.5° | 3995.9 | 4049.5 | 4417.8 | 4812.0 | 4844.7 | 4573.5 | 4270.5 | 4225.3 | 4161.7 | 4314.0 | 4243.7 |
| 55° | 3532.2 | 3597.5 | 4241.2 | 4858.1 | 5055.6 | 4918.3 | 4766.0 | 4729.2 | 4623.7 | 4764.3 | 4500.6 |
| 57.5° | 3280.3 | 3336.4 | 3869.5 | 4835.5 | 5234.7 | 5237.2 | 5207.1 | 5177.0 | 5089.9 | 5209.6 | 4802.0 |
| 60° | 3128.8 | 3184.9 | 3671.2 | 4752.6 | 5397.1 | 5573.7 | 5621.4 | 5618.1 | 5492.5 | 5716.0 | 5155.2 |
| 62.5° | 2907.0 | 2984.0 | 3464.4 | 4537.5 | 5512.6 | 5905.2 | 6049.1 | 6026.5 | 5886.7 | 6243.3 | 5505.1 |
| 65° | 2459.2 | 2526.1 | 3040.9 | 4182.6 | 5444.8 | 6179.7 | 6512.8 | 6524.6 | 6363.0 | 6739.7 | 5781.3 |
| 67.5° | 1724.3 | 1773.6 | 2285.1 | 3437.6 | 4984.4 | 6270.1 | 6987.4 | 6986.6 | 6711.2 | 6994.1 | 5659.1 |
| 70° | 999.4 | 1067.2 | 1350.1 | 2125.2 | 3877.9 | 5859.1 | 7058.6 | 7082.8 | 6569.8 | 6462.6 | 4683.1 |
| 72.5° | 386.7 | 442.8 | 765.0 | 1129.1 | 2022.2 | 4488.1 | 6071.7 | 6142.9 | 5498.4 | 4985.3 | 3259.3 |
| 75° | 115.5 | 128.9 | 359.9 | 601.0 | 811.9 | 2167.9 | 4110.6 | 4130.7 | 3771.6 | 3109.5 | 1670.7 |
| 77.5° | 86.2 | 95.4 | 157.4 | 303.8 | 284.6 | 657.1 | 2126.9 | 2322.7 | 2002.1 | 1110.7 | 460.4 |
| 80° | 58.6 | 69.5 | 112.2 | 148.2 | 105.5 | 174.9 | 597.6 | 656.2 | 611.0 | 249.4 | 115.5 |
| 82.5° | 25.9 | 33.5 | 79.5 | 74.5 | 38.5 | 50.2 | 184.1 | 195.9 | 126.4 | 75.3 | 40.2 |
| 85° | 2.5 | 3.3 | 30.1 | 32.6 | 14.2 | 11.7 | 38.5 | 38.5 | 27.6 | 25.9 | 16.7 |
| 87.5° | 0.0 | 0.0 | 0.8 | 1.7 | 1.7 | 2.5 | 3.3 | 4.2 | 5.0 | 6.7 | 8.4 |
| 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° | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 | 1648.1 |
| 2.5° | 1663.2 | 1653.1 | 1665.7 | 1675.7 | 1678.2 | 1659.8 | 1648.9 | 1633.0 | 1629.7 | 1630.5 | 1626.3 |
| 5° | 1685.8 | 1680.7 | 1689.9 | 1679.1 | 1650.6 | 1597.0 | 1551.0 | 1499.9 | 1472.3 | 1456.4 | 1454.7 |
| 7.5° | 1727.6 | 1725.1 | 1715.0 | 1665.7 | 1576.9 | 1458.1 | 1343.4 | 1231.3 | 1161.8 | 1136.7 | 1132.5 |
| 10° | 1789.5 | 1784.5 | 1743.5 | 1626.3 | 1437.2 | 1208.7 | 1016.1 | 855.4 | 757.5 | 729.0 | 693.9 |
| 12.5° | 1860.7 | 1850.6 | 1761.1 | 1541.8 | 1226.2 | 909.8 | 669.6 | 489.7 | 405.1 | 380.0 | 380.0 |
| 15° | 1929.3 | 1907.6 | 1751.0 | 1402.0 | 966.8 | 591.8 | 374.1 | 282.9 | 257.0 | 250.3 | 250.3 |
| 17.5° | 1999.6 | 1957.8 | 1711.7 | 1211.2 | 667.9 | 349.9 | 249.4 | 231.9 | 228.5 | 229.3 | 230.2 |
| 20° | 2065.8 | 2000.5 | 1642.2 | 981.8 | 426.0 | 244.4 | 223.5 | 219.3 | 217.6 | 219.3 | 218.5 |
| 22.5° | 2137.7 | 2039.8 | 1536.8 | 731.6 | 277.1 | 220.1 | 212.6 | 209.3 | 207.6 | 210.1 | 210.1 |
| 25° | 2208.9 | 2068.3 | 1397.0 | 492.2 | 220.1 | 205.1 | 200.9 | 197.5 | 195.9 | 196.7 | 196.7 |
| 27.5° | 2245.7 | 2057.4 | 1213.7 | 313.9 | 197.5 | 190.0 | 185.8 | 181.6 | 179.1 | 178.3 | 179.1 |
| 30° | 2270.8 | 2023.9 | 989.4 | 223.5 | 179.1 | 169.9 | 165.7 | 162.4 | 155.7 | 151.5 | 153.2 |
| 32.5° | 2310.2 | 1990.4 | 745.8 | 187.5 | 164.1 | 149.8 | 143.1 | 134.8 | 125.6 | 121.4 | 121.4 |
| 35° | 2357.0 | 1944.4 | 523.1 | 169.1 | 148.2 | 133.1 | 120.5 | 106.3 | 95.4 | 92.1 | 92.1 |
| 37.5° | 2419.0 | 1900.9 | 348.2 | 156.5 | 134.8 | 118.9 | 101.3 | 84.5 | 72.8 | 71.1 | 70.3 |
| 40° | 2511.9 | 1864.0 | 245.2 | 147.3 | 123.0 | 103.8 | 82.9 | 65.3 | 56.9 | 54.4 | 54.4 |
| 42.5° | 2632.4 | 1826.4 | 194.2 | 138.1 | 113.0 | 89.6 | 66.1 | 51.9 | 45.2 | 43.5 | 42.7 |
| 45° | 2781.4 | 1782.0 | 169.1 | 129.7 | 103.0 | 74.5 | 52.7 | 43.5 | 38.5 | 36.8 | 36.8 |
| 47.5° | 2943.0 | 1721.7 | 157.4 | 118.9 | 91.2 | 60.3 | 44.4 | 37.7 | 35.2 | 34.3 | 33.5 |
| 50° | 3102.0 | 1640.6 | 147.3 | 108.8 | 77.8 | 49.4 | 38.5 | 34.3 | 32.6 | 31.8 | 31.8 |
| 52.5° | 3240.9 | 1546.0 | 134.8 | 97.1 | 63.6 | 42.7 | 34.3 | 31.8 | 30.1 | 28.5 | 27.6 |
| 55° | 3359.8 | 1443.0 | 118.9 | 83.7 | 51.9 | 37.7 | 31.8 | 29.3 | 27.6 | 25.9 | 25.1 |
| 57.5° | 3513.0 | 1384.4 | 95.4 | 67.8 | 42.7 | 33.5 | 29.3 | 26.8 | 25.1 | 22.6 | 22.6 |
| 60° | 3682.9 | 1341.7 | 71.1 | 53.6 | 36.8 | 31.0 | 26.8 | 24.3 | 22.6 | 20.1 | 20.1 |
| 62.5° | 3819.3 | 1278.1 | 56.1 | 43.5 | 31.8 | 27.6 | 24.3 | 21.8 | 20.1 | 17.6 | 17.6 |
| 65° | 3871.2 | 1146.7 | 46.0 | 34.3 | 25.9 | 24.3 | 21.8 | 20.1 | 17.6 | 15.1 | 15.1 |
| 67.5° | 3636.8 | 883.9 | 38.5 | 27.6 | 21.8 | 20.9 | 19.3 | 18.4 | 15.1 | 13.4 | 12.6 |
| 70° | 2880.2 | 539.0 | 31.8 | 22.6 | 18.4 | 17.6 | 17.6 | 15.9 | 13.4 | 12.6 | 11.7 |
| 72.5° | 1973.7 | 277.9 | 25.9 | 18.4 | 15.9 | 15.9 | 15.1 | 14.2 | 12.6 | 11.7 | 11.7 |
| 75° | 1025.3 | 92.9 | 20.1 | 14.2 | 12.6 | 13.4 | 13.4 | 12.6 | 11.7 | 11.7 | 10.9 |
| 77.5° | 293.8 | 41.9 | 15.1 | 10.9 | 10.0 | 10.0 | 10.9 | 10.9 | 10.9 | 10.0 | 10.0 |
| 80° | 76.2 | 24.3 | 10.9 | 8.4 | 8.4 | 8.4 | 8.4 | 9.2 | 10.0 | 9.2 | 9.2 |
| 82.5° | 31.0 | 13.4 | 7.5 | 6.7 | 6.7 | 6.7 | 6.7 | 7.5 | 8.4 | 8.4 | 8.4 |
| 85° | 19.3 | 6.7 | 5.9 | 5.9 | 5.9 | 5.0 | 5.0 | 5.9 | 5.9 | 6.7 | 6.7 |
| 87.5° | 11.7 | 5.0 | 5.0 | 5.0 | 5.0 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 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)