

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: P637704

Luminaire Tested: GWS-SA4D-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20227.2 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

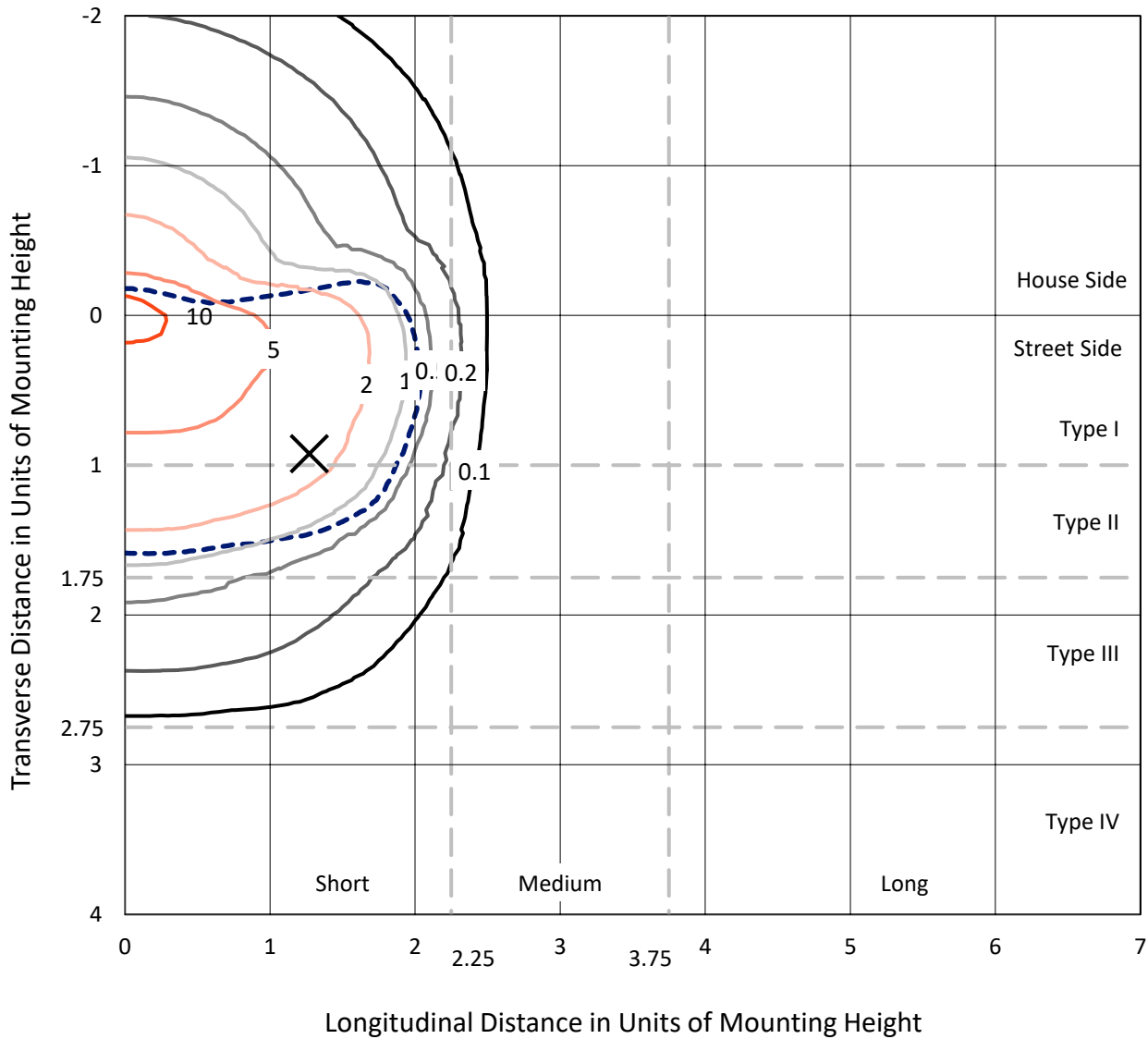
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637704
 CATALOG NUMBER: GWS-SA4D-735-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

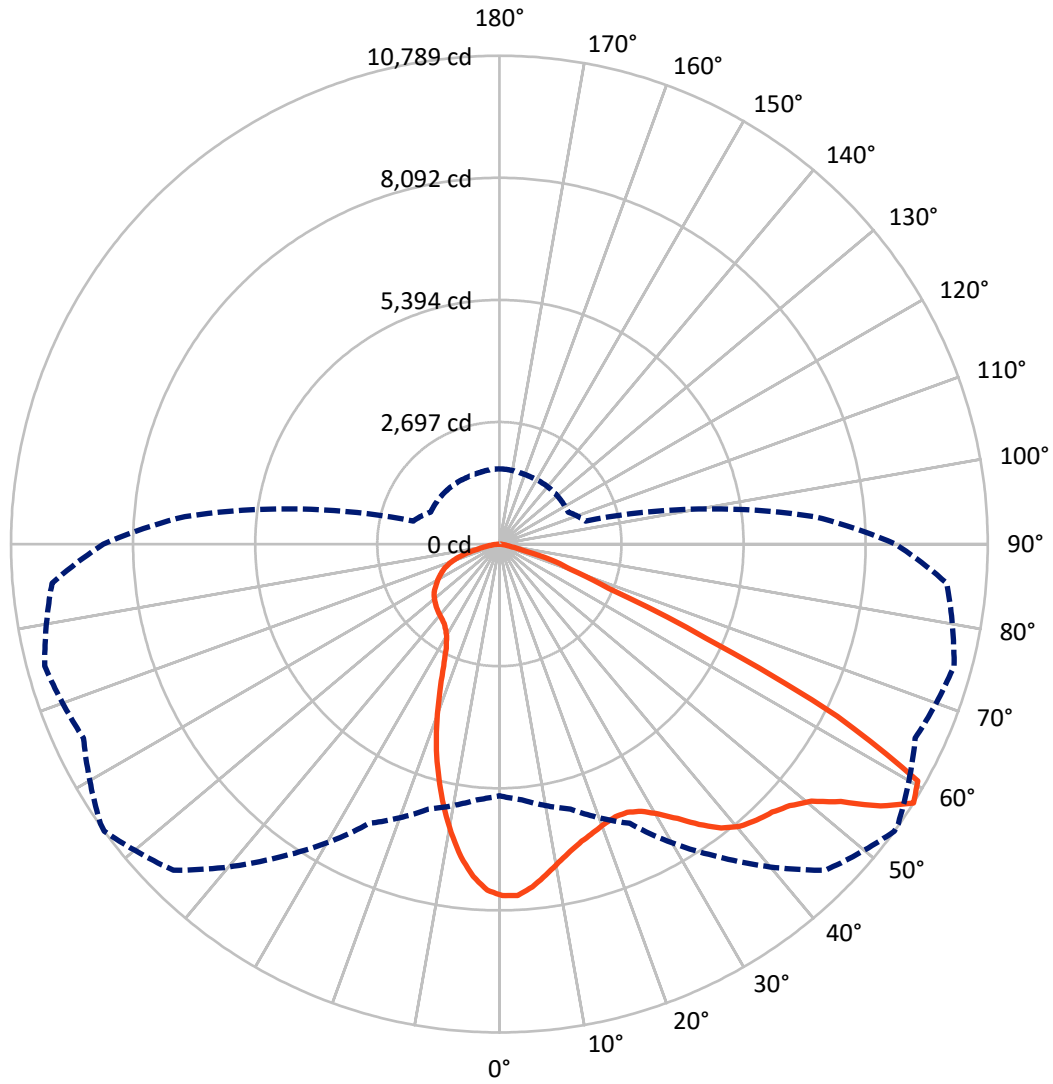
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

REPORT NUMBER: P637704
CATALOG NUMBER: GWS-SA4D-735-U-SL3-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637704

CATALOG NUMBER: GWS-SA4D-735-U-SL3-W-GRSWH

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5880.3 | 0.0 | 5880.3 |
| | % Fixture | 29.1 | 0.0 | 29.1 |
| Street Side | Lumens | 14346.9 | 0.0 | 14346.9 |
| | % Fixture | 70.9 | 0.0 | 70.9 |
| Total | Lumens | 20227.2 | 0.0 | 20227.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 682.6 | 3.4 |
| 10°-20° | 1628.8 | 8.1 |
| 20°-30° | 2254.0 | 11.1 |
| 30°-40° | 3131.9 | 15.5 |
| 40°-50° | 4136.3 | 20.4 |
| 50°-60° | 4915.3 | 24.3 |
| 60°-70° | 2723.2 | 13.5 |
| 70°-80° | 678.1 | 3.4 |
| 80°-90° | 77.1 | 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° | 20227.2 | 100.0 |
| 0°-180° | 20227.2 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P637704

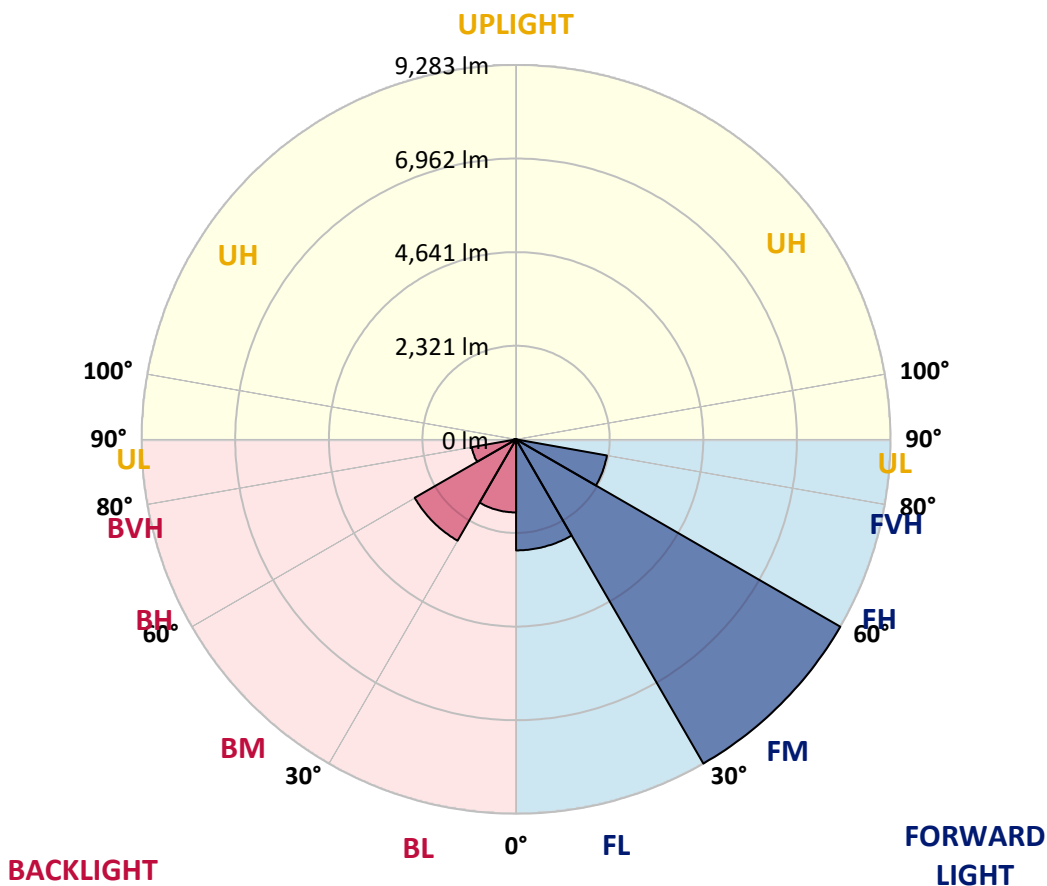
CATALOG NUMBER: GWS-SA4D-735-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2753.2 | 13.6 | | | |
| FM (30°-60°) | 9282.6 | 45.9 | | | |
| FH (60°-80°) | 2287.0 | 11.3 | | | G2/5000 |
| FVH (80°-90°) | 24.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1812.1 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 2900.9 | 14.3 | B3/5000 | | |
| BH (60°-80°) | 1114.3 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 53.0 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P637704

CATALOG NUMBER: GWS-SA4D-735-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0° | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 |
| 2.5° | 7620.2 | 7635.8 | 7646.2 | 7682.6 | 7713.7 | 7741.4 | 7770.9 | 7770.9 | 7769.1 | 7763.9 | 7753.6 |
| 5° | 7319.0 | 7336.3 | 7360.5 | 7410.7 | 7478.3 | 7526.7 | 7606.4 | 7613.3 | 7647.9 | 7661.8 | 7654.9 |
| 7.5° | 6969.2 | 6974.4 | 7005.6 | 7071.4 | 7178.7 | 7265.3 | 7379.6 | 7393.4 | 7476.5 | 7525.0 | 7516.3 |
| 10° | 6586.5 | 6569.2 | 6624.6 | 6721.6 | 6861.8 | 7007.3 | 7154.5 | 7166.6 | 7299.9 | 7391.7 | 7384.8 |
| 12.5° | 6236.8 | 6238.5 | 6293.9 | 6411.7 | 6586.5 | 6766.6 | 6964.0 | 6991.7 | 7156.2 | 7273.9 | 7261.8 |
| 15° | 5944.2 | 5951.1 | 6018.6 | 6151.9 | 6351.1 | 6565.8 | 6811.6 | 6837.6 | 7045.4 | 7201.2 | 7166.6 |
| 17.5° | 5710.4 | 5717.3 | 5776.2 | 5928.6 | 6141.6 | 6401.3 | 6700.8 | 6726.8 | 6984.8 | 7170.1 | 7099.1 |
| 20° | 5549.4 | 5545.9 | 5603.1 | 5748.5 | 5968.4 | 6250.6 | 6603.9 | 6642.0 | 6965.7 | 7182.2 | 7054.0 |
| 22.5° | 5483.6 | 5481.9 | 5523.4 | 5642.9 | 5848.9 | 6134.6 | 6545.0 | 6596.9 | 6986.5 | 7235.8 | 7026.3 |
| 25° | 5516.5 | 5509.6 | 5545.9 | 5634.2 | 5798.7 | 6089.6 | 6562.3 | 6617.7 | 7074.8 | 7346.7 | 7031.5 |
| 27.5° | 5618.6 | 5610.0 | 5641.2 | 5720.8 | 5845.5 | 6136.4 | 6683.5 | 6747.6 | 7261.8 | 7549.2 | 7100.8 |
| 30° | 5774.5 | 5769.3 | 5800.5 | 5876.6 | 5985.7 | 6292.2 | 6915.5 | 6988.2 | 7551.0 | 7864.4 | 7251.4 |
| 32.5° | 5956.3 | 5947.6 | 6003.0 | 6091.3 | 6217.7 | 6576.2 | 7227.2 | 7322.4 | 7893.8 | 8269.5 | 7504.2 |
| 35° | 6160.6 | 6153.7 | 6229.9 | 6358.0 | 6539.8 | 6970.9 | 7604.7 | 7708.5 | 8243.6 | 8728.4 | 7840.1 |
| 37.5° | 6359.7 | 6359.7 | 6506.9 | 6697.4 | 6925.9 | 7400.3 | 7959.6 | 8025.4 | 8486.0 | 9135.3 | 8200.3 |
| 40° | 6536.3 | 6546.7 | 6768.3 | 7054.0 | 7344.9 | 7788.2 | 8193.4 | 8248.8 | 8593.3 | 9415.8 | 8513.7 |
| 42.5° | 6732.0 | 6740.6 | 6998.6 | 7372.6 | 7718.9 | 8101.6 | 8335.3 | 8363.0 | 8614.1 | 9556.0 | 8735.3 |
| 45° | 6887.8 | 6899.9 | 7220.3 | 7620.2 | 8044.4 | 8337.1 | 8447.9 | 8472.1 | 8643.5 | 9632.2 | 8896.3 |
| 47.5° | 6969.2 | 6986.5 | 7353.6 | 7819.4 | 8264.3 | 8548.3 | 8633.2 | 8643.5 | 8764.7 | 9765.5 | 9090.3 |
| 50° | 6955.3 | 6990.0 | 7403.8 | 7918.1 | 8427.1 | 8761.3 | 8931.0 | 8948.3 | 9012.3 | 9961.2 | 9317.1 |
| 52.5° | 7078.3 | 7093.9 | 7511.2 | 8035.8 | 8659.1 | 9154.3 | 9448.7 | 9472.9 | 9443.5 | 10108.4 | 9452.1 |
| 55° | 6874.0 | 6948.4 | 7377.8 | 8018.5 | 9012.3 | 9762.1 | 10215.7 | 10203.6 | 9834.8 | 10272.9 | 9677.2 |
| 57.5° | 5559.8 | 5668.9 | 6061.9 | 6806.4 | 8430.6 | 10188.0 | 10788.8 | 10759.4 | 10137.8 | 10399.3 | 9921.4 |
| 60° | 3849.1 | 3866.4 | 4221.3 | 4749.4 | 6506.9 | 9000.2 | 10620.9 | 10685.0 | 10193.2 | 10240.0 | 9469.5 |
| 62.5° | 3078.6 | 3073.4 | 3106.3 | 3120.1 | 4138.2 | 6326.8 | 8383.8 | 8617.6 | 8468.7 | 7978.7 | 6711.2 |
| 65° | 2628.4 | 2647.4 | 2744.4 | 2694.2 | 2701.1 | 3563.4 | 5009.2 | 5042.1 | 4938.2 | 4761.6 | 3549.5 |
| 67.5° | 2057.0 | 2089.9 | 2261.3 | 2457.0 | 2394.6 | 2294.2 | 2598.9 | 2583.4 | 2036.2 | 1575.6 | 1302.1 |
| 70° | 1288.2 | 1309.0 | 1492.5 | 1928.9 | 2084.7 | 1883.8 | 1670.9 | 1664.0 | 1090.8 | 896.9 | 983.5 |
| 72.5° | 751.5 | 754.9 | 806.9 | 1075.2 | 1383.5 | 1288.2 | 1229.3 | 1184.3 | 701.2 | 715.1 | 784.4 |
| 75° | 413.8 | 413.8 | 412.1 | 464.0 | 545.4 | 483.1 | 467.5 | 455.4 | 469.2 | 531.6 | 583.5 |
| 77.5° | 86.6 | 88.3 | 93.5 | 122.9 | 159.3 | 193.9 | 244.1 | 245.9 | 306.5 | 355.0 | 396.5 |
| 80° | 39.8 | 41.6 | 51.9 | 65.8 | 84.8 | 112.5 | 148.9 | 150.6 | 185.3 | 223.4 | 251.1 |
| 82.5° | 20.8 | 22.5 | 27.7 | 34.6 | 45.0 | 58.9 | 83.1 | 83.1 | 110.8 | 131.6 | 148.9 |
| 85° | 6.9 | 6.9 | 10.4 | 13.9 | 19.0 | 24.2 | 32.9 | 32.9 | 48.5 | 64.1 | 74.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.5 | 6.9 | 6.9 | 8.7 | 10.4 | 17.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P637704

CATALOG NUMBER: GWS-SA4D-735-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 | 7765.7 |
| 2.5° | 7731.1 | 7677.4 | 7679.1 | 7689.5 | 7656.6 | 7606.4 | 7573.5 | 7531.9 | 7506.0 | 7500.8 | 7519.8 |
| 5° | 7620.2 | 7557.9 | 7514.6 | 7469.6 | 7376.1 | 7265.3 | 7178.7 | 7107.7 | 7061.0 | 7043.7 | 7022.9 |
| 7.5° | 7467.9 | 7386.5 | 7277.4 | 7151.0 | 6981.3 | 6783.9 | 6645.4 | 6515.6 | 6425.5 | 6399.5 | 6387.4 |
| 10° | 7315.5 | 7197.8 | 7003.8 | 6768.3 | 6486.1 | 6219.5 | 5968.4 | 5776.2 | 5623.8 | 5537.3 | 5565.0 |
| 12.5° | 7157.9 | 7012.5 | 6709.5 | 6347.6 | 5954.6 | 5552.9 | 5223.9 | 4905.3 | 4659.4 | 4536.5 | 4500.1 |
| 15° | 7019.4 | 6822.0 | 6399.5 | 5909.5 | 5386.6 | 4881.0 | 4404.9 | 3927.0 | 3615.3 | 3445.6 | 3398.9 |
| 17.5° | 6901.7 | 6645.4 | 6072.3 | 5462.8 | 4837.8 | 4117.5 | 3532.2 | 3089.0 | 2876.0 | 2782.5 | 2775.6 |
| 20° | 6785.7 | 6472.3 | 5748.5 | 4981.5 | 4204.0 | 3397.2 | 2874.3 | 2666.5 | 2590.3 | 2557.4 | 2555.7 |
| 22.5° | 6681.8 | 6290.5 | 5407.4 | 4500.1 | 3573.8 | 2855.2 | 2567.8 | 2477.7 | 2457.0 | 2457.0 | 2453.5 |
| 25° | 6593.5 | 6108.7 | 5057.6 | 3989.3 | 3004.1 | 2541.8 | 2408.5 | 2370.4 | 2379.1 | 2394.6 | 2396.4 |
| 27.5° | 6557.1 | 5966.7 | 4720.0 | 3464.7 | 2611.1 | 2360.0 | 2299.4 | 2294.2 | 2318.4 | 2342.7 | 2346.2 |
| 30° | 6595.2 | 5869.7 | 4373.7 | 2962.6 | 2375.6 | 2249.2 | 2221.5 | 2231.9 | 2261.3 | 2285.6 | 2285.6 |
| 32.5° | 6712.9 | 5821.2 | 4020.5 | 2595.5 | 2238.8 | 2171.3 | 2162.6 | 2173.0 | 2195.5 | 2209.4 | 2211.1 |
| 35° | 6912.1 | 5840.3 | 3655.2 | 2347.9 | 2150.5 | 2114.1 | 2112.4 | 2119.3 | 2128.0 | 2136.6 | 2138.4 |
| 37.5° | 7163.1 | 5925.1 | 3263.8 | 2204.2 | 2093.4 | 2072.6 | 2069.1 | 2067.4 | 2069.1 | 2069.1 | 2070.8 |
| 40° | 7409.0 | 6053.2 | 2914.1 | 2119.3 | 2053.5 | 2036.2 | 2027.6 | 2015.4 | 2013.7 | 2010.2 | 2008.5 |
| 42.5° | 7590.8 | 6151.9 | 2635.3 | 2058.7 | 2017.2 | 1996.4 | 1986.0 | 1967.0 | 1965.2 | 1963.5 | 1961.8 |
| 45° | 7727.6 | 6235.1 | 2403.3 | 1999.9 | 1979.1 | 1960.0 | 1937.5 | 1920.2 | 1923.7 | 1927.1 | 1927.1 |
| 47.5° | 7881.7 | 6307.8 | 2233.6 | 1944.5 | 1932.3 | 1913.3 | 1885.6 | 1873.5 | 1885.6 | 1897.7 | 1897.7 |
| 50° | 8068.7 | 6409.9 | 2095.1 | 1889.0 | 1883.8 | 1861.3 | 1837.1 | 1831.9 | 1845.8 | 1863.1 | 1863.1 |
| 52.5° | 8205.5 | 6498.2 | 1996.4 | 1833.6 | 1833.6 | 1804.2 | 1783.4 | 1781.7 | 1797.3 | 1814.6 | 1816.3 |
| 55° | 8461.7 | 6704.3 | 1961.8 | 1769.6 | 1762.6 | 1740.1 | 1724.6 | 1712.4 | 1731.5 | 1747.1 | 1747.1 |
| 57.5° | 8750.9 | 6977.9 | 1970.4 | 1677.8 | 1669.1 | 1662.2 | 1650.1 | 1636.2 | 1641.4 | 1658.8 | 1660.5 |
| 60° | 8137.9 | 6448.0 | 1875.2 | 1586.0 | 1580.8 | 1577.4 | 1561.8 | 1537.6 | 1544.5 | 1558.3 | 1560.1 |
| 62.5° | 5684.4 | 4285.4 | 1516.8 | 1471.8 | 1489.1 | 1487.3 | 1466.6 | 1438.9 | 1440.6 | 1459.6 | 1459.6 |
| 65° | 2950.4 | 2318.4 | 1331.5 | 1367.9 | 1393.8 | 1383.5 | 1348.8 | 1324.6 | 1321.1 | 1345.4 | 1340.2 |
| 67.5° | 1272.6 | 1265.7 | 1212.0 | 1258.8 | 1286.5 | 1264.0 | 1227.6 | 1187.8 | 1191.3 | 1199.9 | 1193.0 |
| 70° | 1025.0 | 1056.2 | 1078.7 | 1128.9 | 1151.4 | 1109.9 | 1070.1 | 1047.5 | 1028.5 | 1026.8 | 1014.6 |
| 72.5° | 819.0 | 862.3 | 912.5 | 964.4 | 971.4 | 929.8 | 879.6 | 858.8 | 829.4 | 827.6 | 815.5 |
| 75° | 616.4 | 652.8 | 692.6 | 734.1 | 734.1 | 694.3 | 661.4 | 651.0 | 616.4 | 606.0 | 595.6 |
| 77.5° | 420.7 | 443.3 | 474.4 | 484.8 | 495.2 | 479.6 | 446.7 | 429.4 | 389.6 | 379.2 | 365.3 |
| 80° | 264.9 | 280.5 | 299.5 | 306.5 | 316.9 | 297.8 | 271.8 | 252.8 | 225.1 | 216.4 | 209.5 |
| 82.5° | 159.3 | 169.7 | 181.8 | 185.3 | 193.9 | 180.1 | 155.8 | 142.0 | 126.4 | 119.5 | 114.3 |
| 85° | 81.4 | 86.6 | 93.5 | 95.2 | 93.5 | 79.6 | 71.0 | 64.1 | 53.7 | 51.9 | 48.5 |
| 87.5° | 20.8 | 24.2 | 26.0 | 24.2 | 22.5 | 17.3 | 12.1 | 8.7 | 3.5 | 3.5 | 1.7 |
| 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)