

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: P637260

Luminaire Tested: GWS-SA4C-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16533.2 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

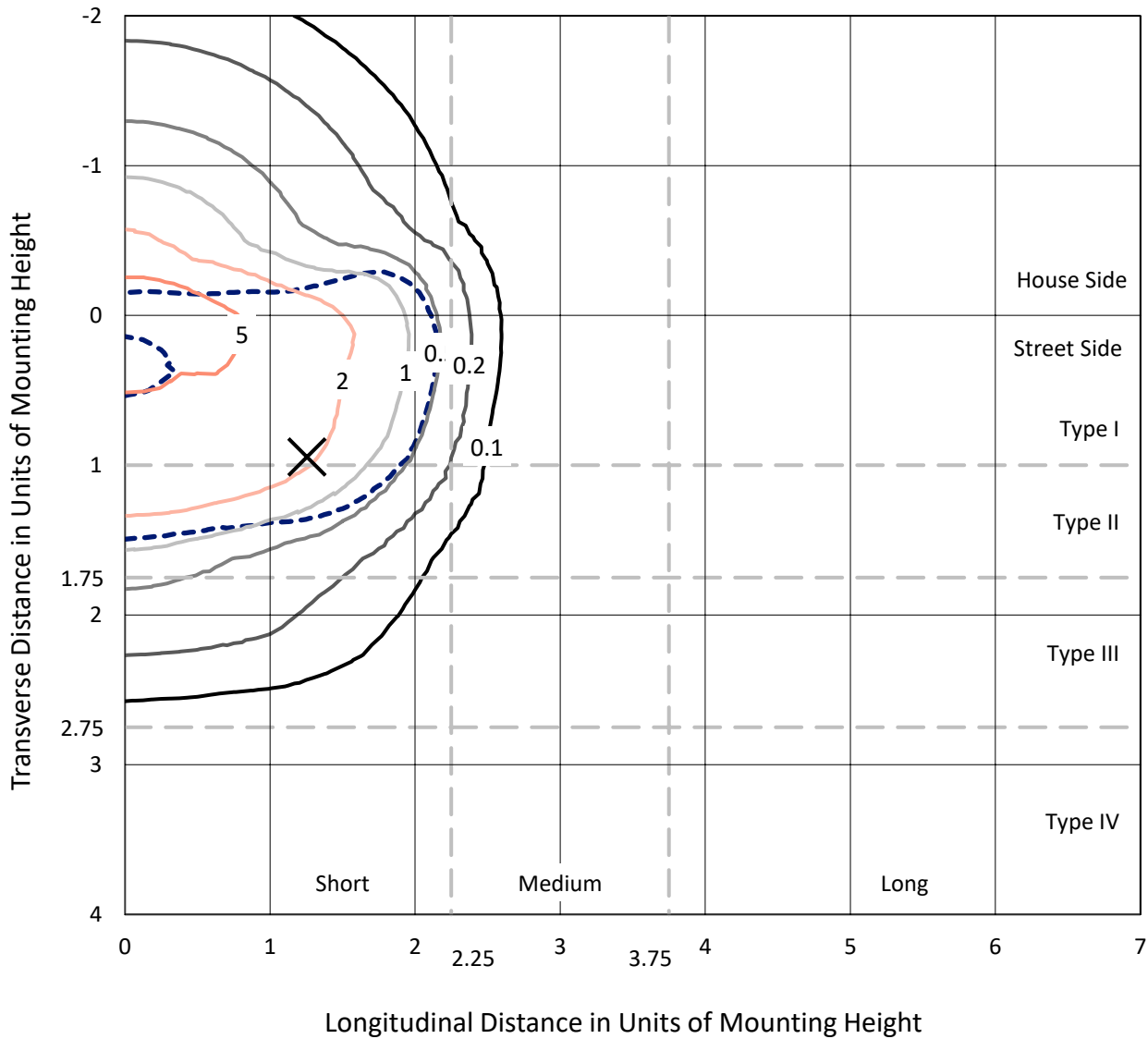
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

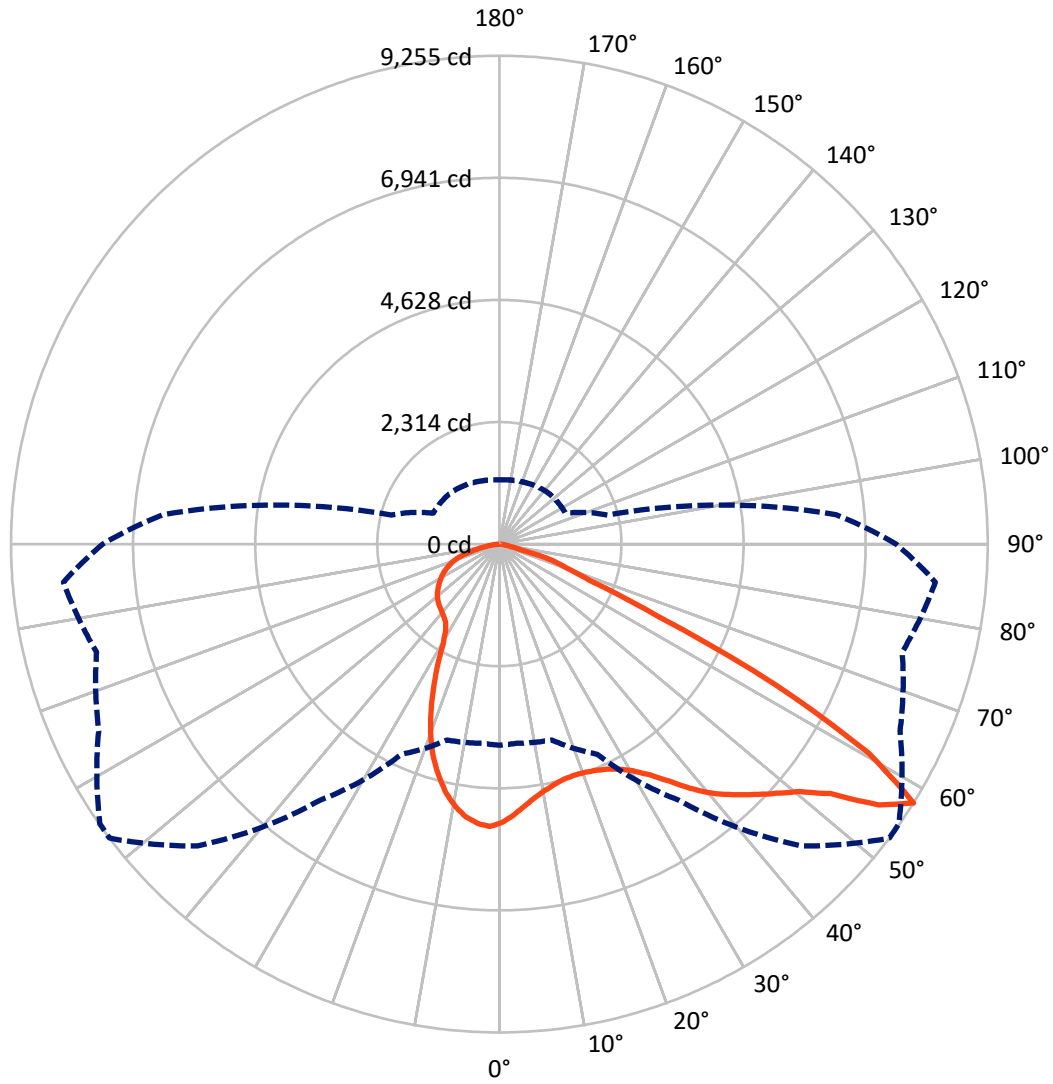
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5169.3 | 0.0 | 5169.3 |
| | % Fixture | 31.3 | 0.0 | 31.3 |
| Street Side | Lumens | 11363.9 | 0.0 | 11363.9 |
| | % Fixture | 68.7 | 0.0 | 68.7 |
| Total | Lumens | 16533.2 | 0.0 | 16533.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 477.4 | 2.9 |
| 10°-20° | 1252.5 | 7.6 |
| 20°-30° | 1845.4 | 11.2 |
| 30°-40° | 2583.1 | 15.6 |
| 40°-50° | 3395.7 | 20.5 |
| 50°-60° | 3981.5 | 24.1 |
| 60°-70° | 2345.5 | 14.2 |
| 70°-80° | 583.5 | 3.5 |
| 80°-90° | 68.5 | 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° | 16533.2 | 100.0 |
| 0°-180° | 16533.2 | 100.0 |

Coefficient of Utilization



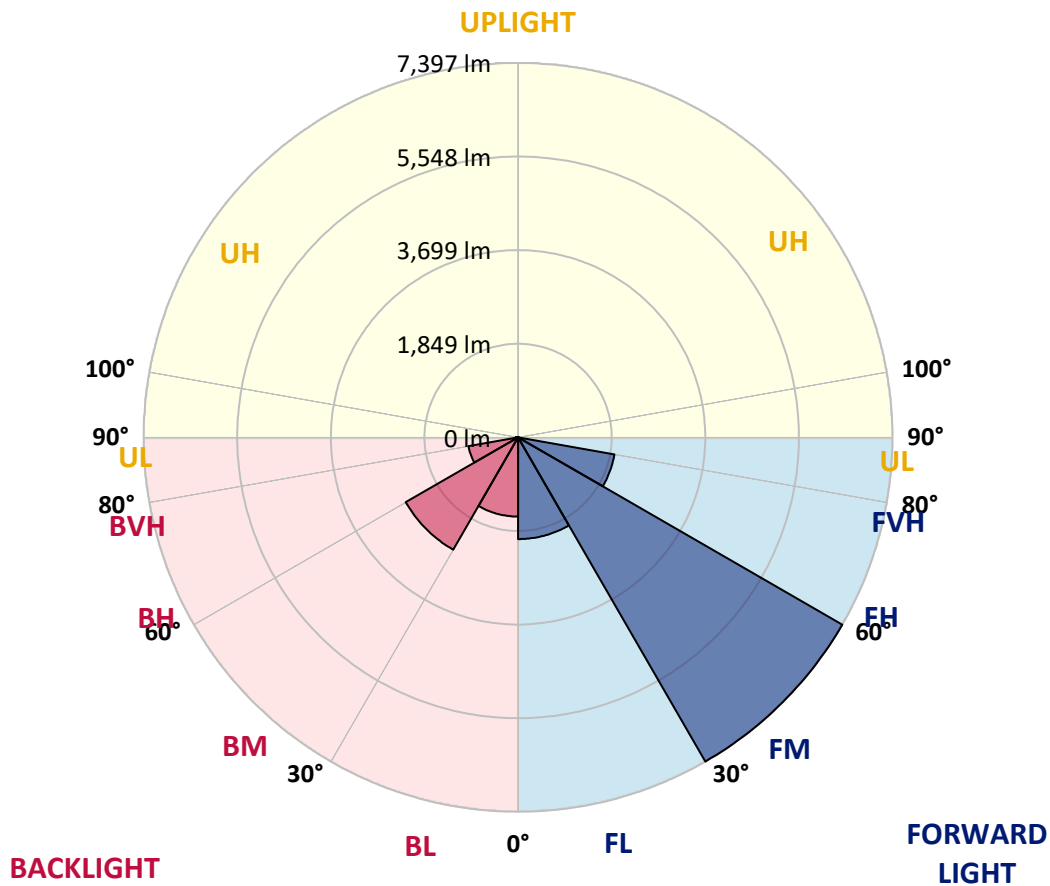
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2010.1 | 12.2 | | | |
| FM (30°-60°) | 7397.1 | 44.7 | | | |
| FH (60°-80°) | 1933.7 | 11.7 | | | G2/5000 |
| FVH (80°-90°) | 22.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1565.3 | 9.5 | B3/2500 | | |
| BM (30°-60°) | 2563.2 | 15.5 | B3/5000 | | |
| BH (60°-80°) | 995.3 | 6.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 45.6 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 |
| 2.5° | 4976.1 | 4990.1 | 4992.8 | 5036.0 | 5038.8 | 5101.4 | 5143.1 | 5134.8 | 5177.9 | 5230.8 | 5272.5 |
| 5° | 4738.2 | 4739.6 | 4753.5 | 4805.0 | 4832.8 | 4914.9 | 4984.5 | 4984.5 | 5068.0 | 5176.5 | 5269.8 |
| 7.5° | 4542.0 | 4540.6 | 4553.1 | 4610.2 | 4656.1 | 4754.9 | 4849.5 | 4860.6 | 4977.5 | 5136.2 | 5287.8 |
| 10° | 4359.7 | 4369.4 | 4383.3 | 4452.9 | 4511.4 | 4633.8 | 4746.5 | 4764.6 | 4912.1 | 5108.3 | 5312.9 |
| 12.5° | 4242.8 | 4244.2 | 4265.1 | 4343.0 | 4418.1 | 4548.9 | 4667.2 | 4689.5 | 4859.3 | 5081.9 | 5331.0 |
| 15° | 4167.7 | 4169.0 | 4191.3 | 4277.6 | 4365.3 | 4497.5 | 4618.5 | 4643.6 | 4828.6 | 5077.7 | 5365.8 |
| 17.5° | 4134.3 | 4132.9 | 4153.7 | 4240.0 | 4336.0 | 4473.8 | 4603.2 | 4633.8 | 4842.6 | 5109.7 | 5427.0 |
| 20° | 4134.3 | 4135.7 | 4146.8 | 4224.7 | 4322.1 | 4468.2 | 4618.5 | 4656.1 | 4896.8 | 5182.1 | 5521.6 |
| 22.5° | 4192.7 | 4198.3 | 4203.8 | 4256.7 | 4333.3 | 4476.6 | 4658.9 | 4709.0 | 5013.7 | 5303.2 | 5645.5 |
| 25° | 4306.8 | 4308.2 | 4313.8 | 4356.9 | 4391.7 | 4500.2 | 4725.7 | 4800.8 | 5196.0 | 5479.9 | 5801.3 |
| 27.5° | 4459.9 | 4479.4 | 4484.9 | 4512.8 | 4512.8 | 4558.7 | 4830.0 | 4938.6 | 5442.3 | 5734.5 | 6000.3 |
| 30° | 4674.2 | 4681.1 | 4690.9 | 4721.5 | 4688.1 | 4668.6 | 4983.1 | 5122.3 | 5727.6 | 6042.1 | 6239.7 |
| 32.5° | 4862.0 | 4877.3 | 4930.2 | 4980.3 | 4920.5 | 4859.3 | 5208.5 | 5372.7 | 6001.7 | 6362.1 | 6494.3 |
| 35° | 5022.1 | 5059.6 | 5161.2 | 5272.5 | 5230.8 | 5169.6 | 5507.7 | 5678.9 | 6227.1 | 6591.7 | 6719.7 |
| 37.5° | 5215.5 | 5244.7 | 5383.9 | 5564.8 | 5602.3 | 5573.1 | 5872.3 | 5994.7 | 6377.4 | 6650.2 | 6842.2 |
| 40° | 5411.7 | 5456.2 | 5635.7 | 5886.2 | 6029.5 | 6050.4 | 6209.0 | 6291.1 | 6428.9 | 6536.1 | 6818.5 |
| 42.5° | 5612.1 | 5688.6 | 5934.9 | 6227.1 | 6481.8 | 6529.1 | 6492.9 | 6527.7 | 6412.2 | 6378.8 | 6708.6 |
| 45° | 5857.0 | 5947.4 | 6225.7 | 6598.7 | 6934.0 | 7007.8 | 6771.2 | 6739.2 | 6409.4 | 6319.0 | 6640.4 |
| 47.5° | 6146.4 | 6236.9 | 6502.7 | 6936.8 | 7365.4 | 7419.7 | 7056.5 | 6998.0 | 6506.8 | 6410.8 | 6732.3 |
| 50° | 6402.5 | 6465.1 | 6703.0 | 7188.7 | 7767.6 | 7799.6 | 7371.0 | 7300.0 | 6749.0 | 6665.5 | 7018.9 |
| 52.5° | 6142.3 | 6135.3 | 6385.8 | 6984.1 | 7976.3 | 8361.8 | 7855.2 | 7787.0 | 7216.5 | 7088.5 | 7462.8 |
| 55° | 5211.3 | 5132.0 | 5356.0 | 5944.7 | 7393.2 | 8861.3 | 8723.6 | 8587.2 | 7839.9 | 7514.3 | 7878.9 |
| 57.5° | 3810.0 | 3787.8 | 3842.0 | 4394.5 | 5922.4 | 8087.6 | 9255.1 | 9242.6 | 8378.5 | 7903.9 | 8293.6 |
| 60° | 2979.3 | 2945.9 | 2801.2 | 2816.5 | 4036.9 | 6317.6 | 8032.0 | 8400.7 | 8712.4 | 8137.7 | 8583.0 |
| 62.5° | 2645.3 | 2620.3 | 2545.1 | 2337.8 | 2404.6 | 4235.8 | 5887.6 | 6225.7 | 7613.1 | 7187.3 | 7372.4 |
| 65° | 2190.3 | 2183.3 | 2245.9 | 2237.6 | 2014.9 | 2339.2 | 3323.0 | 3663.9 | 4786.9 | 4846.7 | 4786.9 |
| 67.5° | 1591.9 | 1579.4 | 1738.0 | 2051.1 | 1939.8 | 1765.9 | 1852.1 | 1970.4 | 2454.7 | 2204.2 | 1984.3 |
| 70° | 1035.3 | 1017.2 | 1109.1 | 1482.0 | 1736.6 | 1539.0 | 1334.5 | 1315.0 | 1349.8 | 839.1 | 907.3 |
| 72.5° | 694.4 | 673.5 | 672.1 | 815.4 | 1049.2 | 1036.7 | 1033.9 | 1024.2 | 914.2 | 662.4 | 734.7 |
| 75° | 386.8 | 370.1 | 366.0 | 352.1 | 375.7 | 382.7 | 407.7 | 421.6 | 456.4 | 502.3 | 556.6 |
| 77.5° | 65.4 | 64.0 | 80.7 | 103.0 | 141.9 | 182.3 | 225.4 | 238.0 | 293.6 | 347.9 | 382.7 |
| 80° | 36.2 | 37.6 | 48.7 | 59.8 | 79.3 | 108.5 | 139.2 | 147.5 | 180.9 | 210.1 | 238.0 |
| 82.5° | 19.5 | 19.5 | 25.0 | 32.0 | 43.1 | 57.1 | 75.1 | 82.1 | 104.4 | 122.5 | 141.9 |
| 85° | 7.0 | 7.0 | 9.7 | 12.5 | 18.1 | 23.7 | 29.2 | 33.4 | 45.9 | 62.6 | 71.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 2.8 | 5.6 | 5.6 | 7.0 | 12.5 | 18.1 |
| 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° | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 | 5279.5 |
| 2.5° | 5307.3 | 5269.8 | 5321.2 | 5344.9 | 5353.2 | 5358.8 | 5322.6 | 5297.6 | 5289.2 | 5262.8 | 5247.5 |
| 5° | 5326.8 | 5301.8 | 5350.5 | 5350.5 | 5315.7 | 5279.5 | 5205.7 | 5154.3 | 5118.1 | 5074.9 | 5068.0 |
| 7.5° | 5360.2 | 5342.1 | 5368.6 | 5314.3 | 5226.6 | 5129.2 | 5001.2 | 4901.0 | 4820.3 | 4767.4 | 4768.8 |
| 10° | 5404.7 | 5382.5 | 5361.6 | 5240.5 | 5080.5 | 4901.0 | 4704.8 | 4558.7 | 4425.1 | 4363.9 | 4330.5 |
| 12.5° | 5434.0 | 5402.0 | 5314.3 | 5113.9 | 4878.7 | 4638.0 | 4361.1 | 4144.0 | 3950.6 | 3862.9 | 3856.0 |
| 15° | 5470.1 | 5411.7 | 5236.4 | 4949.7 | 4622.7 | 4294.3 | 3938.1 | 3636.1 | 3374.5 | 3238.1 | 3231.2 |
| 17.5° | 5517.5 | 5421.4 | 5143.1 | 4761.8 | 4352.7 | 3868.5 | 3420.4 | 3040.5 | 2762.2 | 2656.4 | 2674.5 |
| 20° | 5584.2 | 5432.6 | 5037.4 | 4553.1 | 4017.4 | 3384.2 | 2826.2 | 2476.9 | 2369.8 | 2362.8 | 2348.9 |
| 22.5° | 5659.4 | 5439.5 | 4920.5 | 4319.3 | 3611.0 | 2868.0 | 2335.0 | 2186.1 | 2184.7 | 2219.5 | 2227.9 |
| 25° | 5744.3 | 5445.1 | 4788.3 | 4046.6 | 3171.3 | 2353.1 | 2065.0 | 2020.5 | 2055.3 | 2120.7 | 2129.1 |
| 27.5° | 5852.8 | 5456.2 | 4628.3 | 3747.4 | 2703.8 | 2033.0 | 1916.1 | 1905.0 | 1946.8 | 2008.0 | 2005.2 |
| 30° | 6012.8 | 5496.6 | 4458.5 | 3403.7 | 2223.7 | 1881.4 | 1825.7 | 1827.1 | 1843.8 | 1873.0 | 1877.2 |
| 32.5° | 6175.6 | 5559.2 | 4292.9 | 3016.9 | 1948.2 | 1795.1 | 1770.0 | 1767.3 | 1767.3 | 1779.8 | 1782.6 |
| 35° | 6330.1 | 5630.2 | 4113.4 | 2613.3 | 1814.6 | 1745.0 | 1728.3 | 1719.9 | 1715.8 | 1713.0 | 1708.8 |
| 37.5° | 6416.4 | 5665.0 | 3938.1 | 2215.3 | 1743.6 | 1711.6 | 1694.9 | 1683.8 | 1668.5 | 1657.3 | 1654.5 |
| 40° | 6378.8 | 5624.6 | 3734.9 | 1917.5 | 1700.5 | 1679.6 | 1660.1 | 1644.8 | 1623.9 | 1614.2 | 1608.6 |
| 42.5° | 6253.6 | 5499.4 | 3513.6 | 1777.0 | 1665.7 | 1644.8 | 1621.1 | 1596.1 | 1582.2 | 1573.8 | 1572.4 |
| 45° | 6121.4 | 5347.7 | 3246.5 | 1694.9 | 1632.3 | 1607.2 | 1579.4 | 1551.6 | 1536.3 | 1532.1 | 1530.7 |
| 47.5° | 6117.2 | 5272.5 | 2962.6 | 1629.5 | 1591.9 | 1566.9 | 1532.1 | 1504.3 | 1487.6 | 1482.0 | 1476.4 |
| 50° | 6300.9 | 5349.1 | 2642.5 | 1572.4 | 1550.2 | 1523.7 | 1484.8 | 1454.2 | 1433.3 | 1426.3 | 1424.9 |
| 52.5° | 6682.2 | 5637.1 | 2355.9 | 1515.4 | 1494.5 | 1463.9 | 1431.9 | 1401.3 | 1376.2 | 1363.7 | 1362.3 |
| 55° | 7094.1 | 6003.1 | 2177.8 | 1456.9 | 1429.1 | 1402.7 | 1373.4 | 1340.1 | 1312.2 | 1292.7 | 1290.0 |
| 57.5° | 7519.9 | 6402.5 | 2123.5 | 1383.2 | 1362.3 | 1344.2 | 1309.4 | 1273.3 | 1241.3 | 1223.2 | 1219.0 |
| 60° | 7870.5 | 6746.2 | 2225.1 | 1305.3 | 1294.1 | 1270.5 | 1238.5 | 1203.7 | 1181.4 | 1167.5 | 1164.7 |
| 62.5° | 6588.9 | 5492.4 | 1796.5 | 1220.4 | 1220.4 | 1195.3 | 1159.2 | 1134.1 | 1118.8 | 1109.1 | 1106.3 |
| 65° | 4181.6 | 3400.9 | 1225.9 | 1135.5 | 1134.1 | 1100.7 | 1070.1 | 1053.4 | 1046.4 | 1031.1 | 1028.3 |
| 67.5° | 1821.5 | 1554.3 | 1047.8 | 1049.2 | 1043.7 | 1007.5 | 976.9 | 964.3 | 950.4 | 933.7 | 932.3 |
| 70° | 944.9 | 962.9 | 937.9 | 953.2 | 943.5 | 900.3 | 871.1 | 851.6 | 822.4 | 805.7 | 807.1 |
| 72.5° | 762.6 | 782.0 | 809.9 | 833.5 | 812.7 | 777.9 | 731.9 | 708.3 | 670.7 | 652.6 | 654.0 |
| 75° | 581.7 | 602.5 | 629.0 | 654.0 | 637.3 | 594.2 | 565.0 | 541.3 | 498.2 | 477.3 | 481.5 |
| 77.5° | 400.8 | 411.9 | 443.9 | 442.5 | 436.9 | 424.4 | 381.3 | 353.5 | 308.9 | 283.9 | 286.7 |
| 80° | 249.1 | 256.0 | 271.4 | 278.3 | 275.5 | 258.8 | 224.0 | 203.2 | 176.7 | 161.4 | 162.8 |
| 82.5° | 150.3 | 154.5 | 168.4 | 169.8 | 168.4 | 155.9 | 129.4 | 114.1 | 97.4 | 89.1 | 89.1 |
| 85° | 76.5 | 79.3 | 87.7 | 87.7 | 79.3 | 66.8 | 59.8 | 52.9 | 43.1 | 39.0 | 39.0 |
| 87.5° | 20.9 | 20.9 | 26.4 | 22.3 | 18.1 | 16.7 | 8.3 | 7.0 | 2.8 | 1.4 | 1.4 |
| 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)