

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: P639185

Luminaire Tested: GWS-SA5B-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639185
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-SA5B-735-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14915.6 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

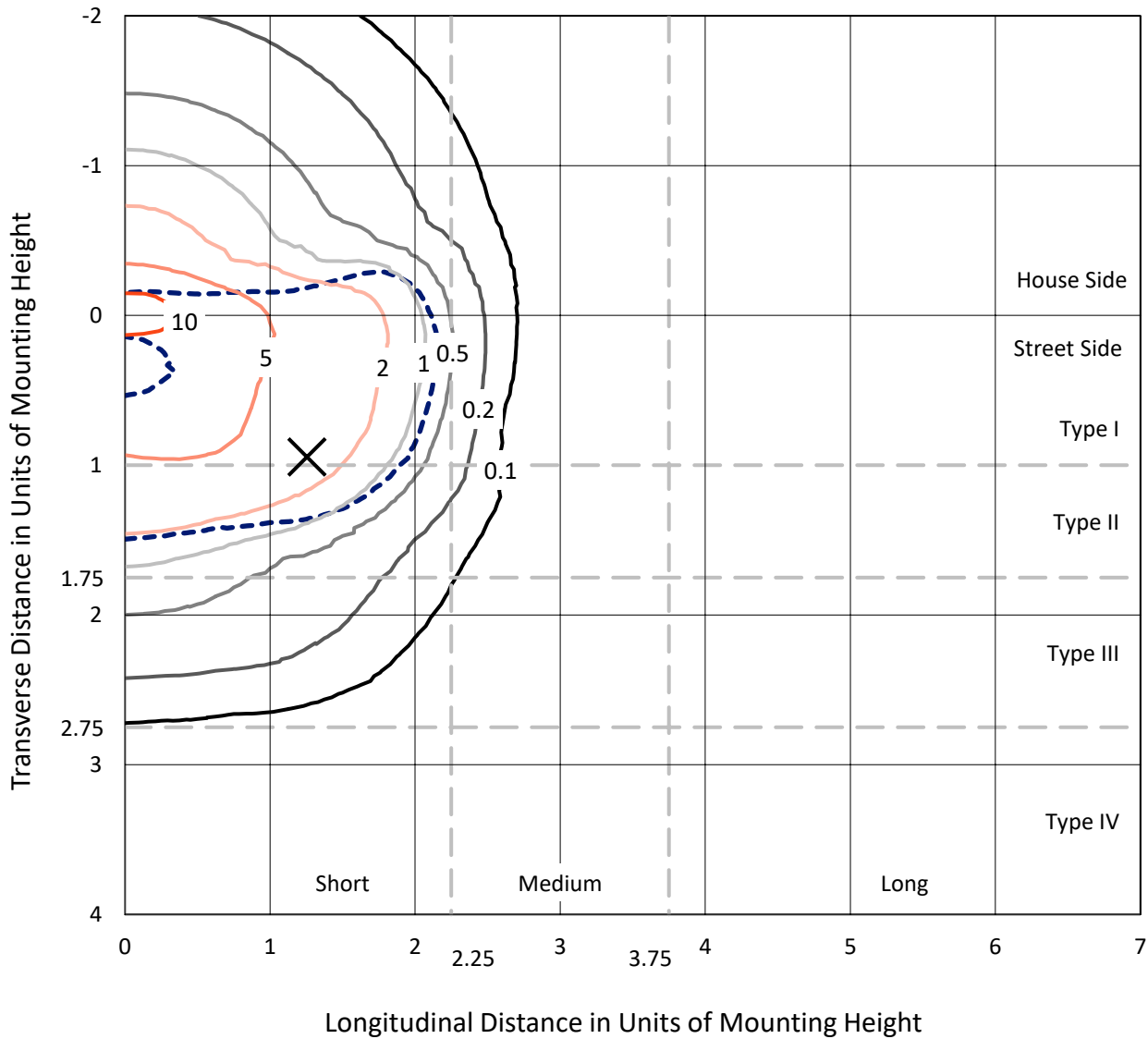
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

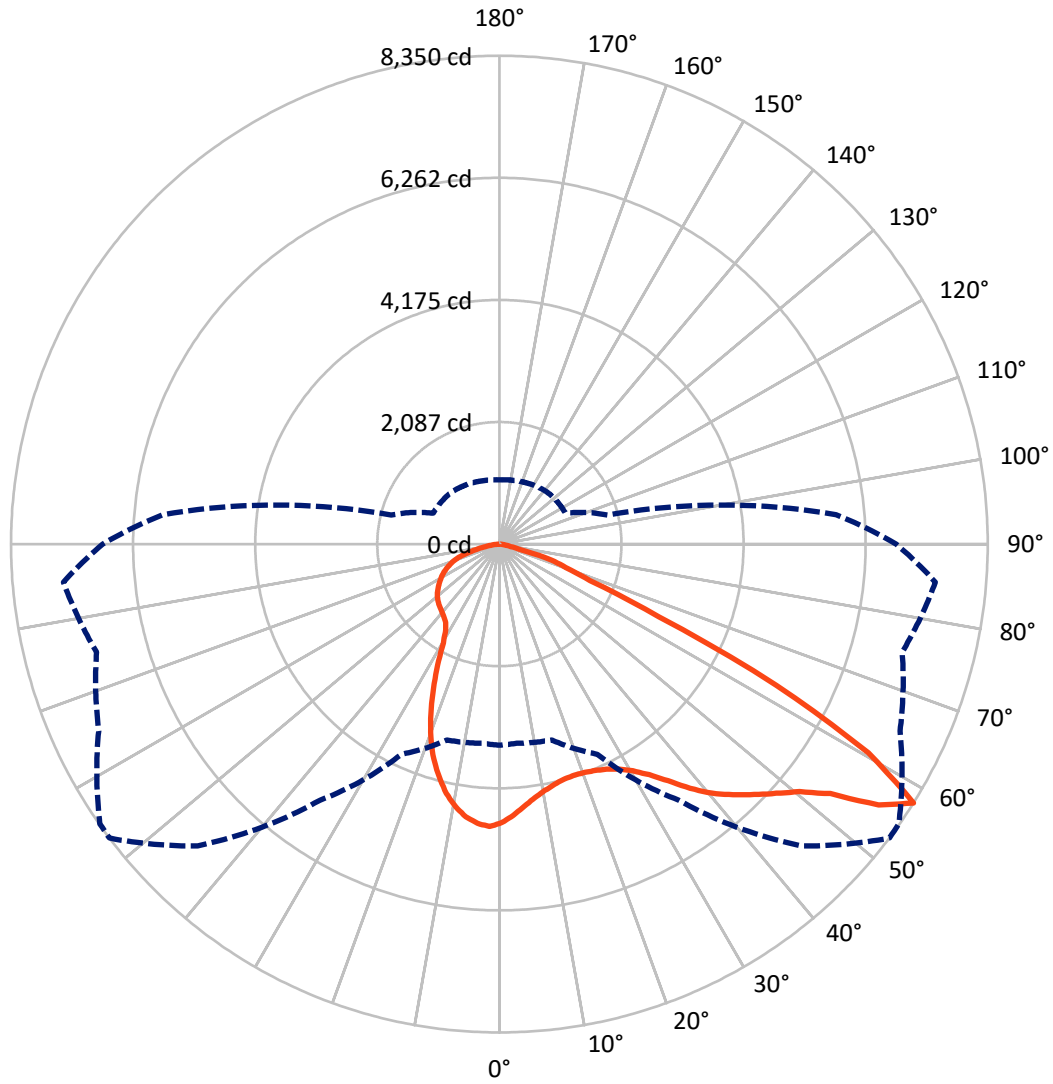
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.9 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 | 4663.6 | 0.0 | 4663.6 |
| | % Fixture | 31.3 | 0.0 | 31.3 |
| Street Side | Lumens | 10252.0 | 0.0 | 10252.0 |
| | % Fixture | 68.7 | 0.0 | 68.7 |
| Total | Lumens | 14915.6 | 0.0 | 14915.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 430.7 | 2.9 |
| 10°-20° | 1130.0 | 7.6 |
| 20°-30° | 1664.9 | 11.2 |
| 30°-40° | 2330.4 | 15.6 |
| 40°-50° | 3063.5 | 20.5 |
| 50°-60° | 3591.9 | 24.1 |
| 60°-70° | 2116.0 | 14.2 |
| 70°-80° | 526.4 | 3.5 |
| 80°-90° | 61.8 | 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° | 14915.6 | 100.0 |
| 0°-180° | 14915.6 | 100.0 |

Coefficient of Utilization



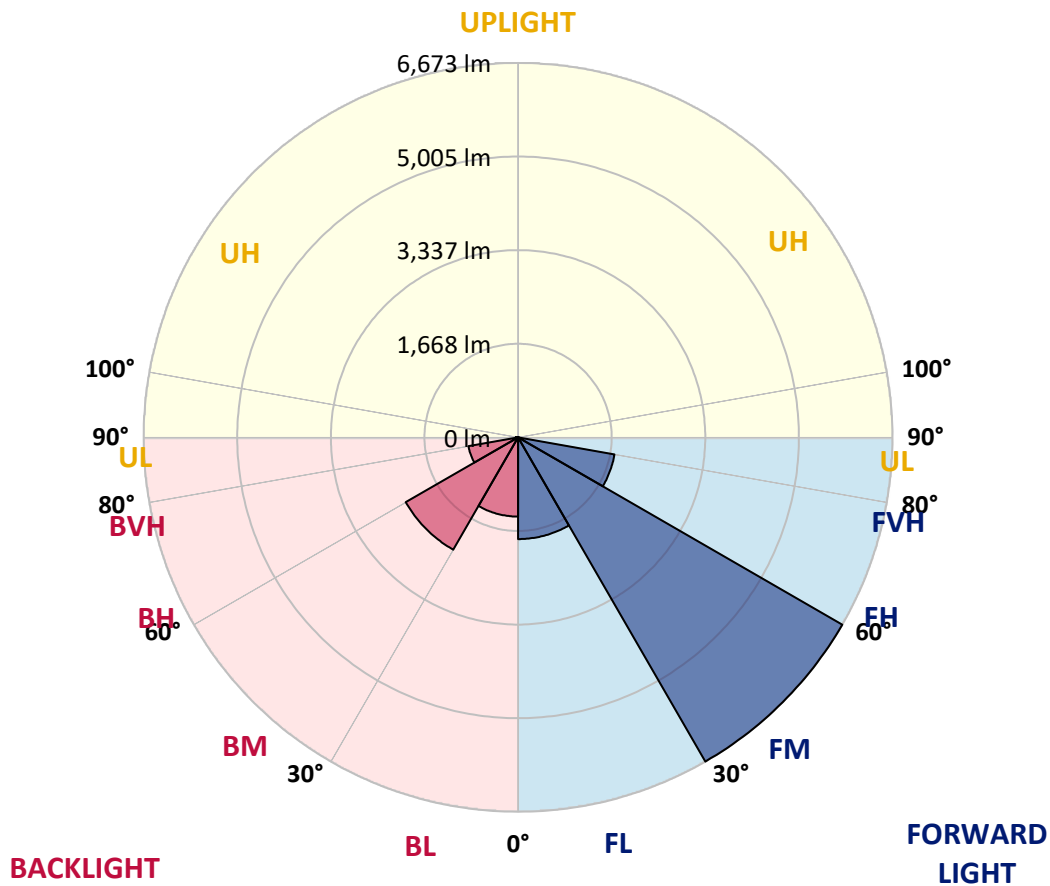
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1813.4 | 12.2 | | | |
| FM (30°-60°) | 6673.4 | 44.7 | | | |
| FH (60°-80°) | 1744.6 | 11.7 | | | G1/1800 |
| FVH (80°-90°) | 20.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1412.1 | 9.5 | B3/2500 | | |
| BM (30°-60°) | 2312.4 | 15.5 | B2/2500 | | |
| BH (60°-80°) | 897.9 | 6.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 41.1 | 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° | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 |
| 2.5° | 4489.3 | 4501.8 | 4504.3 | 4543.3 | 4545.8 | 4602.3 | 4639.9 | 4632.4 | 4671.3 | 4719.0 | 4756.7 |
| 5° | 4274.6 | 4275.9 | 4288.4 | 4334.9 | 4360.0 | 4434.0 | 4496.8 | 4496.8 | 4572.1 | 4670.1 | 4754.2 |
| 7.5° | 4097.6 | 4096.3 | 4107.6 | 4159.1 | 4200.5 | 4289.7 | 4375.0 | 4385.1 | 4490.5 | 4633.6 | 4770.5 |
| 10° | 3933.1 | 3941.9 | 3954.5 | 4017.3 | 4070.0 | 4180.5 | 4282.1 | 4298.5 | 4431.5 | 4608.5 | 4793.1 |
| 12.5° | 3827.7 | 3828.9 | 3847.8 | 3918.1 | 3985.9 | 4103.9 | 4210.6 | 4230.7 | 4383.8 | 4584.7 | 4809.4 |
| 15° | 3759.9 | 3761.2 | 3781.2 | 3859.1 | 3938.2 | 4057.4 | 4166.6 | 4189.2 | 4356.2 | 4580.9 | 4840.8 |
| 17.5° | 3729.8 | 3728.5 | 3747.3 | 3825.2 | 3911.8 | 4036.1 | 4152.8 | 4180.5 | 4368.8 | 4609.8 | 4896.0 |
| 20° | 3729.8 | 3731.0 | 3741.1 | 3811.4 | 3899.2 | 4031.1 | 4166.6 | 4200.5 | 4417.7 | 4675.1 | 4981.4 |
| 22.5° | 3782.5 | 3787.5 | 3792.5 | 3840.2 | 3909.3 | 4038.6 | 4203.0 | 4248.2 | 4523.2 | 4784.3 | 5093.1 |
| 25° | 3885.4 | 3886.7 | 3891.7 | 3930.6 | 3962.0 | 4059.9 | 4263.3 | 4331.1 | 4687.6 | 4943.7 | 5233.7 |
| 27.5° | 4023.5 | 4041.1 | 4046.1 | 4071.2 | 4071.2 | 4112.7 | 4357.5 | 4455.4 | 4909.8 | 5173.5 | 5413.2 |
| 30° | 4216.9 | 4223.1 | 4231.9 | 4259.5 | 4229.4 | 4211.8 | 4495.6 | 4621.1 | 5167.2 | 5450.9 | 5629.2 |
| 32.5° | 4386.3 | 4400.1 | 4447.9 | 4493.0 | 4439.1 | 4383.8 | 4698.9 | 4847.1 | 5414.5 | 5739.6 | 5858.9 |
| 35° | 4530.7 | 4564.6 | 4656.2 | 4756.7 | 4719.0 | 4663.8 | 4968.8 | 5123.3 | 5617.9 | 5946.8 | 6062.3 |
| 37.5° | 4705.2 | 4731.6 | 4857.1 | 5020.3 | 5054.2 | 5027.8 | 5297.8 | 5408.2 | 5753.5 | 5999.5 | 6172.8 |
| 40° | 4882.2 | 4922.4 | 5084.3 | 5310.3 | 5439.6 | 5458.4 | 5601.6 | 5675.6 | 5799.9 | 5896.6 | 6151.4 |
| 42.5° | 5063.0 | 5132.0 | 5354.2 | 5617.9 | 5847.6 | 5890.3 | 5857.7 | 5889.0 | 5784.8 | 5754.7 | 6052.2 |
| 45° | 5283.9 | 5365.5 | 5616.6 | 5953.1 | 6255.6 | 6322.1 | 6108.7 | 6079.9 | 5782.3 | 5700.7 | 5990.7 |
| 47.5° | 5545.1 | 5626.7 | 5866.4 | 6258.1 | 6644.8 | 6693.7 | 6366.1 | 6313.4 | 5870.2 | 5783.6 | 6073.6 |
| 50° | 5776.1 | 5832.5 | 6047.2 | 6485.4 | 7007.6 | 7036.5 | 6649.8 | 6585.8 | 6088.6 | 6013.3 | 6332.2 |
| 52.5° | 5541.3 | 5535.0 | 5761.0 | 6300.8 | 7195.9 | 7543.6 | 7086.7 | 7025.2 | 6510.5 | 6395.0 | 6732.7 |
| 55° | 4701.4 | 4629.9 | 4832.0 | 5363.0 | 6669.9 | 7994.3 | 7870.0 | 7747.0 | 7072.9 | 6779.1 | 7108.0 |
| 57.5° | 3437.3 | 3417.2 | 3466.1 | 3964.5 | 5342.9 | 7296.3 | 8349.6 | 8338.3 | 7558.7 | 7130.6 | 7482.1 |
| 60° | 2687.8 | 2657.7 | 2527.1 | 2540.9 | 3641.9 | 5699.5 | 7246.1 | 7578.8 | 7860.0 | 7341.5 | 7743.3 |
| 62.5° | 2386.5 | 2363.9 | 2296.1 | 2109.1 | 2169.3 | 3821.4 | 5311.6 | 5616.6 | 6868.2 | 6484.1 | 6651.1 |
| 65° | 1976.0 | 1969.7 | 2026.2 | 2018.7 | 1817.8 | 2110.3 | 2997.9 | 3305.4 | 4318.5 | 4372.5 | 4318.5 |
| 67.5° | 1436.2 | 1424.9 | 1568.0 | 1850.4 | 1750.0 | 1593.1 | 1670.9 | 1777.6 | 2214.5 | 1988.5 | 1790.2 |
| 70° | 934.0 | 917.7 | 1000.5 | 1337.0 | 1566.7 | 1388.5 | 1203.9 | 1186.3 | 1217.7 | 757.0 | 818.5 |
| 72.5° | 626.4 | 607.6 | 606.4 | 735.7 | 946.6 | 935.3 | 932.8 | 924.0 | 824.8 | 597.6 | 662.8 |
| 75° | 349.0 | 333.9 | 330.2 | 317.6 | 339.0 | 345.2 | 367.8 | 380.4 | 411.8 | 453.2 | 502.2 |
| 77.5° | 59.0 | 57.7 | 72.8 | 92.9 | 128.0 | 164.5 | 203.4 | 214.7 | 264.9 | 313.8 | 345.2 |
| 80° | 32.6 | 33.9 | 43.9 | 54.0 | 71.6 | 97.9 | 125.5 | 133.1 | 163.2 | 189.6 | 214.7 |
| 82.5° | 17.6 | 17.6 | 22.6 | 28.9 | 38.9 | 51.5 | 67.8 | 74.1 | 94.2 | 110.5 | 128.0 |
| 85° | 6.3 | 6.3 | 8.8 | 11.3 | 16.3 | 21.3 | 26.4 | 30.1 | 41.4 | 56.5 | 64.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 2.5 | 5.0 | 5.0 | 6.3 | 11.3 | 16.3 |
| 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° | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 | 4763.0 |
| 2.5° | 4788.1 | 4754.2 | 4800.6 | 4822.0 | 4829.5 | 4834.5 | 4801.9 | 4779.3 | 4771.7 | 4747.9 | 4734.1 |
| 5° | 4805.6 | 4783.0 | 4827.0 | 4827.0 | 4795.6 | 4763.0 | 4696.4 | 4650.0 | 4617.3 | 4578.4 | 4572.1 |
| 7.5° | 4835.8 | 4819.4 | 4843.3 | 4794.3 | 4715.2 | 4627.4 | 4511.9 | 4421.5 | 4348.7 | 4301.0 | 4302.2 |
| 10° | 4875.9 | 4855.9 | 4837.0 | 4727.8 | 4583.4 | 4421.5 | 4244.5 | 4112.7 | 3992.1 | 3936.9 | 3906.8 |
| 12.5° | 4902.3 | 4873.4 | 4794.3 | 4613.6 | 4401.4 | 4184.2 | 3934.4 | 3738.6 | 3564.1 | 3485.0 | 3478.7 |
| 15° | 4934.9 | 4882.2 | 4724.0 | 4465.4 | 4170.4 | 3874.1 | 3552.8 | 3280.3 | 3044.3 | 2921.3 | 2915.0 |
| 17.5° | 4977.6 | 4891.0 | 4639.9 | 4295.9 | 3926.9 | 3490.0 | 3085.8 | 2743.0 | 2492.0 | 2396.5 | 2412.9 |
| 20° | 5037.9 | 4901.0 | 4544.5 | 4107.6 | 3624.3 | 3053.1 | 2549.7 | 2234.6 | 2137.9 | 2131.7 | 2119.1 |
| 22.5° | 5105.7 | 4907.3 | 4439.1 | 3896.7 | 3257.7 | 2587.4 | 2106.5 | 1972.2 | 1971.0 | 2002.3 | 2009.9 |
| 25° | 5182.3 | 4912.3 | 4319.8 | 3650.7 | 2861.0 | 2122.9 | 1863.0 | 1822.8 | 1854.2 | 1913.2 | 1920.7 |
| 27.5° | 5280.2 | 4922.4 | 4175.4 | 3380.8 | 2439.2 | 1834.1 | 1728.7 | 1718.6 | 1756.3 | 1811.5 | 1809.0 |
| 30° | 5424.5 | 4958.8 | 4022.3 | 3070.7 | 2006.1 | 1697.3 | 1647.1 | 1648.3 | 1663.4 | 1689.8 | 1693.5 |
| 32.5° | 5571.4 | 5015.3 | 3872.9 | 2721.7 | 1757.5 | 1619.5 | 1596.9 | 1594.3 | 1594.3 | 1605.6 | 1608.2 |
| 35° | 5710.8 | 5079.3 | 3710.9 | 2357.6 | 1637.0 | 1574.3 | 1559.2 | 1551.7 | 1547.9 | 1545.4 | 1541.6 |
| 37.5° | 5788.6 | 5110.7 | 3552.8 | 1998.6 | 1573.0 | 1544.1 | 1529.1 | 1519.0 | 1505.2 | 1495.2 | 1492.7 |
| 40° | 5754.7 | 5074.3 | 3369.5 | 1729.9 | 1534.1 | 1515.3 | 1497.7 | 1483.9 | 1465.0 | 1456.3 | 1451.2 |
| 42.5° | 5641.7 | 4961.3 | 3169.9 | 1603.1 | 1502.7 | 1483.9 | 1462.5 | 1439.9 | 1427.4 | 1419.8 | 1418.6 |
| 45° | 5522.5 | 4824.5 | 2928.8 | 1529.1 | 1472.6 | 1450.0 | 1424.9 | 1399.8 | 1386.0 | 1382.2 | 1380.9 |
| 47.5° | 5518.7 | 4756.7 | 2672.7 | 1470.1 | 1436.2 | 1413.6 | 1382.2 | 1357.1 | 1342.0 | 1337.0 | 1332.0 |
| 50° | 5684.4 | 4825.7 | 2384.0 | 1418.6 | 1398.5 | 1374.7 | 1339.5 | 1311.9 | 1293.1 | 1286.8 | 1285.5 |
| 52.5° | 6028.4 | 5085.6 | 2125.4 | 1367.1 | 1348.3 | 1320.7 | 1291.8 | 1264.2 | 1241.6 | 1230.3 | 1229.0 |
| 55° | 6400.0 | 5415.8 | 1964.7 | 1314.4 | 1289.3 | 1265.4 | 1239.1 | 1208.9 | 1183.8 | 1166.3 | 1163.7 |
| 57.5° | 6784.1 | 5776.1 | 1915.7 | 1247.9 | 1229.0 | 1212.7 | 1181.3 | 1148.7 | 1119.8 | 1103.5 | 1099.7 |
| 60° | 7100.5 | 6086.1 | 2007.4 | 1177.6 | 1167.5 | 1146.2 | 1117.3 | 1085.9 | 1065.8 | 1053.3 | 1050.8 |
| 62.5° | 5944.3 | 4955.0 | 1620.7 | 1101.0 | 1101.0 | 1078.4 | 1045.7 | 1023.1 | 1009.3 | 1000.5 | 998.0 |
| 65° | 3772.5 | 3068.2 | 1106.0 | 1024.4 | 1023.1 | 993.0 | 965.4 | 950.3 | 944.1 | 930.2 | 927.7 |
| 67.5° | 1643.3 | 1402.3 | 945.3 | 946.6 | 941.5 | 908.9 | 881.3 | 870.0 | 857.4 | 842.4 | 841.1 |
| 70° | 852.4 | 868.7 | 846.1 | 859.9 | 851.2 | 812.2 | 785.9 | 768.3 | 741.9 | 726.9 | 728.1 |
| 72.5° | 688.0 | 705.5 | 730.6 | 752.0 | 733.1 | 701.8 | 660.3 | 639.0 | 605.1 | 588.8 | 590.0 |
| 75° | 524.8 | 543.6 | 567.4 | 590.0 | 575.0 | 536.1 | 509.7 | 488.3 | 449.4 | 430.6 | 434.4 |
| 77.5° | 361.6 | 371.6 | 400.5 | 399.2 | 394.2 | 382.9 | 344.0 | 318.9 | 278.7 | 256.1 | 258.6 |
| 80° | 224.7 | 231.0 | 244.8 | 251.1 | 248.6 | 233.5 | 202.1 | 183.3 | 159.4 | 145.6 | 146.9 |
| 82.5° | 135.6 | 139.3 | 151.9 | 153.2 | 151.9 | 140.6 | 116.8 | 102.9 | 87.9 | 80.3 | 80.3 |
| 85° | 69.0 | 71.6 | 79.1 | 79.1 | 71.6 | 60.3 | 54.0 | 47.7 | 38.9 | 35.2 | 35.2 |
| 87.5° | 18.8 | 18.8 | 23.9 | 20.1 | 16.3 | 15.1 | 7.5 | 6.3 | 2.5 | 1.3 | 1.3 |
| 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)