

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: P643226

Luminaire Tested: GWS-SA6E-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27642.7 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

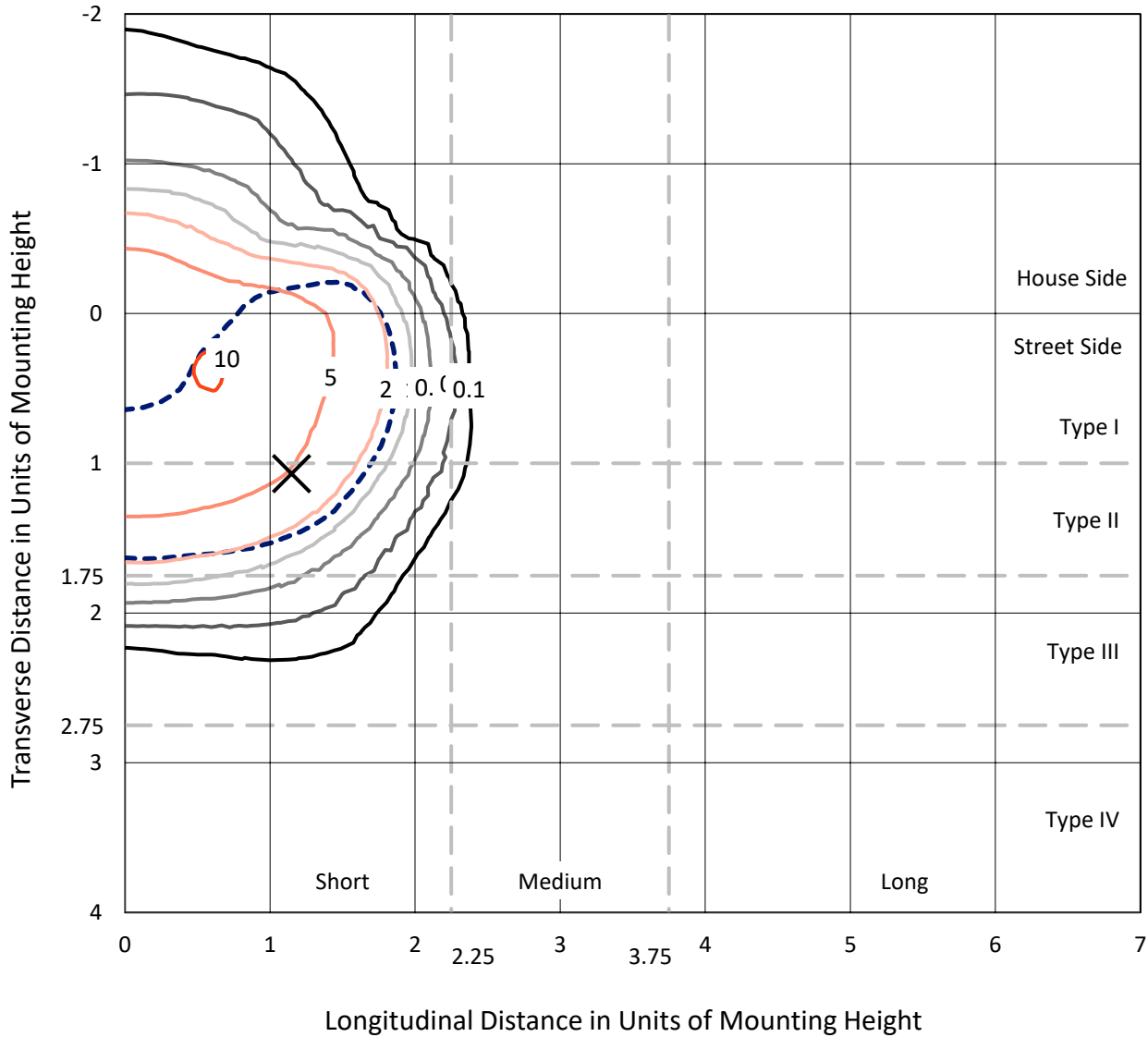
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

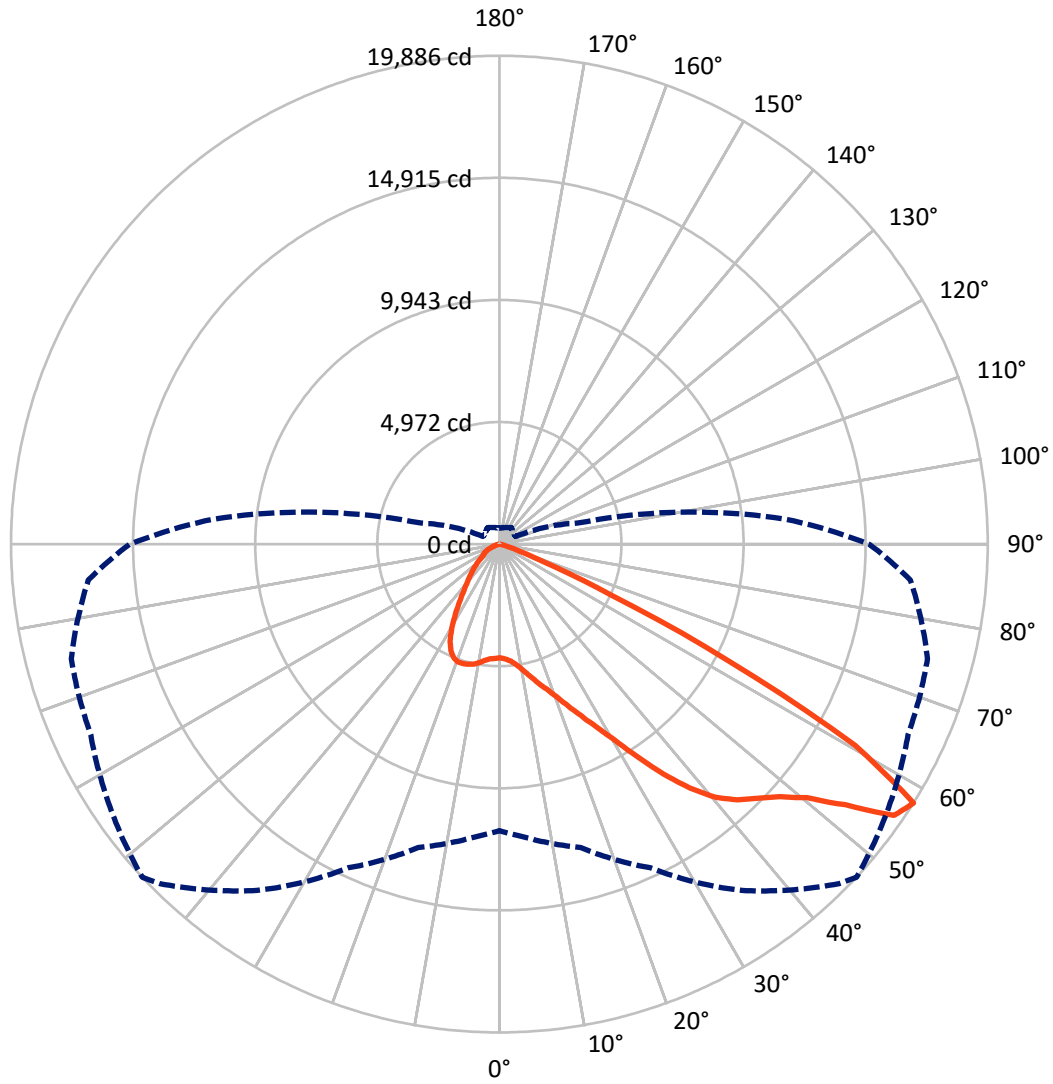
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5997.0 | 0.0 | 5997.0 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 21645.6 | 0.0 | 21645.6 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 27642.7 | 0.0 | 27642.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 460.4 | 1.7 |
| 10°-20° | 1553.4 | 5.6 |
| 20°-30° | 2884.3 | 10.4 |
| 30°-40° | 4617.3 | 16.7 |
| 40°-50° | 6749.4 | 24.4 |
| 50°-60° | 8329.9 | 30.1 |
| 60°-70° | 2783.4 | 10.1 |
| 70°-80° | 259.4 | 0.9 |
| 80°-90° | 5.4 | 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° | 27642.7 | 100.0 |
| 0°-180° | 27642.7 | 100.0 |

Coefficient of Utilization



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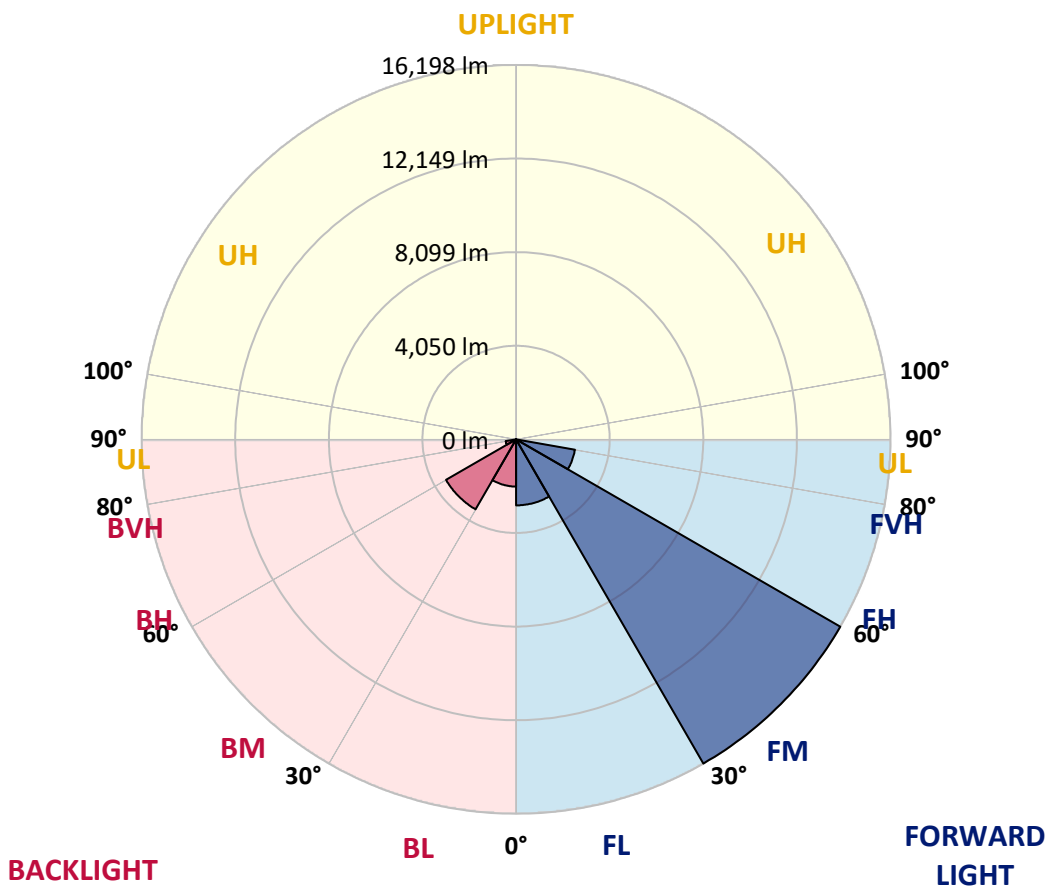
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2856.8 | 10.3 | | | |
| FM (30°-60°) | 16198.4 | 58.6 | | | |
| FH (60°-80°) | 2586.8 | 9.4 | | | G2/5000 |
| FVH (80°-90°) | 3.7 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2041.3 | 7.4 | B3/2500 | | |
| BM (30°-60°) | 3498.1 | 12.7 | B3/5000 | | |
| BH (60°-80°) | 455.9 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.7 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 |
| 2.5° | 4675.6 | 4672.3 | 4669.1 | 4688.4 | 4682.0 | 4678.8 | 4685.2 | 4685.2 | 4685.2 | 4665.9 | 4627.4 |
| 5° | 4787.9 | 4787.9 | 4784.7 | 4803.9 | 4787.9 | 4778.2 | 4781.5 | 4781.5 | 4768.6 | 4733.3 | 4685.2 |
| 7.5° | 4964.4 | 4957.9 | 4951.5 | 4970.8 | 4954.7 | 4951.5 | 4957.9 | 4938.7 | 4916.2 | 4858.5 | 4791.1 |
| 10° | 5217.9 | 5217.9 | 5208.3 | 5227.5 | 5214.7 | 5208.3 | 5208.3 | 5195.4 | 5153.7 | 5063.8 | 4964.4 |
| 12.5° | 5567.7 | 5551.6 | 5529.2 | 5513.1 | 5506.7 | 5503.5 | 5506.7 | 5487.4 | 5442.5 | 5327.0 | 5189.0 |
| 15° | 5949.5 | 5936.7 | 5901.4 | 5875.7 | 5840.4 | 5834.0 | 5853.3 | 5837.2 | 5792.3 | 5635.1 | 5439.3 |
| 17.5° | 6430.9 | 6446.9 | 6357.1 | 6302.5 | 6199.8 | 6193.4 | 6199.8 | 6225.5 | 6193.4 | 5991.3 | 5705.7 |
| 20° | 6841.6 | 6854.5 | 6787.1 | 6748.6 | 6655.5 | 6613.8 | 6626.6 | 6668.4 | 6633.1 | 6395.6 | 5997.7 |
| 22.5° | 7281.3 | 7297.3 | 7226.7 | 7146.5 | 7104.8 | 7104.8 | 7152.9 | 7210.7 | 7162.5 | 6851.3 | 6331.4 |
| 25° | 7807.6 | 7820.4 | 7762.6 | 7656.7 | 7582.9 | 7676.0 | 7746.6 | 7900.6 | 7820.4 | 7396.8 | 6726.1 |
| 27.5° | 8410.9 | 8414.1 | 8330.6 | 8221.5 | 8183.0 | 8356.3 | 8426.9 | 8664.4 | 8632.3 | 8009.7 | 7143.3 |
| 30° | 9055.9 | 9059.1 | 9039.8 | 8966.0 | 8930.7 | 9158.6 | 9254.8 | 9598.2 | 9575.7 | 8770.3 | 7711.3 |
| 32.5° | 9726.6 | 9726.6 | 9761.9 | 9755.4 | 9797.2 | 10169.4 | 10323.4 | 10714.9 | 10692.5 | 9700.9 | 8417.3 |
| 35° | 10400.5 | 10403.7 | 10464.6 | 10618.7 | 10792.0 | 11286.1 | 11488.3 | 11963.3 | 11911.9 | 10814.4 | 9319.0 |
| 37.5° | 11167.4 | 11135.3 | 11218.8 | 11449.8 | 11834.9 | 12406.1 | 12598.6 | 13051.1 | 12993.4 | 11953.6 | 10496.7 |
| 40° | 12091.6 | 12033.9 | 12033.9 | 12303.4 | 12739.8 | 13397.7 | 13561.4 | 13786.0 | 13590.2 | 12874.6 | 11652.0 |
| 42.5° | 13112.1 | 13057.5 | 12986.9 | 13224.4 | 13590.2 | 14103.7 | 14238.5 | 14177.5 | 14017.0 | 13744.3 | 12967.7 |
| 45° | 14145.4 | 14062.0 | 14110.1 | 14254.5 | 14466.3 | 14710.2 | 14761.5 | 14479.1 | 14405.3 | 14482.3 | 14055.5 |
| 47.5° | 14931.6 | 14873.8 | 14992.6 | 15194.7 | 15368.0 | 15403.3 | 15368.0 | 14976.5 | 14970.1 | 15242.9 | 14809.7 |
| 50° | 15194.7 | 15201.2 | 15528.5 | 15971.3 | 16250.5 | 16279.4 | 16231.3 | 15782.0 | 15721.0 | 15801.3 | 15217.2 |
| 52.5° | 15220.4 | 15246.1 | 15724.2 | 16568.2 | 17328.7 | 17675.3 | 17636.8 | 17152.3 | 16555.4 | 16468.7 | 15833.3 |
| 55° | 14601.1 | 14751.9 | 15419.4 | 16651.6 | 18269.0 | 19376.1 | 19504.5 | 18577.1 | 17691.4 | 17617.6 | 17158.7 |
| 57.5° | 11671.2 | 11979.3 | 12784.8 | 14540.1 | 17219.6 | 19552.6 | 19886.3 | 19218.9 | 18362.1 | 18047.6 | 16802.5 |
| 60° | 6976.4 | 7358.3 | 8131.7 | 10284.9 | 13105.7 | 16070.8 | 16645.2 | 16738.3 | 16343.6 | 15435.4 | 12890.7 |
| 62.5° | 2994.0 | 2961.9 | 3915.0 | 5564.5 | 7794.7 | 10214.3 | 10474.3 | 10878.6 | 11222.0 | 10272.1 | 7823.6 |
| 65° | 1026.9 | 1116.7 | 1553.2 | 2509.5 | 3902.2 | 4742.9 | 4974.0 | 5336.6 | 5824.4 | 4807.1 | 2865.7 |
| 67.5° | 635.4 | 673.9 | 895.3 | 1482.6 | 2105.1 | 2073.0 | 1970.3 | 1912.6 | 1861.2 | 1274.0 | 786.2 |
| 70° | 462.1 | 494.2 | 629.0 | 1020.5 | 1415.2 | 994.8 | 863.2 | 699.6 | 776.6 | 715.6 | 558.4 |
| 72.5° | 311.3 | 336.9 | 433.2 | 619.3 | 725.2 | 484.6 | 449.3 | 510.2 | 616.1 | 587.3 | 455.7 |
| 75° | 186.1 | 202.2 | 247.1 | 301.6 | 295.2 | 250.3 | 253.5 | 359.4 | 471.7 | 439.6 | 324.1 |
| 77.5° | 128.4 | 134.8 | 163.7 | 195.8 | 144.4 | 77.0 | 70.6 | 99.5 | 160.5 | 160.5 | 109.1 |
| 80° | 32.1 | 41.7 | 41.7 | 25.7 | 22.5 | 19.3 | 19.3 | 28.9 | 44.9 | 32.1 | 16.0 |
| 82.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 6.4 | 6.4 | 6.4 | 6.4 |
| 85° | 0.0 | 0.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 6.4 | 6.4 | 6.4 |
| 87.5° | 0.0 | 0.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 6.4 | 6.4 |
| 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° | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 | 4627.4 |
| 2.5° | 4649.9 | 4611.4 | 4637.0 | 4630.6 | 4649.9 | 4656.3 | 4627.4 | 4621.0 | 4624.2 | 4585.7 | 4572.9 |
| 5° | 4694.8 | 4649.9 | 4662.7 | 4649.9 | 4672.3 | 4691.6 | 4682.0 | 4694.8 | 4710.9 | 4682.0 | 4669.1 |
| 7.5° | 4791.1 | 4746.2 | 4742.9 | 4723.7 | 4755.8 | 4768.6 | 4765.4 | 4800.7 | 4832.8 | 4813.5 | 4794.3 |
| 10° | 4957.9 | 4897.0 | 4890.6 | 4874.5 | 4884.1 | 4893.8 | 4858.5 | 4864.9 | 4893.8 | 4871.3 | 4861.7 |
| 12.5° | 5163.3 | 5089.5 | 5073.5 | 5035.0 | 5035.0 | 4986.8 | 4909.8 | 4893.8 | 4916.2 | 4900.2 | 4884.1 |
| 15° | 5384.7 | 5285.3 | 5259.6 | 5192.2 | 5128.0 | 5038.2 | 4957.9 | 4938.7 | 4954.7 | 4935.5 | 4922.6 |
| 17.5° | 5631.8 | 5519.5 | 5436.1 | 5317.4 | 5176.2 | 5070.3 | 4980.4 | 4938.7 | 4913.0 | 4874.5 | 4871.3 |
| 20° | 5875.7 | 5728.1 | 5586.9 | 5397.6 | 5211.5 | 5051.0 | 4903.4 | 4794.3 | 4701.2 | 4643.5 | 4621.0 |
| 22.5° | 6158.1 | 5939.9 | 5712.1 | 5445.7 | 5179.4 | 4935.5 | 4675.6 | 4489.4 | 4329.0 | 4274.4 | 4248.8 |
| 25° | 6459.8 | 6177.4 | 5837.2 | 5490.6 | 5070.3 | 4678.8 | 4325.8 | 4049.8 | 3838.0 | 3767.4 | 3738.5 |
| 27.5° | 6793.5 | 6405.2 | 5965.6 | 5481.0 | 4845.6 | 4312.9 | 3844.4 | 3501.0 | 3292.5 | 3228.3 | 3250.7 |
| 30° | 7217.1 | 6700.4 | 6126.0 | 5381.5 | 4508.7 | 3799.5 | 3250.7 | 2961.9 | 2804.7 | 2743.7 | 2746.9 |
| 32.5° | 7781.9 | 7124.0 | 6360.3 | 5169.7 | 4075.5 | 3215.4 | 2734.1 | 2522.3 | 2416.4 | 2336.2 | 2329.8 |
| 35° | 8590.6 | 7769.1 | 6578.5 | 4829.6 | 3549.2 | 2695.6 | 2345.8 | 2178.9 | 2031.3 | 1938.3 | 1954.3 |
| 37.5° | 9559.7 | 8580.9 | 6697.2 | 4370.7 | 2958.7 | 2291.2 | 2053.8 | 1883.7 | 1716.8 | 1578.8 | 1594.9 |
| 40° | 10708.5 | 9643.1 | 6687.6 | 3767.4 | 2419.6 | 2015.3 | 1809.9 | 1610.9 | 1402.3 | 1277.2 | 1290.0 |
| 42.5° | 11988.9 | 10647.6 | 6479.0 | 3128.8 | 2005.6 | 1790.6 | 1575.6 | 1325.3 | 1123.2 | 1046.1 | 1049.4 |
| 45° | 13099.3 | 11462.6 | 6113.2 | 2467.7 | 1687.9 | 1572.4 | 1331.7 | 1075.0 | 985.2 | 930.6 | 927.4 |
| 47.5° | 13920.8 | 12059.5 | 5590.1 | 1941.5 | 1431.2 | 1373.5 | 1094.3 | 962.7 | 892.1 | 847.2 | 840.8 |
| 50° | 14379.7 | 12268.1 | 5012.5 | 1521.1 | 1209.8 | 1164.9 | 978.8 | 872.9 | 824.7 | 795.8 | 789.4 |
| 52.5° | 14995.8 | 12518.4 | 4598.5 | 1200.2 | 1014.1 | 953.1 | 901.7 | 811.9 | 779.8 | 757.3 | 747.7 |
| 55° | 15971.3 | 13003.0 | 4239.1 | 953.1 | 844.0 | 831.1 | 850.4 | 776.6 | 757.3 | 722.0 | 709.2 |
| 57.5° | 15053.5 | 11680.9 | 3292.5 | 738.1 | 712.4 | 760.5 | 821.5 | 741.3 | 693.1 | 661.1 | 648.2 |
| 60° | 10593.0 | 7765.8 | 1655.9 | 593.7 | 635.4 | 712.4 | 773.4 | 670.7 | 622.6 | 629.0 | 622.6 |
| 62.5° | 5840.4 | 3886.1 | 744.5 | 497.4 | 552.0 | 629.0 | 661.1 | 580.8 | 548.7 | 603.3 | 612.9 |
| 65° | 1909.4 | 1322.1 | 430.0 | 385.1 | 436.4 | 513.4 | 571.2 | 552.0 | 545.5 | 609.7 | 629.0 |
| 67.5° | 587.3 | 436.4 | 292.0 | 276.0 | 301.6 | 378.7 | 481.4 | 596.9 | 641.8 | 661.1 | 670.7 |
| 70° | 439.6 | 343.4 | 250.3 | 234.3 | 247.1 | 288.8 | 407.5 | 497.4 | 468.5 | 471.7 | 465.3 |
| 72.5° | 353.0 | 272.8 | 215.0 | 205.4 | 205.4 | 199.0 | 215.0 | 269.6 | 304.9 | 320.9 | 320.9 |
| 75° | 247.1 | 192.5 | 163.7 | 150.8 | 118.7 | 96.3 | 86.6 | 86.6 | 77.0 | 73.8 | 70.6 |
| 77.5° | 83.4 | 70.6 | 64.2 | 51.3 | 35.3 | 28.9 | 25.7 | 22.5 | 16.0 | 9.6 | 6.4 |
| 80° | 12.8 | 9.6 | 6.4 | 6.4 | 6.4 | 3.2 | 3.2 | 3.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 3.2 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 3.2 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.4 | 6.4 | 6.4 | 6.4 | 3.2 | 3.2 | 3.2 | 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)