

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: P638361

Luminaire Tested: GWS-SA4E-760-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24475 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

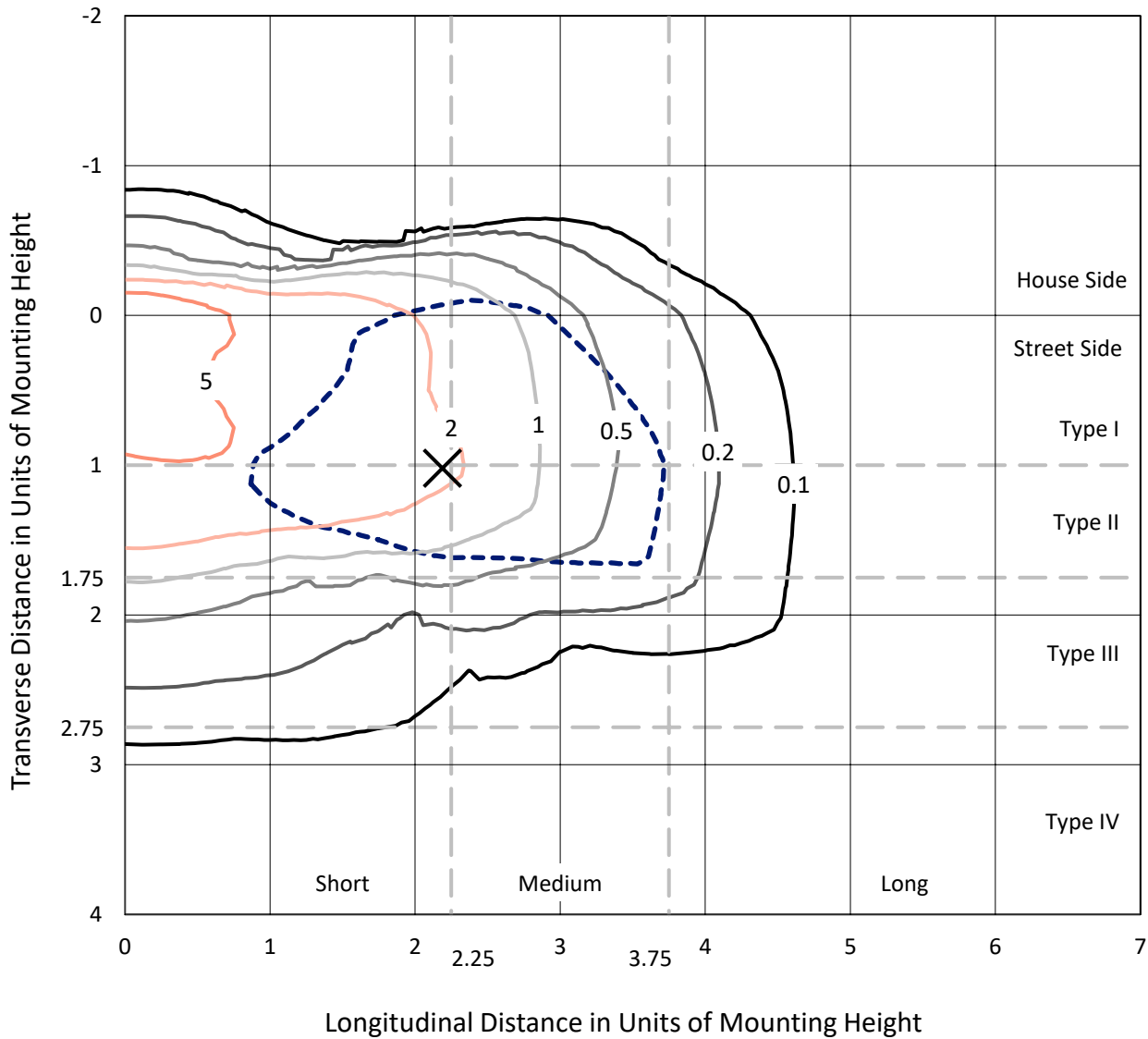
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

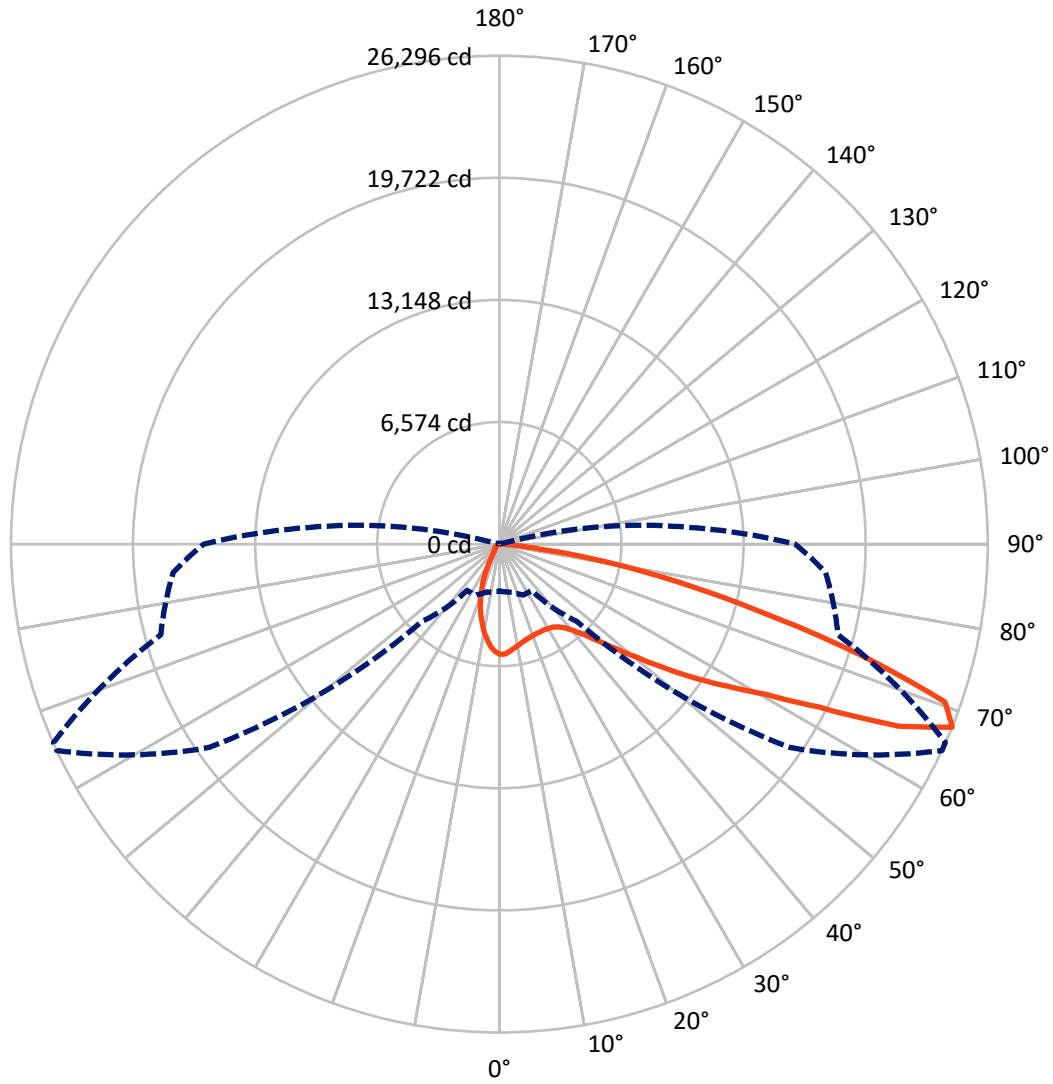
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3056.2 | 0.0 | 3056.2 |
| | % Fixture | 12.5 | 0.0 | 12.5 |
| Street Side | Lumens | 21418.8 | 0.0 | 21418.8 |
| | % Fixture | 87.5 | 0.0 | 87.5 |
| Total | Lumens | 24475.0 | 0.0 | 24475.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 493.0 | 2.0 |
| 10°-20° | 1108.3 | 4.5 |
| 20°-30° | 1583.7 | 6.5 |
| 30°-40° | 2304.0 | 9.4 |
| 40°-50° | 3608.5 | 14.7 |
| 50°-60° | 5629.3 | 23.0 |
| 60°-70° | 6183.5 | 25.3 |
| 70°-80° | 3290.8 | 13.4 |
| 80°-90° | 274.0 | 1.1 |
| 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° | 24475.0 | 100.0 |
| 0°-180° | 24475.0 | 100.0 |

Coefficient of Utilization



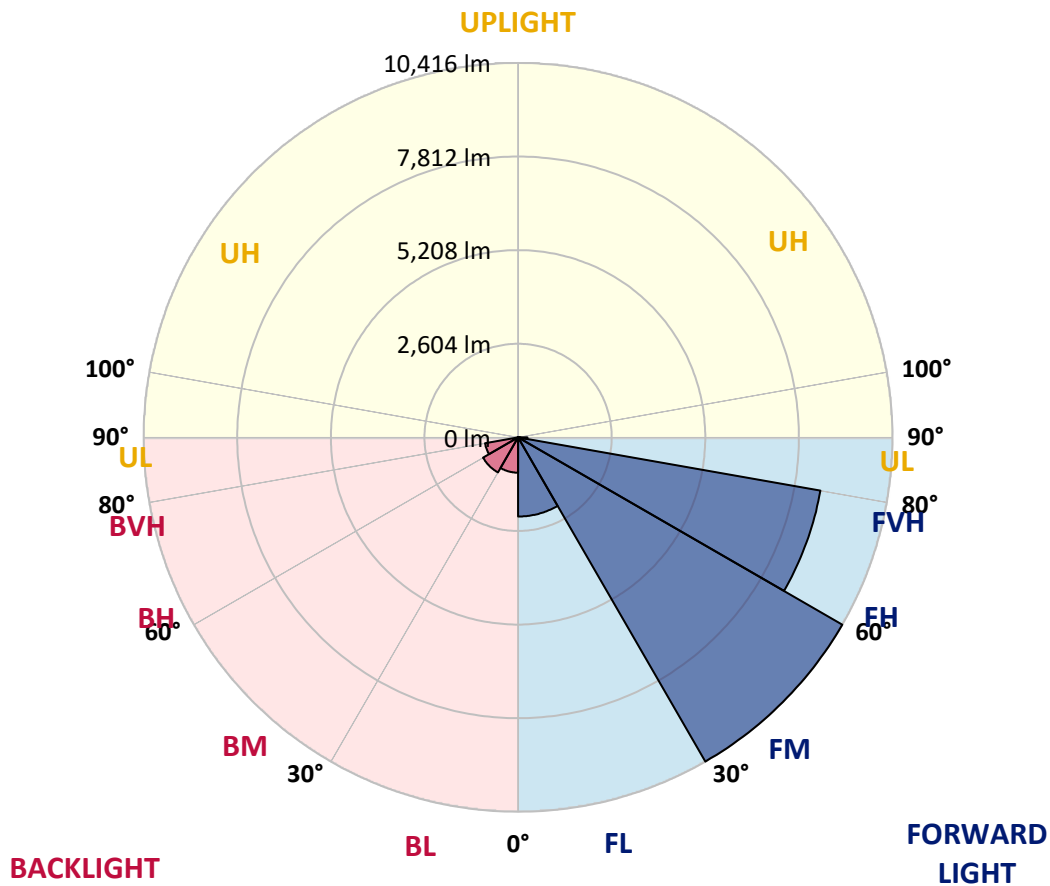
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2202.6 | 9.0 | | | |
| FM (30°-60°) | 10416.0 | 42.6 | | | |
| FH (60°-80°) | 8540.8 | 34.9 | | | G4/12000 |
| FVH (80°-90°) | 259.3 | 1.1 | | | G3/500 |
| BL (0°-30°) | 982.3 | 4.0 | B2/1000 | | |
| BM (30°-60°) | 1125.7 | 4.6 | B2/2500 | | |
| BH (60°-80°) | 933.5 | 3.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 14.7 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 |
| 2.5° | 5730.1 | 5747.8 | 5723.5 | 5783.2 | 5794.3 | 5860.7 | 5898.3 | 5924.9 | 5922.7 | 5955.9 | 5955.9 |
| 5° | 5393.7 | 5411.4 | 5398.1 | 5462.3 | 5513.2 | 5617.2 | 5703.6 | 5803.2 | 5807.6 | 5909.4 | 5947.0 |
| 7.5° | 5108.2 | 5110.4 | 5110.4 | 5190.1 | 5256.5 | 5384.9 | 5513.2 | 5665.9 | 5683.6 | 5840.8 | 5940.4 |
| 10° | 4873.6 | 4880.2 | 4882.4 | 4973.2 | 5046.2 | 5201.2 | 5364.9 | 5548.6 | 5568.6 | 5781.0 | 5936.0 |
| 12.5° | 4712.0 | 4714.2 | 4723.1 | 4818.3 | 4897.9 | 5059.5 | 5225.5 | 5435.8 | 5462.3 | 5712.4 | 5916.0 |
| 15° | 4634.6 | 4630.1 | 4634.6 | 4714.2 | 4793.9 | 4948.8 | 5119.3 | 5345.0 | 5373.8 | 5654.9 | 5918.3 |
| 17.5° | 4630.1 | 4623.5 | 4619.1 | 4678.8 | 4729.7 | 4867.0 | 5039.6 | 5285.3 | 5316.2 | 5628.3 | 5942.6 |
| 20° | 4694.3 | 4689.9 | 4667.8 | 4694.3 | 4705.4 | 4818.3 | 4988.7 | 5238.8 | 5269.8 | 5623.9 | 5995.7 |
| 22.5° | 4862.5 | 4851.5 | 4818.3 | 4793.9 | 4734.2 | 4800.6 | 4953.3 | 5205.6 | 5241.0 | 5635.0 | 6064.3 |
| 25° | 5112.6 | 5108.2 | 5066.1 | 5006.4 | 4853.7 | 4827.1 | 4955.5 | 5205.6 | 5238.8 | 5648.2 | 6137.4 |
| 27.5° | 5488.9 | 5462.3 | 5409.2 | 5305.2 | 5086.1 | 4931.1 | 4999.8 | 5218.9 | 5252.1 | 5665.9 | 6197.1 |
| 30° | 5871.8 | 5869.6 | 5851.9 | 5745.6 | 5420.3 | 5130.3 | 5092.7 | 5254.3 | 5285.3 | 5681.4 | 6252.5 |
| 32.5° | 6267.9 | 6274.6 | 6318.9 | 6237.0 | 5880.6 | 5426.9 | 5260.9 | 5327.3 | 5349.4 | 5712.4 | 6301.1 |
| 35° | 6644.2 | 6657.5 | 6774.8 | 6803.6 | 6440.6 | 5876.2 | 5535.4 | 5473.4 | 5475.6 | 5781.0 | 6365.3 |
| 37.5° | 7005.0 | 7049.2 | 7237.4 | 7376.8 | 7137.8 | 6420.7 | 5931.5 | 5721.3 | 5703.6 | 5918.3 | 6462.7 |
| 40° | 7414.4 | 7498.5 | 7735.3 | 7972.2 | 7896.9 | 7140.0 | 6471.6 | 6102.0 | 6064.3 | 6170.6 | 6637.6 |
| 42.5° | 7868.1 | 7958.9 | 8273.2 | 8605.1 | 8640.6 | 8009.8 | 7146.6 | 6657.5 | 6593.3 | 6595.5 | 6965.1 |
| 45° | 8355.0 | 8476.8 | 8842.0 | 9320.0 | 9534.7 | 8979.2 | 7978.8 | 7407.8 | 7343.6 | 7248.4 | 7491.9 |
| 47.5° | 8994.7 | 9100.9 | 9452.8 | 10003.9 | 10415.6 | 10019.4 | 9069.9 | 8372.8 | 8255.5 | 8116.0 | 8310.8 |
| 50° | 9545.8 | 9638.7 | 9942.0 | 10632.5 | 11489.0 | 11360.7 | 10307.1 | 9579.0 | 9466.1 | 9229.3 | 9390.9 |
| 52.5° | 9667.5 | 9740.5 | 10019.4 | 10796.3 | 12310.1 | 13053.8 | 11823.2 | 11037.5 | 10957.8 | 10519.6 | 10581.6 |
| 55° | 9120.8 | 9231.5 | 9481.6 | 10344.8 | 12524.8 | 14709.3 | 13790.8 | 12682.0 | 12516.0 | 11816.6 | 11927.2 |
| 57.5° | 7739.8 | 7936.7 | 8171.3 | 9293.5 | 11942.7 | 15590.2 | 16539.7 | 14423.8 | 14273.3 | 13064.9 | 13067.1 |
| 60° | 5672.6 | 5831.9 | 5989.1 | 7016.0 | 10561.7 | 15530.4 | 19034.0 | 16380.3 | 16105.9 | 14085.2 | 14047.5 |
| 62.5° | 4125.5 | 4207.4 | 4205.2 | 4570.4 | 7252.8 | 14507.9 | 20344.3 | 19328.4 | 18688.8 | 15176.3 | 14961.6 |
| 65° | 3244.6 | 3242.4 | 3337.6 | 3457.1 | 4050.3 | 11199.1 | 20505.8 | 23633.2 | 22942.6 | 16639.3 | 16192.2 |
| 67.5° | 2525.3 | 2574.0 | 2669.2 | 3021.1 | 3043.2 | 5860.7 | 19084.9 | 26295.7 | 26282.4 | 18872.5 | 17633.0 |
| 70° | 1947.7 | 2014.1 | 2149.1 | 2662.5 | 2810.8 | 3280.0 | 14279.9 | 25452.5 | 25667.2 | 19870.6 | 16612.7 |
| 72.5° | 1250.5 | 1246.1 | 1445.3 | 2151.3 | 2700.2 | 2733.4 | 7896.9 | 20218.1 | 20461.6 | 17998.2 | 13432.3 |
| 75° | 699.4 | 703.8 | 816.7 | 1316.9 | 2516.5 | 2571.8 | 3910.8 | 14417.2 | 14609.7 | 14032.1 | 10320.4 |
| 77.5° | 274.4 | 283.3 | 382.9 | 692.7 | 1659.9 | 2297.4 | 2323.9 | 9831.3 | 9860.1 | 8695.9 | 6329.9 |
| 80° | 110.7 | 117.3 | 194.8 | 429.4 | 1011.5 | 1547.1 | 1659.9 | 5792.1 | 5674.8 | 3366.4 | 1841.4 |
| 82.5° | 33.2 | 35.4 | 77.5 | 243.5 | 529.0 | 1100.0 | 1119.9 | 2222.1 | 2098.2 | 723.7 | 469.2 |
| 85° | 2.2 | 2.2 | 17.7 | 75.3 | 188.1 | 276.7 | 745.9 | 723.7 | 641.8 | 181.5 | 208.0 |
| 87.5° | 0.0 | 0.0 | 2.2 | 2.2 | 4.4 | 8.9 | 79.7 | 132.8 | 135.0 | 33.2 | 93.0 |
| 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° | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 | 5936.0 |
| 2.5° | 5955.9 | 5876.2 | 5869.6 | 5807.6 | 5745.6 | 5668.2 | 5577.4 | 5511.0 | 5464.5 | 5382.6 | 5367.2 |
| 5° | 5947.0 | 5840.8 | 5741.2 | 5564.1 | 5367.2 | 5154.7 | 4968.8 | 4796.1 | 4687.7 | 4614.6 | 4583.7 |
| 7.5° | 5929.3 | 5794.3 | 5564.1 | 5229.9 | 4900.2 | 4528.3 | 4238.4 | 3972.8 | 3791.3 | 3685.1 | 3638.6 |
| 10° | 5916.0 | 5734.6 | 5360.5 | 4853.7 | 4342.4 | 3828.9 | 3388.5 | 2994.5 | 2775.4 | 2602.8 | 2574.0 |
| 12.5° | 5889.5 | 5648.2 | 5099.3 | 4413.2 | 3753.7 | 3072.0 | 2509.8 | 2027.3 | 1693.1 | 1542.6 | 1489.5 |
| 15° | 5862.9 | 5557.5 | 4838.2 | 3948.5 | 3111.8 | 2270.8 | 1589.1 | 1124.3 | 894.2 | 823.3 | 818.9 |
| 17.5° | 5858.5 | 5475.6 | 4554.9 | 3508.0 | 2439.0 | 1487.3 | 905.2 | 728.2 | 679.5 | 661.8 | 661.8 |
| 20° | 5871.8 | 5407.0 | 4276.0 | 3001.2 | 1777.2 | 905.2 | 675.0 | 630.8 | 602.0 | 586.5 | 586.5 |
| 22.5° | 5885.1 | 5336.2 | 4008.2 | 2489.9 | 1179.7 | 661.8 | 595.4 | 557.7 | 524.5 | 506.8 | 498.0 |
| 25° | 5893.9 | 5258.7 | 3711.6 | 1976.4 | 770.2 | 575.4 | 522.3 | 473.6 | 433.8 | 411.7 | 411.7 |
| 27.5° | 5891.7 | 5165.7 | 3412.8 | 1474.0 | 597.6 | 511.3 | 447.1 | 396.2 | 356.3 | 332.0 | 334.2 |
| 30° | 5874.0 | 5063.9 | 3103.0 | 1029.2 | 522.3 | 447.1 | 382.9 | 329.8 | 289.9 | 270.0 | 267.8 |
| 32.5° | 5860.7 | 4955.5 | 2744.4 | 723.7 | 469.2 | 391.7 | 325.3 | 274.4 | 241.2 | 225.8 | 223.5 |
| 35° | 5845.2 | 4849.2 | 2403.6 | 551.1 | 422.7 | 338.6 | 274.4 | 232.4 | 205.8 | 192.6 | 192.6 |
| 37.5° | 5849.6 | 4738.6 | 2034.0 | 473.6 | 376.3 | 294.4 | 234.6 | 199.2 | 177.1 | 163.8 | 161.6 |
| 40° | 5918.3 | 4672.2 | 1671.0 | 429.4 | 334.2 | 254.5 | 203.6 | 172.6 | 150.5 | 137.2 | 135.0 |
| 42.5° | 6088.7 | 4674.4 | 1323.5 | 396.2 | 296.6 | 216.9 | 177.1 | 148.3 | 128.4 | 112.9 | 110.7 |
| 45° | 6429.5 | 4767.4 | 1015.9 | 360.8 | 256.7 | 188.1 | 152.7 | 126.2 | 106.2 | 93.0 | 90.7 |
| 47.5° | 6987.3 | 5044.0 | 770.2 | 329.8 | 223.5 | 163.8 | 130.6 | 106.2 | 88.5 | 77.5 | 75.3 |
| 50° | 7874.8 | 5544.2 | 606.4 | 292.2 | 188.1 | 141.6 | 110.7 | 88.5 | 73.0 | 62.0 | 59.8 |
| 52.5° | 8941.6 | 6294.5 | 520.1 | 259.0 | 161.6 | 123.9 | 95.2 | 73.0 | 59.8 | 50.9 | 48.7 |
| 55° | 10167.7 | 7190.9 | 480.3 | 225.8 | 137.2 | 106.2 | 77.5 | 59.8 | 48.7 | 42.1 | 37.6 |
| 57.5° | 11292.0 | 7998.7 | 478.1 | 192.6 | 117.3 | 90.7 | 64.2 | 50.9 | 42.1 | 33.2 | 31.0 |
| 60° | 12387.6 | 8673.8 | 449.3 | 159.4 | 101.8 | 75.3 | 55.3 | 42.1 | 35.4 | 28.8 | 26.6 |
| 62.5° | 13381.4 | 9222.6 | 376.3 | 128.4 | 86.3 | 62.0 | 46.5 | 37.6 | 31.0 | 24.3 | 24.3 |
| 65° | 14629.6 | 9922.0 | 287.7 | 104.0 | 70.8 | 50.9 | 39.8 | 33.2 | 28.8 | 22.1 | 22.1 |
| 67.5° | 15920.0 | 10291.7 | 205.8 | 86.3 | 57.5 | 44.3 | 35.4 | 31.0 | 24.3 | 19.9 | 19.9 |
| 70° | 14419.4 | 8695.9 | 148.3 | 70.8 | 48.7 | 37.6 | 31.0 | 28.8 | 24.3 | 19.9 | 17.7 |
| 72.5° | 11261.1 | 6270.2 | 110.7 | 55.3 | 42.1 | 35.4 | 28.8 | 26.6 | 22.1 | 17.7 | 17.7 |
| 75° | 8350.6 | 3656.3 | 84.1 | 44.3 | 33.2 | 28.8 | 28.8 | 26.6 | 22.1 | 17.7 | 15.5 |
| 77.5° | 4539.4 | 1274.8 | 64.2 | 35.4 | 26.6 | 22.1 | 24.3 | 24.3 | 19.9 | 15.5 | 13.3 |
| 80° | 1201.8 | 349.7 | 44.3 | 26.6 | 22.1 | 17.7 | 17.7 | 22.1 | 17.7 | 13.3 | 13.3 |
| 82.5° | 349.7 | 101.8 | 31.0 | 22.1 | 17.7 | 15.5 | 15.5 | 15.5 | 13.3 | 11.1 | 8.9 |
| 85° | 170.4 | 37.6 | 22.1 | 17.7 | 15.5 | 13.3 | 11.1 | 11.1 | 8.9 | 6.6 | 6.6 |
| 87.5° | 75.3 | 15.5 | 17.7 | 15.5 | 15.5 | 11.1 | 8.9 | 6.6 | 6.6 | 4.4 | 2.2 |
| 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)