

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: P638743

Luminaire Tested: GWS-SA4F-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35025.8 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

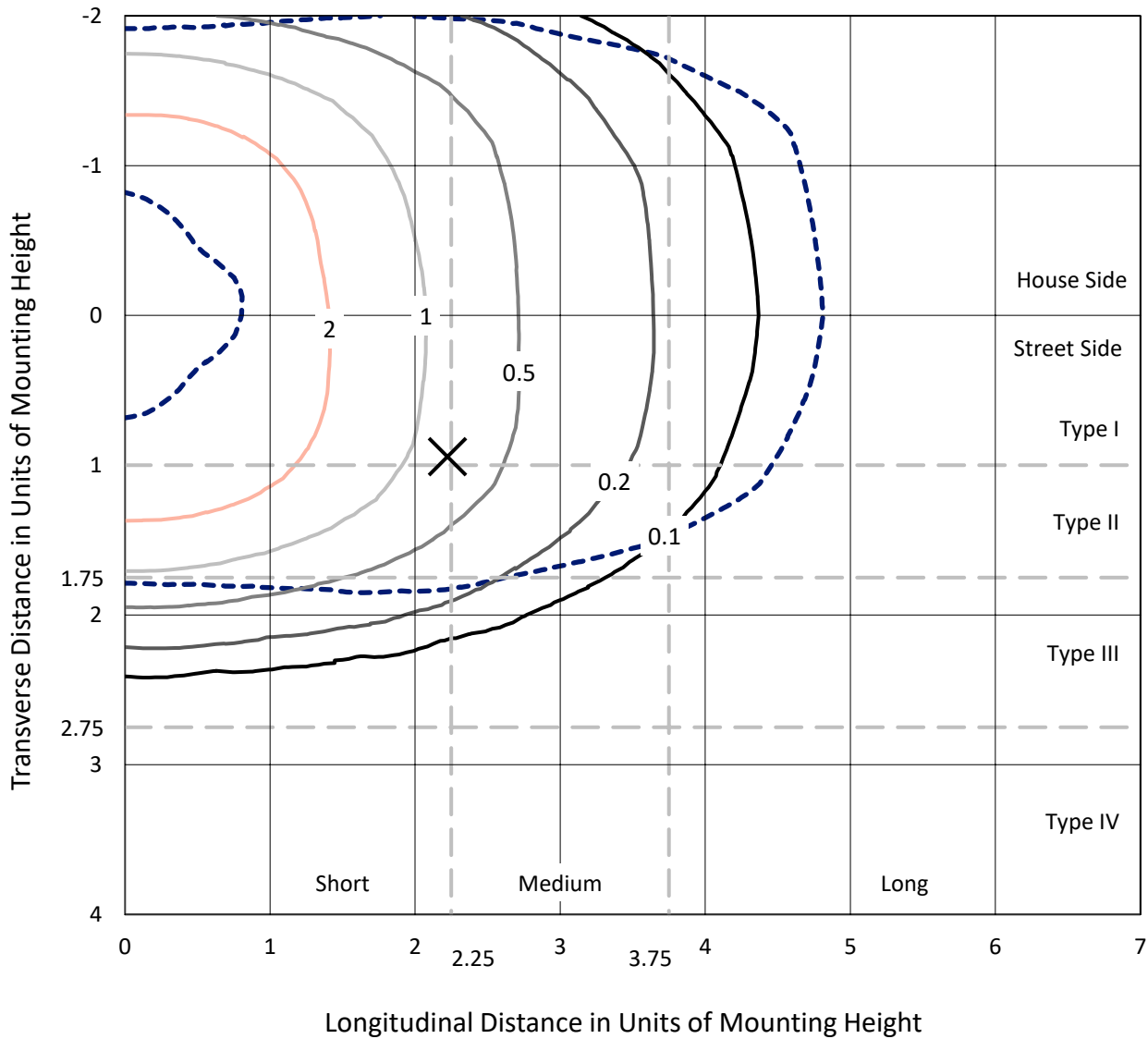
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

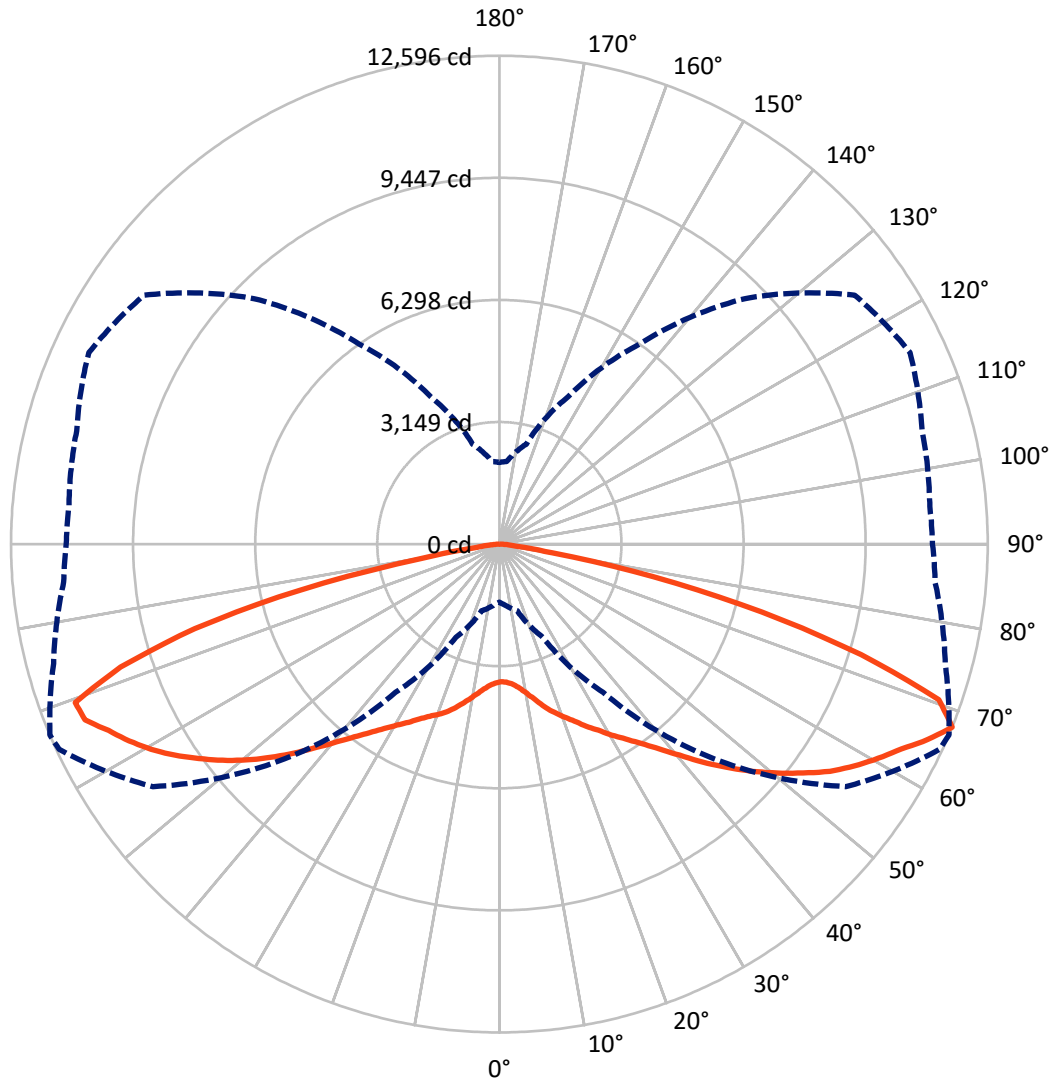
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17319.6 | 0.0 | 17319.6 |
| | % Fixture | 49.4 | 0.0 | 49.4 |
| Street Side | Lumens | 17706.2 | 0.0 | 17706.2 |
| | % Fixture | 50.6 | 0.0 | 50.6 |
| Total | Lumens | 35025.8 | 0.0 | 35025.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 348.0 | 1.0 |
| 10°-20° | 1175.6 | 3.4 |
| 20°-30° | 2306.4 | 6.6 |
| 30°-40° | 3929.4 | 11.2 |
| 40°-50° | 6309.8 | 18.0 |
| 50°-60° | 8573.7 | 24.5 |
| 60°-70° | 8201.3 | 23.4 |
| 70°-80° | 3899.2 | 11.1 |
| 80°-90° | 282.6 | 0.8 |
| 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° | 35025.8 | 100.0 |
| 0°-180° | 35025.8 | 100.0 |

Coefficient of Utilization



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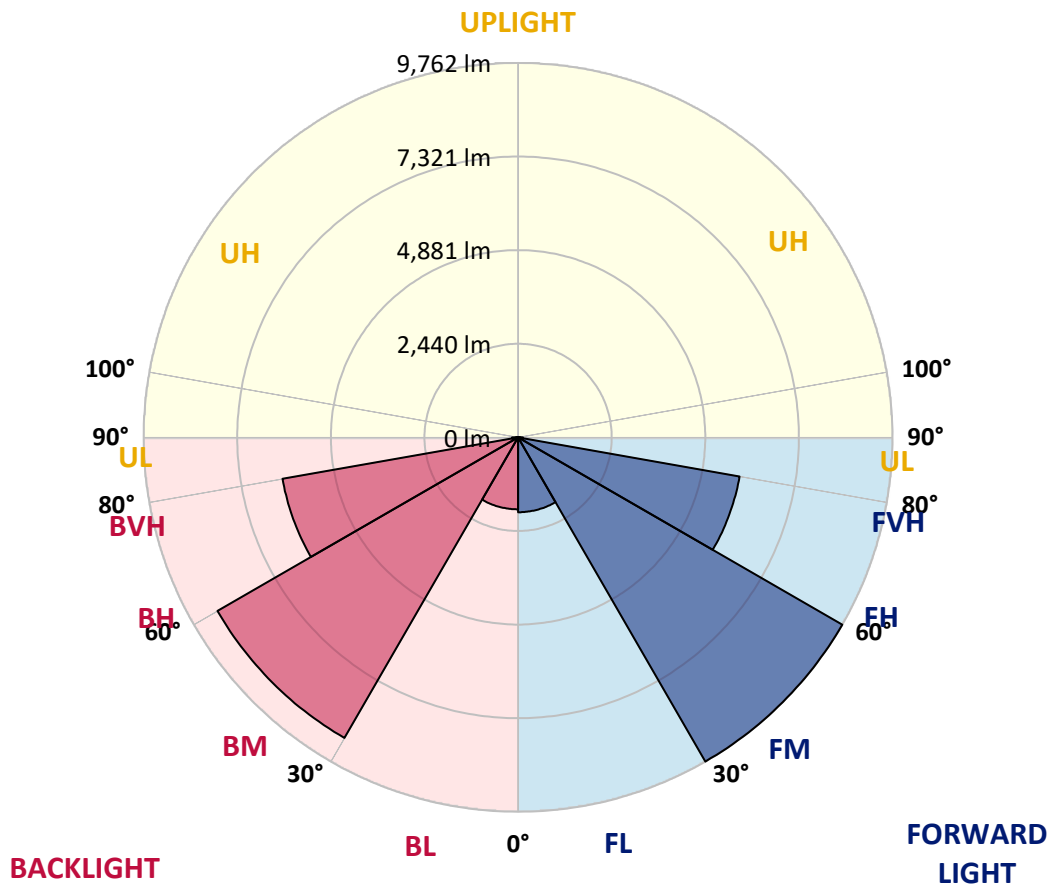
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1953.0 | 5.6 | | | |
| FM (30°-60°) | 9762.0 | 27.9 | | | |
| FH (60°-80°) | 5864.2 | 16.7 | | | G3/7500 |
| FVH (80°-90°) | 127.0 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1877.0 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 9050.8 | 25.8 | B5 | | |
| BH (60°-80°) | 6236.3 | 17.8 | B5 | | G5 |
| BVH (80°-90°) | 155.6 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 |
| 2.5° | 3473.4 | 3478.3 | 3485.6 | 3500.2 | 3514.8 | 3536.8 | 3558.8 | 3556.3 | 3566.1 | 3573.4 | 3580.7 |
| 5° | 3453.9 | 3458.7 | 3470.9 | 3490.5 | 3512.4 | 3549.0 | 3595.3 | 3614.9 | 3629.5 | 3656.3 | 3680.7 |
| 7.5° | 3495.3 | 3505.1 | 3522.2 | 3549.0 | 3583.1 | 3629.5 | 3692.9 | 3727.1 | 3749.0 | 3797.8 | 3839.3 |
| 10° | 3551.4 | 3563.6 | 3597.8 | 3649.0 | 3700.2 | 3771.0 | 3851.5 | 3902.7 | 3917.3 | 3980.7 | 4058.8 |
| 12.5° | 3605.1 | 3619.7 | 3675.8 | 3768.5 | 3861.2 | 3956.3 | 4051.5 | 4114.9 | 4119.8 | 4205.1 | 4292.9 |
| 15° | 3690.5 | 3702.7 | 3778.3 | 3897.8 | 4039.3 | 4171.0 | 4288.1 | 4332.0 | 4351.5 | 4412.5 | 4522.2 |
| 17.5° | 3878.3 | 3892.9 | 3990.5 | 4119.8 | 4268.6 | 4407.6 | 4524.7 | 4561.3 | 4561.3 | 4612.5 | 4702.7 |
| 20° | 4080.7 | 4095.4 | 4224.6 | 4390.5 | 4571.0 | 4712.5 | 4802.7 | 4768.6 | 4756.4 | 4771.0 | 4834.4 |
| 22.5° | 4307.6 | 4334.4 | 4458.8 | 4651.5 | 4873.5 | 5046.6 | 5093.0 | 4990.5 | 4956.4 | 4922.3 | 4936.9 |
| 25° | 4597.8 | 4629.6 | 4751.5 | 4956.4 | 5173.5 | 5356.4 | 5383.3 | 5224.7 | 5205.2 | 5085.7 | 5041.8 |
| 27.5° | 4932.0 | 4956.4 | 5107.6 | 5310.1 | 5512.5 | 5666.2 | 5695.5 | 5500.3 | 5434.5 | 5268.6 | 5166.2 |
| 30° | 5363.7 | 5385.7 | 5517.4 | 5717.4 | 5893.0 | 6000.4 | 6037.0 | 5768.6 | 5717.4 | 5463.7 | 5305.2 |
| 32.5° | 5834.5 | 5844.3 | 5978.4 | 6171.1 | 6327.2 | 6429.7 | 6378.4 | 6066.2 | 5990.6 | 5705.2 | 5488.1 |
| 35° | 6373.6 | 6373.6 | 6546.7 | 6702.8 | 6827.2 | 6856.5 | 6758.9 | 6402.8 | 6315.0 | 6005.2 | 5734.5 |
| 37.5° | 6902.9 | 6917.5 | 7078.5 | 7263.9 | 7373.6 | 7368.7 | 7190.7 | 6800.4 | 6700.4 | 6363.8 | 6063.8 |
| 40° | 7476.1 | 7507.8 | 7668.8 | 7876.1 | 7981.0 | 7966.3 | 7693.2 | 7259.0 | 7156.5 | 6758.9 | 6466.2 |
| 42.5° | 8002.9 | 8054.1 | 8242.0 | 8454.2 | 8568.8 | 8559.1 | 8273.7 | 7785.8 | 7685.8 | 7237.0 | 6944.3 |
| 45° | 8422.5 | 8476.1 | 8710.3 | 9005.4 | 9188.4 | 9171.3 | 8883.5 | 8332.2 | 8210.3 | 7739.5 | 7417.5 |
| 47.5° | 8790.8 | 8846.9 | 9107.9 | 9420.1 | 9710.3 | 9739.6 | 9476.2 | 8883.5 | 8754.2 | 8278.6 | 7915.1 |
| 50° | 9073.7 | 9100.6 | 9393.3 | 9734.7 | 10071.3 | 10234.8 | 10005.5 | 9437.2 | 9281.1 | 8810.3 | 8400.5 |
| 52.5° | 9051.8 | 9088.4 | 9449.4 | 9912.8 | 10364.0 | 10632.4 | 10473.8 | 9959.1 | 9807.9 | 9295.7 | 8895.7 |
| 55° | 8605.4 | 8642.0 | 9071.3 | 9746.9 | 10527.5 | 10922.6 | 10905.5 | 10456.7 | 10347.0 | 9790.8 | 9410.3 |
| 57.5° | 7954.1 | 8034.6 | 8461.5 | 9190.8 | 10312.8 | 11154.3 | 11222.6 | 10910.4 | 10795.8 | 10276.2 | 9920.1 |
| 60° | 6788.2 | 6895.5 | 7388.3 | 8334.7 | 9625.0 | 11076.3 | 11561.7 | 11293.4 | 11222.6 | 10727.5 | 10381.1 |
| 62.5° | 4932.0 | 5010.1 | 5666.2 | 6907.7 | 8605.4 | 10520.2 | 11847.1 | 11688.5 | 11634.9 | 11132.4 | 10798.2 |
| 65° | 2953.8 | 3131.9 | 3658.8 | 4885.7 | 6941.9 | 9471.3 | 11691.0 | 12205.6 | 12149.5 | 11549.5 | 11154.3 |
| 67.5° | 1495.2 | 1575.7 | 1783.0 | 2648.9 | 4668.6 | 7837.1 | 10908.0 | 12527.6 | 12595.9 | 11905.6 | 11281.2 |
| 70° | 926.9 | 948.8 | 1007.4 | 1307.4 | 2331.8 | 5149.1 | 8920.1 | 11688.5 | 12022.7 | 11849.5 | 10951.9 |
| 72.5° | 743.9 | 748.8 | 758.6 | 814.7 | 1119.6 | 2407.5 | 5639.4 | 9154.2 | 9756.7 | 11066.5 | 10481.1 |
| 75° | 617.1 | 619.5 | 622.0 | 639.1 | 697.6 | 983.0 | 2744.1 | 6290.6 | 6995.5 | 9405.5 | 9717.7 |
| 77.5° | 495.2 | 483.0 | 492.7 | 500.0 | 514.7 | 548.8 | 946.4 | 3356.3 | 4071.0 | 6173.5 | 7515.1 |
| 80° | 322.0 | 317.1 | 336.6 | 343.9 | 358.6 | 380.5 | 504.9 | 1139.1 | 1383.0 | 2246.5 | 2390.4 |
| 82.5° | 173.2 | 163.4 | 204.9 | 197.6 | 204.9 | 222.0 | 297.6 | 417.1 | 468.3 | 678.1 | 573.2 |
| 85° | 53.7 | 53.7 | 56.1 | 65.9 | 80.5 | 78.1 | 129.3 | 204.9 | 226.8 | 290.3 | 214.6 |
| 87.5° | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 12.2 | 26.8 | 41.5 | 56.1 | 100.0 | 75.6 |
| 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° | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 | 3546.6 |
| 2.5° | 3595.3 | 3573.4 | 3585.6 | 3592.9 | 3590.5 | 3585.6 | 3561.2 | 3556.3 | 3544.1 | 3524.6 | 3519.7 |
| 5° | 3702.7 | 3678.3 | 3680.7 | 3673.4 | 3649.0 | 3617.3 | 3563.6 | 3536.8 | 3514.8 | 3490.5 | 3488.0 |
| 7.5° | 3871.0 | 3844.1 | 3836.8 | 3802.7 | 3734.4 | 3661.2 | 3575.8 | 3527.0 | 3490.5 | 3458.7 | 3453.9 |
| 10° | 4085.6 | 4058.8 | 4034.4 | 3953.9 | 3841.7 | 3744.1 | 3631.9 | 3561.2 | 3507.5 | 3468.5 | 3461.2 |
| 12.5° | 4324.7 | 4302.7 | 4241.7 | 4124.6 | 3990.5 | 3875.8 | 3761.2 | 3673.4 | 3595.3 | 3536.8 | 3529.5 |
| 15° | 4590.5 | 4541.7 | 4449.1 | 4297.8 | 4171.0 | 4078.3 | 3939.3 | 3819.7 | 3695.3 | 3617.3 | 3600.2 |
| 17.5° | 4775.9 | 4734.4 | 4624.7 | 4478.3 | 4378.3 | 4297.8 | 4134.4 | 3963.7 | 3795.4 | 3680.7 | 3656.3 |
| 20° | 4907.6 | 4863.7 | 4739.3 | 4632.0 | 4600.3 | 4532.0 | 4341.7 | 4144.2 | 3949.0 | 3807.5 | 3775.8 |
| 22.5° | 5002.7 | 4956.4 | 4829.6 | 4775.9 | 4819.8 | 4807.6 | 4622.2 | 4397.8 | 4166.1 | 3997.8 | 3958.8 |
| 25° | 5093.0 | 5049.1 | 4936.9 | 4956.4 | 5073.5 | 5110.1 | 4910.1 | 4649.1 | 4385.6 | 4188.1 | 4141.7 |
| 27.5° | 5178.4 | 5122.3 | 5071.0 | 5178.4 | 5344.2 | 5412.5 | 5200.3 | 4905.2 | 4619.8 | 4417.3 | 4380.8 |
| 30° | 5310.1 | 5244.2 | 5236.9 | 5393.0 | 5656.4 | 5715.0 | 5480.8 | 5185.7 | 4902.7 | 4697.8 | 4651.5 |
| 32.5° | 5475.9 | 5415.0 | 5419.8 | 5654.0 | 5958.9 | 6007.7 | 5807.7 | 5532.0 | 5249.1 | 5044.2 | 4980.8 |
| 35° | 5700.3 | 5624.7 | 5666.2 | 5954.0 | 6261.4 | 6351.6 | 6190.6 | 5961.3 | 5685.7 | 5475.9 | 5405.2 |
| 37.5° | 6010.1 | 5900.4 | 5985.7 | 6288.2 | 6598.0 | 6732.1 | 6607.7 | 6437.0 | 6163.8 | 5951.6 | 5885.7 |
| 40° | 6405.3 | 6315.0 | 6349.2 | 6683.3 | 7002.9 | 7163.9 | 7085.8 | 6917.5 | 6646.7 | 6424.8 | 6349.2 |
| 42.5° | 6873.6 | 6783.3 | 6771.1 | 7127.3 | 7446.8 | 7690.7 | 7615.1 | 7461.4 | 7180.9 | 6927.3 | 6854.1 |
| 45° | 7332.2 | 7249.2 | 7266.3 | 7629.7 | 7988.3 | 8254.2 | 8178.5 | 7998.0 | 7693.2 | 7400.5 | 7341.9 |
| 47.5° | 7810.2 | 7741.9 | 7756.6 | 8142.0 | 8537.1 | 8803.0 | 8707.8 | 8488.3 | 8132.2 | 7820.0 | 7749.3 |
| 50° | 8300.5 | 8222.5 | 8244.4 | 8649.3 | 9076.2 | 9327.4 | 9181.0 | 8856.6 | 8463.9 | 8159.0 | 8098.1 |
| 52.5° | 8788.3 | 8695.7 | 8751.8 | 9134.7 | 9576.2 | 9776.2 | 9505.5 | 9112.8 | 8732.2 | 8429.8 | 8361.5 |
| 55° | 9349.3 | 9251.8 | 9190.8 | 9600.6 | 10037.2 | 10120.1 | 9749.4 | 9290.8 | 8839.6 | 8495.6 | 8454.2 |
| 57.5° | 9861.6 | 9778.6 | 9664.0 | 10073.8 | 10395.8 | 10334.8 | 9937.2 | 9242.0 | 8578.6 | 8137.1 | 8078.5 |
| 60° | 10320.1 | 10249.4 | 10149.4 | 10498.2 | 10644.6 | 10508.0 | 9786.0 | 8663.9 | 7934.6 | 7473.6 | 7446.8 |
| 62.5° | 10742.1 | 10666.5 | 10573.8 | 10871.4 | 10851.9 | 10534.8 | 9098.1 | 7776.1 | 6800.4 | 6305.3 | 6261.4 |
| 65° | 11076.3 | 11008.0 | 10981.2 | 11215.3 | 11183.6 | 10010.4 | 8027.3 | 6322.3 | 4968.6 | 4410.0 | 4393.0 |
| 67.5° | 11171.4 | 11144.6 | 11288.5 | 11686.1 | 11190.9 | 8956.6 | 6295.5 | 4192.9 | 2668.5 | 2139.2 | 2107.4 |
| 70° | 10815.3 | 10812.9 | 11225.1 | 11793.4 | 10176.2 | 6841.9 | 3714.9 | 1890.4 | 1341.5 | 1190.3 | 1170.8 |
| 72.5° | 10351.9 | 10344.5 | 10671.4 | 10173.8 | 7546.8 | 3744.1 | 1563.5 | 1012.3 | 839.1 | 797.6 | 797.6 |
| 75° | 9590.8 | 9571.3 | 9817.7 | 7739.5 | 4244.2 | 1409.8 | 829.3 | 695.2 | 658.6 | 651.3 | 651.3 |
| 77.5° | 7817.5 | 7654.1 | 7266.3 | 4783.2 | 1480.6 | 692.7 | 548.8 | 546.4 | 524.4 | 522.0 | 522.0 |
| 80° | 2570.9 | 2570.9 | 2988.0 | 1824.5 | 653.7 | 426.9 | 387.8 | 407.3 | 385.4 | 370.8 | 368.3 |
| 82.5° | 419.5 | 578.1 | 822.0 | 522.0 | 353.7 | 265.9 | 239.0 | 253.7 | 265.9 | 212.2 | 212.2 |
| 85° | 165.9 | 217.1 | 317.1 | 243.9 | 163.4 | 107.3 | 114.6 | 126.8 | 112.2 | 97.6 | 95.1 |
| 87.5° | 63.4 | 78.1 | 112.2 | 58.5 | 34.1 | 19.5 | 12.2 | 12.2 | 9.8 | 9.8 | 9.8 |
| 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)