

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: P636212

Luminaire Tested: GWS-SA3F-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-735-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21258.7 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

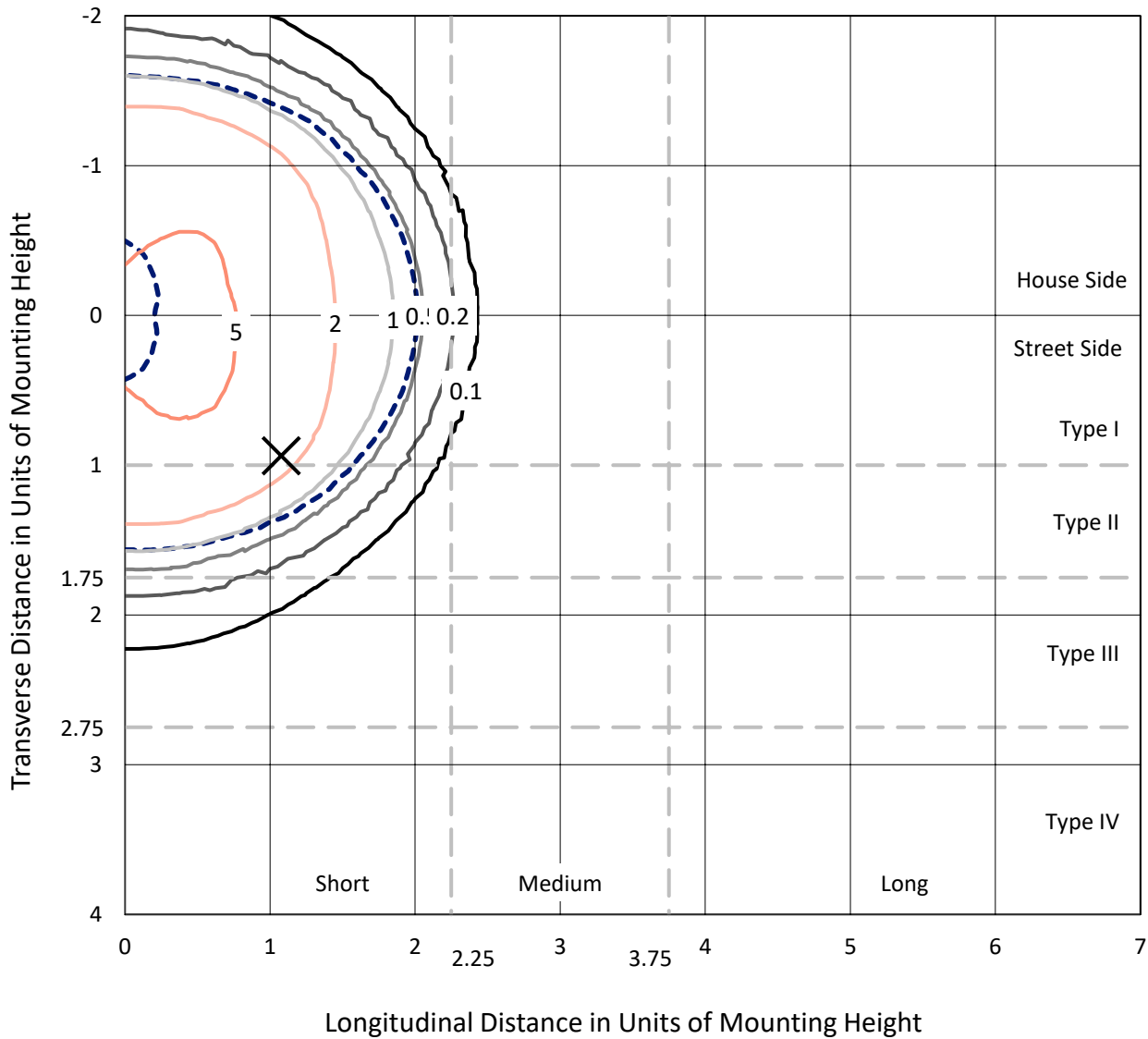
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

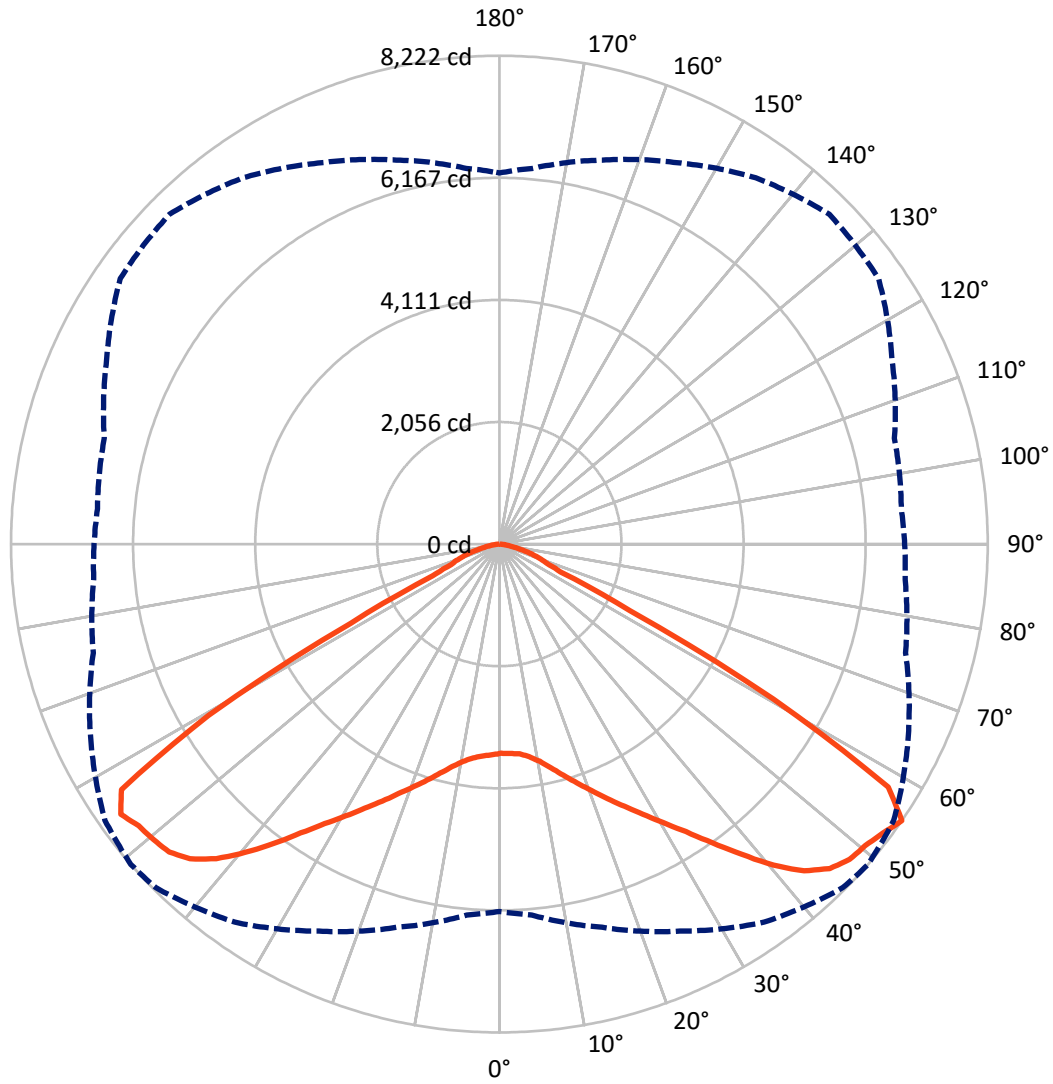
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10525.1 | 0.0 | 10525.1 |
| | % Fixture | 49.5 | 0.0 | 49.5 |
| Street Side | Lumens | 10733.6 | 0.0 | 10733.6 |
| | % Fixture | 50.5 | 0.0 | 50.5 |
| Total | Lumens | 21258.7 | 0.0 | 21258.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 343.5 | 1.6 |
| 10°-20° | 1133.1 | 5.3 |
| 20°-30° | 2158.3 | 10.2 |
| 30°-40° | 3658.8 | 17.2 |
| 40°-50° | 5506.2 | 25.9 |
| 50°-60° | 6027.0 | 28.4 |
| 60°-70° | 1905.8 | 9.0 |
| 70°-80° | 457.4 | 2.2 |
| 80°-90° | 68.6 | 0.3 |
| 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° | 21258.7 | 100.0 |
| 0°-180° | 21258.7 | 100.0 |

Coefficient of Utilization



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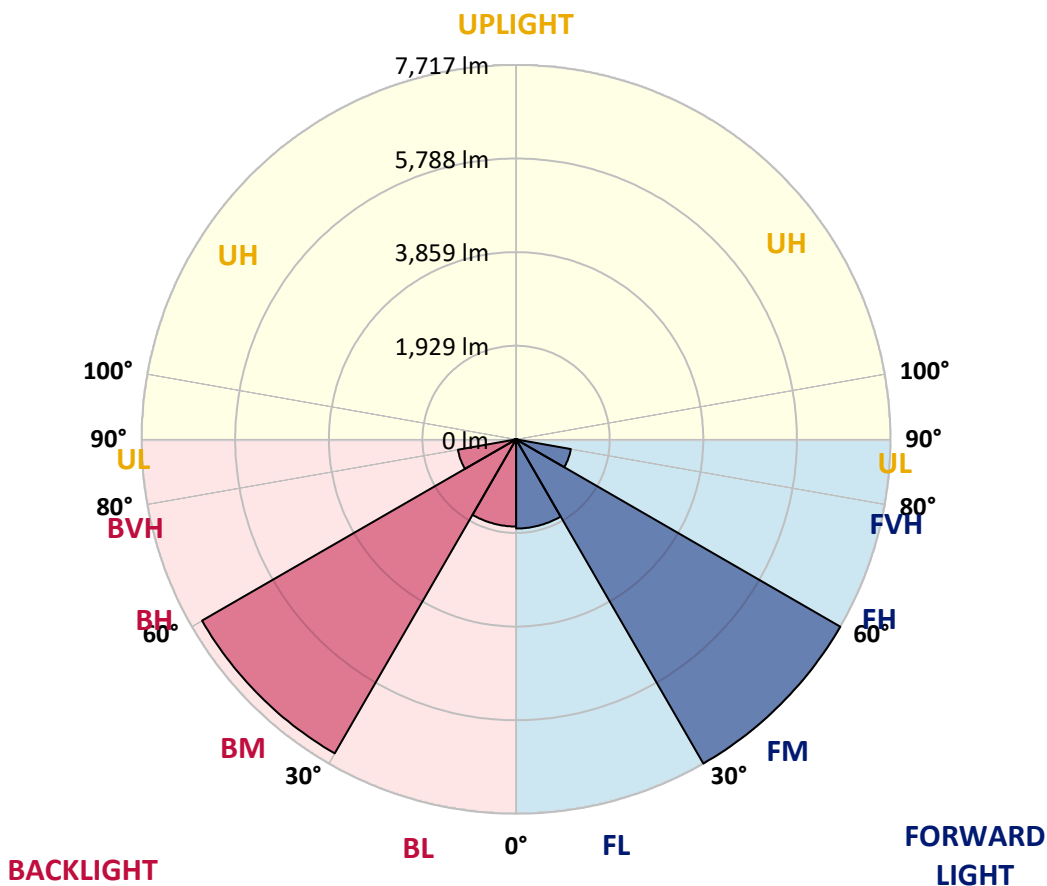
CATALOG NUMBER: GWS-SA3F-735-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1838.0 | 8.6 | | | |
| FM (30°-60°) | 7717.5 | 36.3 | | | |
| FH (60°-80°) | 1146.3 | 5.4 | | | G1/1800 |
| FVH (80°-90°) | 31.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1796.9 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 7474.4 | 35.2 | B4/8500 | | |
| BH (60°-80°) | 1216.8 | 5.7 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 36.9 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 49° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 |
| 2.5° | 3469.8 | 3473.2 | 3480.1 | 3492.2 | 3504.3 | 3521.6 | 3528.5 | 3537.2 | 3535.5 | 3545.8 | 3545.8 |
| 5° | 3452.5 | 3457.7 | 3468.0 | 3485.3 | 3506.1 | 3538.9 | 3547.6 | 3568.3 | 3589.1 | 3615.0 | 3623.6 |
| 7.5° | 3473.2 | 3480.1 | 3492.2 | 3519.9 | 3551.0 | 3594.2 | 3611.5 | 3646.1 | 3685.9 | 3732.6 | 3751.6 |
| 10° | 3513.0 | 3521.6 | 3542.4 | 3587.3 | 3637.5 | 3703.2 | 3718.7 | 3761.9 | 3825.9 | 3889.9 | 3927.9 |
| 12.5° | 3557.9 | 3571.8 | 3609.8 | 3680.7 | 3755.0 | 3841.5 | 3865.7 | 3919.3 | 3988.4 | 4071.4 | 4123.3 |
| 15° | 3609.8 | 3621.9 | 3680.7 | 3781.0 | 3896.8 | 4010.9 | 4038.6 | 4090.4 | 4168.2 | 4249.5 | 4322.1 |
| 17.5° | 3718.7 | 3739.5 | 3808.6 | 3924.5 | 4059.3 | 4194.1 | 4225.3 | 4284.0 | 4346.3 | 4410.3 | 4479.4 |
| 20° | 3867.4 | 3884.7 | 3972.9 | 4116.4 | 4275.4 | 4398.2 | 4429.3 | 4481.1 | 4510.5 | 4543.4 | 4602.2 |
| 22.5° | 4016.1 | 4040.3 | 4140.6 | 4310.0 | 4496.7 | 4629.8 | 4654.0 | 4702.4 | 4681.7 | 4671.3 | 4709.3 |
| 25° | 4201.1 | 4233.9 | 4332.5 | 4517.4 | 4707.6 | 4871.9 | 4890.9 | 4932.4 | 4897.8 | 4844.2 | 4842.5 |
| 27.5° | 4431.0 | 4460.4 | 4562.4 | 4752.6 | 4941.0 | 5112.2 | 5148.5 | 5203.8 | 5127.7 | 5062.0 | 5015.3 |
| 30° | 4704.2 | 4723.2 | 4835.5 | 5037.8 | 5231.4 | 5394.0 | 5440.6 | 5496.0 | 5438.9 | 5330.0 | 5283.3 |
| 32.5° | 5022.3 | 5048.2 | 5177.9 | 5390.5 | 5563.4 | 5725.9 | 5772.6 | 5841.7 | 5779.5 | 5656.7 | 5598.0 |
| 35° | 5404.3 | 5430.3 | 5566.8 | 5798.5 | 5974.8 | 6142.5 | 6175.4 | 6232.4 | 6154.6 | 6012.9 | 5966.2 |
| 37.5° | 5819.3 | 5852.1 | 6025.0 | 6244.5 | 6429.5 | 6624.9 | 6626.6 | 6643.9 | 6533.3 | 6356.9 | 6305.1 |
| 40° | 6286.0 | 6329.3 | 6502.1 | 6730.3 | 6953.4 | 7112.4 | 7110.7 | 7062.3 | 6875.6 | 6602.4 | 6522.9 |
| 42.5° | 6747.6 | 6782.2 | 6956.8 | 7191.9 | 7415.0 | 7565.4 | 7520.4 | 7402.9 | 7133.2 | 6761.5 | 6656.0 |
| 45° | 7081.3 | 7107.2 | 7290.5 | 7555.0 | 7781.5 | 7874.8 | 7793.6 | 7651.8 | 7287.0 | 6861.7 | 6706.1 |
| 47.5° | 7238.6 | 7273.2 | 7458.2 | 7721.0 | 7976.8 | 8030.4 | 7933.6 | 7800.5 | 7376.9 | 6955.1 | 6745.9 |
| 50° | 7153.9 | 7198.9 | 7408.0 | 7651.8 | 7940.5 | 8051.2 | 7982.0 | 7848.9 | 7472.0 | 7046.7 | 6816.8 |
| 52.5° | 6934.3 | 6977.6 | 7242.1 | 7537.7 | 7864.5 | 8084.0 | 8082.3 | 7973.4 | 7580.9 | 7072.7 | 6820.2 |
| 55° | 6184.0 | 6268.7 | 6680.2 | 7190.2 | 7771.1 | 8180.8 | 8222.3 | 8106.5 | 7598.2 | 7079.6 | 6856.6 |
| 57.5° | 4024.7 | 4173.4 | 4564.1 | 5228.0 | 6393.2 | 7440.9 | 7721.0 | 7748.6 | 7473.7 | 7050.2 | 6863.5 |
| 60° | 1680.4 | 1799.7 | 2109.2 | 2550.0 | 3513.0 | 4759.5 | 5302.3 | 5846.9 | 6503.9 | 6742.4 | 6799.5 |
| 62.5° | 1044.2 | 1054.6 | 1085.7 | 1186.0 | 1507.5 | 2116.1 | 2465.3 | 2975.3 | 3952.1 | 4783.7 | 5167.5 |
| 65° | 942.2 | 947.4 | 954.3 | 947.4 | 963.0 | 1037.3 | 1130.7 | 1308.7 | 1706.4 | 2119.5 | 2610.5 |
| 67.5° | 829.8 | 836.8 | 841.9 | 836.8 | 841.9 | 845.4 | 855.8 | 871.3 | 943.9 | 1002.7 | 1047.7 |
| 70° | 670.8 | 681.2 | 689.8 | 686.3 | 707.1 | 707.1 | 717.5 | 729.6 | 765.9 | 809.1 | 840.2 |
| 72.5° | 511.7 | 503.1 | 513.5 | 516.9 | 535.9 | 546.3 | 561.9 | 575.7 | 617.2 | 643.1 | 682.9 |
| 75° | 331.9 | 323.3 | 338.9 | 347.5 | 373.4 | 387.3 | 401.1 | 414.9 | 444.3 | 461.6 | 499.6 |
| 77.5° | 179.8 | 178.1 | 193.6 | 205.7 | 233.4 | 250.7 | 261.1 | 271.4 | 295.6 | 300.8 | 325.0 |
| 80° | 103.7 | 103.7 | 114.1 | 122.7 | 140.0 | 159.1 | 169.4 | 178.1 | 195.4 | 200.5 | 210.9 |
| 82.5° | 57.1 | 57.1 | 62.2 | 67.4 | 81.3 | 91.6 | 100.3 | 107.2 | 122.7 | 127.9 | 133.1 |
| 85° | 27.7 | 25.9 | 29.4 | 32.8 | 38.0 | 43.2 | 48.4 | 51.9 | 64.0 | 67.4 | 74.3 |
| 87.5° | 3.5 | 3.5 | 3.5 | 5.2 | 6.9 | 10.4 | 12.1 | 12.1 | 19.0 | 22.5 | 25.9 |
| 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° | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 | 3521.6 |
| 2.5° | 3556.2 | 3533.7 | 3547.6 | 3552.8 | 3552.8 | 3547.6 | 3525.1 | 3518.2 | 3507.8 | 3492.2 | 3492.2 |
| 5° | 3635.7 | 3618.4 | 3621.9 | 3613.3 | 3592.5 | 3566.6 | 3525.1 | 3504.3 | 3487.1 | 3468.0 | 3466.3 |
| 7.5° | 3772.3 | 3749.8 | 3746.4 | 3713.5 | 3658.2 | 3602.9 | 3540.6 | 3502.6 | 3476.7 | 3452.5 | 3450.8 |
| 10° | 3950.4 | 3929.6 | 3903.7 | 3838.0 | 3756.8 | 3675.5 | 3590.8 | 3538.9 | 3500.9 | 3466.3 | 3464.6 |
| 12.5° | 4149.2 | 4125.0 | 4076.6 | 3979.8 | 3877.8 | 3798.2 | 3701.4 | 3621.9 | 3564.9 | 3518.2 | 3509.5 |
| 15° | 4365.3 | 4330.7 | 4247.7 | 4133.6 | 4033.4 | 3948.7 | 3844.9 | 3730.8 | 3644.4 | 3570.0 | 3561.4 |
| 17.5° | 4531.3 | 4486.3 | 4396.4 | 4289.2 | 4206.3 | 4121.5 | 3986.7 | 3843.2 | 3718.7 | 3625.4 | 3611.5 |
| 20° | 4645.4 | 4609.1 | 4507.1 | 4427.5 | 4379.1 | 4304.8 | 4147.5 | 3985.0 | 3844.9 | 3727.4 | 3720.4 |
| 22.5° | 4750.8 | 4707.6 | 4607.3 | 4560.7 | 4560.7 | 4510.5 | 4360.1 | 4168.2 | 4004.0 | 3867.4 | 3850.1 |
| 25° | 4870.1 | 4823.4 | 4747.4 | 4742.2 | 4766.4 | 4743.9 | 4562.4 | 4356.7 | 4164.8 | 4010.9 | 3983.2 |
| 27.5° | 5036.1 | 4984.2 | 4939.3 | 4970.4 | 5005.0 | 4980.8 | 4778.5 | 4539.9 | 4337.6 | 4182.0 | 4157.8 |
| 30° | 5300.6 | 5236.6 | 5195.1 | 5233.2 | 5300.6 | 5229.7 | 5010.2 | 4757.7 | 4553.7 | 4382.6 | 4370.5 |
| 32.5° | 5608.3 | 5535.7 | 5492.5 | 5553.0 | 5613.5 | 5502.9 | 5285.0 | 5043.0 | 4828.6 | 4648.8 | 4628.1 |
| 35° | 5978.3 | 5886.7 | 5822.7 | 5904.0 | 5966.2 | 5857.3 | 5641.2 | 5411.2 | 5172.7 | 4986.0 | 4958.3 |
| 37.5° | 6306.8 | 6196.1 | 6152.9 | 6267.0 | 6350.0 | 6279.1 | 6044.0 | 5827.9 | 5566.8 | 5362.8 | 5350.7 |
| 40° | 6545.4 | 6436.4 | 6405.3 | 6593.8 | 6739.0 | 6721.7 | 6510.8 | 6263.6 | 6018.1 | 5782.9 | 5760.5 |
| 42.5° | 6649.1 | 6573.0 | 6579.9 | 6834.1 | 7058.8 | 7169.5 | 6981.0 | 6716.5 | 6479.7 | 6235.9 | 6220.3 |
| 45° | 6671.6 | 6624.9 | 6680.2 | 6998.3 | 7293.9 | 7520.4 | 7359.6 | 7138.4 | 6870.4 | 6635.3 | 6628.3 |
| 47.5° | 6695.8 | 6669.8 | 6754.6 | 7091.7 | 7442.6 | 7705.4 | 7615.5 | 7387.3 | 7115.9 | 6885.9 | 6868.7 |
| 50° | 6752.8 | 6742.4 | 6837.5 | 7157.4 | 7513.5 | 7755.5 | 7653.5 | 7427.1 | 7148.7 | 6922.2 | 6880.8 |
| 52.5° | 6770.1 | 6752.8 | 6889.4 | 7259.4 | 7631.1 | 7753.8 | 7534.3 | 7238.6 | 6958.6 | 6706.1 | 6662.9 |
| 55° | 6823.7 | 6792.6 | 6885.9 | 7297.4 | 7793.6 | 7854.1 | 7527.3 | 7084.8 | 6694.0 | 6350.0 | 6248.0 |
| 57.5° | 6837.5 | 6803.0 | 6863.5 | 7235.2 | 7617.2 | 7563.6 | 6616.2 | 5717.3 | 4980.8 | 4598.7 | 4641.9 |
| 60° | 6763.2 | 6773.6 | 6669.8 | 6628.3 | 6109.7 | 5394.0 | 4050.7 | 3238.1 | 2543.1 | 2249.2 | 2313.2 |
| 62.5° | 5148.5 | 5191.7 | 4837.3 | 4206.3 | 3234.6 | 2563.9 | 1696.0 | 1317.4 | 1115.1 | 1063.2 | 1071.9 |
| 65° | 2598.4 | 2657.2 | 2289.0 | 1893.1 | 1407.3 | 1137.6 | 983.7 | 952.6 | 942.2 | 930.1 | 930.1 |
| 67.5° | 1028.7 | 1045.9 | 1032.1 | 966.4 | 899.0 | 874.8 | 867.9 | 864.4 | 852.3 | 845.4 | 847.1 |
| 70° | 826.4 | 840.2 | 819.5 | 778.0 | 750.3 | 748.6 | 745.1 | 738.2 | 729.6 | 729.6 | 734.8 |
| 72.5° | 674.2 | 688.1 | 658.7 | 632.8 | 612.0 | 596.4 | 587.8 | 582.6 | 570.5 | 570.5 | 575.7 |
| 75° | 496.2 | 504.8 | 480.6 | 477.2 | 454.7 | 439.1 | 425.3 | 418.4 | 402.8 | 395.9 | 401.1 |
| 77.5° | 330.2 | 328.5 | 316.4 | 316.4 | 307.7 | 288.7 | 273.2 | 257.6 | 236.9 | 223.0 | 226.5 |
| 80° | 214.4 | 214.4 | 209.2 | 209.2 | 200.5 | 185.0 | 166.0 | 150.4 | 138.3 | 127.9 | 127.9 |
| 82.5° | 136.6 | 134.8 | 133.1 | 131.4 | 127.9 | 112.4 | 98.5 | 88.2 | 79.5 | 72.6 | 74.3 |
| 85° | 76.1 | 76.1 | 72.6 | 72.6 | 65.7 | 57.1 | 50.1 | 43.2 | 38.0 | 36.3 | 36.3 |
| 87.5° | 25.9 | 25.9 | 24.2 | 24.2 | 20.7 | 15.6 | 12.1 | 10.4 | 8.6 | 6.9 | 8.6 |
| 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)