

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: P638335

Luminaire Tested: GWS-SA4E-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19633.5 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

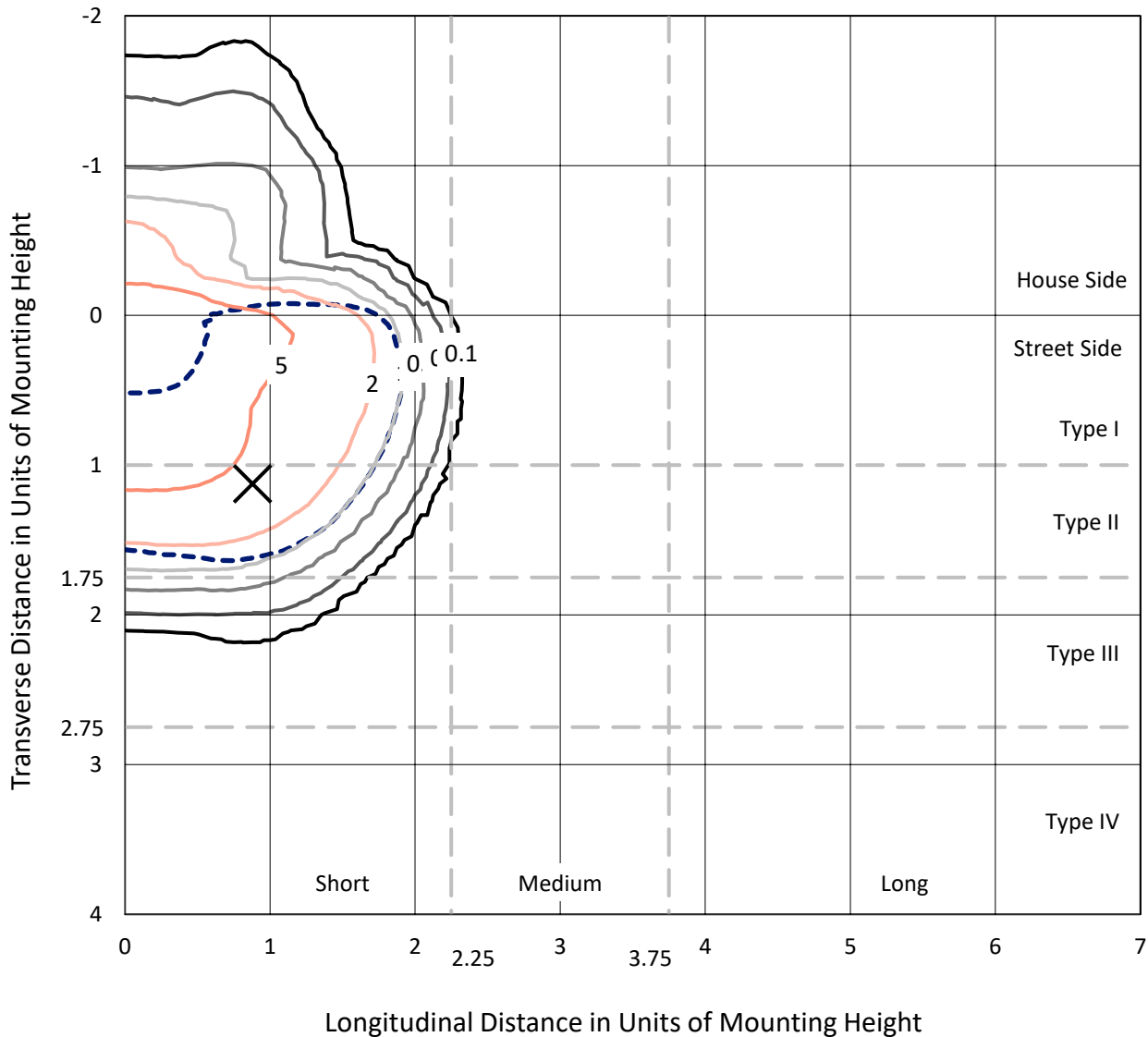
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

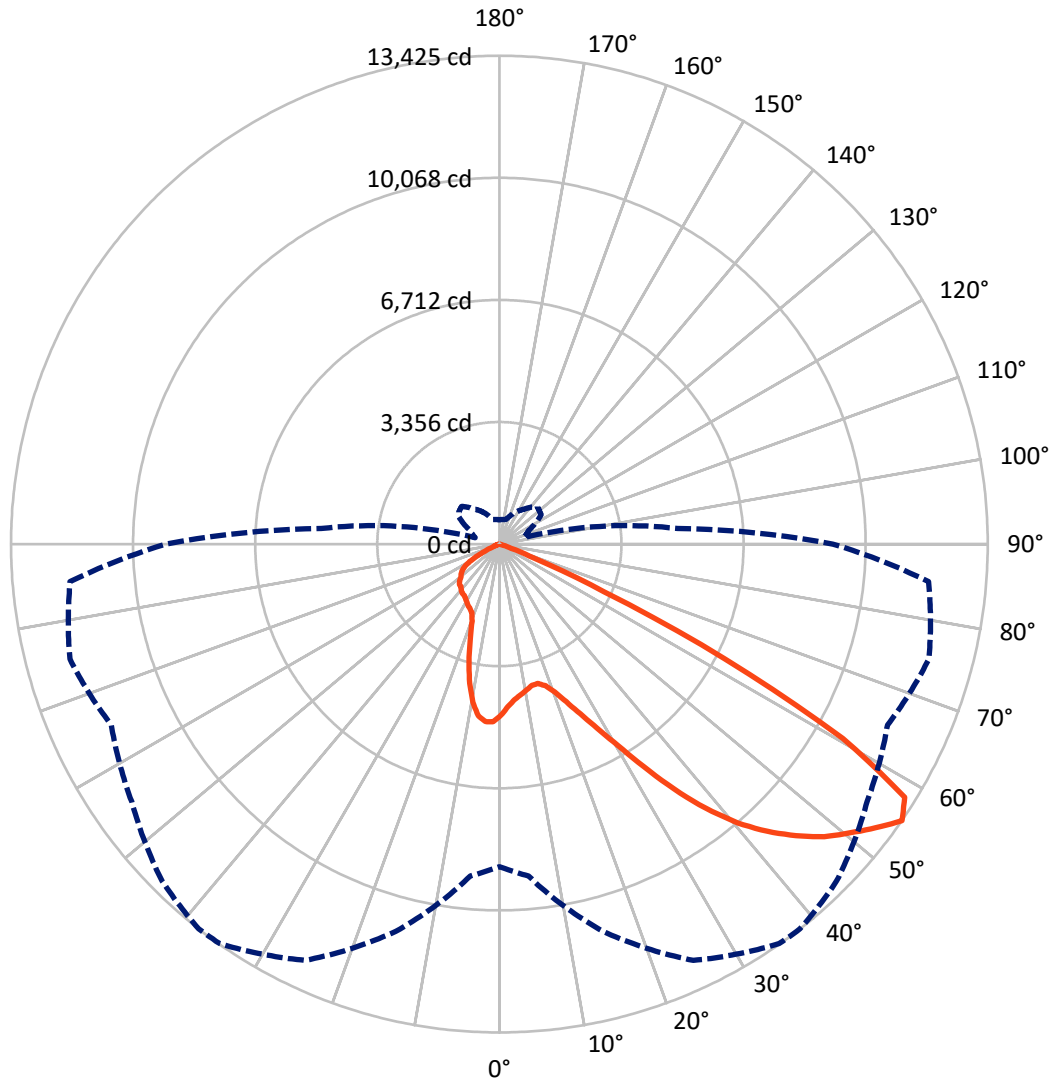
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3825.2 | 0.0 | 3825.2 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 15808.3 | 0.0 | 15808.3 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 19633.5 | 0.0 | 19633.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 435.3 | 2.2 |
| 10°-20° | 1172.0 | 6.0 |
| 20°-30° | 2011.2 | 10.2 |
| 30°-40° | 3335.7 | 17.0 |
| 40°-50° | 4903.7 | 25.0 |
| 50°-60° | 5730.1 | 29.2 |
| 60°-70° | 1942.3 | 9.9 |
| 70°-80° | 99.3 | 0.5 |
| 80°-90° | 3.9 | 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° | 19633.5 | 100.0 |
| 0°-180° | 19633.5 | 100.0 |

Coefficient of Utilization



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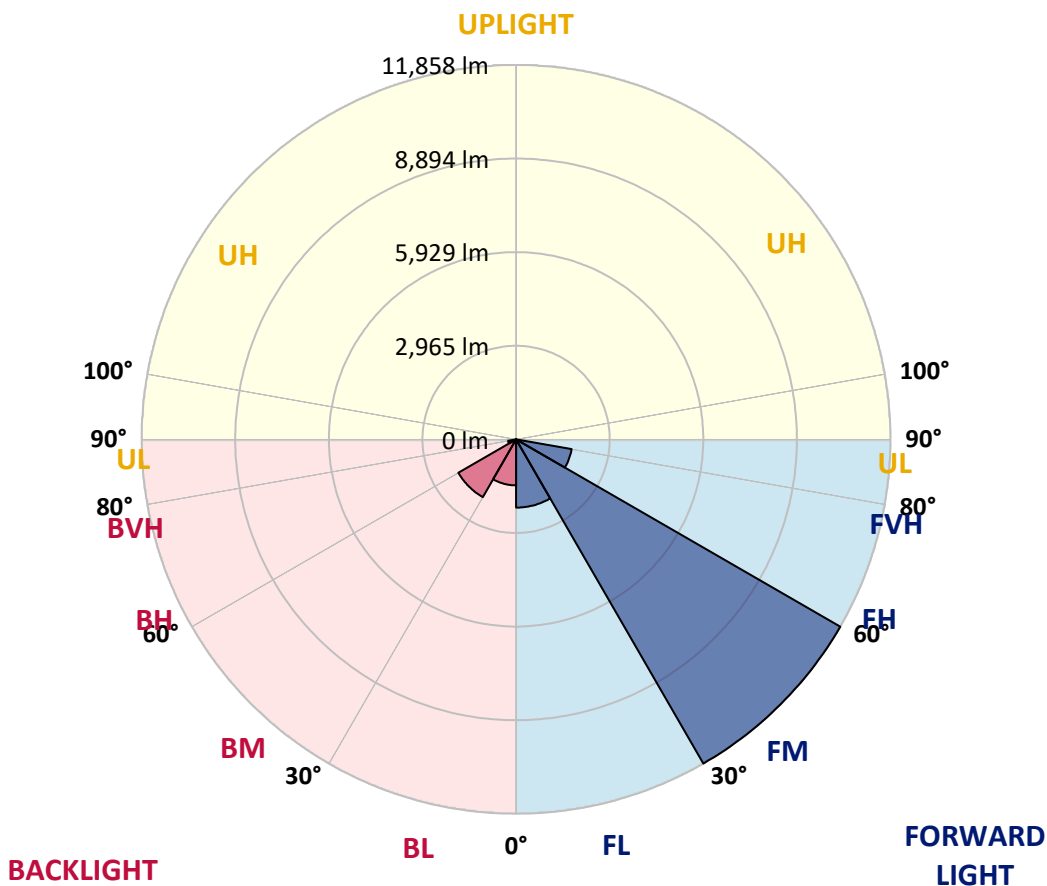
CATALOG NUMBER: GWS-SA4E-750-U-T3R-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2161.2 | 11.0 | | | |
| FM (30°-60°) | 11858.1 | 60.4 | | | |
| FH (60°-80°) | 1787.0 | 9.1 | | | G1/1800 |
| FVH (80°-90°) | 2.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1457.4 | 7.4 | B3/2500 | | |
| BM (30°-60°) | 2111.4 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 254.7 | 1.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 |
| 2.5° | 4385.1 | 4376.1 | 4394.1 | 4430.0 | 4463.6 | 4474.9 | 4508.5 | 4555.7 | 4584.8 | 4654.4 | 4710.5 |
| 5° | 4187.6 | 4183.1 | 4201.1 | 4232.5 | 4277.4 | 4293.1 | 4344.7 | 4423.3 | 4501.8 | 4623.0 | 4741.9 |
| 7.5° | 4008.1 | 4005.8 | 4032.8 | 4102.3 | 4167.4 | 4187.6 | 4250.5 | 4347.0 | 4452.4 | 4638.7 | 4813.7 |
| 10° | 3772.4 | 3774.7 | 3826.3 | 3925.0 | 4044.0 | 4084.4 | 4185.4 | 4324.5 | 4461.4 | 4701.5 | 4943.9 |
| 12.5° | 3696.1 | 3700.6 | 3727.6 | 3803.9 | 3934.0 | 3985.6 | 4127.0 | 4338.0 | 4513.0 | 4791.3 | 5112.2 |
| 15° | 3882.4 | 3882.4 | 3860.0 | 3868.9 | 3927.3 | 3974.4 | 4122.5 | 4382.9 | 4600.5 | 4899.0 | 5278.3 |
| 17.5° | 4243.7 | 4230.3 | 4174.2 | 4097.9 | 4077.7 | 4093.4 | 4212.3 | 4479.4 | 4724.0 | 5024.7 | 5466.8 |
| 20° | 4732.9 | 4737.4 | 4627.5 | 4468.1 | 4340.2 | 4338.0 | 4409.8 | 4649.9 | 4901.3 | 5175.1 | 5671.0 |
| 22.5° | 5325.4 | 5307.5 | 5161.6 | 4943.9 | 4721.7 | 4703.8 | 4732.9 | 4910.2 | 5157.1 | 5412.9 | 5922.4 |
| 25° | 6012.1 | 6003.1 | 5796.7 | 5504.9 | 5211.0 | 5168.3 | 5168.3 | 5343.4 | 5522.9 | 5751.8 | 6223.1 |
| 27.5° | 6730.3 | 6730.3 | 6530.5 | 6193.9 | 5803.4 | 5727.1 | 5715.9 | 5922.4 | 6041.3 | 6086.2 | 6476.7 |
| 30° | 7468.6 | 7459.6 | 7262.1 | 6916.5 | 6499.1 | 6420.6 | 6389.1 | 6541.7 | 6627.0 | 6492.4 | 6793.1 |
| 32.5° | 8218.1 | 8233.9 | 8034.1 | 7713.2 | 7340.7 | 7289.1 | 7192.6 | 7192.6 | 7262.1 | 7073.6 | 7291.3 |
| 35° | 9023.8 | 9019.3 | 8862.2 | 8644.5 | 8325.9 | 8267.5 | 8108.2 | 7859.1 | 7964.6 | 7881.5 | 7980.3 |
| 37.5° | 9735.2 | 9768.9 | 9692.6 | 9531.0 | 9272.9 | 9214.6 | 8952.0 | 8500.9 | 8581.7 | 8711.9 | 8799.4 |
| 40° | 10457.8 | 10484.8 | 10561.1 | 10509.4 | 10184.0 | 10076.3 | 9609.5 | 8869.0 | 8958.7 | 9405.3 | 9656.7 |
| 42.5° | 11167.0 | 11180.4 | 11335.3 | 11420.6 | 10985.2 | 10796.7 | 10107.7 | 9093.4 | 9187.6 | 9948.4 | 10388.3 |
| 45° | 11618.1 | 11647.2 | 11903.1 | 12163.4 | 11692.1 | 11434.0 | 10540.9 | 9380.6 | 9421.0 | 10325.4 | 10929.1 |
| 47.5° | 11600.1 | 11667.4 | 12147.7 | 12621.2 | 12300.3 | 12022.0 | 11061.5 | 9840.7 | 9773.3 | 10680.0 | 11285.9 |
| 50° | 11238.8 | 11319.6 | 12008.5 | 12760.3 | 12737.9 | 12479.8 | 11640.5 | 10507.2 | 10296.2 | 10994.2 | 11330.8 |
| 52.5° | 10489.2 | 10722.6 | 11763.9 | 12778.3 | 13090.2 | 12960.1 | 12356.4 | 11404.9 | 11003.2 | 11445.3 | 11402.6 |
| 55° | 8869.0 | 9156.2 | 11021.1 | 12625.7 | 13408.9 | 13424.6 | 13108.2 | 12340.7 | 11770.7 | 12221.7 | 11844.7 |
| 57.5° | 6732.5 | 6961.4 | 8483.0 | 11238.8 | 12881.5 | 13139.6 | 13399.9 | 12834.4 | 12244.2 | 12751.4 | 11947.9 |
| 60° | 4057.5 | 4322.3 | 5311.9 | 8247.3 | 10404.0 | 10843.8 | 11864.9 | 11754.9 | 11043.5 | 11261.2 | 9798.0 |
| 62.5° | 1645.0 | 1784.1 | 2452.9 | 4544.4 | 6548.5 | 6959.2 | 7937.6 | 8103.7 | 7928.6 | 7706.5 | 5942.6 |
| 65° | 601.4 | 657.5 | 982.9 | 1878.4 | 3011.7 | 3162.0 | 3678.2 | 3972.2 | 4214.5 | 3588.4 | 2210.5 |
| 67.5° | 372.5 | 408.4 | 639.6 | 965.0 | 1095.2 | 1018.9 | 1036.8 | 1236.5 | 1180.4 | 729.4 | 395.0 |
| 70° | 276.0 | 305.2 | 500.4 | 668.8 | 442.1 | 341.1 | 231.1 | 246.9 | 222.2 | 195.2 | 193.0 |
| 72.5° | 190.8 | 217.7 | 374.8 | 395.0 | 170.6 | 121.2 | 85.3 | 118.9 | 134.7 | 132.4 | 136.9 |
| 75° | 125.7 | 145.9 | 235.6 | 154.8 | 42.6 | 33.7 | 29.2 | 62.8 | 80.8 | 80.8 | 83.0 |
| 77.5° | 74.1 | 85.3 | 83.0 | 31.4 | 9.0 | 9.0 | 6.7 | 11.2 | 18.0 | 20.2 | 24.7 |
| 80° | 9.0 | 6.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 6.7 | 6.7 | 6.7 |
| 82.5° | 2.2 | 2.2 | 2.2 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 6.7 | 6.7 |
| 85° | 0.0 | 0.0 | 2.2 | 2.2 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 6.7 | 6.7 |
| 87.5° | 0.0 | 0.0 | 2.2 | 2.2 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 6.7 | 6.7 |
| 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° | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 | 4708.3 |
| 2.5° | 4753.1 | 4737.4 | 4802.5 | 4849.6 | 4887.8 | 4905.8 | 4881.1 | 4878.8 | 4878.8 | 4829.4 | 4816.0 |
| 5° | 4809.3 | 4816.0 | 4908.0 | 4948.4 | 4955.1 | 4932.7 | 4876.6 | 4838.4 | 4816.0 | 4764.4 | 4735.2 |
| 7.5° | 4917.0 | 4939.4 | 5026.9 | 5020.2 | 4959.6 | 4856.4 | 4708.3 | 4593.8 | 4519.8 | 4439.0 | 4389.6 |
| 10° | 5071.8 | 5114.5 | 5168.3 | 5074.1 | 4881.1 | 4618.5 | 4313.3 | 4095.6 | 3965.4 | 3873.4 | 3817.3 |
| 12.5° | 5260.3 | 5303.0 | 5285.0 | 5062.8 | 4661.1 | 4192.1 | 3799.4 | 3485.2 | 3334.8 | 3251.8 | 3193.5 |
| 15° | 5451.1 | 5478.0 | 5361.3 | 4928.2 | 4272.9 | 3642.3 | 3204.7 | 2892.7 | 2708.7 | 2641.4 | 2592.0 |
| 17.5° | 5646.3 | 5639.6 | 5374.8 | 4663.4 | 3754.5 | 3022.9 | 2592.0 | 2378.8 | 2327.2 | 2316.0 | 2311.5 |
| 20° | 5850.5 | 5790.0 | 5320.9 | 4284.1 | 3130.6 | 2410.2 | 2165.6 | 2179.1 | 2273.3 | 2318.2 | 2327.2 |
| 22.5° | 6083.9 | 5931.3 | 5186.3 | 3770.2 | 2493.3 | 2008.5 | 2033.2 | 2165.6 | 2293.5 | 2354.1 | 2363.1 |
| 25° | 6333.0 | 6061.5 | 4961.9 | 3110.4 | 1965.9 | 1846.9 | 1992.8 | 2145.4 | 2282.3 | 2356.4 | 2365.4 |
| 27.5° | 6496.9 | 6092.9 | 4593.8 | 2446.1 | 1687.6 | 1784.1 | 1939.0 | 2084.8 | 2226.2 | 2307.0 | 2318.2 |
| 30° | 6674.2 | 6079.5 | 4093.4 | 1885.1 | 1593.4 | 1730.3 | 1864.9 | 1997.3 | 2127.5 | 2217.2 | 2226.2 |
| 32.5° | 6934.5 | 6070.5 | 3482.9 | 1530.5 | 1555.2 | 1687.6 | 1786.4 | 1896.3 | 1986.1 | 2037.7 | 2031.0 |
| 35° | 7275.6 | 6059.3 | 2771.5 | 1380.2 | 1532.8 | 1654.0 | 1732.5 | 1784.1 | 1685.4 | 1654.0 | 1660.7 |
| 37.5° | 7713.2 | 6086.2 | 2172.4 | 1317.3 | 1526.0 | 1645.0 | 1712.3 | 1564.2 | 1411.6 | 1353.2 | 1344.3 |
| 40° | 8197.9 | 6155.8 | 1656.2 | 1292.6 | 1548.5 | 1667.4 | 1636.0 | 1391.4 | 1202.9 | 1088.4 | 1063.7 |
| 42.5° | 8684.9 | 6232.1 | 1310.6 | 1283.7 | 1586.6 | 1730.3 | 1510.3 | 1265.7 | 982.9 | 917.9 | 908.9 |
| 45° | 9046.2 | 6218.6 | 1133.3 | 1268.0 | 1620.3 | 1766.2 | 1476.7 | 1086.2 | 877.5 | 848.3 | 850.5 |
| 47.5° | 9228.0 | 6070.5 | 1036.8 | 1232.0 | 1633.8 | 1730.3 | 1393.6 | 1012.1 | 805.7 | 837.1 | 864.0 |
| 50° | 9131.5 | 5686.7 | 947.0 | 1162.5 | 1604.6 | 1683.1 | 1261.2 | 956.0 | 769.7 | 899.9 | 960.5 |
| 52.5° | 9014.8 | 5215.4 | 848.3 | 1054.8 | 1535.0 | 1618.0 | 1209.6 | 940.3 | 747.3 | 868.5 | 913.4 |
| 55° | 9169.7 | 4917.0 | 686.7 | 888.7 | 1398.1 | 1465.4 | 1169.2 | 938.1 | 695.7 | 675.5 | 668.8 |
| 57.5° | 8952.0 | 4322.3 | 491.5 | 639.6 | 1072.7 | 1160.2 | 1140.0 | 922.4 | 617.1 | 614.9 | 623.9 |
| 60° | 6918.8 | 2636.9 | 336.6 | 406.2 | 657.5 | 740.6 | 1034.6 | 882.0 | 531.9 | 489.2 | 491.5 |
| 62.5° | 3931.8 | 1122.1 | 231.1 | 251.3 | 336.6 | 399.5 | 789.9 | 801.2 | 491.5 | 466.8 | 491.5 |
| 65° | 1368.9 | 401.7 | 179.5 | 168.3 | 186.3 | 213.2 | 453.3 | 619.4 | 446.6 | 404.0 | 408.4 |
| 67.5° | 282.8 | 199.7 | 159.3 | 139.1 | 139.1 | 139.1 | 231.1 | 386.0 | 368.0 | 320.9 | 325.4 |
| 70° | 179.5 | 170.6 | 139.1 | 118.9 | 114.5 | 105.5 | 132.4 | 213.2 | 253.6 | 233.4 | 235.6 |
| 72.5° | 132.4 | 130.2 | 110.0 | 96.5 | 85.3 | 76.3 | 83.0 | 105.5 | 130.2 | 134.7 | 136.9 |
| 75° | 80.8 | 83.0 | 71.8 | 60.6 | 53.9 | 47.1 | 49.4 | 49.4 | 49.4 | 44.9 | 49.4 |
| 77.5° | 24.7 | 26.9 | 22.4 | 18.0 | 15.7 | 15.7 | 15.7 | 13.5 | 11.2 | 6.7 | 6.7 |
| 80° | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 4.5 | 4.5 | 2.2 | 2.2 | 0.0 | 0.0 |
| 82.5° | 6.7 | 6.7 | 6.7 | 6.7 | 4.5 | 4.5 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 |
| 85° | 6.7 | 6.7 | 6.7 | 6.7 | 4.5 | 4.5 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.7 | 6.7 | 6.7 | 6.7 | 4.5 | 4.5 | 2.2 | 2.2 | 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)