

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: P638368

Luminaire Tested: GWS-SA4E-760-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29652 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

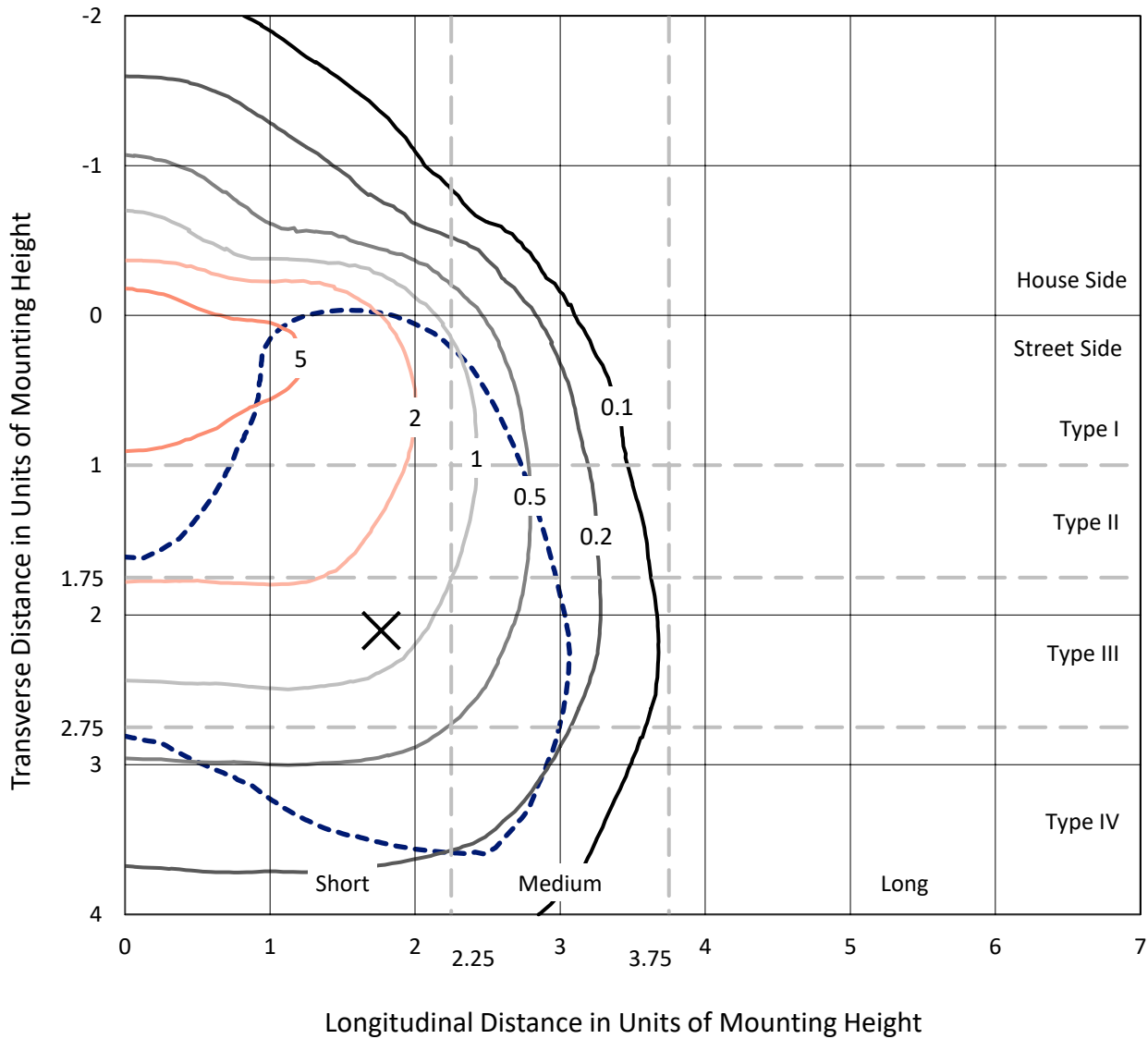
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

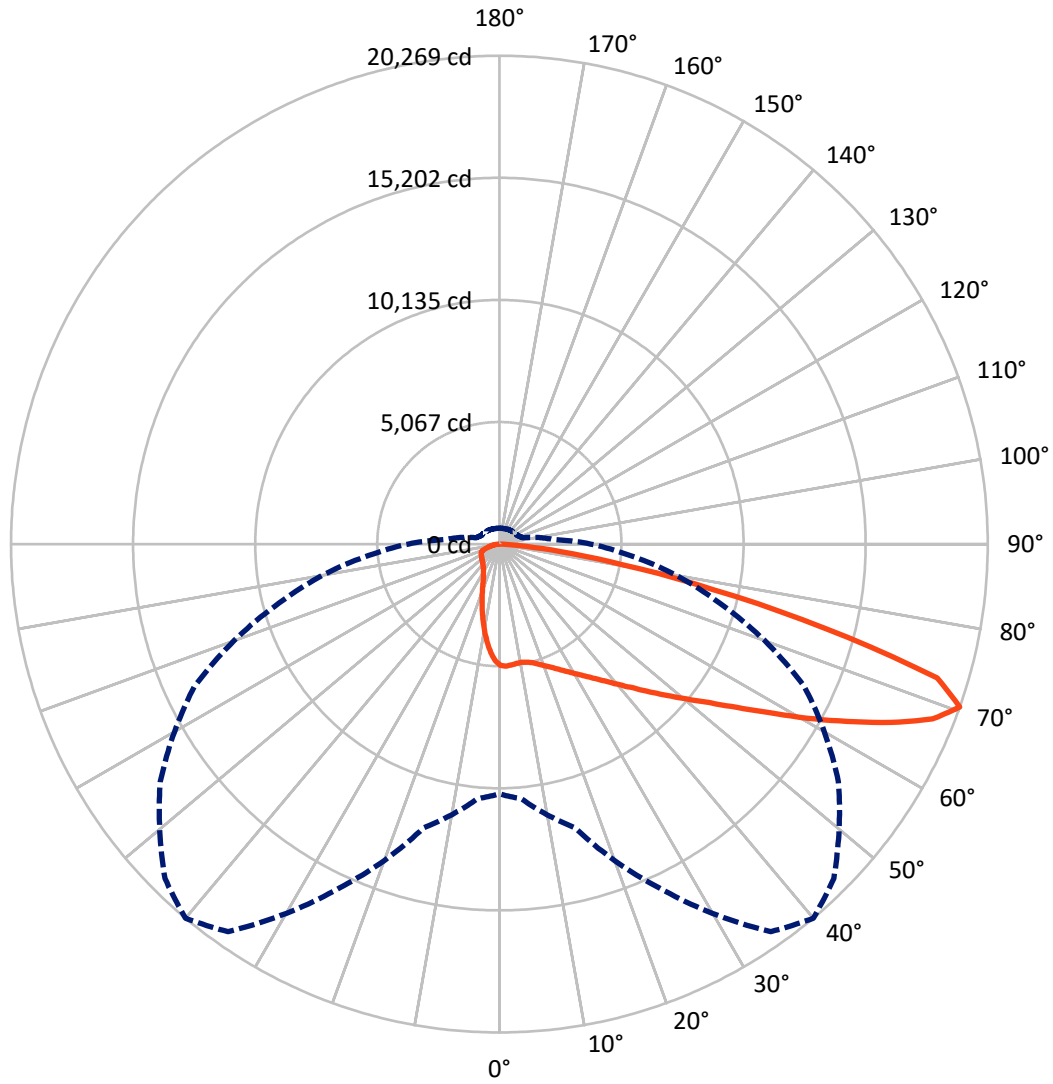
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4567.2 | 0.0 | 4567.2 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 25084.8 | 0.0 | 25084.8 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 29652.0 | 0.0 | 29652.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 444.8 | 1.5 |
| 10°-20° | 1159.5 | 3.9 |
| 20°-30° | 1820.6 | 6.1 |
| 30°-40° | 2737.3 | 9.2 |
| 40°-50° | 4225.1 | 14.2 |
| 50°-60° | 6274.6 | 21.2 |
| 60°-70° | 7909.0 | 26.7 |
| 70°-80° | 4573.7 | 15.4 |
| 80°-90° | 507.6 | 1.7 |
| 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° | 29652.0 | 100.0 |
| 0°-180° | 29652.0 | 100.0 |

Coefficient of Utilization



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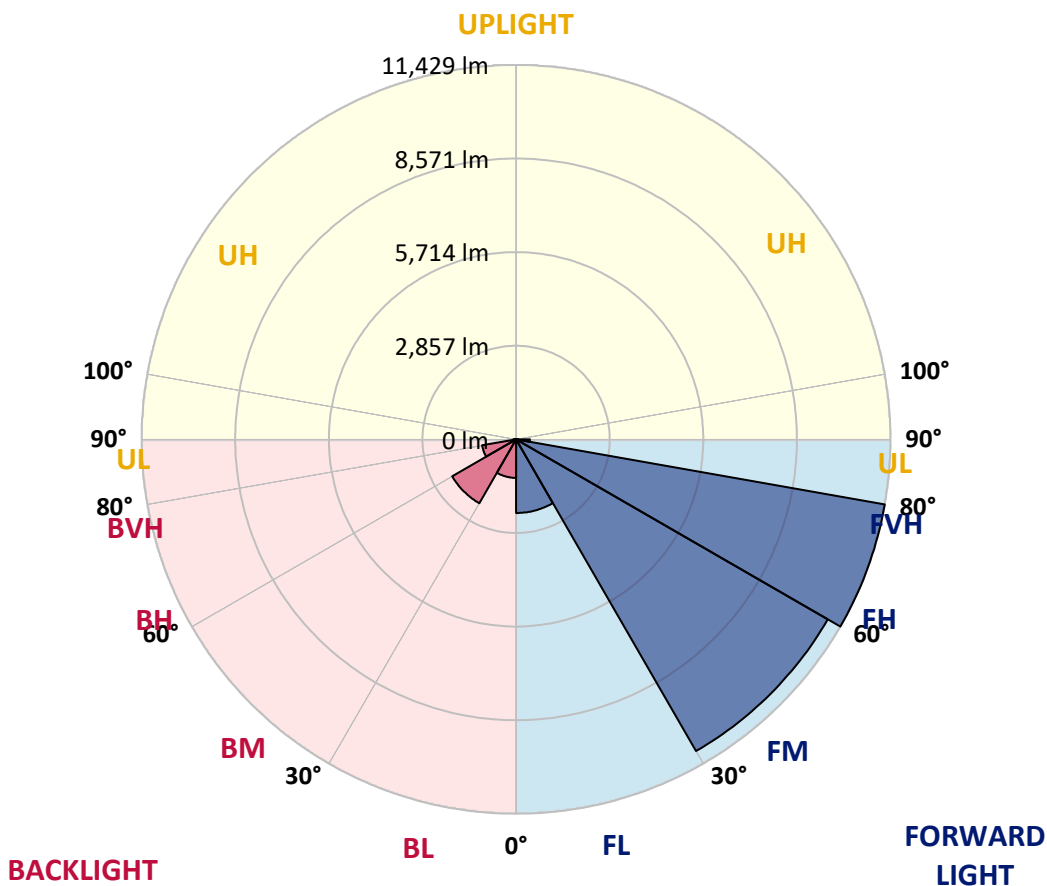
CATALOG NUMBER: GWS-SA4E-760-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2247.8 | 7.6 | | | |
| FM (30°-60°) | 10985.7 | 37.0 | | | |
| FH (60°-80°) | 11428.6 | 38.5 | | | G4/12000 |
| FVH (80°-90°) | 422.7 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1177.0 | 4.0 | B3/2500 | | |
| BM (30°-60°) | 2251.2 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 1054.1 | 3.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 84.8 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 |
| 2.5° | 5066.2 | 5075.1 | 5081.7 | 5090.6 | 5086.2 | 5072.9 | 5083.9 | 5083.9 | 5059.6 | 5033.0 | 5008.7 |
| 5° | 5072.9 | 5083.9 | 5081.7 | 5079.5 | 5061.8 | 5039.7 | 5039.7 | 5026.4 | 4984.3 | 4942.3 | 4902.5 |
| 7.5° | 5059.6 | 5057.4 | 5055.2 | 5048.5 | 5028.6 | 5004.3 | 4999.8 | 4973.3 | 4917.9 | 4860.4 | 4802.9 |
| 10° | 4999.8 | 4997.6 | 5004.3 | 5019.8 | 5015.3 | 4993.2 | 4993.2 | 4968.9 | 4904.7 | 4833.8 | 4758.6 |
| 12.5° | 4951.1 | 4951.1 | 4977.7 | 5019.8 | 5035.2 | 5026.4 | 5028.6 | 5010.9 | 4937.9 | 4853.8 | 4765.2 |
| 15° | 4957.8 | 4960.0 | 5017.5 | 5086.2 | 5114.9 | 5108.3 | 5110.5 | 5090.6 | 5008.7 | 4924.6 | 4805.1 |
| 17.5° | 5002.1 | 5013.1 | 5112.7 | 5207.9 | 5245.5 | 5236.7 | 5221.2 | 5188.0 | 5095.0 | 4999.8 | 4853.8 |
| 20° | 5095.0 | 5112.7 | 5241.1 | 5360.6 | 5404.9 | 5385.0 | 5358.4 | 5292.0 | 5190.2 | 5086.2 | 4906.9 |
| 22.5° | 5278.7 | 5289.8 | 5431.4 | 5548.7 | 5584.1 | 5559.8 | 5506.7 | 5411.5 | 5294.2 | 5185.8 | 4971.1 |
| 25° | 5537.7 | 5550.9 | 5686.0 | 5794.4 | 5785.6 | 5756.8 | 5683.7 | 5566.4 | 5427.0 | 5311.9 | 5064.0 |
| 27.5° | 5845.3 | 5867.4 | 6000.2 | 6086.6 | 6029.0 | 5987.0 | 5905.1 | 5763.4 | 5606.3 | 5502.3 | 5205.7 |
| 30° | 6181.7 | 6190.6 | 6303.5 | 6389.8 | 6301.3 | 6243.7 | 6144.1 | 5991.4 | 5849.7 | 5772.3 | 5418.1 |
| 32.5° | 6507.1 | 6515.9 | 6613.3 | 6662.0 | 6569.1 | 6527.0 | 6440.7 | 6279.1 | 6179.5 | 6137.5 | 5734.7 |
| 35° | 6850.2 | 6847.9 | 6927.6 | 6969.7 | 6874.5 | 6856.8 | 6768.3 | 6644.3 | 6626.6 | 6681.9 | 6197.2 |
| 37.5° | 7193.2 | 7173.3 | 7215.3 | 7270.7 | 7217.6 | 7235.3 | 7177.7 | 7135.7 | 7204.3 | 7348.1 | 6812.5 |
| 40° | 7467.7 | 7467.7 | 7511.9 | 7580.5 | 7598.2 | 7675.7 | 7642.5 | 7697.8 | 7919.2 | 8262.2 | 7573.9 |
| 42.5° | 7711.1 | 7713.3 | 7806.3 | 7912.5 | 8040.9 | 8160.4 | 8187.0 | 8330.8 | 8789.0 | 9326.8 | 8530.0 |
| 45° | 7965.7 | 7967.9 | 8094.0 | 8249.0 | 8521.2 | 8749.2 | 8802.3 | 9125.4 | 9780.6 | 10435.7 | 9568.1 |
| 47.5° | 8260.0 | 8235.7 | 8410.5 | 8669.5 | 9056.8 | 9384.4 | 9521.6 | 9979.8 | 10807.5 | 11613.2 | 10546.4 |
| 50° | 8592.0 | 8541.1 | 8735.9 | 9183.0 | 9661.0 | 10110.3 | 10340.5 | 10865.1 | 11909.7 | 12699.9 | 11467.1 |
| 52.5° | 8966.1 | 8937.3 | 9140.9 | 9685.4 | 10415.8 | 10933.7 | 11245.8 | 11934.1 | 12981.0 | 13782.2 | 12197.5 |
| 55° | 9430.9 | 9362.2 | 9656.6 | 10349.4 | 11301.1 | 11960.7 | 12330.3 | 12992.1 | 14151.8 | 14764.9 | 12755.2 |
| 57.5° | 9939.9 | 9864.7 | 10258.6 | 11179.4 | 12452.0 | 13175.8 | 13638.3 | 14182.8 | 15254.0 | 15517.4 | 13082.8 |
| 60° | 10488.8 | 10464.5 | 10931.5 | 12153.2 | 13824.3 | 14665.3 | 14999.5 | 15493.1 | 16212.4 | 15953.4 | 13000.9 |
| 62.5° | 10991.2 | 10982.4 | 11661.9 | 13209.0 | 15278.4 | 16203.5 | 16469.1 | 16599.7 | 16902.9 | 15924.7 | 12350.2 |
| 65° | 11520.2 | 11595.5 | 12514.0 | 14432.9 | 16945.0 | 17852.4 | 17963.1 | 17631.1 | 17135.3 | 15169.9 | 11017.8 |
| 67.5° | 11586.6 | 11732.7 | 13049.6 | 15579.4 | 18525.3 | 19381.8 | 19293.3 | 18022.9 | 16449.2 | 13069.5 | 8636.3 |
| 70° | 10362.7 | 10617.2 | 12195.3 | 15754.2 | 19638.6 | 20269.4 | 19629.7 | 17179.6 | 13959.3 | 9468.5 | 5431.4 |
| 72.5° | 8658.4 | 8877.5 | 10271.9 | 13434.7 | 18202.2 | 19005.6 | 18140.2 | 14541.4 | 9864.7 | 5431.4 | 2766.6 |
| 75° | 6739.5 | 6994.0 | 8279.9 | 10679.2 | 13627.3 | 13948.2 | 13514.4 | 10141.3 | 5422.6 | 2239.9 | 1257.2 |
| 77.5° | 4112.3 | 4296.0 | 5296.4 | 7235.3 | 9534.9 | 9054.6 | 7673.5 | 5686.0 | 2379.3 | 1073.4 | 776.9 |
| 80° | 1819.3 | 1932.2 | 2609.5 | 3886.5 | 5508.9 | 5207.9 | 4105.7 | 2428.0 | 1301.4 | 681.7 | 542.3 |
| 82.5° | 976.1 | 1049.1 | 1285.9 | 1538.2 | 2419.1 | 2529.8 | 2051.7 | 1398.8 | 699.4 | 389.5 | 309.9 |
| 85° | 429.4 | 471.4 | 584.3 | 557.8 | 794.6 | 781.3 | 787.9 | 960.6 | 334.2 | 179.3 | 201.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.2 | 24.3 | 128.4 | 33.2 | 53.1 | 46.5 |
| 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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 CATALOG NUMBER: GWS-SA4E-760-U-SL4-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 | 5035.2 |
| 2.5° | 4982.1 | 4942.3 | 4931.2 | 4917.9 | 4893.6 | 4851.5 | 4820.6 | 4785.1 | 4769.7 | 4751.9 | 4754.2 |
| 5° | 4858.2 | 4809.5 | 4763.0 | 4703.3 | 4628.0 | 4543.9 | 4486.4 | 4420.0 | 4384.5 | 4351.3 | 4360.2 |
| 7.5° | 4751.9 | 4676.7 | 4581.5 | 4455.4 | 4320.4 | 4169.9 | 4048.1 | 3952.9 | 3888.8 | 3844.5 | 3866.6 |
| 10° | 4685.5 | 4597.0 | 4431.0 | 4225.2 | 3997.2 | 3767.0 | 3592.2 | 3428.4 | 3326.6 | 3246.9 | 3242.5 |
| 12.5° | 4672.3 | 4557.2 | 4315.9 | 4017.1 | 3687.4 | 3379.7 | 3123.0 | 2901.6 | 2766.6 | 2667.0 | 2704.6 |
| 15° | 4685.5 | 4539.5 | 4216.3 | 3824.6 | 3408.5 | 2992.4 | 2673.7 | 2419.1 | 2257.6 | 2166.8 | 2160.2 |
| 17.5° | 4701.0 | 4521.8 | 4103.5 | 3616.5 | 3116.3 | 2640.5 | 2270.8 | 2000.8 | 1834.8 | 1744.1 | 1746.3 |
| 20° | 4714.3 | 4495.2 | 3970.7 | 3388.6 | 2819.7 | 2312.9 | 1930.0 | 1673.3 | 1525.0 | 1458.6 | 1469.6 |
| 22.5° | 4736.5 | 4468.6 | 3829.0 | 3145.1 | 2516.5 | 1996.4 | 1660.0 | 1451.9 | 1363.4 | 1319.1 | 1321.3 |
| 25° | 4778.5 | 4453.2 | 3682.9 | 2879.5 | 2217.7 | 1744.1 | 1474.1 | 1334.6 | 1279.3 | 1252.7 | 1250.5 |
| 27.5° | 4864.8 | 4466.4 | 3530.2 | 2622.8 | 1947.7 | 1551.5 | 1354.5 | 1263.8 | 1226.2 | 1208.5 | 1206.2 |
| 30° | 5008.7 | 4519.6 | 3397.4 | 2361.6 | 1715.3 | 1401.0 | 1272.6 | 1217.3 | 1195.2 | 1179.7 | 1177.5 |
| 32.5° | 5227.8 | 4619.1 | 3253.5 | 2118.1 | 1527.2 | 1290.4 | 1208.5 | 1179.7 | 1164.2 | 1155.3 | 1155.3 |
| 35° | 5559.8 | 4800.6 | 3111.9 | 1905.6 | 1381.1 | 1204.0 | 1157.6 | 1146.5 | 1133.2 | 1128.8 | 1133.2 |
| 37.5° | 6037.9 | 5090.6 | 2983.5 | 1719.7 | 1277.1 | 1137.6 | 1102.2 | 1106.6 | 1095.6 | 1102.2 | 1108.9 |
| 40° | 6644.3 | 5477.9 | 2875.1 | 1567.0 | 1199.6 | 1088.9 | 1053.5 | 1069.0 | 1062.4 | 1069.0 | 1080.1 |
| 42.5° | 7412.3 | 5958.2 | 2793.2 | 1447.5 | 1144.3 | 1049.1 | 1015.9 | 1031.4 | 1027.0 | 1035.8 | 1046.9 |
| 45° | 8268.9 | 6591.2 | 2755.6 | 1363.4 | 1104.4 | 1020.3 | 984.9 | 996.0 | 991.6 | 998.2 | 1009.3 |
| 47.5° | 9090.0 | 7166.7 | 2788.8 | 1314.7 | 1071.2 | 996.0 | 958.4 | 962.8 | 960.6 | 958.4 | 965.0 |
| 50° | 9798.3 | 7624.8 | 2883.9 | 1299.2 | 1049.1 | 971.6 | 936.2 | 938.4 | 931.8 | 918.5 | 922.9 |
| 52.5° | 10375.9 | 7992.2 | 2941.5 | 1299.2 | 1038.0 | 945.1 | 911.9 | 914.1 | 900.8 | 883.1 | 885.3 |
| 55° | 10756.6 | 8140.5 | 2895.0 | 1297.0 | 1033.6 | 922.9 | 887.5 | 889.7 | 876.5 | 854.3 | 856.5 |
| 57.5° | 10865.1 | 7996.6 | 2700.2 | 1272.6 | 1029.2 | 905.2 | 863.2 | 867.6 | 858.8 | 834.4 | 834.4 |
| 60° | 10561.9 | 7469.9 | 2343.9 | 1217.3 | 1018.1 | 894.2 | 845.5 | 852.1 | 847.7 | 823.3 | 823.3 |
| 62.5° | 9767.3 | 6533.7 | 1918.9 | 1133.2 | 987.1 | 880.9 | 830.0 | 843.3 | 854.3 | 841.1 | 838.8 |
| 65° | 8279.9 | 5234.4 | 1560.4 | 1040.2 | 947.3 | 858.8 | 807.9 | 841.1 | 865.4 | 883.1 | 883.1 |
| 67.5° | 6212.7 | 3747.1 | 1272.6 | 942.9 | 887.5 | 814.5 | 779.1 | 810.1 | 827.8 | 838.8 | 845.5 |
| 70° | 3787.0 | 2204.4 | 1002.6 | 830.0 | 801.2 | 748.1 | 721.5 | 690.5 | 666.2 | 661.8 | 664.0 |
| 72.5° | 1852.5 | 1261.6 | 814.5 | 706.0 | 683.9 | 635.2 | 575.5 | 562.2 | 551.1 | 544.5 | 542.3 |
| 75° | 1020.3 | 878.7 | 672.8 | 586.5 | 546.7 | 486.9 | 473.6 | 451.5 | 447.1 | 438.2 | 440.4 |
| 77.5° | 721.5 | 692.8 | 555.5 | 475.9 | 416.1 | 385.1 | 391.8 | 376.3 | 376.3 | 369.6 | 367.4 |
| 80° | 542.3 | 544.5 | 427.2 | 347.5 | 307.6 | 296.6 | 303.2 | 303.2 | 298.8 | 296.6 | 294.4 |
| 82.5° | 343.1 | 387.3 | 287.7 | 223.5 | 219.1 | 221.3 | 219.1 | 216.9 | 221.3 | 214.7 | 212.5 |
| 85° | 236.8 | 278.9 | 174.9 | 132.8 | 132.8 | 130.6 | 135.0 | 132.8 | 137.2 | 130.6 | 130.6 |
| 87.5° | 53.1 | 123.9 | 64.2 | 39.8 | 42.1 | 39.8 | 42.1 | 44.3 | 48.7 | 50.9 | 50.9 |
| 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)