

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: P633355

Luminaire Tested: GWS-SA2E-750-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-750-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12712.2 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

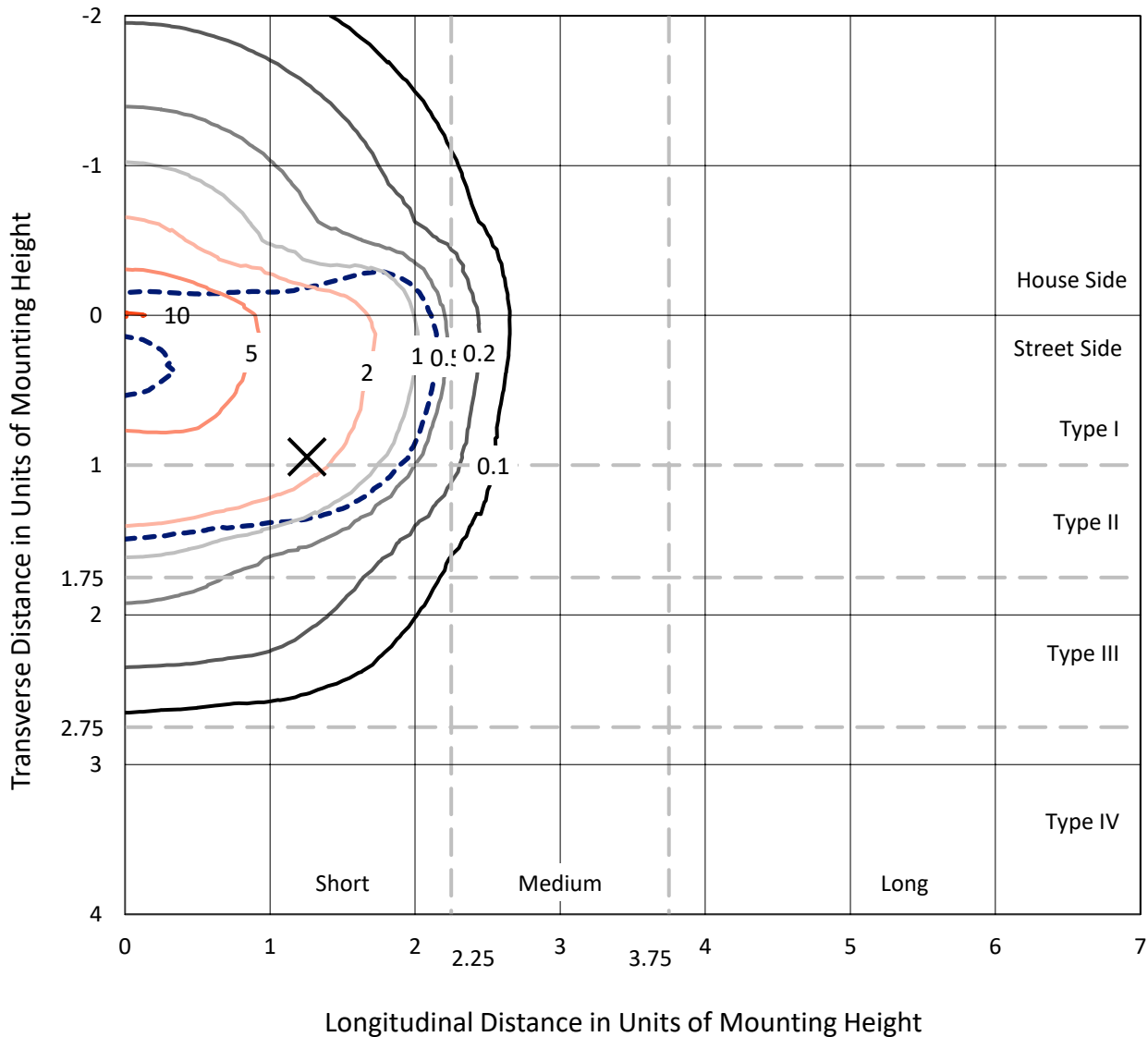
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

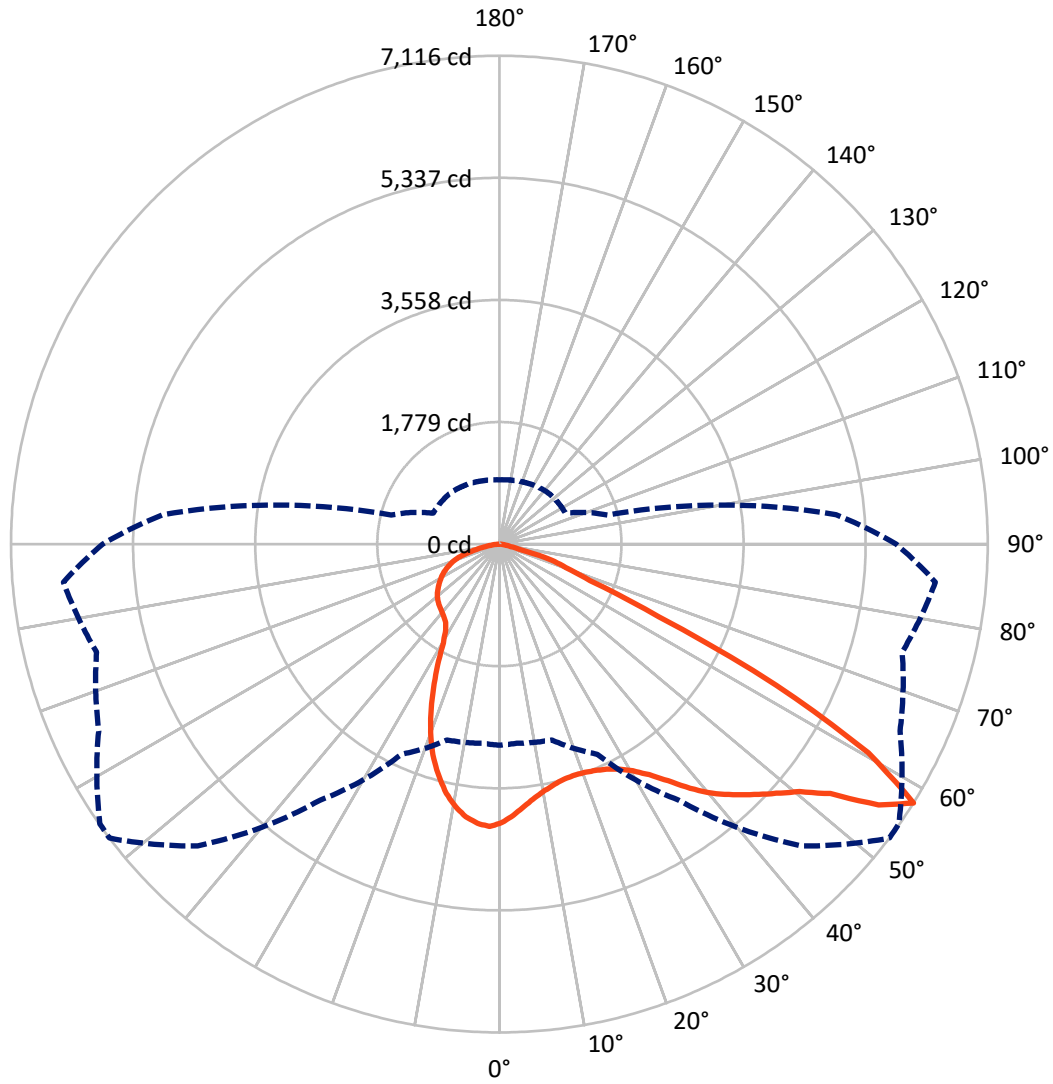
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3974.6 | 0.0 | 3974.6 |
| | % Fixture | 31.3 | 0.0 | 31.3 |
| Street Side | Lumens | 8737.6 | 0.0 | 8737.6 |
| | % Fixture | 68.7 | 0.0 | 68.7 |
| Total | Lumens | 12712.2 | 0.0 | 12712.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 367.1 | 2.9 |
| 10°-20° | 963.1 | 7.6 |
| 20°-30° | 1418.9 | 11.2 |
| 30°-40° | 1986.1 | 15.6 |
| 40°-50° | 2610.9 | 20.5 |
| 50°-60° | 3061.3 | 24.1 |
| 60°-70° | 1803.5 | 14.2 |
| 70°-80° | 448.6 | 3.5 |
| 80°-90° | 52.6 | 0.4 |
| 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° | 12712.2 | 100.0 |
| 0°-180° | 12712.2 | 100.0 |

Coefficient of Utilization



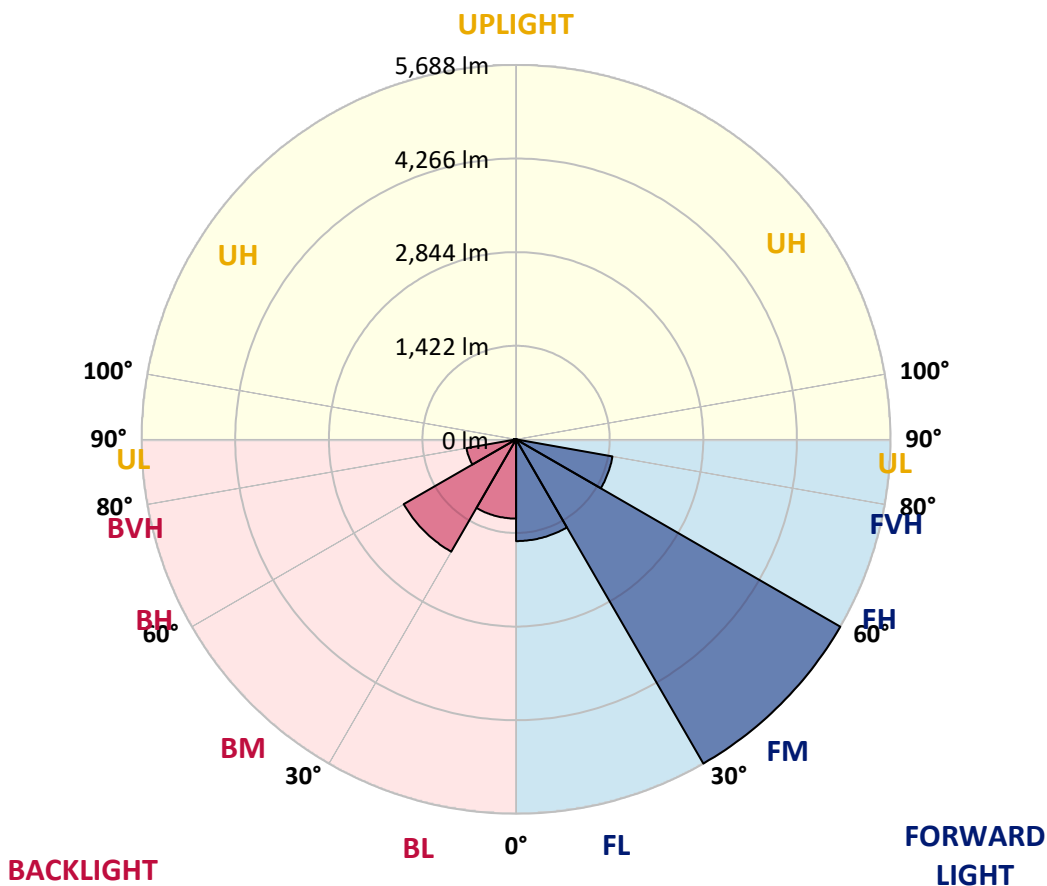
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1545.6 | 12.2 | | | |
| FM (30°-60°) | 5687.6 | 44.7 | | | |
| FH (60°-80°) | 1486.8 | 11.7 | | | G1/1800 |
| FVH (80°-90°) | 17.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1203.5 | 9.5 | B3/2500 | | |
| BM (30°-60°) | 1970.8 | 15.5 | B2/2500 | | |
| BH (60°-80°) | 765.2 | 6.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 35.0 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 |
| 2.5° | 3826.1 | 3836.8 | 3838.9 | 3872.1 | 3874.2 | 3922.4 | 3954.5 | 3948.1 | 3981.2 | 4021.9 | 4054.0 |
| 5° | 3643.1 | 3644.2 | 3654.9 | 3694.5 | 3715.9 | 3779.0 | 3832.5 | 3832.5 | 3896.7 | 3980.2 | 4051.9 |
| 7.5° | 3492.3 | 3491.2 | 3500.8 | 3544.7 | 3580.0 | 3656.0 | 3728.7 | 3737.3 | 3827.2 | 3949.1 | 4065.8 |
| 10° | 3352.1 | 3359.6 | 3370.3 | 3423.8 | 3468.7 | 3562.9 | 3649.6 | 3663.5 | 3776.9 | 3927.7 | 4085.0 |
| 12.5° | 3262.2 | 3263.3 | 3279.4 | 3339.3 | 3397.1 | 3497.6 | 3588.6 | 3605.7 | 3736.2 | 3907.4 | 4098.9 |
| 15° | 3204.5 | 3205.5 | 3222.7 | 3289.0 | 3356.4 | 3458.0 | 3551.1 | 3570.4 | 3712.7 | 3904.2 | 4125.7 |
| 17.5° | 3178.8 | 3177.7 | 3193.8 | 3260.1 | 3333.9 | 3439.9 | 3539.4 | 3562.9 | 3723.4 | 3928.8 | 4172.8 |
| 20° | 3178.8 | 3179.9 | 3188.4 | 3248.3 | 3323.2 | 3435.6 | 3551.1 | 3580.0 | 3765.1 | 3984.5 | 4245.5 |
| 22.5° | 3223.7 | 3228.0 | 3232.3 | 3272.9 | 3331.8 | 3442.0 | 3582.2 | 3620.7 | 3855.0 | 4077.5 | 4340.7 |
| 25° | 3311.5 | 3312.5 | 3316.8 | 3350.0 | 3376.7 | 3460.2 | 3633.5 | 3691.3 | 3995.2 | 4213.4 | 4460.6 |
| 27.5° | 3429.2 | 3444.1 | 3448.4 | 3469.8 | 3469.8 | 3505.1 | 3713.8 | 3797.2 | 4184.5 | 4409.2 | 4613.6 |
| 30° | 3593.9 | 3599.3 | 3606.8 | 3630.3 | 3604.6 | 3589.6 | 3831.5 | 3938.4 | 4403.9 | 4645.7 | 4797.6 |
| 32.5° | 3738.4 | 3750.1 | 3790.8 | 3829.3 | 3783.3 | 3736.2 | 4004.8 | 4131.0 | 4614.6 | 4891.8 | 4993.4 |
| 35° | 3861.4 | 3890.3 | 3968.4 | 4054.0 | 4021.9 | 3974.8 | 4234.8 | 4366.4 | 4788.0 | 5068.3 | 5166.7 |
| 37.5° | 4010.1 | 4032.6 | 4139.6 | 4278.7 | 4307.6 | 4285.1 | 4515.1 | 4609.3 | 4903.5 | 5113.2 | 5260.9 |
| 40° | 4161.0 | 4195.2 | 4333.3 | 4525.8 | 4636.0 | 4652.1 | 4774.1 | 4837.2 | 4943.1 | 5025.5 | 5242.7 |
| 42.5° | 4315.1 | 4373.9 | 4563.3 | 4788.0 | 4983.8 | 5020.2 | 4992.3 | 5019.1 | 4930.3 | 4904.6 | 5158.2 |
| 45° | 4503.4 | 4572.9 | 4786.9 | 5073.7 | 5331.5 | 5388.2 | 5206.3 | 5181.7 | 4928.1 | 4858.6 | 5105.7 |
| 47.5° | 4725.9 | 4795.5 | 4999.8 | 5333.6 | 5663.2 | 5704.9 | 5425.7 | 5380.7 | 5003.0 | 4929.2 | 5176.4 |
| 50° | 4922.8 | 4970.9 | 5153.9 | 5527.3 | 5972.4 | 5997.0 | 5667.5 | 5612.9 | 5189.2 | 5125.0 | 5396.8 |
| 52.5° | 4722.7 | 4717.4 | 4910.0 | 5370.0 | 6132.9 | 6429.3 | 6039.8 | 5987.4 | 5548.7 | 5450.3 | 5738.1 |
| 55° | 4006.9 | 3945.9 | 4118.2 | 4570.8 | 5684.6 | 6813.4 | 6707.4 | 6602.6 | 6028.0 | 5777.7 | 6058.0 |
| 57.5° | 2929.5 | 2912.4 | 2954.1 | 3378.9 | 4553.7 | 6218.5 | 7116.2 | 7106.5 | 6442.1 | 6077.3 | 6376.8 |
| 60° | 2290.7 | 2265.1 | 2153.8 | 2165.6 | 3103.9 | 4857.5 | 6175.7 | 6459.2 | 6698.9 | 6257.0 | 6599.4 |
| 62.5° | 2034.0 | 2014.7 | 1956.9 | 1797.5 | 1848.9 | 3256.9 | 4526.9 | 4786.9 | 5853.6 | 5526.2 | 5668.5 |
| 65° | 1684.1 | 1678.7 | 1726.9 | 1720.5 | 1549.3 | 1798.6 | 2555.0 | 2817.1 | 3680.6 | 3726.6 | 3680.6 |
| 67.5° | 1224.0 | 1214.4 | 1336.4 | 1577.1 | 1491.5 | 1357.8 | 1424.1 | 1515.0 | 1887.4 | 1694.8 | 1525.7 |
| 70° | 796.0 | 782.1 | 852.7 | 1139.5 | 1335.3 | 1183.4 | 1026.1 | 1011.1 | 1037.8 | 645.2 | 697.6 |
| 72.5° | 533.9 | 517.9 | 516.8 | 627.0 | 806.7 | 797.1 | 795.0 | 787.5 | 702.9 | 509.3 | 564.9 |
| 75° | 297.4 | 284.6 | 281.4 | 270.7 | 288.9 | 294.2 | 313.5 | 324.2 | 350.9 | 386.2 | 428.0 |
| 77.5° | 50.3 | 49.2 | 62.1 | 79.2 | 109.1 | 140.2 | 173.3 | 183.0 | 225.8 | 267.5 | 294.2 |
| 80° | 27.8 | 28.9 | 37.4 | 46.0 | 61.0 | 83.5 | 107.0 | 113.4 | 139.1 | 161.6 | 183.0 |
| 82.5° | 15.0 | 15.0 | 19.3 | 24.6 | 33.2 | 43.9 | 57.8 | 63.1 | 80.2 | 94.2 | 109.1 |
| 85° | 5.3 | 5.3 | 7.5 | 9.6 | 13.9 | 18.2 | 22.5 | 25.7 | 35.3 | 48.1 | 54.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 2.1 | 4.3 | 4.3 | 5.3 | 9.6 | 13.9 |
| 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° | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 | 4059.3 |
| 2.5° | 4080.7 | 4051.9 | 4091.4 | 4109.6 | 4116.1 | 4120.3 | 4092.5 | 4073.3 | 4066.8 | 4046.5 | 4034.7 |
| 5° | 4095.7 | 4076.5 | 4113.9 | 4113.9 | 4087.2 | 4059.3 | 4002.6 | 3963.1 | 3935.2 | 3902.1 | 3896.7 |
| 7.5° | 4121.4 | 4107.5 | 4127.8 | 4086.1 | 4018.7 | 3943.8 | 3845.4 | 3768.3 | 3706.3 | 3665.6 | 3666.7 |
| 10° | 4155.6 | 4138.5 | 4122.5 | 4029.4 | 3906.3 | 3768.3 | 3617.5 | 3505.1 | 3402.4 | 3355.3 | 3329.7 |
| 12.5° | 4178.1 | 4153.5 | 4086.1 | 3932.0 | 3751.2 | 3566.1 | 3353.2 | 3186.3 | 3037.6 | 2970.2 | 2964.8 |
| 15° | 4205.9 | 4161.0 | 4026.2 | 3805.8 | 3554.3 | 3301.8 | 3027.9 | 2795.8 | 2594.6 | 2489.7 | 2484.4 |
| 17.5° | 4242.3 | 4168.5 | 3954.5 | 3661.3 | 3346.8 | 2974.4 | 2629.9 | 2337.8 | 2123.8 | 2042.5 | 2056.4 |
| 20° | 4293.7 | 4177.0 | 3873.2 | 3500.8 | 3088.9 | 2602.1 | 2173.0 | 1904.5 | 1822.1 | 1816.8 | 1806.1 |
| 22.5° | 4351.4 | 4182.4 | 3783.3 | 3321.1 | 2776.5 | 2205.1 | 1795.4 | 1680.9 | 1679.8 | 1706.6 | 1713.0 |
| 25° | 4416.7 | 4186.7 | 3681.7 | 3111.4 | 2438.4 | 1809.3 | 1587.8 | 1553.6 | 1580.3 | 1630.6 | 1637.0 |
| 27.5° | 4500.2 | 4195.2 | 3558.6 | 2881.3 | 2078.9 | 1563.2 | 1473.3 | 1464.7 | 1496.8 | 1543.9 | 1541.8 |
| 30° | 4623.2 | 4226.3 | 3428.1 | 2617.1 | 1709.8 | 1446.6 | 1403.8 | 1404.8 | 1417.7 | 1440.1 | 1443.3 |
| 32.5° | 4748.4 | 4274.4 | 3300.8 | 2319.6 | 1497.9 | 1380.2 | 1361.0 | 1358.8 | 1358.8 | 1368.5 | 1370.6 |
| 35° | 4867.2 | 4329.0 | 3162.7 | 2009.3 | 1395.2 | 1341.7 | 1328.9 | 1322.4 | 1319.2 | 1317.1 | 1313.9 |
| 37.5° | 4933.5 | 4355.7 | 3027.9 | 1703.3 | 1340.6 | 1316.0 | 1303.2 | 1294.6 | 1282.9 | 1274.3 | 1272.2 |
| 40° | 4904.6 | 4324.7 | 2871.7 | 1474.4 | 1307.5 | 1291.4 | 1276.4 | 1264.7 | 1248.6 | 1241.1 | 1236.8 |
| 42.5° | 4808.3 | 4228.4 | 2701.6 | 1366.3 | 1280.7 | 1264.7 | 1246.5 | 1227.2 | 1216.5 | 1210.1 | 1209.0 |
| 45° | 4706.7 | 4111.8 | 2496.2 | 1303.2 | 1255.0 | 1235.8 | 1214.4 | 1193.0 | 1181.2 | 1178.0 | 1176.9 |
| 47.5° | 4703.5 | 4054.0 | 2277.9 | 1252.9 | 1224.0 | 1204.8 | 1178.0 | 1156.6 | 1143.8 | 1139.5 | 1135.2 |
| 50° | 4844.7 | 4112.8 | 2031.8 | 1209.0 | 1191.9 | 1171.6 | 1141.6 | 1118.1 | 1102.0 | 1096.7 | 1095.6 |
| 52.5° | 5137.8 | 4334.3 | 1811.4 | 1165.2 | 1149.1 | 1125.6 | 1101.0 | 1077.4 | 1058.2 | 1048.5 | 1047.5 |
| 55° | 5454.5 | 4615.7 | 1674.5 | 1120.2 | 1098.8 | 1078.5 | 1056.0 | 1030.4 | 1009.0 | 994.0 | 991.8 |
| 57.5° | 5782.0 | 4922.8 | 1632.7 | 1063.5 | 1047.5 | 1033.6 | 1006.8 | 979.0 | 954.4 | 940.5 | 937.3 |
| 60° | 6051.6 | 5187.1 | 1710.8 | 1003.6 | 995.0 | 976.9 | 952.2 | 925.5 | 908.4 | 897.7 | 895.5 |
| 62.5° | 5066.2 | 4223.0 | 1381.3 | 938.3 | 938.3 | 919.1 | 891.3 | 872.0 | 860.2 | 852.7 | 850.6 |
| 65° | 3215.2 | 2614.9 | 942.6 | 873.1 | 872.0 | 846.3 | 822.8 | 809.9 | 804.6 | 792.8 | 790.7 |
| 67.5° | 1400.6 | 1195.1 | 805.7 | 806.7 | 802.5 | 774.6 | 751.1 | 741.5 | 730.8 | 717.9 | 716.9 |
| 70° | 726.5 | 740.4 | 721.1 | 732.9 | 725.4 | 692.3 | 669.8 | 654.8 | 632.3 | 619.5 | 620.6 |
| 72.5° | 586.3 | 601.3 | 622.7 | 640.9 | 624.8 | 598.1 | 562.8 | 544.6 | 515.7 | 501.8 | 502.9 |
| 75° | 447.2 | 463.3 | 483.6 | 502.9 | 490.0 | 456.9 | 434.4 | 416.2 | 383.0 | 367.0 | 370.2 |
| 77.5° | 308.1 | 316.7 | 341.3 | 340.2 | 336.0 | 326.3 | 293.2 | 271.8 | 237.5 | 218.3 | 220.4 |
| 80° | 191.5 | 196.9 | 208.6 | 214.0 | 211.8 | 199.0 | 172.3 | 156.2 | 135.9 | 124.1 | 125.2 |
| 82.5° | 115.6 | 118.8 | 129.5 | 130.5 | 129.5 | 119.8 | 99.5 | 87.7 | 74.9 | 68.5 | 68.5 |
| 85° | 58.8 | 61.0 | 67.4 | 67.4 | 61.0 | 51.4 | 46.0 | 40.7 | 33.2 | 30.0 | 30.0 |
| 87.5° | 16.0 | 16.0 | 20.3 | 17.1 | 13.9 | 12.8 | 6.4 | 5.3 | 2.1 | 1.1 | 1.1 |
| 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)