

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: P640467

Luminaire Tested: GWS-SA5D-830-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-830-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23820.5 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

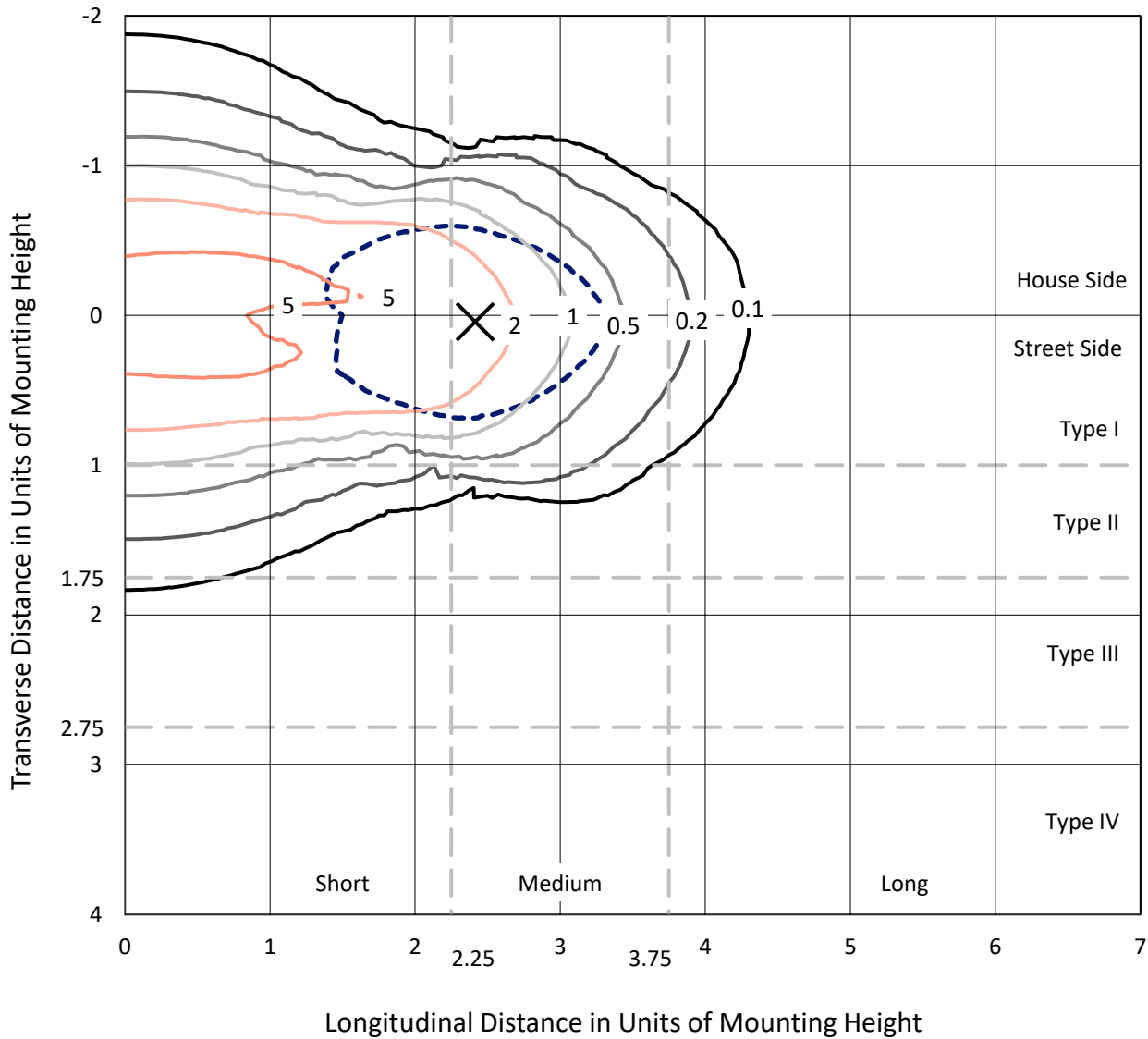
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

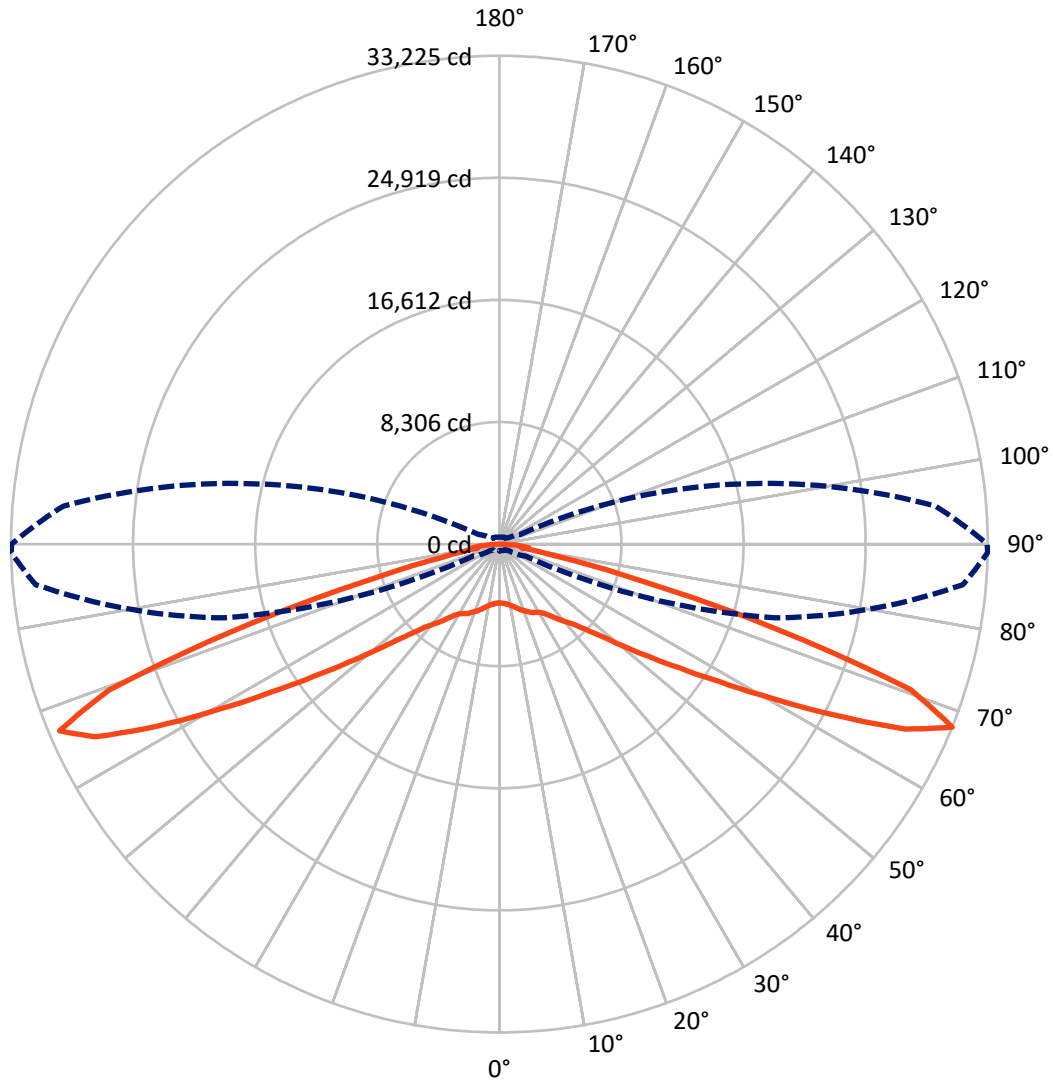
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11805.9 | 0.0 | 11805.9 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 12014.6 | 0.0 | 12014.6 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 23820.5 | 0.0 | 23820.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 401.0 | 1.7 |
| 10°-20° | 1305.8 | 5.5 |
| 20°-30° | 2207.5 | 9.3 |
| 30°-40° | 3029.5 | 12.7 |
| 40°-50° | 3863.2 | 16.2 |
| 50°-60° | 4847.0 | 20.3 |
| 60°-70° | 5845.9 | 24.5 |
| 70°-80° | 2114.9 | 8.9 |
| 80°-90° | 205.7 | 0.9 |
| 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° | 23820.5 | 100.0 |
| 0°-180° | 23820.5 | 100.0 |

Coefficient of Utilization



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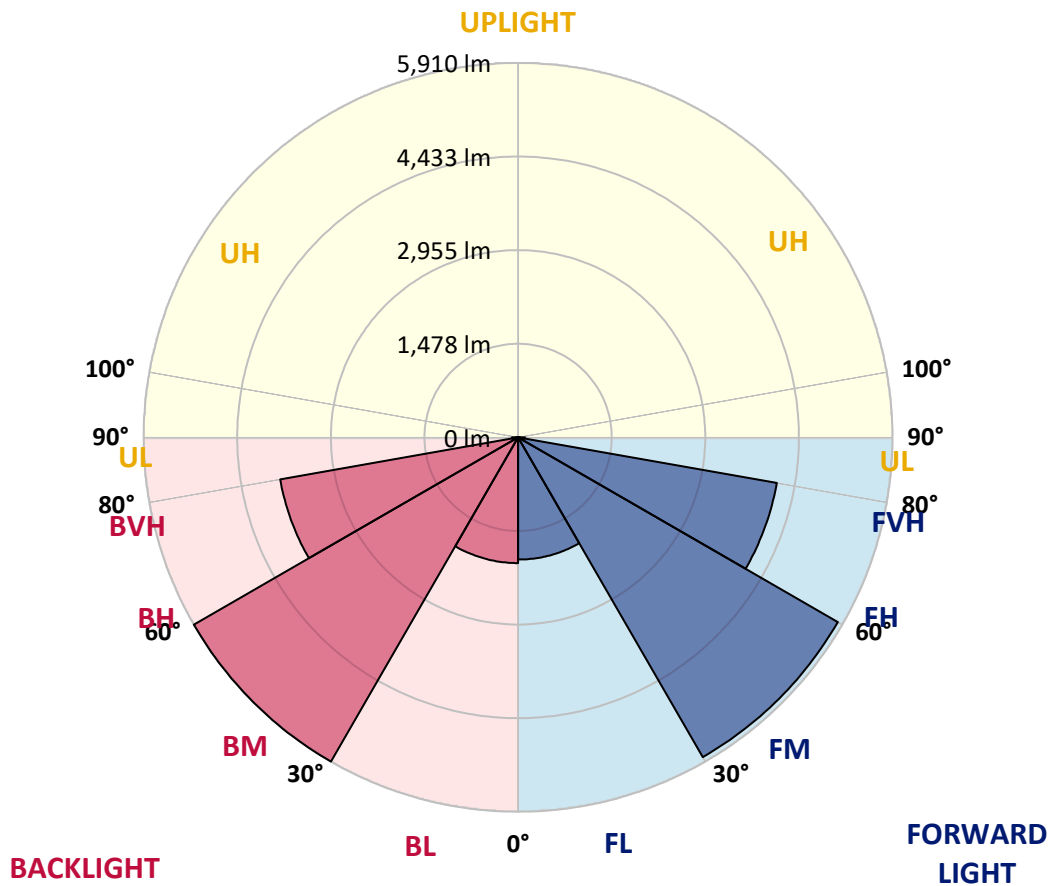
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1929.3 | 8.1 | | | |
| FM (30°-60°) | 5829.3 | 24.5 | | | |
| FH (60°-80°) | 4147.5 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 108.5 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1985.1 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 5910.4 | 24.8 | B4/8500 | | |
| BH (60°-80°) | 3813.3 | 16.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 97.1 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type I Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 89° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 |
| 2.5° | 4010.1 | 4006.6 | 3998.1 | 4023.7 | 4018.6 | 4020.3 | 4030.6 | 4023.7 | 4011.8 | 3991.2 | 4020.3 |
| 5° | 4123.0 | 4121.3 | 4102.4 | 4117.8 | 4100.7 | 4088.8 | 4087.0 | 4069.9 | 4056.2 | 4034.0 | 4064.8 |
| 7.5° | 4232.5 | 4230.7 | 4215.3 | 4242.7 | 4229.0 | 4215.3 | 4200.0 | 4165.7 | 4133.2 | 4100.7 | 4134.9 |
| 10° | 4316.3 | 4314.6 | 4311.2 | 4350.5 | 4353.9 | 4359.1 | 4352.2 | 4294.0 | 4237.6 | 4198.2 | 4232.5 |
| 12.5° | 4364.2 | 4369.3 | 4377.9 | 4449.7 | 4485.6 | 4519.9 | 4528.4 | 4480.5 | 4386.4 | 4330.0 | 4371.0 |
| 15° | 4331.7 | 4341.9 | 4384.7 | 4514.7 | 4614.0 | 4690.9 | 4723.4 | 4684.1 | 4562.6 | 4468.5 | 4514.7 |
| 17.5° | 4176.0 | 4184.6 | 4268.4 | 4466.8 | 4685.8 | 4863.7 | 4916.8 | 4892.8 | 4757.7 | 4643.0 | 4687.5 |
| 20° | 3960.4 | 3979.3 | 4069.9 | 4347.1 | 4673.8 | 4983.5 | 5125.5 | 5116.9 | 4969.8 | 4793.6 | 4846.6 |
| 22.5° | 3765.4 | 3787.7 | 3883.5 | 4189.7 | 4593.4 | 5014.3 | 5335.9 | 5358.1 | 5163.1 | 4944.1 | 4986.9 |
| 25° | 3546.4 | 3567.0 | 3690.1 | 4003.2 | 4454.9 | 4990.3 | 5515.5 | 5616.5 | 5382.1 | 5116.9 | 5156.3 |
| 27.5° | 3322.3 | 3337.7 | 3459.2 | 3792.8 | 4273.5 | 4945.8 | 5657.5 | 5900.5 | 5597.7 | 5236.7 | 5264.1 |
| 30° | 3125.6 | 3146.1 | 3257.3 | 3582.4 | 4075.1 | 4856.9 | 5773.9 | 6203.3 | 5845.7 | 5371.8 | 5394.1 |
| 32.5° | 2935.7 | 2952.8 | 3074.3 | 3375.4 | 3864.6 | 4720.0 | 5878.2 | 6559.1 | 6213.5 | 5623.3 | 5623.3 |
| 35° | 2696.2 | 2727.0 | 2863.8 | 3176.9 | 3666.2 | 4538.7 | 5953.5 | 6973.1 | 6716.5 | 5994.6 | 5996.3 |
| 37.5° | 2475.5 | 2492.6 | 2636.3 | 2952.8 | 3457.5 | 4333.4 | 5960.3 | 7402.5 | 7352.9 | 6466.7 | 6470.1 |
| 40° | 2224.0 | 2246.2 | 2400.2 | 2713.3 | 3218.0 | 4117.8 | 5895.3 | 7802.8 | 8020.1 | 6952.6 | 6933.8 |
| 42.5° | 1969.1 | 2001.6 | 2148.7 | 2455.0 | 2959.6 | 3854.4 | 5722.5 | 8184.3 | 8866.9 | 7515.4 | 7469.2 |
| 45° | 1722.7 | 1743.3 | 1890.4 | 2179.5 | 2663.7 | 3539.6 | 5445.4 | 8550.4 | 9872.9 | 8370.8 | 8304.1 |
| 47.5° | 1445.6 | 1454.2 | 1606.4 | 1883.6 | 2357.4 | 3188.9 | 5048.5 | 8877.2 | 10978.0 | 9503.4 | 9388.7 |
| 50° | 1199.3 | 1211.2 | 1331.0 | 1568.8 | 1982.8 | 2773.2 | 4554.1 | 9068.8 | 12386.0 | 11048.2 | 10849.7 |
| 52.5° | 970.0 | 982.0 | 1077.8 | 1267.7 | 1638.9 | 2299.3 | 3941.6 | 9024.3 | 13814.5 | 12966.0 | 12676.8 |
| 55° | 783.5 | 792.1 | 857.1 | 1005.9 | 1289.9 | 1828.8 | 3218.0 | 8625.7 | 15400.4 | 15470.5 | 14847.8 |
| 57.5° | 662.1 | 665.5 | 710.0 | 800.6 | 1007.6 | 1409.7 | 2484.0 | 7684.8 | 17063.3 | 18666.3 | 17643.2 |
| 60° | 591.9 | 593.6 | 614.2 | 670.6 | 795.5 | 1076.1 | 1820.3 | 6186.2 | 18786.0 | 22664.3 | 21261.5 |
| 62.5° | 547.4 | 547.4 | 564.6 | 597.1 | 660.4 | 828.0 | 1337.8 | 4442.9 | 20022.9 | 27014.8 | 25620.6 |
| 65° | 504.7 | 504.7 | 516.7 | 544.0 | 578.2 | 675.8 | 1004.2 | 2865.5 | 20630.2 | 30651.9 | 30342.3 |
| 67.5° | 449.9 | 451.6 | 460.2 | 489.3 | 520.1 | 564.6 | 761.3 | 1938.3 | 19369.4 | 31657.9 | 33224.9 |
| 70° | 398.6 | 400.3 | 412.3 | 431.1 | 456.8 | 487.6 | 595.3 | 1336.1 | 14098.5 | 26366.5 | 29707.6 |
| 72.5° | 342.2 | 349.0 | 357.6 | 378.1 | 393.5 | 415.7 | 485.9 | 865.7 | 8203.2 | 16960.6 | 19638.0 |
| 75° | 280.6 | 289.1 | 299.4 | 319.9 | 330.2 | 338.7 | 400.3 | 617.6 | 3946.8 | 8594.9 | 9787.3 |
| 77.5° | 217.3 | 225.8 | 237.8 | 256.6 | 263.5 | 273.7 | 306.2 | 446.5 | 1890.4 | 3809.9 | 4107.6 |
| 80° | 145.4 | 148.8 | 159.1 | 181.3 | 193.3 | 200.2 | 225.8 | 304.5 | 821.2 | 1529.4 | 1515.7 |
| 82.5° | 89.0 | 90.7 | 94.1 | 107.8 | 112.9 | 119.8 | 147.1 | 186.5 | 391.8 | 1738.1 | 1993.1 |
| 85° | 32.5 | 30.8 | 29.1 | 37.6 | 44.5 | 51.3 | 68.4 | 94.1 | 171.1 | 1194.1 | 1336.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.7 | 3.4 | 3.4 | 6.8 | 13.7 | 41.1 | 446.5 | 306.2 |
| 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° | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 | 3998.1 |
| 2.5° | 4011.8 | 3992.9 | 4016.9 | 4034.0 | 4071.6 | 4085.3 | 4088.8 | 4076.8 | 4076.8 | 4056.2 | 4059.7 |
| 5° | 4058.0 | 4046.0 | 4085.3 | 4114.4 | 4169.2 | 4189.7 | 4203.4 | 4194.8 | 4200.0 | 4186.3 | 4189.7 |
| 7.5° | 4128.1 | 4117.8 | 4186.3 | 4242.7 | 4299.2 | 4323.1 | 4335.1 | 4328.3 | 4330.0 | 4312.9 | 4318.0 |
| 10° | 4225.6 | 4229.0 | 4311.2 | 4384.7 | 4460.0 | 4483.9 | 4489.1 | 4468.5 | 4451.4 | 4420.6 | 4422.4 |
| 12.5° | 4359.1 | 4376.2 | 4492.5 | 4574.6 | 4651.6 | 4685.8 | 4648.2 | 4572.9 | 4502.8 | 4449.7 | 4442.9 |
| 15° | 4504.5 | 4535.3 | 4702.9 | 4807.3 | 4891.1 | 4874.0 | 4762.8 | 4593.4 | 4454.9 | 4376.2 | 4360.8 |
| 17.5° | 4679.0 | 4725.2 | 4935.6 | 5060.5 | 5132.3 | 5022.8 | 4790.2 | 4537.0 | 4343.7 | 4237.6 | 4217.1 |
| 20° | 4843.2 | 4916.8 | 5181.9 | 5344.5 | 5353.0 | 5106.7 | 4778.2 | 4422.4 | 4179.4 | 4049.4 | 4022.0 |
| 22.5° | 4993.7 | 5087.8 | 5440.3 | 5647.3 | 5536.1 | 5144.3 | 4704.6 | 4259.8 | 3981.0 | 3828.7 | 3804.8 |
| 25° | 5158.0 | 5291.4 | 5741.4 | 5934.7 | 5719.1 | 5128.9 | 4550.7 | 4058.0 | 3741.5 | 3585.8 | 3568.7 |
| 27.5° | 5270.9 | 5438.6 | 6044.2 | 6228.9 | 5869.7 | 5041.7 | 4352.2 | 3837.3 | 3522.5 | 3375.4 | 3351.4 |
| 30° | 5400.9 | 5614.8 | 6377.8 | 6548.8 | 5962.0 | 4913.3 | 4140.1 | 3632.0 | 3318.9 | 3159.8 | 3142.7 |
| 32.5° | 5637.0 | 5905.6 | 6791.8 | 6887.6 | 5991.1 | 4754.2 | 3936.5 | 3433.5 | 3106.8 | 2947.7 | 2923.7 |
| 35° | 6016.8 | 6331.6 | 7373.4 | 7265.7 | 5968.9 | 4579.7 | 3743.2 | 3200.9 | 2889.5 | 2740.7 | 2716.7 |
| 37.5° | 6495.8 | 6887.6 | 8021.8 | 7606.1 | 5907.3 | 4388.1 | 3513.9 | 3005.8 | 2694.5 | 2543.9 | 2530.2 |
| 40° | 6942.3 | 7424.8 | 8748.9 | 7900.4 | 5782.4 | 4152.0 | 3293.2 | 2802.2 | 2484.0 | 2324.9 | 2294.1 |
| 42.5° | 7501.7 | 8143.3 | 9590.6 | 8155.3 | 5577.1 | 3869.8 | 3045.2 | 2550.8 | 2220.6 | 2076.9 | 2039.2 |
| 45° | 8352.0 | 9149.2 | 10569.2 | 8399.9 | 5270.9 | 3522.5 | 2733.8 | 2244.5 | 1931.5 | 1784.3 | 1755.3 |
| 47.5° | 9412.7 | 10406.6 | 11629.8 | 8545.3 | 4805.6 | 3156.4 | 2381.4 | 1921.2 | 1608.1 | 1442.2 | 1428.5 |
| 50° | 10902.8 | 12235.5 | 12767.5 | 8519.7 | 4285.5 | 2721.8 | 1984.5 | 1536.3 | 1274.5 | 1154.8 | 1136.0 |
| 52.5° | 12717.9 | 14531.3 | 13997.6 | 8211.7 | 3732.9 | 2227.4 | 1546.5 | 1206.1 | 1011.1 | 925.5 | 910.1 |
| 55° | 14994.9 | 17280.5 | 15292.6 | 7551.4 | 3034.9 | 1705.6 | 1214.6 | 951.2 | 817.8 | 766.4 | 759.6 |
| 57.5° | 17814.3 | 20840.6 | 16539.8 | 6439.4 | 2282.2 | 1301.9 | 935.8 | 785.2 | 721.9 | 691.2 | 689.4 |
| 60° | 21535.2 | 24619.7 | 17622.7 | 5004.0 | 1633.8 | 995.7 | 773.3 | 701.4 | 651.8 | 631.3 | 629.6 |
| 62.5° | 25959.3 | 28051.6 | 18296.7 | 3407.9 | 1228.3 | 793.8 | 680.9 | 636.4 | 607.3 | 595.3 | 593.6 |
| 65° | 30506.5 | 30220.8 | 17975.1 | 2232.6 | 932.4 | 674.0 | 610.7 | 586.8 | 561.1 | 549.2 | 549.2 |
| 67.5° | 33192.4 | 29762.3 | 15506.5 | 1550.0 | 739.1 | 591.9 | 550.9 | 528.6 | 485.9 | 475.6 | 475.6 |
| 70° | 29399.7 | 24116.8 | 10163.7 | 1134.2 | 598.8 | 518.4 | 479.0 | 448.2 | 431.1 | 420.9 | 419.1 |
| 72.5° | 19444.7 | 15692.9 | 5404.3 | 787.0 | 499.5 | 441.4 | 405.5 | 393.5 | 372.9 | 362.7 | 361.0 |
| 75° | 9677.8 | 8242.5 | 2769.7 | 568.0 | 415.7 | 354.1 | 338.7 | 333.6 | 316.5 | 302.8 | 299.4 |
| 77.5° | 4034.0 | 3669.6 | 1291.6 | 412.3 | 316.5 | 285.7 | 272.0 | 272.0 | 253.2 | 237.8 | 231.0 |
| 80° | 1520.9 | 1354.9 | 610.7 | 282.3 | 234.4 | 212.1 | 203.6 | 196.7 | 181.3 | 162.5 | 152.3 |
| 82.5° | 2034.1 | 1329.3 | 299.4 | 176.2 | 154.0 | 136.9 | 124.9 | 119.8 | 111.2 | 102.6 | 95.8 |
| 85° | 1317.3 | 944.3 | 135.2 | 90.7 | 77.0 | 58.2 | 51.3 | 47.9 | 42.8 | 37.6 | 34.2 |
| 87.5° | 268.6 | 316.5 | 41.1 | 17.1 | 10.3 | 5.1 | 5.1 | 1.7 | 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)