

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: P640137

Luminaire Tested: GWS-SA5D-730-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640137
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-730-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27305.7 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

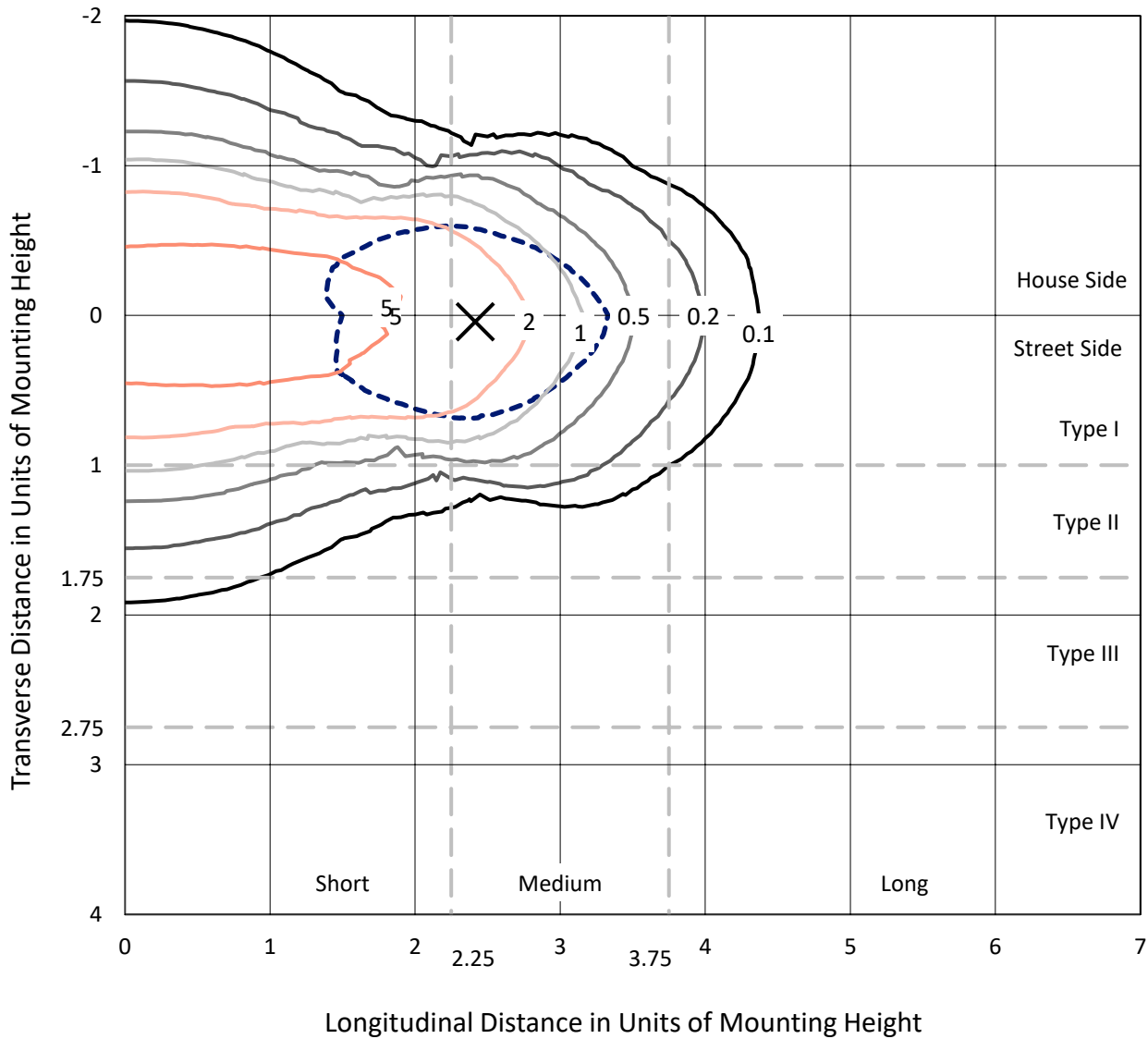
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

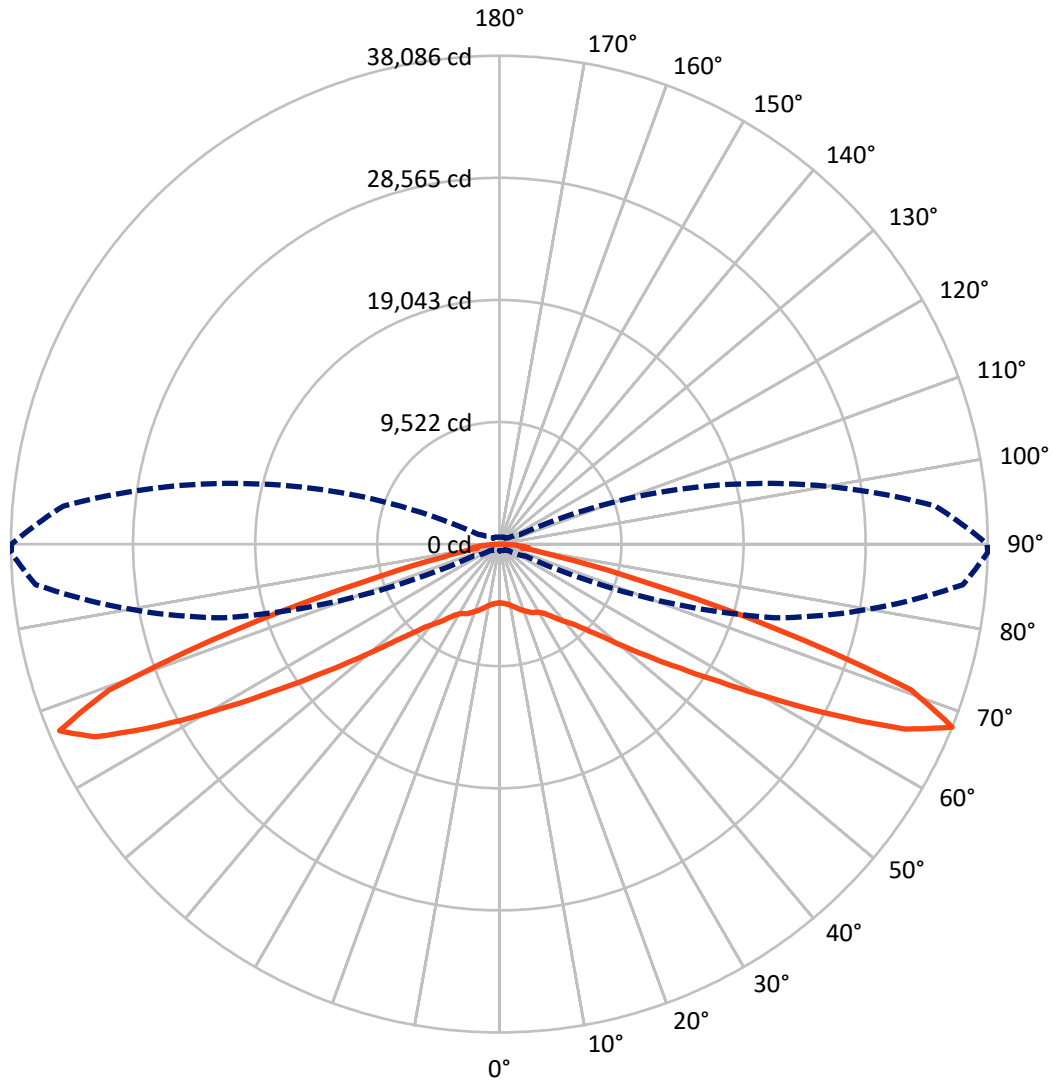
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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 | 13533.2 | 0.0 | 13533.2 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 13772.5 | 0.0 | 13772.5 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 27305.7 | 0.0 | 27305.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 459.7 | 1.7 |
| 10°-20° | 1496.9 | 5.5 |
| 20°-30° | 2530.4 | 9.3 |
| 30°-40° | 3472.7 | 12.7 |
| 40°-50° | 4428.5 | 16.2 |
| 50°-60° | 5556.2 | 20.3 |
| 60°-70° | 6701.2 | 24.5 |
| 70°-80° | 2424.3 | 8.9 |
| 80°-90° | 235.8 | 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° | 27305.7 | 100.0 |
| 0°-180° | 27305.7 | 100.0 |

Coefficient of Utilization



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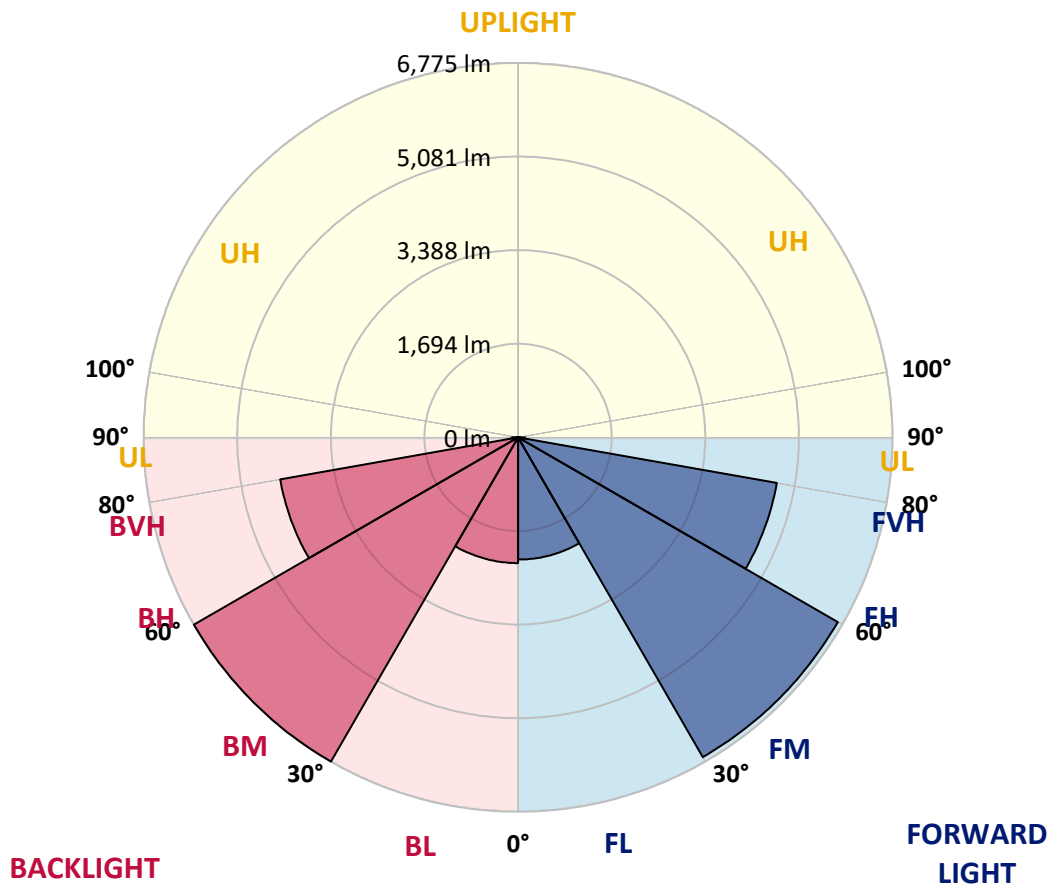
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2211.6 | 8.1 | | | |
| FM (30°-60°) | 6682.2 | 24.5 | | | |
| FH (60°-80°) | 4754.3 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 124.4 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2275.5 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 6775.1 | 24.8 | B4/8500 | | |
| BH (60°-80°) | 4371.2 | 16.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 111.4 | 0.4 | | | G2/225 |
| 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° | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 |
| 2.5° | 4596.8 | 4592.8 | 4583.0 | 4612.5 | 4606.6 | 4608.5 | 4620.3 | 4612.5 | 4598.7 | 4575.2 | 4608.5 |
| 5° | 4726.2 | 4724.2 | 4702.7 | 4720.3 | 4700.7 | 4687.0 | 4685.0 | 4665.4 | 4649.7 | 4624.2 | 4659.5 |
| 7.5° | 4851.7 | 4849.7 | 4832.1 | 4863.5 | 4847.8 | 4832.1 | 4814.4 | 4775.2 | 4738.0 | 4700.7 | 4739.9 |
| 10° | 4947.8 | 4945.8 | 4941.9 | 4987.0 | 4990.9 | 4996.8 | 4989.0 | 4922.3 | 4857.6 | 4812.5 | 4851.7 |
| 12.5° | 5002.7 | 5008.6 | 5018.4 | 5100.8 | 5141.9 | 5181.2 | 5191.0 | 5136.1 | 5028.2 | 4963.5 | 5010.6 |
| 15° | 4965.5 | 4977.2 | 5026.2 | 5175.3 | 5289.0 | 5377.3 | 5414.5 | 5369.4 | 5230.2 | 5122.3 | 5175.3 |
| 17.5° | 4787.0 | 4796.8 | 4892.9 | 5120.4 | 5371.4 | 5575.3 | 5636.1 | 5608.7 | 5453.8 | 5322.4 | 5373.4 |
| 20° | 4539.9 | 4561.5 | 4665.4 | 4983.1 | 5357.7 | 5712.6 | 5875.4 | 5865.6 | 5696.9 | 5494.9 | 5555.7 |
| 22.5° | 4316.3 | 4341.8 | 4451.6 | 4802.7 | 5265.5 | 5747.9 | 6116.6 | 6142.1 | 5918.5 | 5667.5 | 5716.5 |
| 25° | 4065.3 | 4088.8 | 4230.0 | 4588.9 | 5106.6 | 5720.5 | 6322.5 | 6438.2 | 6169.6 | 5865.6 | 5910.7 |
| 27.5° | 3808.4 | 3826.1 | 3965.3 | 4347.7 | 4898.8 | 5669.5 | 6485.3 | 6763.8 | 6416.7 | 6002.9 | 6034.2 |
| 30° | 3582.9 | 3606.4 | 3733.9 | 4106.5 | 4671.3 | 5567.5 | 6618.6 | 7110.9 | 6701.0 | 6157.8 | 6183.3 |
| 32.5° | 3365.2 | 3384.8 | 3524.1 | 3869.2 | 4430.1 | 5410.6 | 6738.3 | 7518.8 | 7122.6 | 6446.1 | 6446.1 |
| 35° | 3090.7 | 3126.0 | 3282.8 | 3641.7 | 4202.6 | 5202.7 | 6824.6 | 7993.4 | 7699.2 | 6871.6 | 6873.6 |
| 37.5° | 2837.7 | 2857.3 | 3022.0 | 3384.8 | 3963.3 | 4967.4 | 6832.4 | 8485.6 | 8428.7 | 7412.9 | 7416.8 |
| 40° | 2549.4 | 2574.9 | 2751.4 | 3110.3 | 3688.8 | 4720.3 | 6757.9 | 8944.5 | 9193.5 | 7969.8 | 7948.3 |
| 42.5° | 2257.2 | 2294.5 | 2463.1 | 2814.1 | 3392.7 | 4418.3 | 6559.8 | 9381.8 | 10164.3 | 8615.0 | 8562.1 |
| 45° | 1974.8 | 1998.3 | 2167.0 | 2498.4 | 3053.4 | 4057.5 | 6242.1 | 9801.5 | 11317.4 | 9595.6 | 9519.1 |
| 47.5° | 1657.1 | 1666.9 | 1841.5 | 2159.1 | 2702.4 | 3655.5 | 5787.1 | 10176.0 | 12584.2 | 10893.8 | 10762.4 |
| 50° | 1374.7 | 1388.4 | 1525.7 | 1798.3 | 2272.9 | 3178.9 | 5220.4 | 10395.7 | 14198.2 | 12664.6 | 12437.2 |
| 52.5° | 1111.9 | 1125.7 | 1235.5 | 1453.2 | 1878.7 | 2635.7 | 4518.3 | 10344.7 | 15835.7 | 14863.0 | 14531.6 |
| 55° | 898.2 | 908.0 | 982.5 | 1153.1 | 1478.7 | 2096.4 | 3688.8 | 9887.8 | 17653.6 | 17734.0 | 17020.2 |
| 57.5° | 758.9 | 762.9 | 813.8 | 917.8 | 1155.1 | 1615.9 | 2847.5 | 8809.2 | 19559.8 | 21397.3 | 20224.6 |
| 60° | 678.5 | 680.5 | 704.0 | 768.7 | 911.9 | 1233.5 | 2086.6 | 7091.3 | 21534.6 | 25980.4 | 24372.3 |
| 62.5° | 627.5 | 627.5 | 647.2 | 684.4 | 757.0 | 949.2 | 1533.6 | 5092.9 | 22952.5 | 30967.4 | 29369.1 |
| 65° | 578.5 | 578.5 | 592.2 | 623.6 | 662.8 | 774.6 | 1151.2 | 3284.8 | 23648.7 | 35136.7 | 34781.7 |
| 67.5° | 515.8 | 517.7 | 527.5 | 560.9 | 596.2 | 647.2 | 872.7 | 2221.9 | 22203.3 | 36289.8 | 38086.1 |
| 70° | 456.9 | 458.9 | 472.6 | 494.2 | 523.6 | 558.9 | 682.5 | 1531.6 | 16161.3 | 30224.2 | 34054.1 |
| 72.5° | 392.2 | 400.1 | 409.9 | 433.4 | 451.0 | 476.5 | 556.9 | 992.3 | 9403.4 | 19442.1 | 22511.2 |
| 75° | 321.6 | 331.4 | 343.2 | 366.7 | 378.5 | 388.3 | 458.9 | 707.9 | 4524.2 | 9852.5 | 11219.3 |
| 77.5° | 249.1 | 258.9 | 272.6 | 294.2 | 302.0 | 313.8 | 351.0 | 511.8 | 2167.0 | 4367.3 | 4708.6 |
| 80° | 166.7 | 170.6 | 182.4 | 207.9 | 221.6 | 229.4 | 258.9 | 349.1 | 941.3 | 1753.2 | 1737.5 |
| 82.5° | 102.0 | 103.9 | 107.9 | 123.5 | 129.4 | 137.3 | 168.7 | 213.8 | 449.1 | 1992.5 | 2284.7 |
| 85° | 37.3 | 35.3 | 33.3 | 43.1 | 51.0 | 58.8 | 78.4 | 107.9 | 196.1 | 1368.8 | 1531.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.0 | 3.9 | 3.9 | 7.8 | 15.7 | 47.1 | 511.8 | 351.0 |
| 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° | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 | 4583.0 |
| 2.5° | 4598.7 | 4577.2 | 4604.6 | 4624.2 | 4667.4 | 4683.1 | 4687.0 | 4673.3 | 4673.3 | 4649.7 | 4653.6 |
| 5° | 4651.7 | 4638.0 | 4683.1 | 4716.4 | 4779.1 | 4802.7 | 4818.4 | 4808.6 | 4814.4 | 4798.8 | 4802.7 |
| 7.5° | 4732.1 | 4720.3 | 4798.8 | 4863.5 | 4928.2 | 4955.6 | 4969.4 | 4961.5 | 4963.5 | 4943.9 | 4949.8 |
| 10° | 4843.9 | 4847.8 | 4941.9 | 5026.2 | 5112.5 | 5140.0 | 5145.9 | 5122.3 | 5102.7 | 5067.4 | 5069.4 |
| 12.5° | 4996.8 | 5016.4 | 5149.8 | 5243.9 | 5332.2 | 5371.4 | 5328.3 | 5242.0 | 5161.6 | 5100.8 | 5092.9 |
| 15° | 5163.5 | 5198.8 | 5391.0 | 5510.6 | 5606.7 | 5587.1 | 5459.6 | 5265.5 | 5106.6 | 5016.4 | 4998.8 |
| 17.5° | 5363.6 | 5416.5 | 5657.7 | 5800.9 | 5883.2 | 5757.7 | 5491.0 | 5200.8 | 4979.2 | 4857.6 | 4834.1 |
| 20° | 5551.8 | 5636.1 | 5940.1 | 6126.4 | 6136.2 | 5853.8 | 5477.3 | 5069.4 | 4790.9 | 4641.9 | 4610.5 |
| 22.5° | 5724.4 | 5832.2 | 6236.2 | 6473.5 | 6346.1 | 5897.0 | 5393.0 | 4883.1 | 4563.4 | 4388.9 | 4361.4 |
| 25° | 5912.7 | 6065.6 | 6581.4 | 6803.0 | 6555.9 | 5879.3 | 5216.5 | 4651.7 | 4288.9 | 4110.4 | 4090.8 |
| 27.5° | 6042.1 | 6234.3 | 6928.5 | 7140.3 | 6728.5 | 5779.3 | 4989.0 | 4398.7 | 4037.9 | 3869.2 | 3841.8 |
| 30° | 6191.1 | 6436.3 | 7310.9 | 7507.0 | 6834.4 | 5632.2 | 4745.8 | 4163.4 | 3804.5 | 3622.1 | 3602.5 |
| 32.5° | 6461.8 | 6769.6 | 7785.5 | 7895.3 | 6867.7 | 5449.8 | 4512.4 | 3935.9 | 3561.3 | 3378.9 | 3351.5 |
| 35° | 6897.1 | 7258.0 | 8452.3 | 8328.7 | 6842.2 | 5249.8 | 4290.8 | 3669.2 | 3312.3 | 3141.6 | 3114.2 |
| 37.5° | 7446.2 | 7895.3 | 9195.5 | 8719.0 | 6771.6 | 5030.2 | 4028.1 | 3445.6 | 3088.7 | 2916.1 | 2900.4 |
| 40° | 7958.1 | 8511.1 | 10029.0 | 9056.3 | 6628.4 | 4759.5 | 3775.1 | 3212.2 | 2847.5 | 2665.1 | 2629.8 |
| 42.5° | 8599.3 | 9334.7 | 10993.8 | 9348.5 | 6393.1 | 4436.0 | 3490.7 | 2924.0 | 2545.5 | 2380.7 | 2337.6 |
| 45° | 9574.0 | 10487.9 | 12115.5 | 9628.9 | 6042.1 | 4037.9 | 3133.8 | 2572.9 | 2214.1 | 2045.4 | 2012.1 |
| 47.5° | 10789.9 | 11929.2 | 13331.4 | 9795.6 | 5508.7 | 3618.2 | 2729.8 | 2202.3 | 1843.4 | 1653.2 | 1637.5 |
| 50° | 12498.0 | 14025.6 | 14635.5 | 9766.2 | 4912.5 | 3120.1 | 2274.9 | 1761.0 | 1461.0 | 1323.7 | 1302.2 |
| 52.5° | 14578.7 | 16657.4 | 16045.5 | 9413.2 | 4279.1 | 2553.3 | 1772.8 | 1382.6 | 1159.0 | 1060.9 | 1043.3 |
| 55° | 17188.9 | 19808.9 | 17530.1 | 8656.2 | 3479.0 | 1955.2 | 1392.4 | 1090.4 | 937.4 | 878.6 | 870.7 |
| 57.5° | 20420.7 | 23889.9 | 18959.7 | 7381.5 | 2616.1 | 1492.4 | 1072.7 | 900.1 | 827.6 | 792.3 | 790.3 |
| 60° | 24686.1 | 28221.9 | 20201.1 | 5736.2 | 1872.8 | 1141.3 | 886.4 | 804.0 | 747.2 | 723.6 | 721.7 |
| 62.5° | 29757.4 | 32155.8 | 20973.7 | 3906.5 | 1408.1 | 909.9 | 780.5 | 729.5 | 696.2 | 682.5 | 680.5 |
| 65° | 34970.0 | 34642.5 | 20605.1 | 2559.2 | 1068.8 | 772.7 | 700.1 | 672.7 | 643.2 | 629.5 | 629.5 |
| 67.5° | 38048.9 | 34116.9 | 17775.2 | 1776.7 | 847.2 | 678.5 | 631.5 | 606.0 | 556.9 | 545.2 | 545.2 |
| 70° | 33701.1 | 27645.3 | 11650.8 | 1300.2 | 686.4 | 594.2 | 549.1 | 513.8 | 494.2 | 482.4 | 480.5 |
| 72.5° | 22289.6 | 17989.0 | 6195.0 | 902.1 | 572.6 | 506.0 | 464.8 | 451.0 | 427.5 | 415.7 | 413.8 |
| 75° | 11093.8 | 9448.5 | 3175.0 | 651.1 | 476.5 | 405.9 | 388.3 | 382.4 | 362.8 | 347.1 | 343.2 |
| 77.5° | 4624.2 | 4206.5 | 1480.6 | 472.6 | 362.8 | 327.5 | 311.8 | 311.8 | 290.2 | 272.6 | 264.7 |
| 80° | 1743.4 | 1553.2 | 700.1 | 323.6 | 268.7 | 243.2 | 233.4 | 225.5 | 207.9 | 186.3 | 174.5 |
| 82.5° | 2331.7 | 1523.8 | 343.2 | 202.0 | 176.5 | 156.9 | 143.2 | 137.3 | 127.5 | 117.7 | 109.8 |
| 85° | 1510.0 | 1082.5 | 154.9 | 103.9 | 88.2 | 66.7 | 58.8 | 54.9 | 49.0 | 43.1 | 39.2 |
| 87.5° | 307.9 | 362.8 | 47.1 | 19.6 | 11.8 | 5.9 | 5.9 | 2.0 | 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)