

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: P640182

Luminaire Tested: GWS-SA5D-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23345.2 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

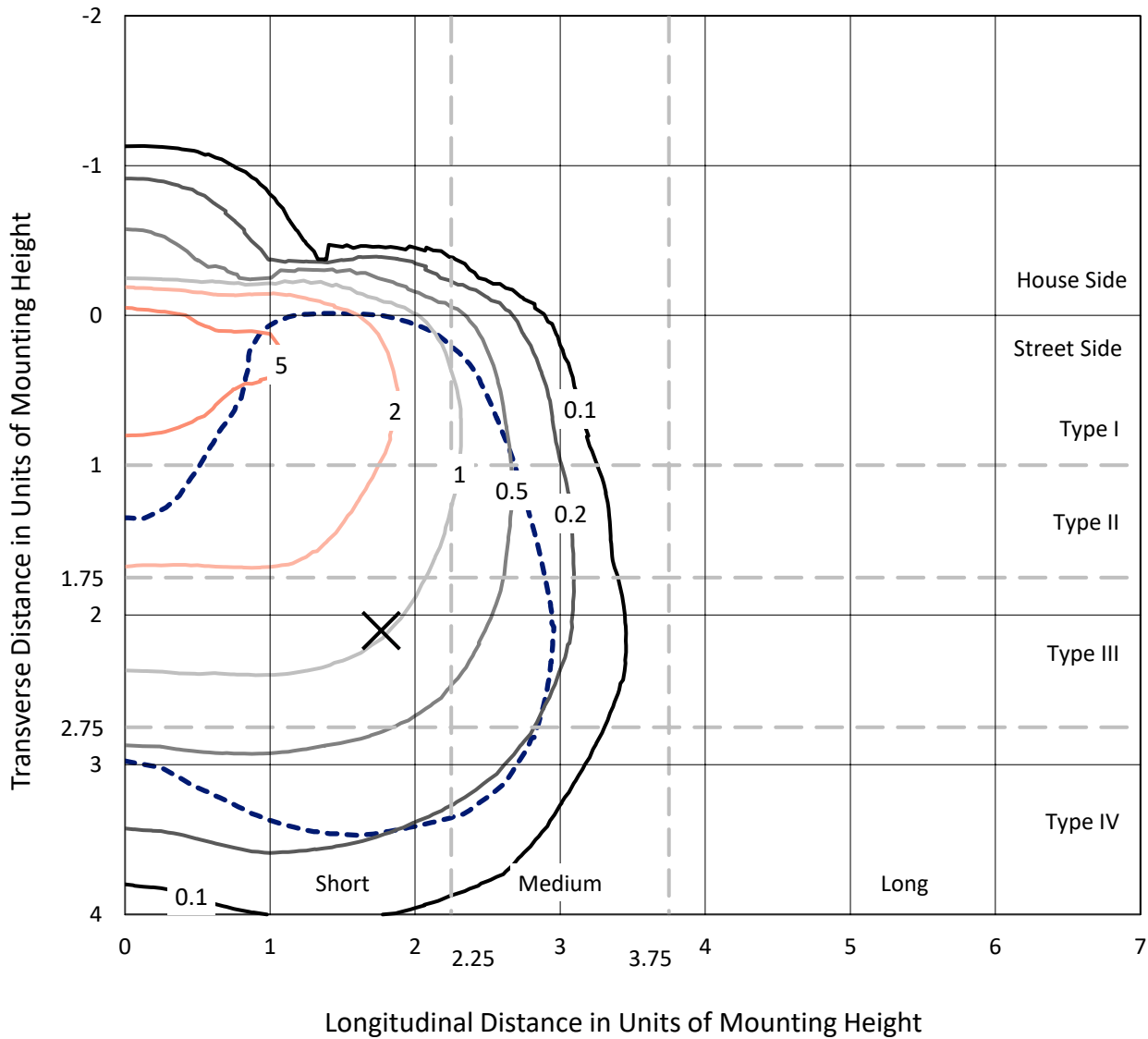
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

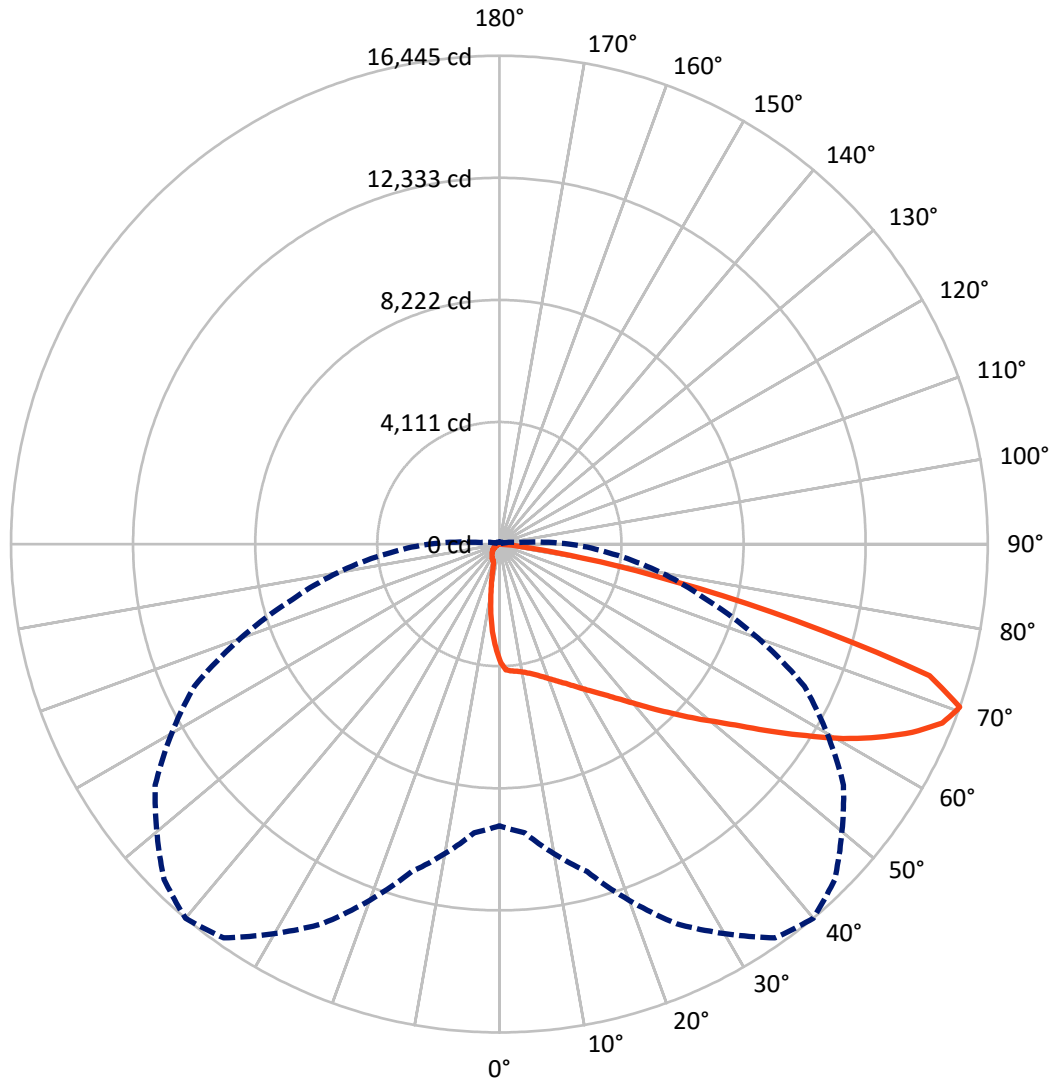
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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 | 1909.0 | 0.0 | 1909.0 |
| | % Fixture | 8.2 | 0.0 | 8.2 |
| Street Side | Lumens | 21436.2 | 0.0 | 21436.2 |
| | % Fixture | 91.8 | 0.0 | 91.8 |
| Total | Lumens | 23345.2 | 0.0 | 23345.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 334.8 | 1.4 |
| 10°-20° | 849.2 | 3.6 |
| 20°-30° | 1421.2 | 6.1 |
| 30°-40° | 2232.2 | 9.6 |
| 40°-50° | 3530.9 | 15.1 |
| 50°-60° | 5150.6 | 22.1 |
| 60°-70° | 6384.9 | 27.4 |
| 70°-80° | 3230.4 | 13.8 |
| 80°-90° | 210.9 | 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° | 23345.2 | 100.0 |
| 0°-180° | 23345.2 | 100.0 |

Coefficient of Utilization



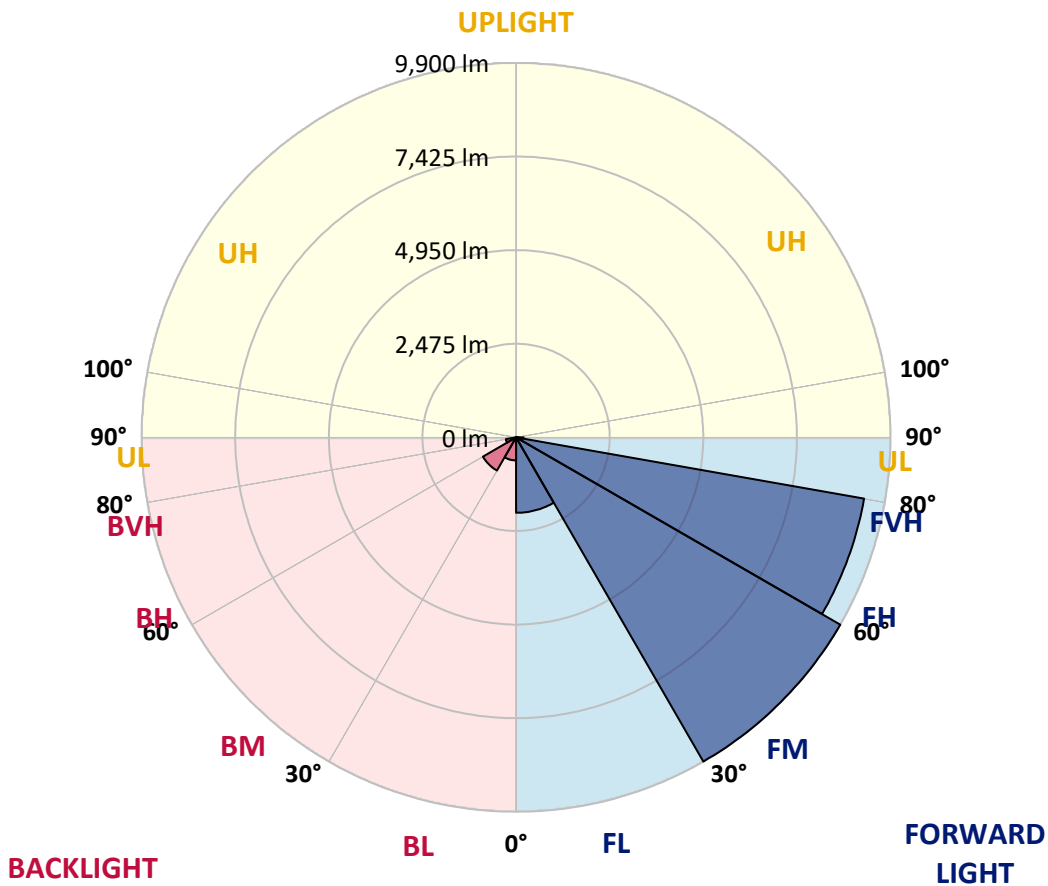
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1995.6 | 8.5 | | | |
| FM (30°-60°) | 9900.4 | 42.4 | | | |
| FH (60°-80°) | 9343.2 | 40.0 | | | G4/12000 |
| FVH (80°-90°) | 197.0 | 0.8 | | | G2/225 |
| BL (0°-30°) | 609.6 | 2.6 | B2/1000 | | |
| BM (30°-60°) | 1013.3 | 4.3 | B2/2500 | | |
| BH (60°-80°) | 272.2 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 |
| 2.5° | 4258.8 | 4273.6 | 4271.5 | 4277.9 | 4263.0 | 4239.7 | 4235.4 | 4203.5 | 4146.2 | 4074.0 | 3993.3 |
| 5° | 4345.9 | 4362.9 | 4350.1 | 4343.7 | 4316.1 | 4290.6 | 4284.3 | 4250.3 | 4184.4 | 4086.7 | 3946.5 |
| 7.5° | 4420.2 | 4424.4 | 4416.0 | 4401.1 | 4360.7 | 4326.7 | 4303.4 | 4256.6 | 4178.1 | 4080.3 | 3918.9 |
| 10° | 4432.9 | 4430.8 | 4435.1 | 4437.2 | 4411.7 | 4382.0 | 4362.9 | 4299.1 | 4199.3 | 4095.2 | 3921.0 |
| 12.5° | 4418.1 | 4418.1 | 4445.7 | 4477.6 | 4477.6 | 4462.7 | 4443.6 | 4386.2 | 4269.4 | 4146.2 | 3963.5 |
| 15° | 4437.2 | 4443.6 | 4496.7 | 4556.1 | 4575.3 | 4560.4 | 4551.9 | 4492.4 | 4371.3 | 4235.4 | 4040.0 |
| 17.5° | 4505.2 | 4511.5 | 4596.5 | 4685.7 | 4709.1 | 4692.1 | 4675.1 | 4615.6 | 4486.0 | 4337.4 | 4127.1 |
| 20° | 4605.0 | 4622.0 | 4730.3 | 4845.0 | 4866.3 | 4845.0 | 4811.0 | 4728.2 | 4598.6 | 4447.8 | 4209.9 |
| 22.5° | 4787.7 | 4798.3 | 4915.1 | 5036.2 | 5046.8 | 5012.8 | 4961.8 | 4847.1 | 4711.2 | 4564.6 | 4303.4 |
| 25° | 5029.8 | 5044.7 | 5161.5 | 5278.3 | 5250.7 | 5199.7 | 5129.6 | 5000.1 | 4845.0 | 4702.7 | 4422.3 |
| 27.5° | 5318.7 | 5335.7 | 5450.4 | 5552.3 | 5480.1 | 5420.6 | 5342.0 | 5180.6 | 5023.4 | 4893.9 | 4575.3 |
| 30° | 5630.9 | 5645.8 | 5747.7 | 5839.1 | 5743.5 | 5673.4 | 5579.9 | 5414.3 | 5255.0 | 5157.3 | 4791.9 |
| 32.5° | 5932.5 | 5930.4 | 6028.1 | 6102.5 | 6004.8 | 5949.5 | 5864.6 | 5696.8 | 5569.3 | 5526.8 | 5114.8 |
| 35° | 6212.9 | 6212.9 | 6293.6 | 6368.0 | 6297.9 | 6268.1 | 6189.6 | 6055.7 | 5983.5 | 6034.5 | 5546.0 |
| 37.5° | 6495.4 | 6480.6 | 6557.0 | 6639.9 | 6633.5 | 6635.6 | 6591.0 | 6527.3 | 6531.5 | 6712.1 | 6138.6 |
| 40° | 6729.1 | 6722.7 | 6811.9 | 6920.2 | 7005.2 | 7073.2 | 7045.6 | 7068.9 | 7202.7 | 7540.5 | 6896.9 |
| 42.5° | 6916.0 | 6930.9 | 7045.6 | 7217.6 | 7432.1 | 7570.2 | 7589.3 | 7684.9 | 8029.0 | 8551.5 | 7752.9 |
| 45° | 7130.5 | 7132.6 | 7292.0 | 7555.3 | 7897.3 | 8116.1 | 8192.6 | 8439.0 | 8927.5 | 9600.8 | 8691.7 |
| 47.5° | 7393.9 | 7368.4 | 7546.8 | 7916.4 | 8411.3 | 8734.2 | 8870.1 | 9178.1 | 9934.3 | 10624.6 | 9456.4 |
| 50° | 7684.9 | 7638.2 | 7840.0 | 8343.4 | 8987.0 | 9390.5 | 9666.7 | 10117.0 | 10932.6 | 11465.8 | 10025.6 |
| 52.5° | 8022.6 | 7978.0 | 8207.4 | 8834.0 | 9677.3 | 10167.9 | 10522.7 | 10977.2 | 11788.6 | 12107.2 | 10365.5 |
| 55° | 8451.7 | 8407.1 | 8649.2 | 9422.4 | 10492.9 | 11130.2 | 11501.9 | 11884.2 | 12585.1 | 12580.9 | 10611.9 |
| 57.5° | 8927.5 | 8865.9 | 9201.5 | 10165.8 | 11510.4 | 12173.1 | 12551.2 | 12738.1 | 13190.5 | 12948.4 | 10777.6 |
| 60° | 9473.4 | 9418.2 | 9883.3 | 11051.6 | 12685.0 | 13298.8 | 13536.7 | 13460.3 | 13687.5 | 13165.0 | 10720.2 |
| 62.5° | 9966.2 | 9940.7 | 10518.4 | 11990.4 | 13804.4 | 14322.6 | 14388.5 | 14055.0 | 14052.9 | 13169.3 | 10333.6 |
| 65° | 10478.1 | 10526.9 | 11385.0 | 13071.6 | 14930.1 | 15278.5 | 15165.9 | 14645.5 | 14199.4 | 12648.9 | 9190.9 |
| 67.5° | 10669.2 | 10811.5 | 11956.4 | 14048.6 | 15818.0 | 16089.9 | 15892.3 | 14940.7 | 13589.8 | 10898.6 | 6998.8 |
| 70° | 9488.2 | 9755.9 | 11416.9 | 14103.9 | 16185.5 | 16444.6 | 15970.9 | 14146.3 | 11329.8 | 7219.7 | 3834.0 |
| 72.5° | 7215.5 | 7527.7 | 9513.7 | 11548.6 | 14556.3 | 15146.8 | 14337.5 | 11525.2 | 7302.6 | 3162.7 | 1287.2 |
| 75° | 4037.9 | 4375.6 | 7085.9 | 8696.0 | 9772.9 | 10312.4 | 10015.0 | 7393.9 | 3235.0 | 826.3 | 384.5 |
| 77.5° | 1365.8 | 1478.4 | 3296.6 | 5380.3 | 6450.8 | 5966.5 | 5051.1 | 3672.5 | 1189.5 | 314.4 | 203.9 |
| 80° | 809.3 | 851.8 | 1227.7 | 2678.5 | 3394.3 | 2814.4 | 2221.8 | 1357.3 | 605.4 | 167.8 | 142.3 |
| 82.5° | 242.1 | 286.8 | 677.6 | 994.1 | 1329.7 | 828.4 | 700.9 | 775.3 | 314.4 | 91.3 | 118.9 |
| 85° | 0.0 | 0.0 | 144.4 | 308.0 | 348.3 | 135.9 | 135.9 | 439.7 | 57.4 | 38.2 | 87.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 10.6 | 6.4 | 8.5 | 19.1 |
| 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-SA5D-735-U-SL4-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 | 3961.4 |
| 2.5° | 3935.9 | 3861.6 | 3774.5 | 3691.6 | 3613.1 | 3511.1 | 3462.2 | 3402.8 | 3351.8 | 3324.2 | 3339.0 |
| 5° | 3857.3 | 3740.5 | 3562.1 | 3381.5 | 3198.9 | 3026.8 | 2871.7 | 2767.7 | 2674.2 | 2625.4 | 2636.0 |
| 7.5° | 3789.4 | 3632.2 | 3353.9 | 3058.7 | 2765.5 | 2470.3 | 2230.3 | 2043.4 | 1898.9 | 1839.4 | 1828.8 |
| 10° | 3759.6 | 3562.1 | 3169.1 | 2744.3 | 2294.0 | 1896.8 | 1556.9 | 1350.9 | 1204.4 | 1132.1 | 1144.9 |
| 12.5° | 3774.5 | 3526.0 | 3011.9 | 2436.3 | 1852.2 | 1389.1 | 1064.2 | 870.9 | 766.8 | 724.3 | 713.7 |
| 15° | 3817.0 | 3517.5 | 2871.7 | 2122.0 | 1429.5 | 970.7 | 734.9 | 656.3 | 635.1 | 630.9 | 630.9 |
| 17.5° | 3865.8 | 3519.6 | 2727.3 | 1803.3 | 1085.4 | 720.1 | 628.7 | 613.9 | 607.5 | 603.2 | 605.4 |
| 20° | 3914.7 | 3519.6 | 2561.6 | 1480.5 | 815.6 | 622.4 | 599.0 | 588.4 | 582.0 | 579.9 | 579.9 |
| 22.5° | 3974.1 | 3519.6 | 2376.8 | 1181.0 | 654.2 | 590.5 | 571.4 | 565.0 | 558.6 | 556.5 | 554.4 |
| 25° | 4046.4 | 3521.7 | 2172.9 | 924.0 | 594.7 | 562.9 | 548.0 | 541.6 | 535.3 | 531.0 | 531.0 |
| 27.5° | 4150.4 | 3538.7 | 1947.8 | 720.1 | 560.8 | 537.4 | 524.6 | 518.3 | 511.9 | 505.5 | 505.5 |
| 30° | 4301.3 | 3581.2 | 1695.0 | 594.7 | 528.9 | 509.8 | 497.0 | 492.8 | 486.4 | 480.0 | 477.9 |
| 32.5° | 4526.4 | 3655.5 | 1433.8 | 533.1 | 499.2 | 480.0 | 465.2 | 460.9 | 454.6 | 448.2 | 446.1 |
| 35° | 4840.8 | 3791.5 | 1178.9 | 494.9 | 460.9 | 441.8 | 433.3 | 431.2 | 422.7 | 416.3 | 416.3 |
| 37.5° | 5301.7 | 4012.4 | 934.6 | 456.7 | 429.1 | 414.2 | 403.6 | 399.3 | 390.8 | 384.5 | 382.3 |
| 40° | 5864.6 | 4299.1 | 726.4 | 426.9 | 399.3 | 384.5 | 373.8 | 367.5 | 356.8 | 348.3 | 344.1 |
| 42.5° | 6582.5 | 4649.6 | 573.5 | 395.1 | 371.7 | 356.8 | 348.3 | 335.6 | 320.7 | 308.0 | 305.9 |
| 45° | 7330.2 | 5010.7 | 473.7 | 365.3 | 346.2 | 333.5 | 322.9 | 305.9 | 284.6 | 269.8 | 265.5 |
| 47.5° | 7903.7 | 5235.8 | 414.2 | 333.5 | 318.6 | 308.0 | 295.2 | 274.0 | 248.5 | 231.5 | 227.3 |
| 50° | 8313.6 | 5269.8 | 369.6 | 303.7 | 295.2 | 284.6 | 265.5 | 240.0 | 212.4 | 195.4 | 191.2 |
| 52.5° | 8515.4 | 5116.9 | 333.5 | 276.1 | 269.8 | 259.1 | 235.8 | 208.2 | 178.4 | 161.4 | 157.2 |
| 55° | 8606.8 | 4828.0 | 299.5 | 252.8 | 244.3 | 231.5 | 206.0 | 176.3 | 146.6 | 131.7 | 127.4 |
| 57.5° | 8570.6 | 4401.1 | 269.8 | 229.4 | 218.8 | 203.9 | 176.3 | 144.4 | 121.1 | 106.2 | 104.1 |
| 60° | 8303.0 | 3802.1 | 240.0 | 206.0 | 193.3 | 176.3 | 148.7 | 118.9 | 97.7 | 87.1 | 85.0 |
| 62.5° | 7725.3 | 3058.7 | 210.3 | 178.4 | 169.9 | 152.9 | 127.4 | 97.7 | 80.7 | 74.3 | 72.2 |
| 65° | 6542.2 | 2162.3 | 180.5 | 150.8 | 146.6 | 129.6 | 106.2 | 80.7 | 70.1 | 65.8 | 63.7 |
| 67.5° | 4702.7 | 1314.8 | 152.9 | 129.6 | 125.3 | 110.5 | 89.2 | 70.1 | 63.7 | 61.6 | 61.6 |
| 70° | 2364.1 | 622.4 | 121.1 | 106.2 | 106.2 | 91.3 | 76.5 | 63.7 | 61.6 | 59.5 | 59.5 |
| 72.5° | 802.9 | 265.5 | 91.3 | 82.8 | 87.1 | 78.6 | 65.8 | 59.5 | 59.5 | 59.5 | 59.5 |
| 75° | 274.0 | 140.2 | 63.7 | 59.5 | 63.7 | 63.7 | 57.4 | 57.4 | 59.5 | 59.5 | 59.5 |
| 77.5° | 178.4 | 93.5 | 44.6 | 40.4 | 48.9 | 48.9 | 48.9 | 53.1 | 57.4 | 57.4 | 57.4 |
| 80° | 146.6 | 51.0 | 29.7 | 27.6 | 36.1 | 36.1 | 40.4 | 48.9 | 53.1 | 53.1 | 53.1 |
| 82.5° | 125.3 | 31.9 | 17.0 | 19.1 | 25.5 | 27.6 | 34.0 | 40.4 | 46.7 | 48.9 | 48.9 |
| 85° | 85.0 | 17.0 | 12.7 | 14.9 | 17.0 | 21.2 | 27.6 | 34.0 | 38.2 | 42.5 | 42.5 |
| 87.5° | 23.4 | 6.4 | 8.5 | 10.6 | 10.6 | 14.9 | 21.2 | 25.5 | 29.7 | 31.9 | 31.9 |
| 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)