

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: P640172

Luminaire Tested: GWS-SA5D-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26119.2 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

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

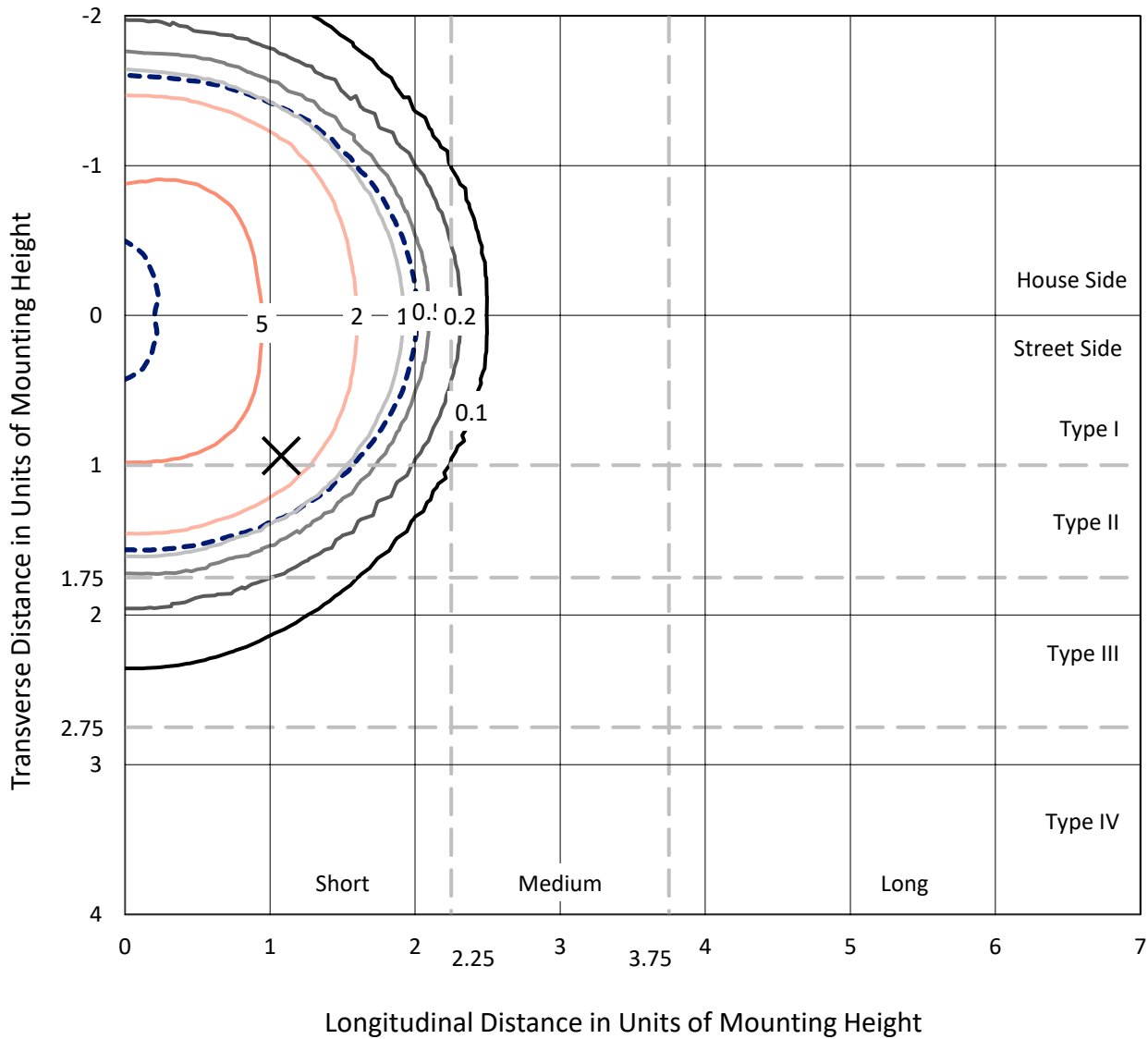


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Iso-Footcandle Lines of Horizontal Illumination

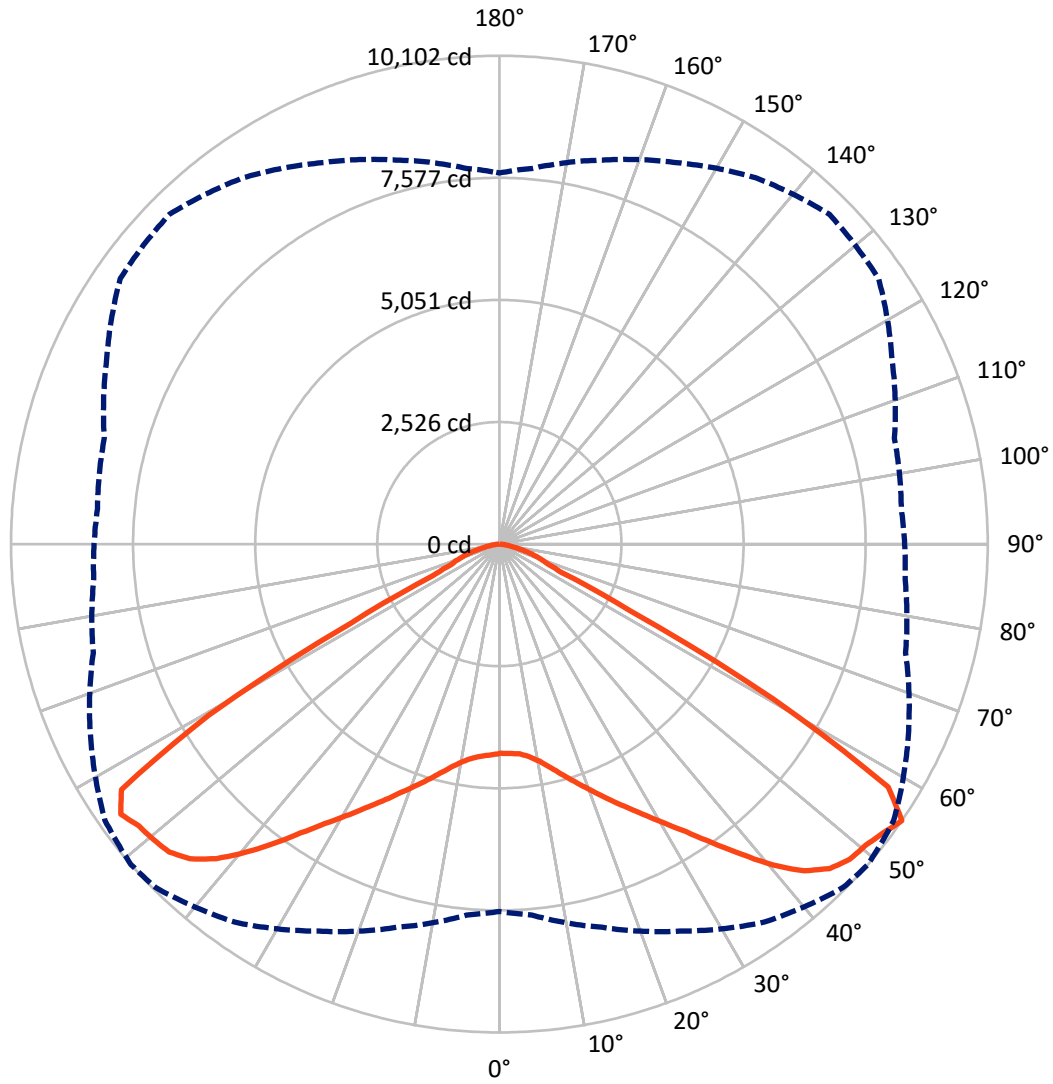
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12931.5 | 0.0 | 12931.5 |
| | % Fixture | 49.5 | 0.0 | 49.5 |
| Street Side | Lumens | 13187.7 | 0.0 | 13187.7 |
| | % Fixture | 50.5 | 0.0 | 50.5 |
| Total | Lumens | 26119.2 | 0.0 | 26119.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 422.1 | 1.6 |
| 10°-20° | 1392.2 | 5.3 |
| 20°-30° | 2651.7 | 10.2 |
| 30°-40° | 4495.3 | 17.2 |
| 40°-50° | 6765.1 | 25.9 |
| 50°-60° | 7405.0 | 28.4 |
| 60°-70° | 2341.5 | 9.0 |
| 70°-80° | 562.0 | 2.2 |
| 80°-90° | 84.3 | 0.3 |
| 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° | 26119.2 | 100.0 |
| 0°-180° | 26119.2 | 100.0 |

Coefficient of Utilization



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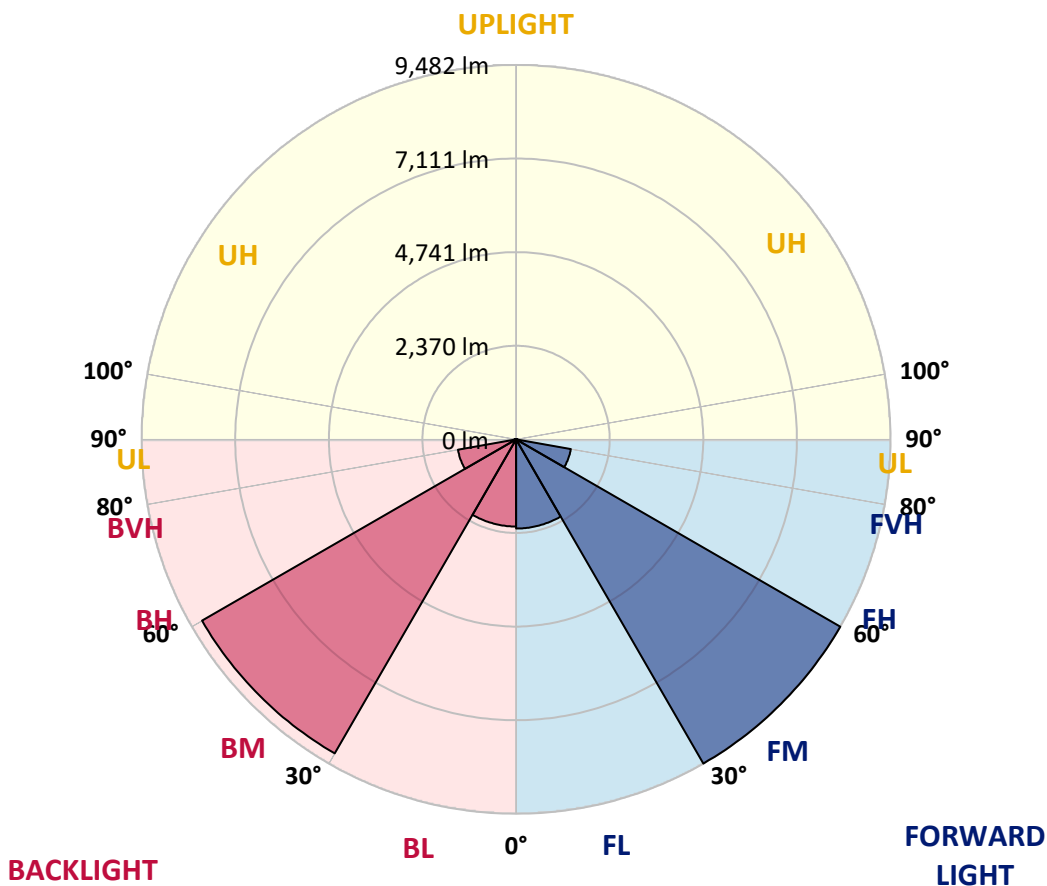
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2258.2 | 8.6 | | | |
| FM (30°-60°) | 9482.0 | 36.3 | | | |
| FH (60°-80°) | 1408.4 | 5.4 | | | G1/1800 |
| FVH (80°-90°) | 39.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2207.8 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 9183.4 | 35.2 | B5 | | |
| BH (60°-80°) | 1495.0 | 5.7 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 45.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 49° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 0° | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 |
| 2.5° | 4263.1 | 4267.3 | 4275.8 | 4290.7 | 4305.6 | 4326.8 | 4335.3 | 4345.9 | 4343.8 | 4356.5 | 4356.5 |
| 5° | 4241.8 | 4248.2 | 4261.0 | 4282.2 | 4307.7 | 4348.0 | 4358.7 | 4384.2 | 4409.6 | 4441.5 | 4452.1 |
| 7.5° | 4267.3 | 4275.8 | 4290.7 | 4324.7 | 4362.9 | 4416.0 | 4437.3 | 4479.7 | 4528.6 | 4585.9 | 4609.3 |
| 10° | 4316.2 | 4326.8 | 4352.3 | 4407.5 | 4469.1 | 4549.8 | 4569.0 | 4622.1 | 4700.6 | 4779.2 | 4826.0 |
| 12.5° | 4371.4 | 4388.4 | 4435.1 | 4522.2 | 4613.6 | 4719.8 | 4749.5 | 4815.3 | 4900.3 | 5002.3 | 5066.0 |
| 15° | 4435.1 | 4450.0 | 4522.2 | 4645.4 | 4787.7 | 4927.9 | 4961.9 | 5025.6 | 5121.2 | 5221.1 | 5310.3 |
| 17.5° | 4569.0 | 4594.4 | 4679.4 | 4821.7 | 4987.4 | 5153.1 | 5191.3 | 5263.5 | 5340.0 | 5418.6 | 5503.6 |
| 20° | 4751.6 | 4772.9 | 4881.2 | 5057.5 | 5252.9 | 5403.7 | 5442.0 | 5505.7 | 5541.8 | 5582.2 | 5654.4 |
| 22.5° | 4934.3 | 4964.0 | 5087.2 | 5295.4 | 5524.8 | 5688.4 | 5718.1 | 5777.6 | 5752.1 | 5739.3 | 5786.1 |
| 25° | 5161.6 | 5201.9 | 5323.0 | 5550.3 | 5783.9 | 5985.7 | 6009.1 | 6060.1 | 6017.6 | 5951.7 | 5949.6 |
| 27.5° | 5444.1 | 5480.2 | 5605.5 | 5839.2 | 6070.7 | 6281.0 | 6325.6 | 6393.6 | 6300.1 | 6219.4 | 6162.0 |
| 30° | 5779.7 | 5803.1 | 5941.1 | 6189.6 | 6427.5 | 6627.2 | 6684.6 | 6752.5 | 6682.4 | 6548.6 | 6491.3 |
| 32.5° | 6170.5 | 6202.4 | 6361.7 | 6623.0 | 6835.4 | 7035.0 | 7092.4 | 7177.4 | 7100.9 | 6950.1 | 6877.9 |
| 35° | 6640.0 | 6671.8 | 6839.6 | 7124.3 | 7340.9 | 7546.9 | 7587.3 | 7657.4 | 7561.8 | 7387.6 | 7330.3 |
| 37.5° | 7149.7 | 7190.1 | 7402.5 | 7672.3 | 7899.6 | 8139.6 | 8141.7 | 8162.9 | 8027.0 | 7810.3 | 7746.6 |
| 40° | 7723.2 | 7776.4 | 7988.8 | 8269.1 | 8543.2 | 8738.6 | 8736.4 | 8677.0 | 8447.6 | 8112.0 | 8014.3 |
| 42.5° | 8290.4 | 8332.9 | 8547.4 | 8836.3 | 9110.3 | 9295.1 | 9239.9 | 9095.4 | 8764.1 | 8307.4 | 8177.8 |
| 45° | 8700.3 | 8732.2 | 8957.4 | 9282.3 | 9560.6 | 9675.3 | 9575.5 | 9401.3 | 8953.1 | 8430.6 | 8239.4 |
| 47.5° | 8893.6 | 8936.1 | 9163.4 | 9486.3 | 9800.6 | 9866.5 | 9747.5 | 9584.0 | 9063.6 | 8545.3 | 8288.3 |
| 50° | 8789.6 | 8844.8 | 9101.8 | 9401.3 | 9756.0 | 9892.0 | 9807.0 | 9643.4 | 9180.4 | 8657.9 | 8375.3 |
| 52.5° | 8519.8 | 8572.9 | 8897.9 | 9261.1 | 9662.6 | 9932.3 | 9930.2 | 9796.4 | 9314.2 | 8689.7 | 8379.6 |
| 55° | 7597.9 | 7702.0 | 8207.5 | 8834.2 | 9547.9 | 10051.3 | 10102.2 | 9959.9 | 9335.4 | 8698.2 | 8424.2 |
| 57.5° | 4944.9 | 5127.6 | 5607.6 | 6423.3 | 7854.9 | 9142.2 | 9486.3 | 9520.2 | 9182.5 | 8662.1 | 8432.7 |
| 60° | 2064.6 | 2211.2 | 2591.4 | 3133.1 | 4316.2 | 5847.7 | 6514.6 | 7183.7 | 7990.9 | 8284.0 | 8354.1 |
| 62.5° | 1283.0 | 1295.7 | 1333.9 | 1457.1 | 1852.2 | 2599.9 | 3029.0 | 3655.6 | 4855.7 | 5877.4 | 6349.0 |
| 65° | 1157.6 | 1164.0 | 1172.5 | 1164.0 | 1183.1 | 1274.5 | 1389.2 | 1607.9 | 2096.5 | 2604.2 | 3207.4 |
| 67.5° | 1019.6 | 1028.1 | 1034.4 | 1028.1 | 1034.4 | 1038.7 | 1051.4 | 1070.5 | 1159.8 | 1232.0 | 1287.2 |
| 70° | 824.2 | 836.9 | 847.5 | 843.3 | 868.8 | 868.8 | 881.5 | 896.4 | 941.0 | 994.1 | 1032.3 |
| 72.5° | 628.7 | 618.1 | 630.9 | 635.1 | 658.5 | 671.2 | 690.3 | 707.3 | 758.3 | 790.2 | 839.0 |
| 75° | 407.8 | 397.2 | 416.3 | 426.9 | 458.8 | 475.8 | 492.8 | 509.8 | 545.9 | 567.1 | 613.9 |
| 77.5° | 220.9 | 218.8 | 237.9 | 252.8 | 286.8 | 308.0 | 320.7 | 333.5 | 363.2 | 369.6 | 399.3 |
| 80° | 127.4 | 127.4 | 140.2 | 150.8 | 172.1 | 195.4 | 208.2 | 218.8 | 240.0 | 246.4 | 259.1 |
| 82.5° | 70.1 | 70.1 | 76.5 | 82.8 | 99.8 | 112.6 | 123.2 | 131.7 | 150.8 | 157.2 | 163.6 |
| 85° | 34.0 | 31.9 | 36.1 | 40.4 | 46.7 | 53.1 | 59.5 | 63.7 | 78.6 | 82.8 | 91.3 |
| 87.5° | 4.2 | 4.2 | 4.2 | 6.4 | 8.5 | 12.7 | 14.9 | 14.9 | 23.4 | 27.6 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 | 4326.8 |
| 2.5° | 4369.3 | 4341.7 | 4358.7 | 4365.0 | 4365.0 | 4358.7 | 4331.1 | 4322.6 | 4309.8 | 4290.7 | 4290.7 |
| 5° | 4467.0 | 4445.8 | 4450.0 | 4439.4 | 4413.9 | 4382.0 | 4331.1 | 4305.6 | 4284.3 | 4261.0 | 4258.8 |
| 7.5° | 4634.8 | 4607.2 | 4602.9 | 4562.6 | 4494.6 | 4426.6 | 4350.2 | 4303.4 | 4271.6 | 4241.8 | 4239.7 |
| 10° | 4853.6 | 4828.1 | 4796.2 | 4715.5 | 4615.7 | 4515.8 | 4411.8 | 4348.0 | 4301.3 | 4258.8 | 4256.7 |
| 12.5° | 5097.9 | 5068.1 | 5008.6 | 4889.7 | 4764.4 | 4666.7 | 4547.7 | 4450.0 | 4379.9 | 4322.6 | 4311.9 |
| 15° | 5363.4 | 5320.9 | 5218.9 | 5078.7 | 4955.5 | 4851.5 | 4724.0 | 4583.8 | 4477.6 | 4386.3 | 4375.7 |
| 17.5° | 5567.3 | 5512.1 | 5401.6 | 5269.9 | 5167.9 | 5063.9 | 4898.2 | 4721.9 | 4569.0 | 4454.3 | 4437.3 |
| 20° | 5707.5 | 5662.9 | 5537.5 | 5439.8 | 5380.4 | 5289.0 | 5095.7 | 4896.1 | 4724.0 | 4579.6 | 4571.1 |
| 22.5° | 5837.0 | 5783.9 | 5660.7 | 5603.4 | 5603.4 | 5541.8 | 5357.0 | 5121.2 | 4919.4 | 4751.6 | 4730.4 |
| 25° | 5983.6 | 5926.3 | 5832.8 | 5826.4 | 5856.2 | 5828.5 | 5605.5 | 5352.7 | 5117.0 | 4927.9 | 4893.9 |
| 27.5° | 6187.5 | 6123.8 | 6068.6 | 6106.8 | 6149.3 | 6119.5 | 5871.0 | 5577.9 | 5329.4 | 5138.2 | 5108.5 |
| 30° | 6512.5 | 6433.9 | 6382.9 | 6429.7 | 6512.5 | 6425.4 | 6155.7 | 5845.5 | 5594.9 | 5384.6 | 5369.7 |
| 32.5° | 6890.6 | 6801.4 | 6748.3 | 6822.6 | 6897.0 | 6761.0 | 6493.4 | 6196.0 | 5932.6 | 5711.7 | 5686.2 |
| 35° | 7345.2 | 7232.6 | 7154.0 | 7253.8 | 7330.3 | 7196.5 | 6931.0 | 6648.5 | 6355.3 | 6125.9 | 6091.9 |
| 37.5° | 7748.7 | 7612.8 | 7559.7 | 7699.9 | 7801.8 | 7714.8 | 7425.9 | 7160.4 | 6839.6 | 6589.0 | 6574.1 |
| 40° | 8041.9 | 7908.0 | 7869.8 | 8101.3 | 8279.8 | 8258.5 | 7999.4 | 7695.6 | 7394.0 | 7105.1 | 7077.5 |
| 42.5° | 8169.3 | 8075.9 | 8084.3 | 8396.6 | 8672.7 | 8808.7 | 8577.1 | 8252.2 | 7961.1 | 7661.7 | 7642.5 |
| 45° | 8196.9 | 8139.6 | 8207.5 | 8598.4 | 8961.6 | 9239.9 | 9042.3 | 8770.4 | 8441.2 | 8152.3 | 8143.8 |
| 47.5° | 8226.7 | 8194.8 | 8298.9 | 8713.1 | 9144.3 | 9467.1 | 9356.7 | 9076.3 | 8742.8 | 8460.3 | 8439.1 |
| 50° | 8296.8 | 8284.0 | 8400.8 | 8793.8 | 9231.4 | 9528.7 | 9403.4 | 9125.2 | 8783.2 | 8504.9 | 8453.9 |
| 52.5° | 8318.0 | 8296.8 | 8464.6 | 8919.1 | 9375.8 | 9526.6 | 9256.9 | 8893.6 | 8549.5 | 8239.4 | 8186.3 |
| 55° | 8383.8 | 8345.6 | 8460.3 | 8965.9 | 9575.5 | 9649.8 | 9248.4 | 8704.6 | 8224.5 | 7801.8 | 7676.5 |
| 57.5° | 8400.8 | 8358.4 | 8432.7 | 8889.4 | 9358.8 | 9293.0 | 8129.0 | 7024.4 | 6119.5 | 5650.1 | 5703.2 |
| 60° | 8309.5 | 8322.2 | 8194.8 | 8143.8 | 7506.6 | 6627.2 | 4976.8 | 3978.5 | 3124.6 | 2763.5 | 2842.1 |
| 62.5° | 6325.6 | 6378.7 | 5943.2 | 5167.9 | 3974.2 | 3150.0 | 2083.7 | 1618.6 | 1370.0 | 1306.3 | 1316.9 |
| 65° | 3192.5 | 3264.8 | 2812.3 | 2325.9 | 1729.0 | 1397.7 | 1208.6 | 1170.4 | 1157.6 | 1142.8 | 1142.8 |
| 67.5° | 1263.8 | 1285.1 | 1268.1 | 1187.4 | 1104.5 | 1074.8 | 1066.3 | 1062.1 | 1047.2 | 1038.7 | 1040.8 |
| 70° | 1015.3 | 1032.3 | 1006.8 | 955.8 | 921.9 | 919.7 | 915.5 | 907.0 | 896.4 | 896.4 | 902.7 |
| 72.5° | 828.4 | 845.4 | 809.3 | 777.4 | 751.9 | 732.8 | 722.2 | 715.8 | 701.0 | 701.0 | 707.3 |
| 75° | 609.6 | 620.2 | 590.5 | 586.3 | 558.6 | 539.5 | 522.5 | 514.0 | 494.9 | 486.4 | 492.8 |
| 77.5° | 405.7 | 403.6 | 388.7 | 388.7 | 378.1 | 354.7 | 335.6 | 316.5 | 291.0 | 274.0 | 278.3 |
| 80° | 263.4 | 263.4 | 257.0 | 257.0 | 246.4 | 227.3 | 203.9 | 184.8 | 169.9 | 157.2 | 157.2 |
| 82.5° | 167.8 | 165.7 | 163.6 | 161.4 | 157.2 | 138.1 | 121.1 | 108.3 | 97.7 | 89.2 | 91.3 |
| 85° | 93.5 | 93.5 | 89.2 | 89.2 | 80.7 | 70.1 | 61.6 | 53.1 | 46.7 | 44.6 | 44.6 |
| 87.5° | 31.9 | 31.9 | 29.7 | 29.7 | 25.5 | 19.1 | 14.9 | 12.7 | 10.6 | 8.5 | 10.6 |
| 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)