

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: P642722

Luminaire Tested: GWS-SA6D-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642722
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-SA6D-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35756.2 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

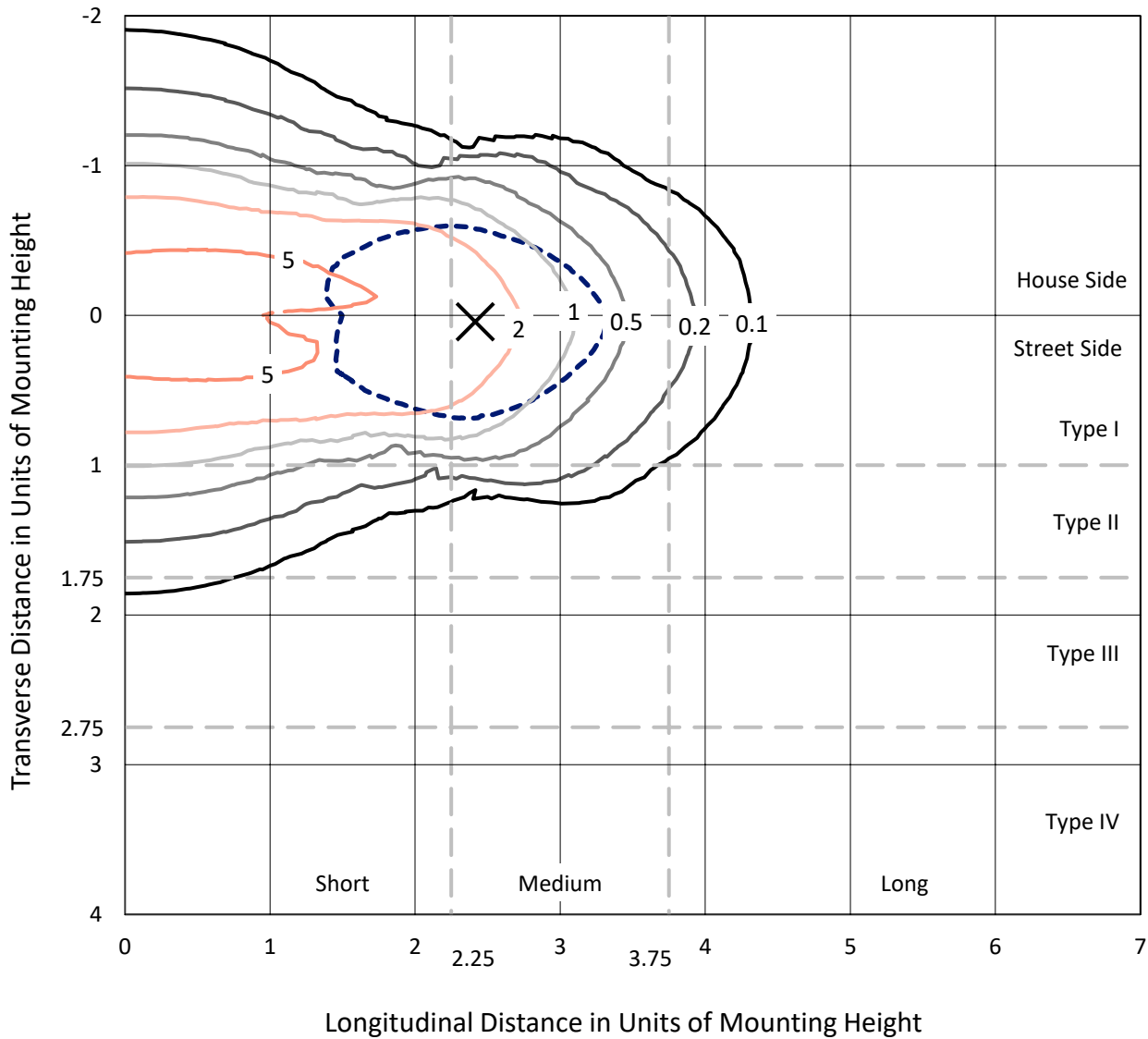
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

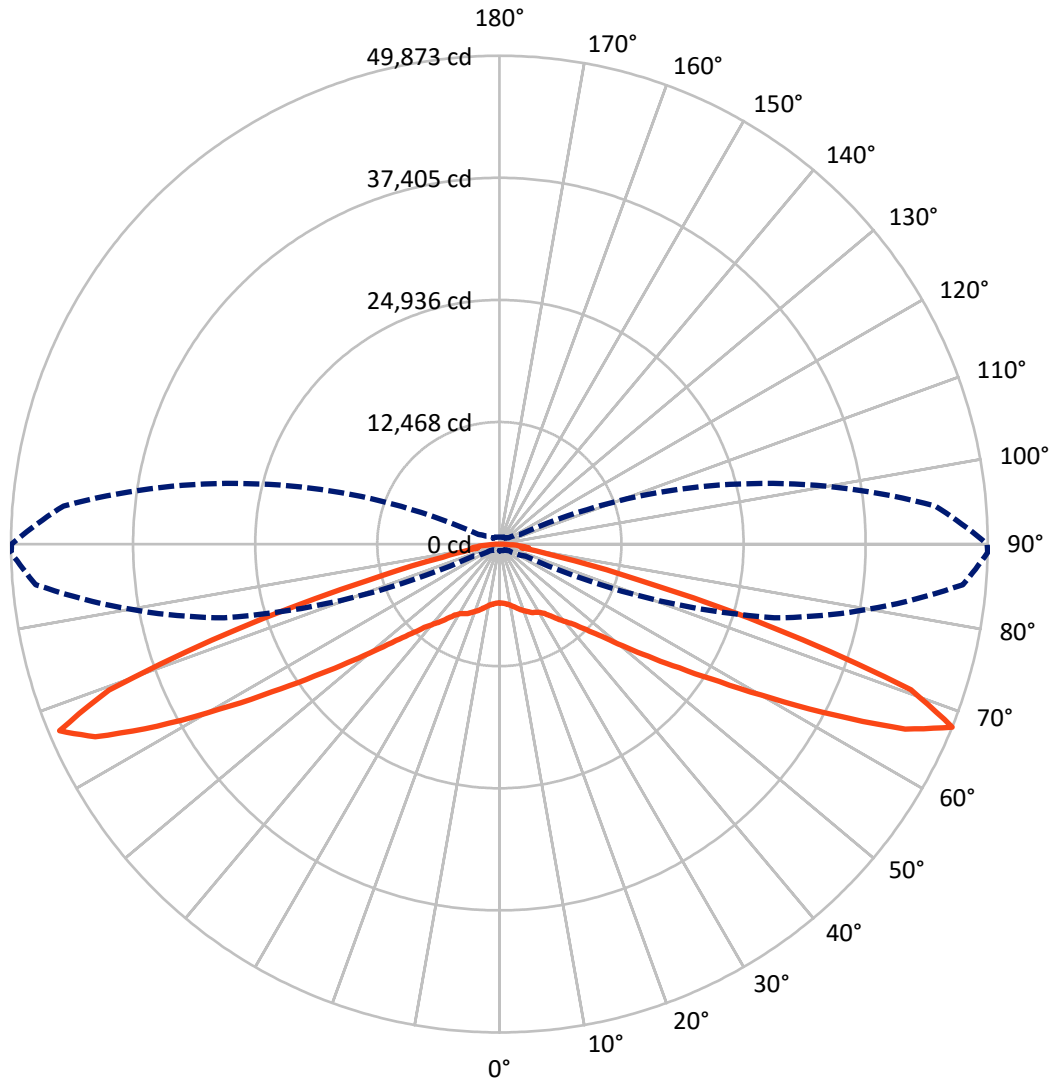
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 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 | 17721.4 | 0.0 | 17721.4 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 18034.8 | 0.0 | 18034.8 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 35756.2 | 0.0 | 35756.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 602.0 | 1.7 |
| 10°-20° | 1960.2 | 5.5 |
| 20°-30° | 3313.6 | 9.3 |
| 30°-40° | 4547.4 | 12.7 |
| 40°-50° | 5799.0 | 16.2 |
| 50°-60° | 7275.7 | 20.3 |
| 60°-70° | 8775.1 | 24.5 |
| 70°-80° | 3174.6 | 8.9 |
| 80°-90° | 308.7 | 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° | 35756.2 | 100.0 |
| 0°-180° | 35756.2 | 100.0 |

Coefficient of Utilization



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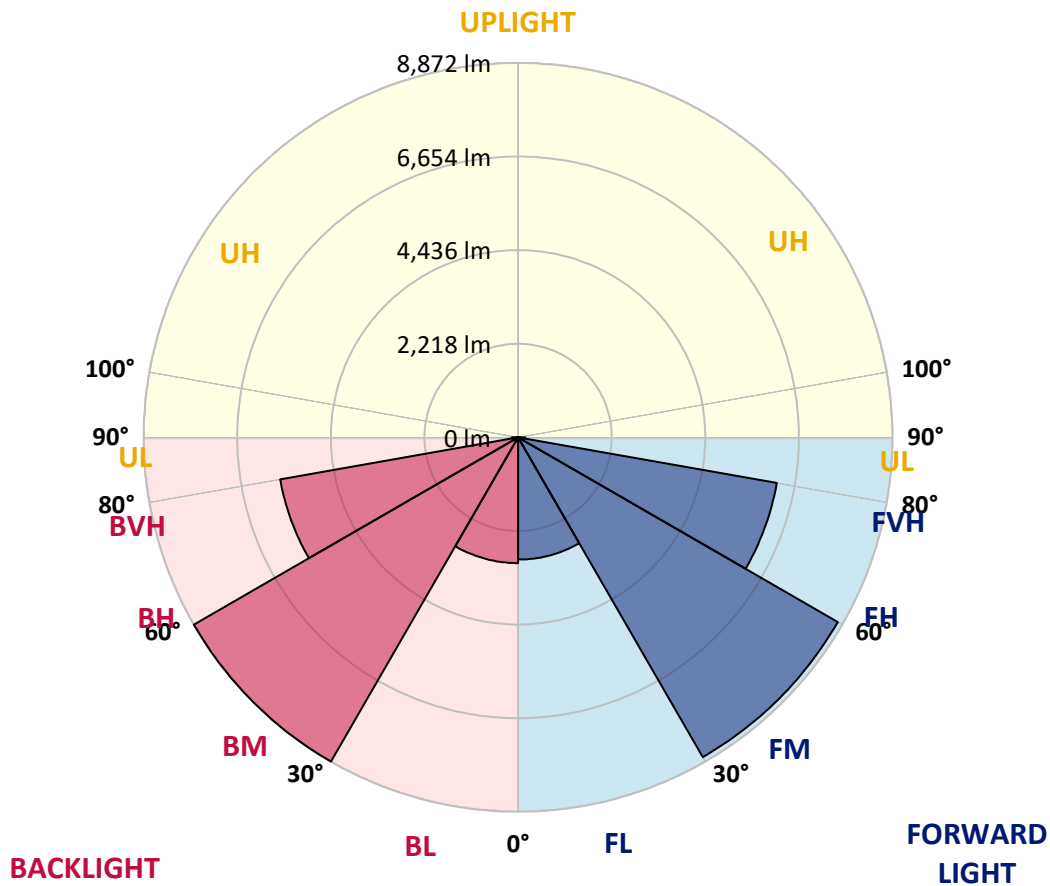
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2896.0 | 8.1 | | | |
| FM (30°-60°) | 8750.2 | 24.5 | | | |
| FH (60°-80°) | 6225.7 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 162.9 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2979.7 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 8871.9 | 24.8 | B5 | | |
| BH (60°-80°) | 5724.0 | 16.0 | B5 | | G5 |
| BVH (80°-90°) | 145.8 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type I Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 89° | |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 |
| 2.5° | 6019.4 | 6014.2 | 6001.4 | 6039.9 | 6032.2 | 6034.8 | 6050.2 | 6039.9 | 6021.9 | 5991.1 | 5991.1 | 6034.8 |
| 5° | 6188.9 | 6186.3 | 6158.0 | 6181.1 | 6155.5 | 6137.5 | 6134.9 | 6109.2 | 6088.7 | 6055.3 | 6055.3 | 6101.5 |
| 7.5° | 6353.2 | 6350.6 | 6327.5 | 6368.6 | 6348.1 | 6327.5 | 6304.4 | 6253.1 | 6204.3 | 6155.5 | 6155.5 | 6206.8 |
| 10° | 6479.0 | 6476.5 | 6471.3 | 6530.4 | 6535.5 | 6543.2 | 6533.0 | 6445.7 | 6360.9 | 6301.8 | 6301.8 | 6353.2 |
| 12.5° | 6550.9 | 6558.6 | 6571.5 | 6679.3 | 6733.3 | 6784.6 | 6797.5 | 6725.6 | 6584.3 | 6499.6 | 6499.6 | 6561.2 |
| 15° | 6502.1 | 6517.6 | 6581.8 | 6776.9 | 6925.9 | 7041.4 | 7090.2 | 7031.2 | 6848.8 | 6707.6 | 6707.6 | 6776.9 |
| 17.5° | 6268.5 | 6281.3 | 6407.1 | 6705.0 | 7033.7 | 7300.8 | 7380.4 | 7344.4 | 7141.6 | 6969.5 | 6969.5 | 7036.3 |
| 20° | 5944.9 | 5973.1 | 6109.2 | 6525.3 | 7015.7 | 7480.6 | 7693.7 | 7680.9 | 7460.0 | 7195.5 | 7195.5 | 7275.1 |
| 22.5° | 5652.1 | 5685.5 | 5829.3 | 6289.0 | 6895.1 | 7526.8 | 8009.6 | 8042.9 | 7750.2 | 7421.5 | 7421.5 | 7485.7 |
| 25° | 5323.4 | 5354.3 | 5539.2 | 6009.1 | 6687.0 | 7490.8 | 8279.2 | 8430.7 | 8078.9 | 7680.9 | 7680.9 | 7739.9 |
| 27.5° | 4987.0 | 5010.1 | 5192.5 | 5693.2 | 6414.8 | 7424.1 | 8492.3 | 8857.0 | 8402.5 | 7860.6 | 7860.6 | 7901.7 |
| 30° | 4691.7 | 4722.5 | 4889.5 | 5377.4 | 6116.9 | 7290.5 | 8667.0 | 9311.5 | 8774.8 | 8063.5 | 8063.5 | 8096.9 |
| 32.5° | 4406.7 | 4432.3 | 4614.7 | 5066.6 | 5801.1 | 7085.1 | 8823.6 | 9845.7 | 9326.9 | 8441.0 | 8441.0 | 8441.0 |
| 35° | 4047.2 | 4093.4 | 4298.8 | 4768.8 | 5503.2 | 6812.9 | 8936.6 | 10467.1 | 10081.9 | 8998.2 | 8998.2 | 9000.8 |
| 37.5° | 3715.9 | 3741.6 | 3957.3 | 4432.3 | 5189.9 | 6504.7 | 8946.9 | 11111.7 | 11037.2 | 9707.0 | 9707.0 | 9712.1 |
| 40° | 3338.4 | 3371.8 | 3602.9 | 4072.8 | 4830.4 | 6181.1 | 8849.3 | 11712.6 | 12038.7 | 10436.3 | 10436.3 | 10408.1 |
| 42.5° | 2955.8 | 3004.5 | 3225.4 | 3685.1 | 4442.6 | 5785.7 | 8589.9 | 12285.3 | 13309.9 | 11281.2 | 11281.2 | 11211.8 |
| 45° | 2586.0 | 2616.8 | 2837.6 | 3271.6 | 3998.4 | 5313.2 | 8173.9 | 12834.8 | 14819.9 | 12565.2 | 12565.2 | 12465.0 |
| 47.5° | 2170.0 | 2182.8 | 2411.3 | 2827.4 | 3538.7 | 4786.7 | 7578.1 | 13325.3 | 16478.8 | 14265.2 | 14265.2 | 14093.1 |
| 50° | 1800.2 | 1818.1 | 1997.9 | 2354.8 | 2976.3 | 4162.7 | 6836.0 | 13612.9 | 18592.2 | 16584.1 | 16584.1 | 16286.2 |
| 52.5° | 1456.0 | 1474.0 | 1617.8 | 1902.9 | 2460.1 | 3451.4 | 5916.6 | 13546.1 | 20736.5 | 19462.8 | 19462.8 | 19028.8 |
| 55° | 1176.1 | 1189.0 | 1286.6 | 1510.0 | 1936.3 | 2745.2 | 4830.4 | 12947.8 | 23117.0 | 23222.3 | 23222.3 | 22287.6 |
| 57.5° | 993.8 | 998.9 | 1065.7 | 1201.8 | 1512.5 | 2116.0 | 3728.7 | 11535.4 | 25613.1 | 28019.3 | 28019.3 | 26483.7 |
| 60° | 888.5 | 891.1 | 921.9 | 1006.7 | 1194.1 | 1615.3 | 2732.3 | 9285.8 | 28199.1 | 34020.7 | 34020.7 | 31915.0 |
| 62.5° | 821.8 | 821.8 | 847.4 | 896.2 | 991.2 | 1242.9 | 2008.2 | 6669.1 | 30055.7 | 40551.1 | 40551.1 | 38458.2 |
| 65° | 757.6 | 757.6 | 775.5 | 816.6 | 868.0 | 1014.4 | 1507.4 | 4301.4 | 30967.4 | 46010.7 | 46010.7 | 45545.9 |
| 67.5° | 675.4 | 677.9 | 690.8 | 734.4 | 780.7 | 847.4 | 1142.8 | 2909.5 | 29074.8 | 47520.6 | 47520.6 | 49872.9 |
| 70° | 598.3 | 600.9 | 618.9 | 647.1 | 685.7 | 731.9 | 893.7 | 2005.6 | 21162.8 | 39577.8 | 39577.8 | 44593.1 |
| 72.5° | 513.6 | 523.9 | 536.7 | 567.5 | 590.6 | 624.0 | 729.3 | 1299.4 | 12313.5 | 25459.0 | 25459.0 | 29477.9 |
| 75° | 421.2 | 434.0 | 449.4 | 480.2 | 495.6 | 508.5 | 600.9 | 927.0 | 5924.4 | 12901.6 | 12901.6 | 14691.5 |
| 77.5° | 326.1 | 339.0 | 357.0 | 385.2 | 395.5 | 410.9 | 459.7 | 670.2 | 2837.6 | 5718.9 | 5718.9 | 6165.7 |
| 80° | 218.3 | 223.4 | 238.8 | 272.2 | 290.2 | 300.5 | 339.0 | 457.1 | 1232.6 | 2295.8 | 2295.8 | 2275.2 |
| 82.5° | 133.5 | 136.1 | 141.2 | 161.8 | 169.5 | 179.8 | 220.8 | 279.9 | 588.1 | 2609.1 | 2609.1 | 2991.7 |
| 85° | 48.8 | 46.2 | 43.7 | 56.5 | 66.8 | 77.0 | 102.7 | 141.2 | 256.8 | 1792.5 | 1792.5 | 2005.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.6 | 5.1 | 5.1 | 10.3 | 20.5 | 61.6 | 670.2 | 670.2 | 459.7 |
| 90° | 0.0 | 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° | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 | 6001.4 |
| 2.5° | 6021.9 | 5993.7 | 6029.6 | 6055.3 | 6111.8 | 6132.4 | 6137.5 | 6119.5 | 6119.5 | 6088.7 | 6093.8 |
| 5° | 6091.3 | 6073.3 | 6132.4 | 6176.0 | 6258.2 | 6289.0 | 6309.5 | 6296.7 | 6304.4 | 6283.9 | 6289.0 |
| 7.5° | 6196.6 | 6181.1 | 6283.9 | 6368.6 | 6453.4 | 6489.3 | 6507.3 | 6497.0 | 6499.6 | 6473.9 | 6481.6 |
| 10° | 6342.9 | 6348.1 | 6471.3 | 6581.8 | 6694.7 | 6730.7 | 6738.4 | 6707.6 | 6681.9 | 6635.7 | 6638.3 |
| 12.5° | 6543.2 | 6568.9 | 6743.5 | 6866.8 | 6982.4 | 7033.7 | 6977.2 | 6864.2 | 6758.9 | 6679.3 | 6669.1 |
| 15° | 6761.5 | 6807.7 | 7059.4 | 7216.0 | 7341.9 | 7316.2 | 7149.3 | 6895.1 | 6687.0 | 6568.9 | 6545.8 |
| 17.5° | 7023.4 | 7092.8 | 7408.6 | 7596.1 | 7704.0 | 7539.6 | 7190.4 | 6810.3 | 6520.1 | 6360.9 | 6330.1 |
| 20° | 7270.0 | 7380.4 | 7778.4 | 8022.4 | 8035.2 | 7665.4 | 7172.4 | 6638.3 | 6273.6 | 6078.4 | 6037.3 |
| 22.5° | 7496.0 | 7637.2 | 8166.2 | 8476.9 | 8310.0 | 7721.9 | 7062.0 | 6394.3 | 5975.7 | 5747.2 | 5711.2 |
| 25° | 7742.5 | 7942.8 | 8618.2 | 8908.4 | 8584.8 | 7698.8 | 6830.9 | 6091.3 | 5616.2 | 5382.5 | 5356.8 |
| 27.5° | 7912.0 | 8163.6 | 9072.7 | 9350.0 | 8810.8 | 7567.9 | 6533.0 | 5760.0 | 5287.5 | 5066.6 | 5030.7 |
| 30° | 8107.1 | 8428.1 | 9573.5 | 9830.3 | 8949.4 | 7375.3 | 6214.5 | 5451.8 | 4981.9 | 4743.1 | 4717.4 |
| 32.5° | 8461.5 | 8864.7 | 10194.9 | 10338.7 | 8993.1 | 7136.4 | 5908.9 | 5154.0 | 4663.5 | 4424.6 | 4388.7 |
| 35° | 9031.6 | 9504.1 | 11068.0 | 10906.2 | 8959.7 | 6874.5 | 5618.8 | 4804.7 | 4337.3 | 4113.9 | 4078.0 |
| 37.5° | 9750.7 | 10338.7 | 12041.3 | 11417.3 | 8867.3 | 6586.9 | 5274.6 | 4512.0 | 4044.6 | 3818.6 | 3798.1 |
| 40° | 10420.9 | 11145.1 | 13132.7 | 11859.0 | 8679.8 | 6232.5 | 4943.4 | 4206.4 | 3728.7 | 3489.9 | 3443.7 |
| 42.5° | 11260.6 | 12223.6 | 14396.1 | 12241.6 | 8371.6 | 5808.8 | 4571.0 | 3828.9 | 3333.2 | 3117.5 | 3061.0 |
| 45° | 12536.9 | 13733.6 | 15865.0 | 12608.8 | 7912.0 | 5287.5 | 4103.6 | 3369.2 | 2899.3 | 2678.4 | 2634.8 |
| 47.5° | 14129.1 | 15621.1 | 17457.2 | 12827.1 | 7213.5 | 4737.9 | 3574.6 | 2883.9 | 2413.9 | 2164.8 | 2144.3 |
| 50° | 16365.8 | 18366.3 | 19164.9 | 12788.6 | 6432.8 | 4085.7 | 2978.9 | 2306.1 | 1913.2 | 1733.4 | 1705.1 |
| 52.5° | 19090.4 | 21812.5 | 21011.3 | 12326.3 | 5603.4 | 3343.5 | 2321.5 | 1810.4 | 1517.7 | 1389.3 | 1366.2 |
| 55° | 22508.4 | 25939.3 | 22955.3 | 11335.1 | 4555.6 | 2560.3 | 1823.3 | 1427.8 | 1227.5 | 1150.5 | 1140.2 |
| 57.5° | 26740.5 | 31283.2 | 24827.3 | 9665.9 | 3425.7 | 1954.2 | 1404.7 | 1178.7 | 1083.7 | 1037.5 | 1034.9 |
| 60° | 32325.8 | 36955.9 | 26452.9 | 7511.4 | 2452.4 | 1494.6 | 1160.7 | 1052.9 | 978.4 | 947.6 | 945.0 |
| 62.5° | 38966.7 | 42107.3 | 27464.6 | 5115.4 | 1843.8 | 1191.5 | 1022.1 | 955.3 | 911.6 | 893.7 | 891.1 |
| 65° | 45792.4 | 45363.5 | 26981.9 | 3351.2 | 1399.6 | 1011.8 | 916.8 | 880.8 | 842.3 | 824.3 | 824.3 |
| 67.5° | 49824.1 | 44675.3 | 23276.3 | 2326.6 | 1109.4 | 888.5 | 826.9 | 793.5 | 729.3 | 713.9 | 713.9 |
| 70° | 44130.9 | 36200.9 | 15256.4 | 1702.6 | 898.8 | 778.1 | 719.0 | 672.8 | 647.1 | 631.7 | 629.2 |
| 72.5° | 29187.8 | 23556.2 | 8112.3 | 1181.3 | 749.9 | 662.5 | 608.6 | 590.6 | 559.8 | 544.4 | 541.8 |
| 75° | 14527.1 | 12372.6 | 4157.6 | 852.6 | 624.0 | 531.6 | 508.5 | 500.8 | 475.1 | 454.5 | 449.4 |
| 77.5° | 6055.3 | 5508.3 | 1938.8 | 618.9 | 475.1 | 428.9 | 408.3 | 408.3 | 380.1 | 357.0 | 346.7 |
| 80° | 2282.9 | 2033.8 | 916.8 | 423.7 | 351.8 | 318.4 | 305.6 | 295.3 | 272.2 | 244.0 | 228.6 |
| 82.5° | 3053.3 | 1995.3 | 449.4 | 264.5 | 231.1 | 205.4 | 187.5 | 179.8 | 166.9 | 154.1 | 143.8 |
| 85° | 1977.4 | 1417.5 | 202.9 | 136.1 | 115.6 | 87.3 | 77.0 | 71.9 | 64.2 | 56.5 | 51.4 |
| 87.5° | 403.2 | 475.1 | 61.6 | 25.7 | 15.4 | 7.7 | 7.7 | 2.6 | 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)