

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: P642668

Luminaire Tested: GWS-SA6D-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20986.4 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

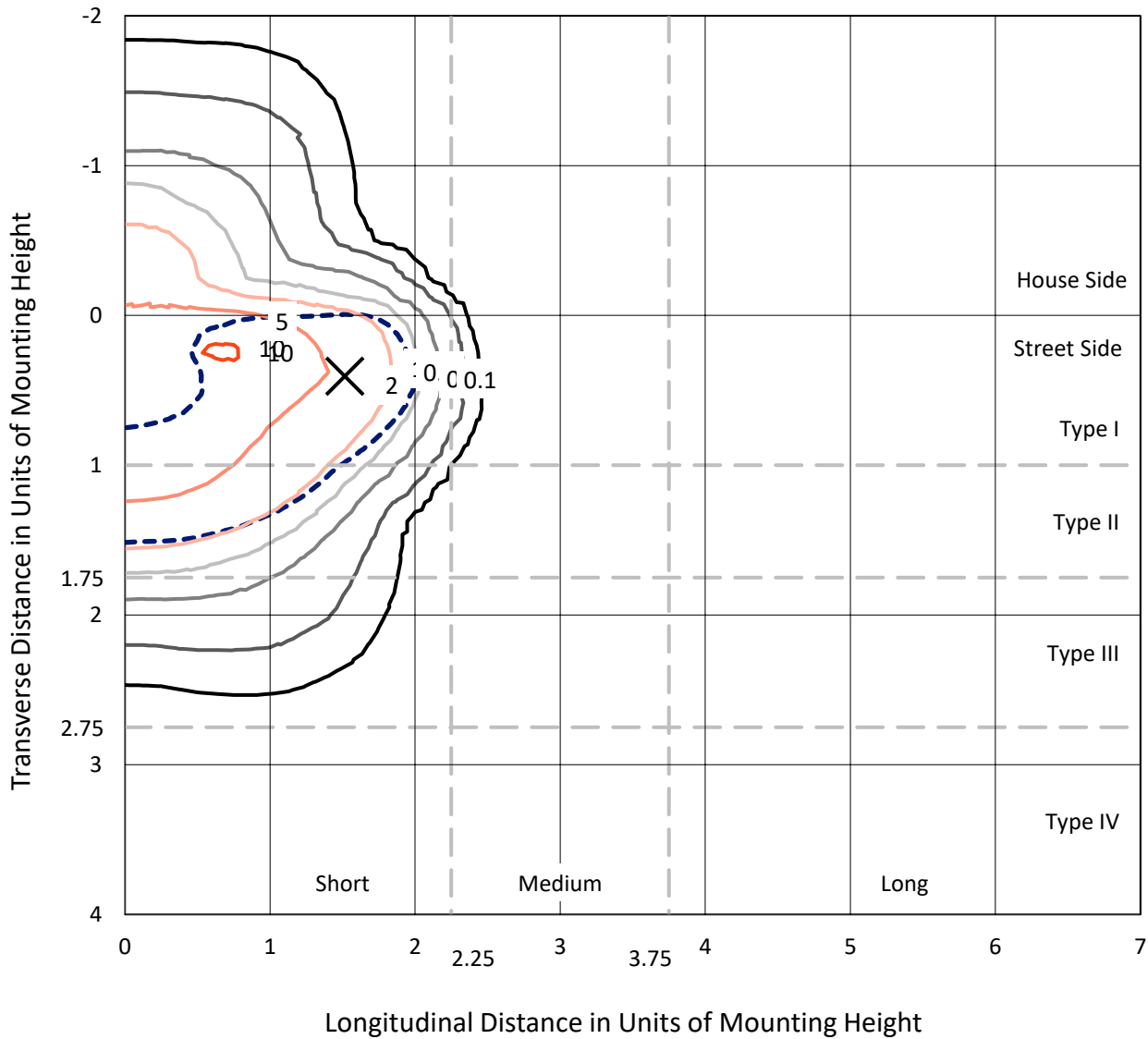
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

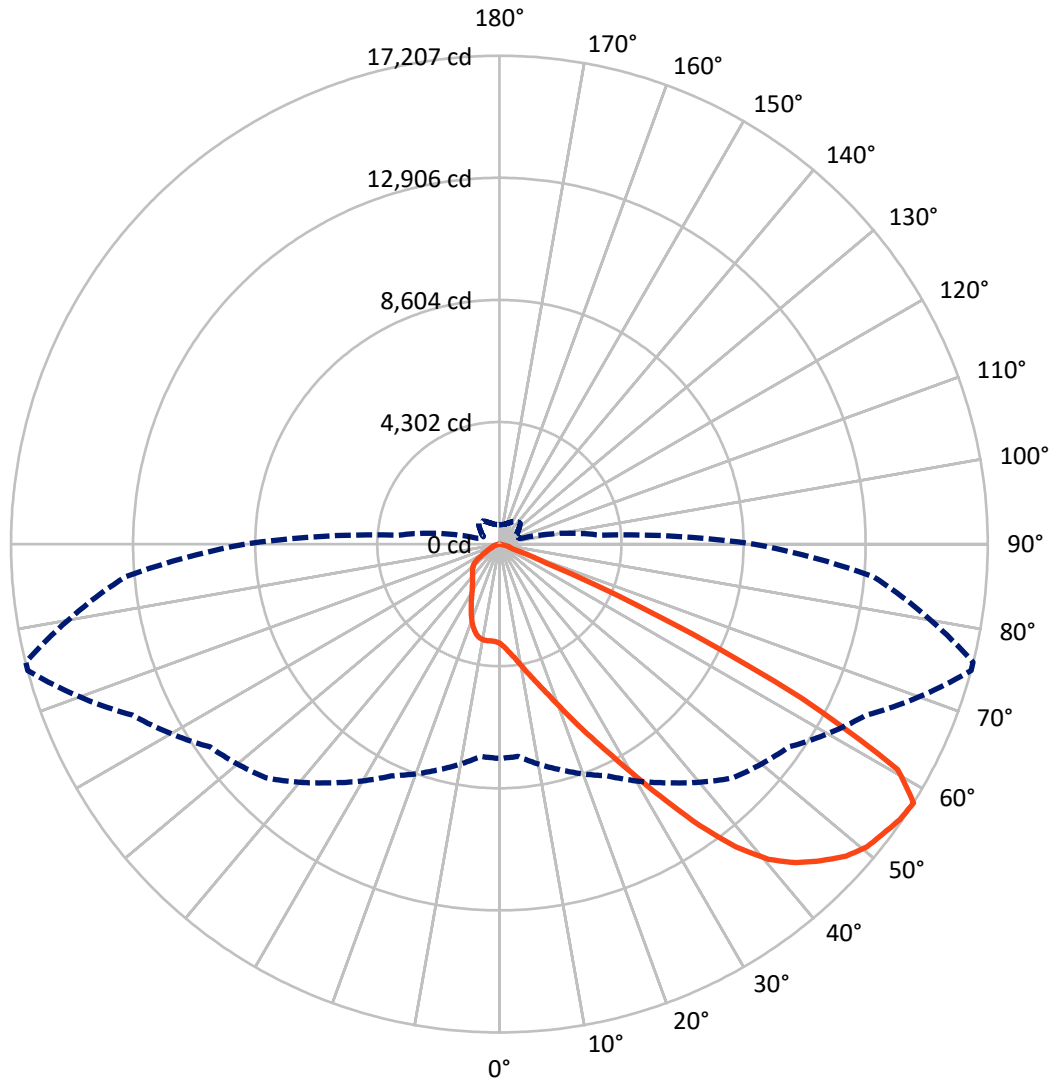
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3428.1 | 0.0 | 3428.1 |
| | % Fixture | 16.3 | 0.0 | 16.3 |
| Street Side | Lumens | 17558.3 | 0.0 | 17558.3 |
| | % Fixture | 83.7 | 0.0 | 83.7 |
| Total | Lumens | 20986.4 | 0.0 | 20986.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 356.2 | 1.7 |
| 10°-20° | 1157.0 | 5.5 |
| 20°-30° | 2118.8 | 10.1 |
| 30°-40° | 3515.2 | 16.8 |
| 40°-50° | 5368.6 | 25.6 |
| 50°-60° | 6032.6 | 28.7 |
| 60°-70° | 2225.1 | 10.6 |
| 70°-80° | 212.7 | 1.0 |
| 80°-90° | 0.2 | 0.0 |
| 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° | 20986.4 | 100.0 |
| 0°-180° | 20986.4 | 100.0 |

Coefficient of Utilization



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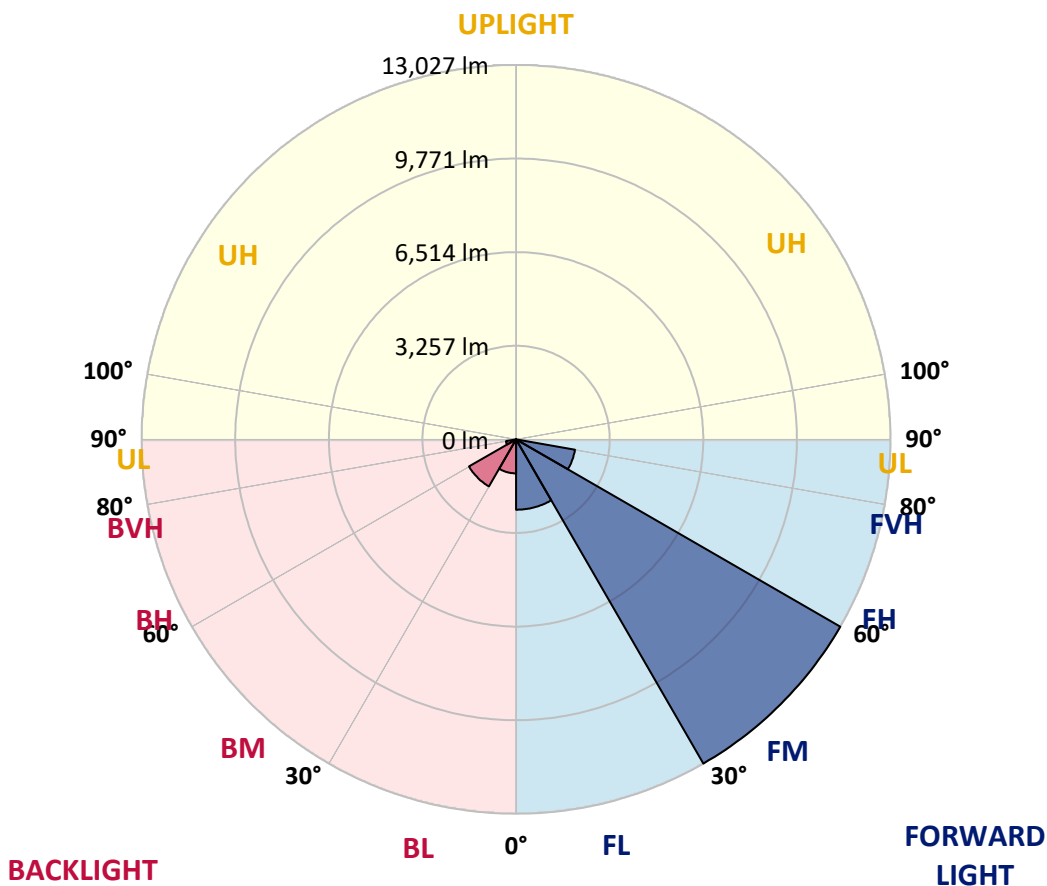
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2449.1 | 11.7 | | | |
| FM (30°-60°) | 13027.4 | 62.1 | | | |
| FH (60°-80°) | 2081.8 | 9.9 | | | G2/5000 |
| FVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1182.9 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 1889.1 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 356.0 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 |
| 2.5° | 3910.5 | 3951.1 | 3938.4 | 3913.1 | 3897.9 | 3844.7 | 3811.8 | 3715.5 | 3647.1 | 3639.5 | 3576.2 |
| 5° | 4404.4 | 4396.8 | 4386.7 | 4356.3 | 4331.0 | 4247.4 | 4148.6 | 3986.5 | 3842.2 | 3824.4 | 3690.2 |
| 7.5° | 4675.4 | 4680.5 | 4685.6 | 4680.5 | 4662.8 | 4599.4 | 4490.5 | 4300.6 | 4080.2 | 4065.0 | 3852.3 |
| 10° | 4786.9 | 4797.0 | 4822.3 | 4870.4 | 4913.5 | 4908.4 | 4845.1 | 4650.1 | 4379.1 | 4353.8 | 4067.6 |
| 12.5° | 4840.1 | 4852.7 | 4893.2 | 4984.4 | 5100.9 | 5192.1 | 5202.2 | 5027.5 | 4728.6 | 4688.1 | 4323.4 |
| 15° | 4913.5 | 4926.2 | 4976.8 | 5095.9 | 5265.6 | 5445.4 | 5561.9 | 5450.4 | 5116.1 | 5073.1 | 4604.5 |
| 17.5° | 4946.4 | 4964.2 | 5037.6 | 5194.6 | 5415.0 | 5691.1 | 5954.5 | 5944.3 | 5574.5 | 5541.6 | 4931.2 |
| 20° | 5009.7 | 5022.4 | 5088.3 | 5258.0 | 5523.9 | 5921.5 | 6364.8 | 6524.3 | 6134.3 | 6086.2 | 5326.3 |
| 22.5° | 5209.8 | 5214.9 | 5245.3 | 5351.7 | 5599.9 | 6088.7 | 6782.7 | 7200.6 | 6795.3 | 6732.0 | 5769.6 |
| 25° | 5536.6 | 5534.0 | 5546.7 | 5564.4 | 5746.8 | 6258.4 | 7185.4 | 7962.9 | 7552.6 | 7484.2 | 6271.1 |
| 27.5° | 5951.9 | 5951.9 | 5982.3 | 5931.7 | 6005.1 | 6468.6 | 7583.0 | 8839.2 | 8434.0 | 8337.8 | 6820.7 |
| 30° | 6440.7 | 6438.2 | 6509.1 | 6428.1 | 6450.9 | 6800.4 | 8011.0 | 9794.1 | 9497.8 | 9378.7 | 7453.8 |
| 32.5° | 7104.3 | 7089.1 | 7170.2 | 7058.7 | 6982.7 | 7301.9 | 8532.8 | 10792.0 | 10771.7 | 10589.4 | 8249.1 |
| 35° | 7942.7 | 7917.3 | 7942.7 | 7833.7 | 7697.0 | 8003.4 | 9216.6 | 11787.3 | 12185.0 | 11992.5 | 9196.4 |
| 37.5° | 8775.9 | 8857.0 | 8884.8 | 8697.4 | 8586.0 | 8892.4 | 10039.8 | 12678.9 | 13534.9 | 13334.8 | 10181.6 |
| 40° | 9758.6 | 9733.3 | 9829.5 | 9619.3 | 9548.4 | 9887.8 | 10845.2 | 13342.4 | 14603.7 | 14413.8 | 11057.9 |
| 42.5° | 10483.0 | 10528.6 | 10647.6 | 10531.1 | 10475.4 | 10794.5 | 11521.4 | 13730.0 | 15345.8 | 15158.4 | 11683.5 |
| 45° | 11351.7 | 11384.6 | 11430.2 | 11334.0 | 11275.7 | 11589.8 | 12010.2 | 13899.6 | 15910.6 | 15708.0 | 12103.9 |
| 47.5° | 12291.4 | 12316.7 | 12316.7 | 12119.1 | 11931.7 | 12060.9 | 12337.0 | 13995.9 | 16429.8 | 16234.8 | 12415.5 |
| 50° | 12965.1 | 12977.7 | 13089.2 | 12949.9 | 12542.1 | 12342.0 | 12486.4 | 14089.6 | 16774.3 | 16591.9 | 12516.8 |
| 52.5° | 12367.3 | 12352.1 | 12719.4 | 13008.1 | 13117.0 | 12719.4 | 12744.7 | 14226.4 | 16941.5 | 16784.4 | 12597.8 |
| 55° | 10414.6 | 10389.3 | 10906.0 | 11607.5 | 12567.4 | 13076.5 | 13056.2 | 14307.4 | 17126.4 | 17030.1 | 12891.6 |
| 57.5° | 7550.1 | 7507.0 | 8226.3 | 9006.4 | 10265.2 | 11645.5 | 12456.0 | 14261.8 | 17207.4 | 17199.8 | 13233.5 |
| 60° | 4538.7 | 4503.2 | 5182.0 | 6002.6 | 6975.2 | 8363.1 | 9708.0 | 12775.1 | 16123.4 | 16138.6 | 12344.5 |
| 62.5° | 2793.6 | 2826.5 | 3439.5 | 3857.4 | 4219.5 | 4637.4 | 5415.0 | 8593.6 | 11944.4 | 12043.2 | 8674.6 |
| 65° | 1879.3 | 1904.6 | 2471.9 | 2998.8 | 2998.8 | 2451.7 | 2104.7 | 4108.1 | 6372.4 | 6205.2 | 4103.0 |
| 67.5° | 1261.3 | 1289.2 | 1737.5 | 2352.9 | 2441.6 | 1709.6 | 853.5 | 1225.8 | 1775.4 | 1722.3 | 1015.6 |
| 70° | 742.1 | 772.5 | 1157.5 | 1613.4 | 1778.0 | 1190.4 | 569.9 | 519.2 | 504.0 | 488.8 | 395.1 |
| 72.5° | 331.8 | 344.5 | 590.1 | 820.6 | 749.7 | 501.5 | 402.7 | 415.4 | 392.6 | 385.0 | 321.7 |
| 75° | 101.3 | 106.4 | 152.0 | 177.3 | 179.8 | 179.8 | 243.1 | 326.7 | 309.0 | 311.5 | 248.2 |
| 77.5° | 25.3 | 25.3 | 40.5 | 38.0 | 20.3 | 17.7 | 45.6 | 73.4 | 76.0 | 68.4 | 50.7 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 | 3500.2 |
| 2.5° | 3548.4 | 3482.5 | 3439.5 | 3378.7 | 3335.6 | 3290.0 | 3249.5 | 3216.6 | 3198.8 | 3193.8 | 3196.3 |
| 5° | 3629.4 | 3525.6 | 3424.3 | 3307.8 | 3226.7 | 3150.7 | 3089.9 | 3041.8 | 3019.0 | 3011.4 | 3011.4 |
| 7.5° | 3753.5 | 3609.1 | 3429.3 | 3247.0 | 3110.2 | 2991.2 | 2920.2 | 2867.1 | 2846.8 | 2841.7 | 2826.5 |
| 10° | 3915.6 | 3718.1 | 3421.7 | 3138.1 | 2945.6 | 2821.5 | 2770.8 | 2755.6 | 2763.2 | 2765.7 | 2763.2 |
| 12.5° | 4110.6 | 3832.0 | 3373.6 | 2978.5 | 2770.8 | 2694.8 | 2699.9 | 2740.4 | 2786.0 | 2808.8 | 2813.9 |
| 15° | 4318.3 | 3935.9 | 3264.7 | 2788.5 | 2621.4 | 2618.8 | 2692.3 | 2786.0 | 2874.7 | 2912.6 | 2922.8 |
| 17.5° | 4551.3 | 4019.4 | 3097.5 | 2585.9 | 2492.2 | 2565.7 | 2697.4 | 2841.7 | 2960.8 | 3024.1 | 3036.7 |
| 20° | 4807.1 | 4087.8 | 2884.8 | 2396.0 | 2378.2 | 2509.9 | 2692.3 | 2869.6 | 3016.5 | 3087.4 | 3100.1 |
| 22.5° | 5073.1 | 4136.0 | 2639.1 | 2221.2 | 2274.4 | 2446.6 | 2644.2 | 2816.4 | 2955.7 | 3036.7 | 3046.9 |
| 25° | 5377.0 | 4141.0 | 2388.4 | 2074.3 | 2178.2 | 2360.5 | 2527.7 | 2669.5 | 2786.0 | 2856.9 | 2864.5 |
| 27.5° | 5642.9 | 4080.2 | 2165.5 | 1955.3 | 2089.5 | 2254.1 | 2365.6 | 2444.1 | 2525.1 | 2565.7 | 2568.2 |
| 30° | 5949.4 | 3973.9 | 1955.3 | 1859.0 | 1998.3 | 2122.4 | 2178.2 | 2195.9 | 2203.5 | 2211.1 | 2200.9 |
| 32.5° | 6314.1 | 3844.7 | 1798.2 | 1765.3 | 1894.5 | 1978.1 | 1993.3 | 1957.8 | 1914.7 | 1854.0 | 1838.8 |
| 35° | 6762.4 | 3728.2 | 1669.1 | 1674.1 | 1780.5 | 1831.2 | 1818.5 | 1742.5 | 1658.9 | 1585.5 | 1572.8 |
| 37.5° | 7248.7 | 3629.4 | 1570.3 | 1585.5 | 1656.4 | 1691.9 | 1653.9 | 1570.3 | 1532.3 | 1469.0 | 1471.5 |
| 40° | 7679.3 | 3548.4 | 1481.6 | 1496.8 | 1529.8 | 1562.7 | 1501.9 | 1446.2 | 1517.1 | 1512.0 | 1517.1 |
| 42.5° | 7985.7 | 3480.0 | 1405.7 | 1398.1 | 1420.9 | 1443.7 | 1398.1 | 1370.2 | 1489.2 | 1456.3 | 1474.1 |
| 45° | 8165.5 | 3416.7 | 1342.3 | 1296.8 | 1332.2 | 1372.7 | 1342.3 | 1306.9 | 1347.4 | 1195.5 | 1182.8 |
| 47.5° | 8287.1 | 3381.2 | 1286.6 | 1198.0 | 1261.3 | 1332.2 | 1268.9 | 1182.8 | 1124.5 | 992.8 | 982.7 |
| 50° | 8299.8 | 3363.5 | 1220.8 | 1096.7 | 1177.7 | 1253.7 | 1180.3 | 1061.2 | 977.6 | 919.4 | 911.8 |
| 52.5° | 8365.6 | 3398.9 | 1129.6 | 967.5 | 1056.2 | 1177.7 | 1127.1 | 1008.0 | 894.1 | 843.4 | 833.3 |
| 55° | 8659.4 | 3548.4 | 977.6 | 790.2 | 919.4 | 1119.5 | 1084.0 | 899.1 | 790.2 | 759.8 | 752.2 |
| 57.5° | 8963.3 | 3578.8 | 770.0 | 625.6 | 800.3 | 1035.9 | 990.3 | 828.2 | 721.8 | 686.4 | 678.8 |
| 60° | 8195.9 | 2948.1 | 577.5 | 516.7 | 706.6 | 957.4 | 916.8 | 785.1 | 661.0 | 618.0 | 610.4 |
| 62.5° | 5384.6 | 1593.1 | 458.4 | 438.2 | 595.2 | 810.5 | 835.8 | 709.2 | 590.1 | 544.5 | 542.0 |
| 65° | 2482.1 | 739.6 | 352.1 | 347.0 | 466.0 | 645.8 | 719.3 | 620.5 | 498.9 | 458.4 | 458.4 |
| 67.5° | 676.2 | 367.2 | 276.1 | 255.8 | 316.6 | 433.1 | 524.3 | 463.5 | 354.6 | 306.5 | 303.9 |
| 70° | 336.9 | 296.3 | 248.2 | 220.3 | 227.9 | 268.5 | 309.0 | 258.3 | 179.8 | 146.9 | 144.4 |
| 72.5° | 276.1 | 243.1 | 210.2 | 187.4 | 172.2 | 164.6 | 159.6 | 129.2 | 83.6 | 63.3 | 60.8 |
| 75° | 205.2 | 174.8 | 149.4 | 121.6 | 103.8 | 96.2 | 86.1 | 63.3 | 35.5 | 20.3 | 17.7 |
| 77.5° | 45.6 | 43.1 | 40.5 | 30.4 | 27.9 | 22.8 | 17.7 | 12.7 | 5.1 | 0.0 | 0.0 |
| 80° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)