

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: P637291

Luminaire Tested: GWS-SA4C-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17018.8 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

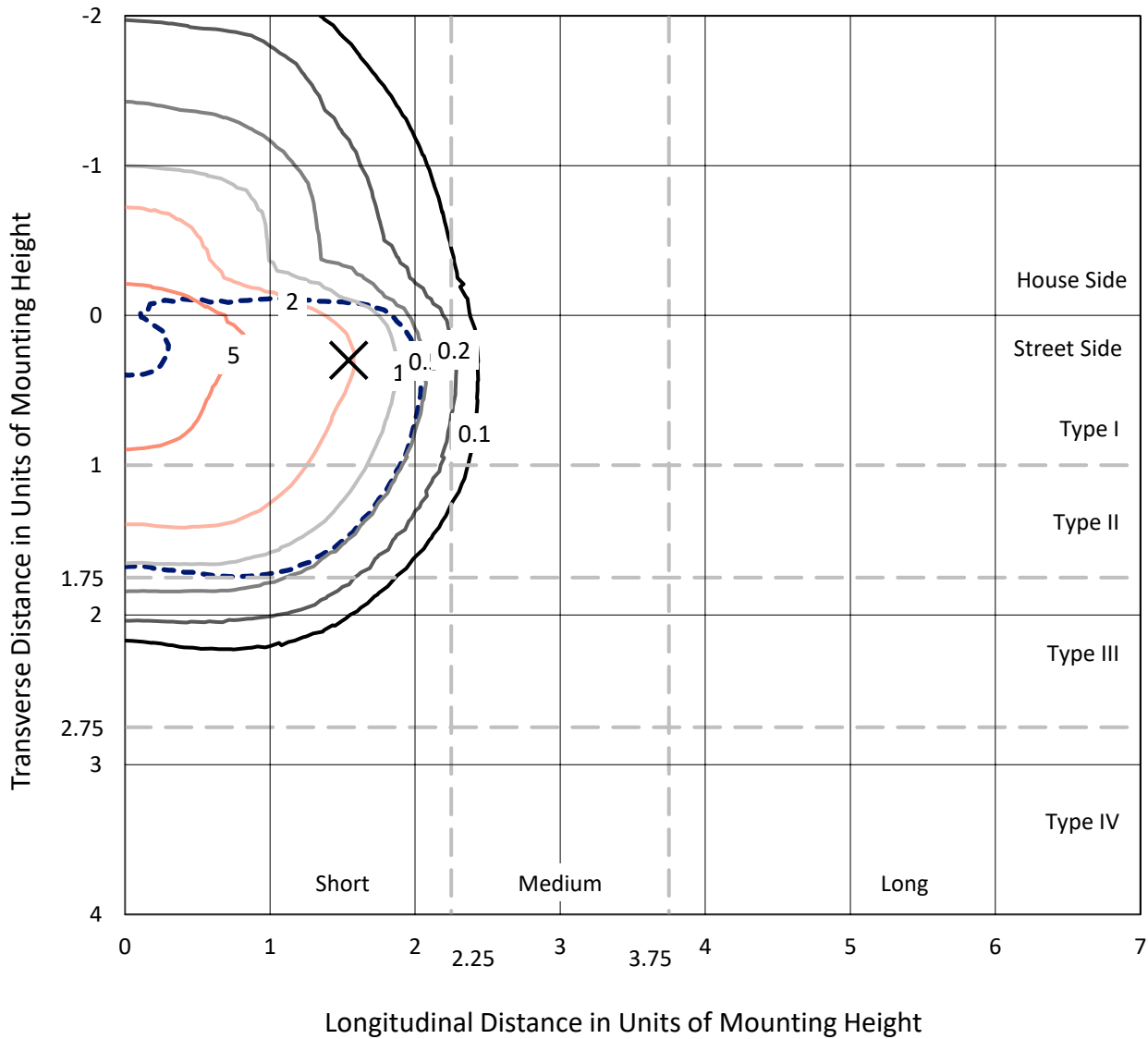
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

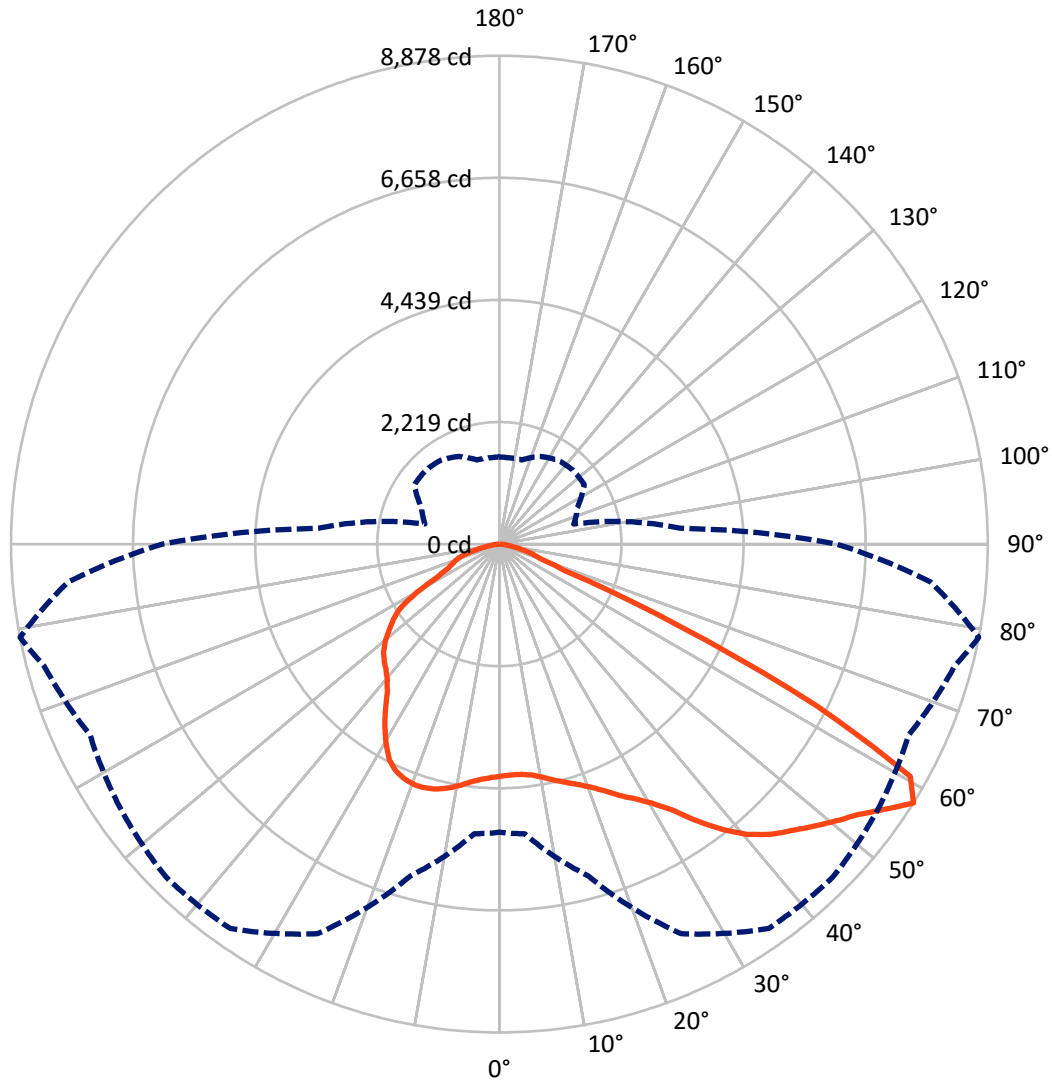
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5058.9 | 0.0 | 5058.9 |
| | % Fixture | 29.7 | 0.0 | 29.7 |
| Street Side | Lumens | 11959.9 | 0.0 | 11959.9 |
| | % Fixture | 70.3 | 0.0 | 70.3 |
| Total | Lumens | 17018.8 | 0.0 | 17018.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 390.6 | 2.3 |
| 10°-20° | 1085.4 | 6.4 |
| 20°-30° | 1839.9 | 10.8 |
| 30°-40° | 2816.2 | 16.5 |
| 40°-50° | 3755.1 | 22.1 |
| 50°-60° | 4336.9 | 25.5 |
| 60°-70° | 2253.6 | 13.2 |
| 70°-80° | 479.1 | 2.8 |
| 80°-90° | 62.0 | 0.4 |
| 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° | 17018.8 | 100.0 |
| 0°-180° | 17018.8 | 100.0 |

Coefficient of Utilization



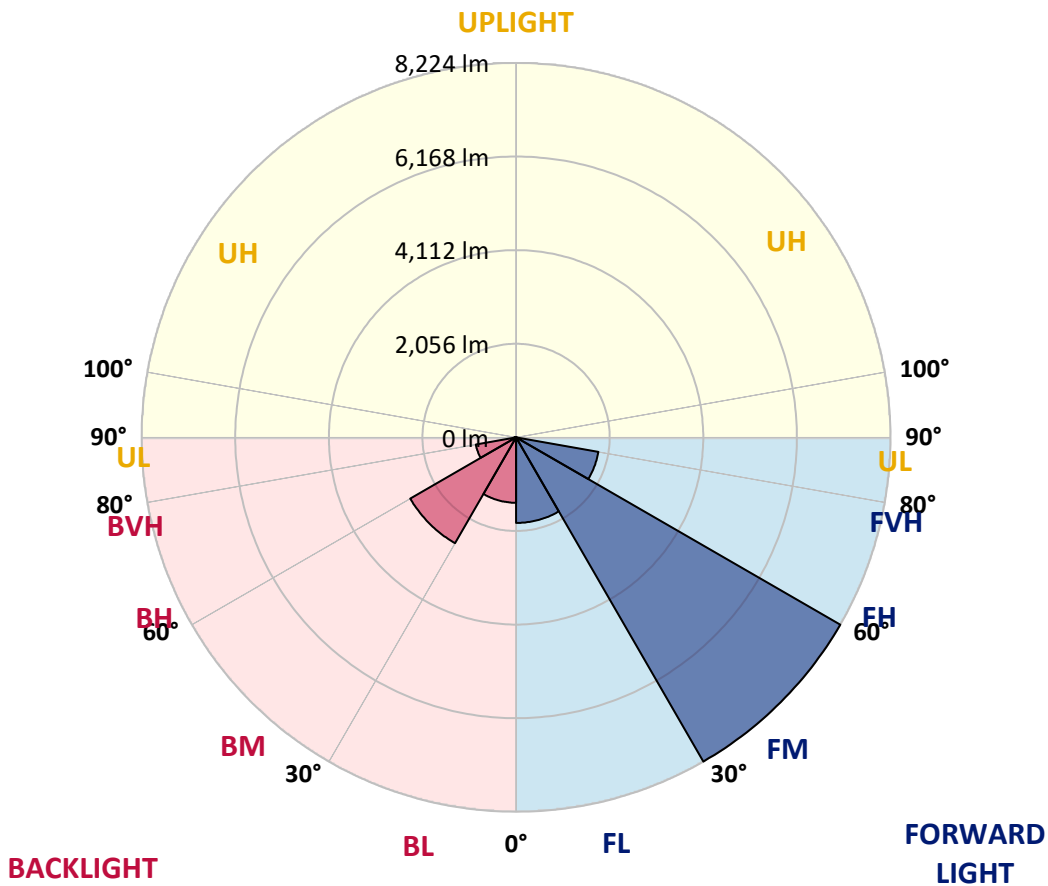
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1879.3 | 11.0 | | | |
| FM (30°-60°) | 8224.0 | 48.3 | | | |
| FH (60°-80°) | 1835.0 | 10.8 | | | G2/5000 |
| FVH (80°-90°) | 21.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1436.7 | 8.4 | B3/2500 | | |
| BM (30°-60°) | 2684.2 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 897.6 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 40.4 | 0.2 | | | G1/100 |
| 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° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 |
| 2.5° | 4025.6 | 4017.3 | 4020.1 | 4031.2 | 4072.9 | 4103.5 | 4135.6 | 4164.8 | 4192.6 | 4201.0 | 4207.9 |
| 5° | 3882.3 | 3867.0 | 3871.2 | 3889.3 | 3938.0 | 3989.4 | 4046.5 | 4116.1 | 4182.9 | 4205.1 | 4234.4 |
| 7.5° | 3780.7 | 3777.9 | 3784.9 | 3812.7 | 3864.2 | 3912.9 | 3986.7 | 4085.5 | 4201.0 | 4238.5 | 4290.0 |
| 10° | 3645.7 | 3640.2 | 3668.0 | 3725.1 | 3809.9 | 3887.9 | 3975.5 | 4092.4 | 4253.8 | 4309.5 | 4388.8 |
| 12.5° | 3538.6 | 3535.8 | 3565.0 | 3644.4 | 3752.9 | 3876.7 | 3997.8 | 4128.6 | 4324.8 | 4401.3 | 4498.7 |
| 15° | 3601.2 | 3588.7 | 3590.1 | 3645.7 | 3743.1 | 3889.3 | 4053.5 | 4194.0 | 4395.8 | 4493.2 | 4618.4 |
| 17.5° | 3783.5 | 3761.2 | 3744.5 | 3754.3 | 3809.9 | 3961.6 | 4138.3 | 4281.7 | 4477.9 | 4592.0 | 4745.0 |
| 20° | 4035.4 | 4022.8 | 3976.9 | 3946.3 | 3958.8 | 4092.4 | 4271.9 | 4405.5 | 4585.0 | 4713.0 | 4877.2 |
| 22.5° | 4373.5 | 4342.9 | 4280.3 | 4231.6 | 4194.0 | 4298.4 | 4463.9 | 4579.4 | 4733.9 | 4867.5 | 5038.6 |
| 25° | 4792.3 | 4747.8 | 4649.0 | 4572.5 | 4491.8 | 4598.9 | 4746.4 | 4834.1 | 4938.5 | 5062.3 | 5225.1 |
| 27.5° | 5219.5 | 5182.0 | 5072.0 | 4969.1 | 4868.9 | 4935.7 | 5111.0 | 5161.1 | 5150.0 | 5240.4 | 5379.6 |
| 30° | 5674.6 | 5627.2 | 5522.9 | 5411.6 | 5282.2 | 5325.3 | 5482.5 | 5507.6 | 5389.3 | 5464.4 | 5559.1 |
| 32.5° | 6154.6 | 6108.7 | 6018.3 | 5888.8 | 5742.7 | 5759.4 | 5802.6 | 5826.2 | 5713.5 | 5756.7 | 5829.0 |
| 35° | 6643.0 | 6599.9 | 6508.1 | 6380.1 | 6272.9 | 6171.3 | 6062.8 | 6157.4 | 6092.0 | 6175.5 | 6169.9 |
| 37.5° | 7089.7 | 7046.6 | 6989.5 | 6890.7 | 6707.1 | 6506.7 | 6256.2 | 6373.1 | 6474.7 | 6580.4 | 6562.3 |
| 40° | 7391.7 | 7362.5 | 7376.4 | 7361.1 | 7124.5 | 6727.9 | 6350.8 | 6478.8 | 6755.8 | 6936.7 | 6926.9 |
| 42.5° | 7651.9 | 7622.7 | 7703.4 | 7761.8 | 7483.5 | 6932.5 | 6396.7 | 6519.2 | 6935.3 | 7217.7 | 7203.8 |
| 45° | 7767.4 | 7759.0 | 7892.6 | 8077.7 | 7811.9 | 7149.6 | 6515.0 | 6602.7 | 7071.6 | 7433.4 | 7380.5 |
| 47.5° | 7629.6 | 7658.8 | 7921.8 | 8234.9 | 8084.6 | 7407.0 | 6757.1 | 6779.4 | 7249.7 | 7667.2 | 7518.3 |
| 50° | 7355.5 | 7419.5 | 7774.3 | 8239.1 | 8283.6 | 7697.8 | 7092.5 | 7036.8 | 7489.1 | 7916.3 | 7590.7 |
| 52.5° | 6956.1 | 7022.9 | 7601.8 | 8207.1 | 8397.7 | 8034.6 | 7539.2 | 7459.9 | 7791.0 | 8165.4 | 7603.2 |
| 55° | 6039.1 | 6129.6 | 7206.6 | 8134.7 | 8509.1 | 8340.7 | 8042.9 | 7881.5 | 8180.7 | 8507.7 | 7727.0 |
| 57.5° | 5239.0 | 5286.3 | 6243.7 | 7813.3 | 8531.3 | 8566.1 | 8401.9 | 8209.9 | 8567.5 | 8877.8 | 7866.2 |
| 60° | 3844.7 | 3855.9 | 4717.2 | 6464.9 | 7848.1 | 8435.3 | 8372.7 | 8087.4 | 8383.8 | 8581.4 | 7228.9 |
| 62.5° | 2172.1 | 2173.5 | 2860.9 | 4315.1 | 5862.4 | 6875.4 | 6914.4 | 6662.5 | 6413.4 | 6471.9 | 5031.7 |
| 65° | 815.4 | 892.0 | 1306.6 | 2120.7 | 3380.0 | 4059.0 | 4220.4 | 4278.9 | 3864.2 | 3606.8 | 2698.1 |
| 67.5° | 545.5 | 563.6 | 762.5 | 1090.9 | 1504.2 | 1736.6 | 1942.5 | 1948.1 | 1424.9 | 1270.4 | 1063.1 |
| 70° | 416.1 | 434.1 | 599.7 | 780.6 | 762.5 | 704.1 | 761.2 | 740.3 | 765.3 | 786.2 | 808.5 |
| 72.5° | 310.3 | 328.4 | 464.8 | 551.0 | 457.8 | 450.8 | 510.7 | 567.7 | 620.6 | 642.9 | 677.7 |
| 75° | 205.9 | 219.9 | 313.1 | 295.0 | 253.3 | 299.2 | 372.9 | 430.0 | 460.6 | 487.0 | 513.5 |
| 77.5° | 130.8 | 140.5 | 167.0 | 135.0 | 140.5 | 175.3 | 217.1 | 268.6 | 297.8 | 324.2 | 338.1 |
| 80° | 59.8 | 58.4 | 57.1 | 64.0 | 79.3 | 103.0 | 130.8 | 161.4 | 183.7 | 194.8 | 203.2 |
| 82.5° | 23.7 | 26.4 | 29.2 | 34.8 | 43.1 | 55.7 | 73.7 | 94.6 | 112.7 | 115.5 | 122.5 |
| 85° | 9.7 | 11.1 | 12.5 | 15.3 | 19.5 | 25.0 | 30.6 | 43.1 | 54.3 | 58.4 | 62.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 2.8 | 4.2 | 7.0 | 12.5 | 13.9 | 15.3 |
| 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° | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 | 4217.7 |
| 2.5° | 4245.5 | 4227.4 | 4258.0 | 4278.9 | 4298.4 | 4277.5 | 4270.5 | 4252.4 | 4249.7 | 4249.7 | 4259.4 |
| 5° | 4284.4 | 4271.9 | 4303.9 | 4316.4 | 4315.1 | 4269.1 | 4241.3 | 4205.1 | 4187.0 | 4187.0 | 4189.8 |
| 7.5° | 4354.0 | 4347.1 | 4365.2 | 4345.7 | 4301.1 | 4207.9 | 4116.1 | 4039.5 | 3988.1 | 3961.6 | 3970.0 |
| 10° | 4469.5 | 4461.2 | 4445.9 | 4373.5 | 4245.5 | 4052.1 | 3864.2 | 3725.1 | 3641.6 | 3594.3 | 3597.0 |
| 12.5° | 4582.2 | 4568.3 | 4514.0 | 4354.0 | 4091.0 | 3783.5 | 3537.2 | 3381.4 | 3289.5 | 3233.9 | 3221.3 |
| 15° | 4706.1 | 4669.9 | 4553.0 | 4253.8 | 3839.2 | 3455.1 | 3197.7 | 3029.3 | 2930.5 | 2897.1 | 2895.7 |
| 17.5° | 4824.3 | 4760.3 | 4548.8 | 4075.7 | 3537.2 | 3111.4 | 2852.6 | 2748.2 | 2731.5 | 2746.8 | 2751.0 |
| 20° | 4944.0 | 4841.0 | 4502.9 | 3829.4 | 3178.2 | 2769.1 | 2635.5 | 2678.6 | 2741.3 | 2783.0 | 2792.8 |
| 22.5° | 5067.9 | 4907.8 | 4398.5 | 3512.2 | 2799.7 | 2538.1 | 2593.8 | 2688.4 | 2766.3 | 2822.0 | 2827.5 |
| 25° | 5207.0 | 4970.5 | 4242.7 | 3123.9 | 2496.4 | 2474.1 | 2584.0 | 2684.2 | 2767.7 | 2831.7 | 2842.8 |
| 27.5° | 5286.3 | 4971.8 | 4024.2 | 2724.6 | 2357.2 | 2449.0 | 2560.4 | 2655.0 | 2738.5 | 2808.1 | 2820.6 |
| 30° | 5364.3 | 4934.3 | 3677.7 | 2400.3 | 2316.9 | 2419.8 | 2520.0 | 2607.7 | 2687.0 | 2755.2 | 2770.5 |
| 32.5° | 5474.2 | 4899.5 | 3278.4 | 2213.9 | 2293.2 | 2392.0 | 2474.1 | 2552.0 | 2613.2 | 2643.9 | 2652.2 |
| 35° | 5610.5 | 4855.0 | 2854.0 | 2133.2 | 2277.9 | 2369.7 | 2442.1 | 2483.8 | 2404.5 | 2387.8 | 2405.9 |
| 37.5° | 5801.2 | 4813.2 | 2431.0 | 2098.4 | 2268.2 | 2361.4 | 2425.4 | 2318.2 | 2220.8 | 2181.9 | 2195.8 |
| 40° | 6007.1 | 4789.6 | 2144.3 | 2070.6 | 2272.3 | 2369.7 | 2355.8 | 2197.2 | 2056.6 | 1974.5 | 1971.8 |
| 42.5° | 6182.5 | 4753.4 | 1960.6 | 2052.5 | 2283.5 | 2401.7 | 2261.2 | 2090.0 | 1881.3 | 1832.6 | 1834.0 |
| 45° | 6300.7 | 4661.5 | 1863.2 | 2033.0 | 2293.2 | 2408.7 | 2216.7 | 1942.5 | 1793.7 | 1763.0 | 1761.6 |
| 47.5° | 6349.4 | 4494.6 | 1800.6 | 2002.4 | 2291.8 | 2351.6 | 2126.2 | 1881.3 | 1732.4 | 1724.1 | 1729.6 |
| 50° | 6317.4 | 4220.4 | 1736.6 | 1942.5 | 2258.4 | 2291.8 | 2021.9 | 1827.0 | 1690.7 | 1736.6 | 1770.0 |
| 52.5° | 6199.2 | 3865.6 | 1660.1 | 1860.4 | 2198.6 | 2223.6 | 1969.0 | 1793.7 | 1660.1 | 1721.3 | 1747.7 |
| 55° | 6168.5 | 3577.6 | 1562.7 | 1753.3 | 2109.5 | 2102.6 | 1913.3 | 1777.0 | 1639.2 | 1615.5 | 1619.7 |
| 57.5° | 6128.2 | 3296.5 | 1401.2 | 1561.3 | 1884.1 | 1895.2 | 1860.4 | 1757.5 | 1584.9 | 1578.0 | 1584.9 |
| 60° | 5323.9 | 2527.0 | 1249.6 | 1347.0 | 1547.4 | 1607.2 | 1800.6 | 1721.3 | 1497.3 | 1468.0 | 1466.6 |
| 62.5° | 3477.4 | 1530.7 | 1111.8 | 1174.4 | 1260.7 | 1330.3 | 1642.0 | 1616.9 | 1401.2 | 1383.2 | 1395.7 |
| 65° | 1870.2 | 1090.9 | 1011.6 | 1049.2 | 1096.5 | 1149.4 | 1360.9 | 1440.2 | 1266.3 | 1202.3 | 1203.7 |
| 67.5° | 956.0 | 928.1 | 936.5 | 962.9 | 999.1 | 1025.5 | 1097.9 | 1167.5 | 1079.8 | 1025.5 | 1024.1 |
| 70° | 818.2 | 840.5 | 853.0 | 868.3 | 892.0 | 887.8 | 894.7 | 907.3 | 900.3 | 873.9 | 872.5 |
| 72.5° | 697.1 | 731.9 | 734.7 | 737.5 | 745.8 | 726.4 | 713.8 | 693.0 | 694.4 | 698.5 | 699.9 |
| 75° | 530.2 | 563.6 | 571.9 | 567.7 | 576.1 | 551.0 | 534.3 | 513.5 | 488.4 | 484.2 | 487.0 |
| 77.5° | 345.1 | 371.5 | 384.1 | 381.3 | 385.4 | 366.0 | 357.6 | 335.4 | 306.1 | 295.0 | 295.0 |
| 80° | 208.7 | 224.0 | 233.8 | 236.6 | 240.7 | 226.8 | 212.9 | 193.4 | 180.9 | 168.4 | 168.4 |
| 82.5° | 126.6 | 136.4 | 143.3 | 143.3 | 147.5 | 132.2 | 121.1 | 107.1 | 101.6 | 90.4 | 90.4 |
| 85° | 64.0 | 71.0 | 73.7 | 72.4 | 69.6 | 57.1 | 52.9 | 45.9 | 43.1 | 37.6 | 37.6 |
| 87.5° | 15.3 | 19.5 | 19.5 | 13.9 | 13.9 | 7.0 | 4.2 | 1.4 | 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)