

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: P637280

Luminaire Tested: GWS-SA4C-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14540.5 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

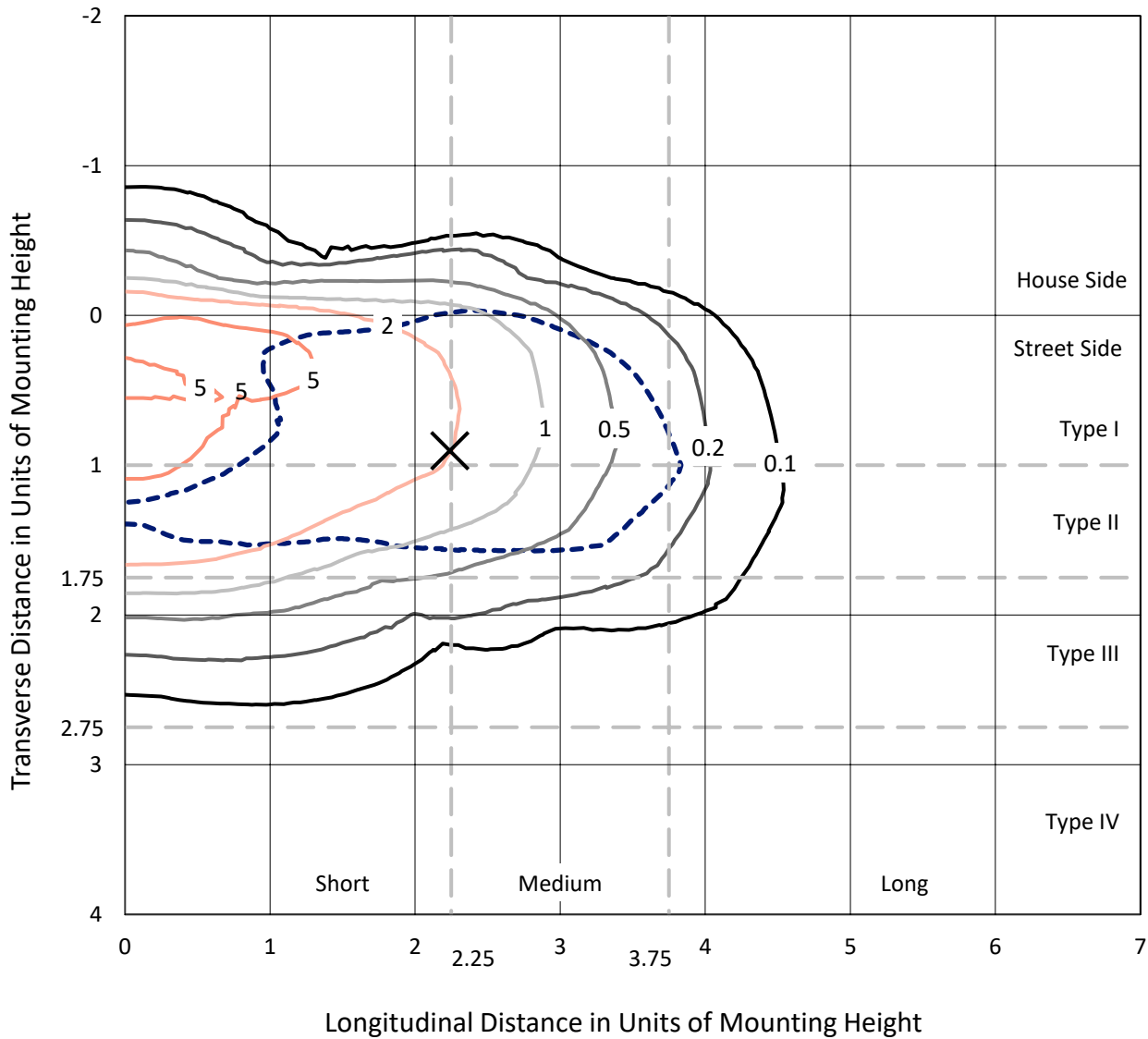
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637280
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Iso-Footcandle Lines of Horizontal Illumination

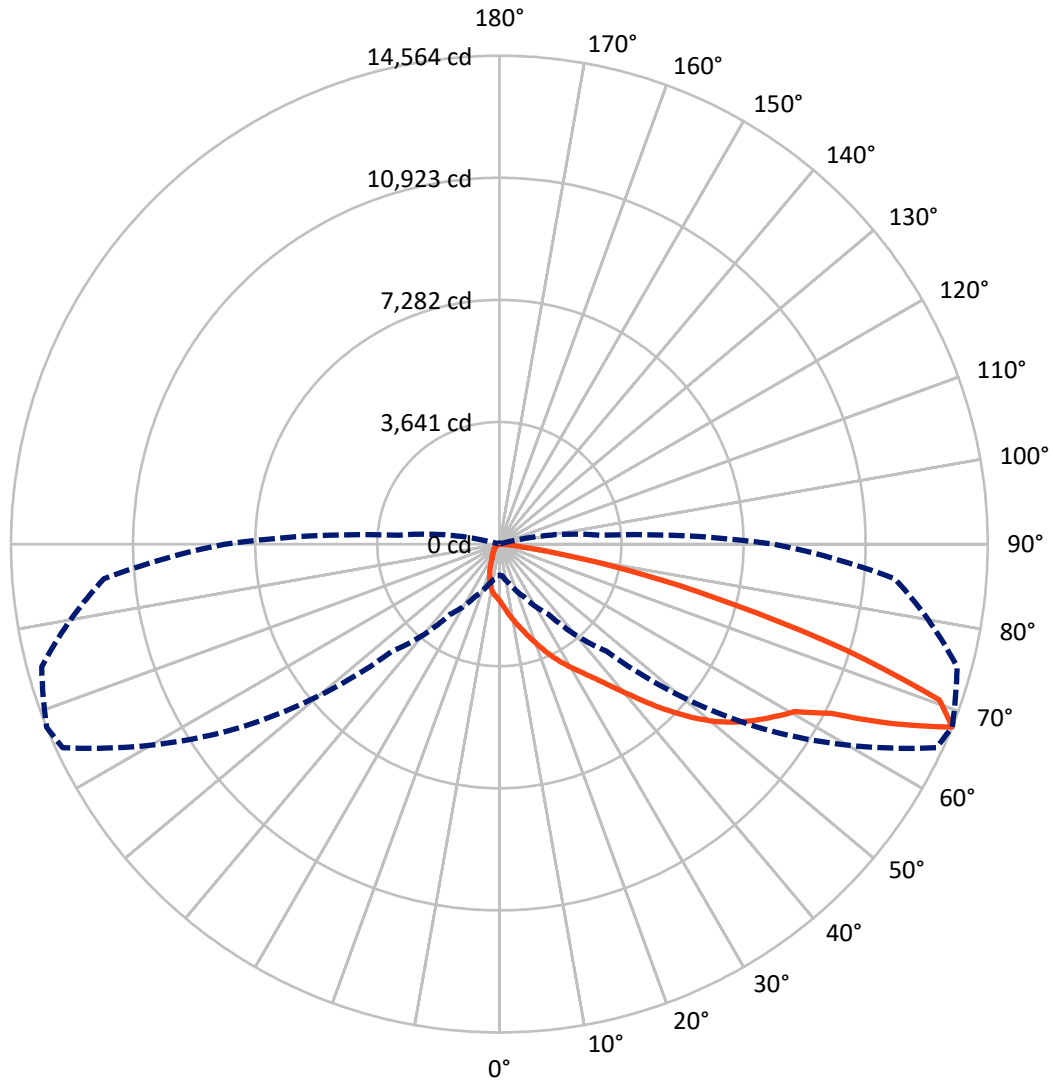
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA4C-740-U-T2-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1050.0 | 0.0 | 1050.0 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 13490.5 | 0.0 | 13490.5 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 14540.5 | 0.0 | 14540.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 165.0 | 1.1 |
| 10°-20° | 473.9 | 3.3 |
| 20°-30° | 814.4 | 5.6 |
| 30°-40° | 1416.0 | 9.7 |
| 40°-50° | 2470.8 | 17.0 |
| 50°-60° | 3726.6 | 25.6 |
| 60°-70° | 3736.8 | 25.7 |
| 70°-80° | 1648.7 | 11.3 |
| 80°-90° | 88.1 | 0.6 |
| 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° | 14540.5 | 100.0 |
| 0°-180° | 14540.5 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P637280

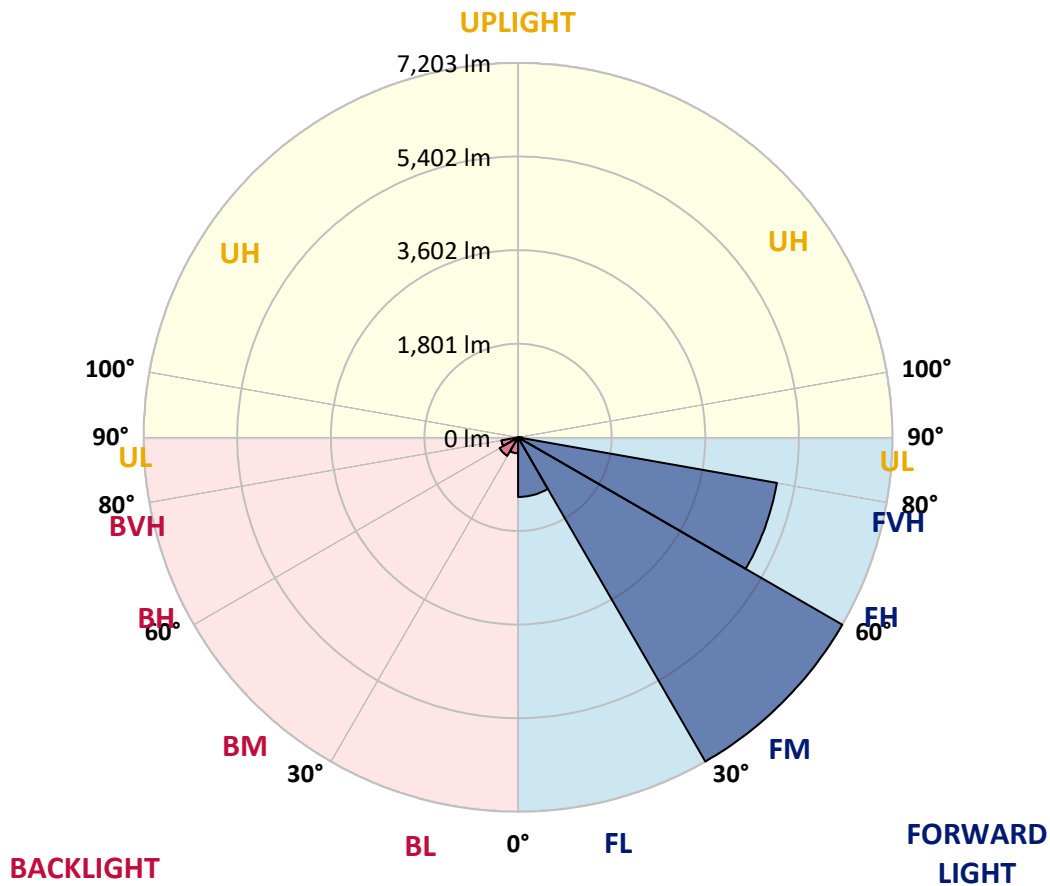
CATALOG NUMBER: GWS-SA4C-740-U-T2-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1146.2 | 7.9 | | | |
| FM (30°-60°) | 7203.3 | 49.5 | | | |
| FH (60°-80°) | 5057.8 | 34.8 | | | G3/7500 |
| FVH (80°-90°) | 83.1 | 0.6 | | | G1/100 |
| BL (0°-30°) | 307.2 | 2.1 | B1/500 | | |
| BM (30°-60°) | 410.1 | 2.8 | B1/1000 | | |
| BH (60°-80°) | 327.7 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type II Short





REPORT NUMBER: P637280

CATALOG NUMBER: GWS-SA4C-740-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 68° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 |
| 2.5° | 1970.5 | 1983.0 | 1970.5 | 1973.2 | 1937.1 | 1920.4 | 1884.2 | 1834.1 | 1821.6 | 1789.6 | 1740.8 |
| 5° | 2211.2 | 2222.3 | 2209.8 | 2207.0 | 2165.3 | 2134.7 | 2074.8 | 1988.5 | 1963.5 | 1900.9 | 1804.9 |
| 7.5° | 2342.0 | 2349.0 | 2353.1 | 2360.1 | 2344.8 | 2319.7 | 2265.5 | 2158.3 | 2131.9 | 2030.3 | 1895.3 |
| 10° | 2355.9 | 2361.5 | 2382.4 | 2424.1 | 2454.7 | 2470.0 | 2439.4 | 2340.6 | 2298.9 | 2200.1 | 2006.6 |
| 12.5° | 2317.0 | 2325.3 | 2358.7 | 2428.3 | 2513.2 | 2591.1 | 2610.6 | 2524.3 | 2486.7 | 2360.1 | 2137.4 |
| 15° | 2265.5 | 2272.4 | 2318.3 | 2413.0 | 2541.0 | 2684.3 | 2765.0 | 2727.5 | 2685.7 | 2553.5 | 2282.2 |
| 17.5° | 2186.2 | 2195.9 | 2259.9 | 2387.9 | 2553.5 | 2758.1 | 2932.0 | 2944.6 | 2915.3 | 2772.0 | 2442.2 |
| 20° | 2141.6 | 2148.6 | 2205.6 | 2337.8 | 2545.2 | 2812.4 | 3087.9 | 3206.2 | 3174.2 | 3023.9 | 2625.9 |
| 22.5° | 2179.2 | 2184.8 | 2222.3 | 2325.3 | 2517.3 | 2843.0 | 3232.6 | 3467.8 | 3449.7 | 3293.8 | 2819.3 |
| 25° | 2376.8 | 2394.9 | 2372.6 | 2390.7 | 2529.9 | 2859.7 | 3349.5 | 3729.4 | 3733.6 | 3576.3 | 3019.7 |
| 27.5° | 2777.6 | 2753.9 | 2701.0 | 2610.6 | 2627.3 | 2904.2 | 3449.7 | 3975.7 | 4011.9 | 3851.9 | 3197.8 |
| 30° | 3185.3 | 3171.4 | 3139.4 | 2998.8 | 2881.9 | 3003.0 | 3534.6 | 4227.6 | 4284.6 | 4123.2 | 3356.5 |
| 32.5° | 3643.1 | 3657.0 | 3600.0 | 3431.6 | 3232.6 | 3203.4 | 3622.2 | 4466.9 | 4574.1 | 4430.7 | 3542.9 |
| 35° | 4190.0 | 4194.2 | 4081.5 | 3895.0 | 3669.6 | 3534.6 | 3779.5 | 4731.3 | 4928.9 | 4823.2 | 3792.0 |
| 37.5° | 4723.0 | 4748.0 | 4686.8 | 4393.2 | 4192.8 | 3946.5 | 4039.7 | 5070.9 | 5349.2 | 5307.4 | 4105.1 |
| 40° | 5194.7 | 5233.7 | 5214.2 | 4930.3 | 4667.3 | 4460.0 | 4443.3 | 5468.9 | 5857.1 | 5904.4 | 4518.4 |
| 42.5° | 5570.4 | 5595.5 | 5610.8 | 5409.0 | 5176.6 | 5059.7 | 4941.5 | 5930.9 | 6456.9 | 6650.3 | 5024.9 |
| 45° | 5967.0 | 5975.4 | 6007.4 | 5871.0 | 5667.8 | 5677.6 | 5530.1 | 6491.7 | 7088.6 | 7476.9 | 5606.6 |
| 47.5° | 6472.2 | 6500.0 | 6484.7 | 6341.4 | 6157.7 | 6267.6 | 6138.2 | 7069.2 | 7712.1 | 8359.1 | 6202.2 |
| 50° | 7087.2 | 7116.5 | 7102.6 | 6935.6 | 6731.0 | 6776.9 | 6696.2 | 7630.0 | 8313.2 | 9191.3 | 6697.6 |
| 52.5° | 7404.5 | 7428.2 | 7600.7 | 7675.9 | 7568.7 | 7276.5 | 7172.1 | 8246.4 | 8821.1 | 9875.9 | 7152.7 |
| 55° | 7251.5 | 7268.2 | 7643.9 | 7961.2 | 8353.6 | 8061.3 | 7650.8 | 8722.3 | 9269.2 | 10410.3 | 7490.8 |
| 57.5° | 6616.9 | 6707.3 | 7218.1 | 7755.2 | 8580.4 | 8836.4 | 8427.3 | 9240.0 | 9700.6 | 10781.9 | 7823.4 |
| 60° | 5315.8 | 5311.6 | 6043.6 | 7007.9 | 8137.9 | 9049.4 | 9523.9 | 9940.0 | 10133.4 | 11067.1 | 8268.7 |
| 62.5° | 2937.6 | 2964.0 | 3938.1 | 5208.6 | 6907.7 | 8498.3 | 10346.3 | 11149.2 | 11120.0 | 11565.3 | 8965.9 |
| 65° | 1462.5 | 1515.4 | 2044.2 | 2983.5 | 4596.3 | 7023.2 | 10488.2 | 12994.4 | 12911.0 | 12738.4 | 10406.1 |
| 67.5° | 928.2 | 949.0 | 1241.3 | 1733.9 | 2554.9 | 4514.2 | 9604.6 | 14370.7 | 14564.1 | 14130.0 | 11835.3 |
| 70° | 601.2 | 635.9 | 862.8 | 1185.6 | 1541.9 | 2326.7 | 7035.8 | 13478.7 | 13922.6 | 13976.9 | 10944.7 |
| 72.5° | 327.0 | 352.1 | 551.1 | 846.1 | 1113.3 | 1163.3 | 3952.0 | 10115.3 | 10829.2 | 11856.1 | 8562.3 |
| 75° | 186.5 | 204.6 | 302.0 | 574.7 | 816.8 | 708.3 | 1752.0 | 6771.4 | 7226.4 | 8473.2 | 6135.4 |
| 77.5° | 112.7 | 128.0 | 169.8 | 279.7 | 512.1 | 473.1 | 662.4 | 4121.8 | 4411.3 | 5055.6 | 3220.1 |
| 80° | 51.5 | 61.2 | 107.2 | 154.5 | 279.7 | 224.0 | 253.3 | 1921.8 | 1984.4 | 2074.8 | 1065.9 |
| 82.5° | 23.7 | 27.8 | 48.7 | 91.8 | 158.6 | 129.4 | 97.4 | 443.9 | 624.8 | 591.4 | 271.4 |
| 85° | 2.8 | 2.8 | 18.1 | 37.6 | 44.5 | 33.4 | 40.4 | 100.2 | 126.6 | 178.1 | 77.9 |
| 87.5° | 0.0 | 0.0 | 1.4 | 1.4 | 2.8 | 4.2 | 8.3 | 12.5 | 18.1 | 29.2 | 19.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P637280

CATALOG NUMBER: GWS-SA4C-740-U-T2-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 | 1692.1 |
| 2.5° | 1718.6 | 1679.6 | 1644.8 | 1593.3 | 1558.6 | 1519.6 | 1493.2 | 1461.1 | 1448.6 | 1438.9 | 1425.0 |
| 5° | 1757.5 | 1694.9 | 1610.0 | 1515.4 | 1437.5 | 1363.7 | 1295.5 | 1251.0 | 1212.1 | 1206.5 | 1187.0 |
| 7.5° | 1821.6 | 1728.3 | 1585.0 | 1430.5 | 1298.3 | 1175.9 | 1079.9 | 1001.9 | 963.0 | 950.4 | 928.2 |
| 10° | 1906.4 | 1778.4 | 1547.4 | 1310.9 | 1120.2 | 974.1 | 865.6 | 777.9 | 716.7 | 694.4 | 677.7 |
| 12.5° | 2001.1 | 1824.3 | 1487.6 | 1163.3 | 946.3 | 779.3 | 641.5 | 548.3 | 509.3 | 495.4 | 482.9 |
| 15° | 2109.6 | 1867.5 | 1393.0 | 1015.8 | 776.5 | 573.3 | 475.9 | 435.6 | 418.9 | 414.7 | 410.5 |
| 17.5° | 2214.0 | 1895.3 | 1280.2 | 862.8 | 597.0 | 445.3 | 399.4 | 384.1 | 379.9 | 375.7 | 372.9 |
| 20° | 2332.3 | 1914.8 | 1148.0 | 718.0 | 463.4 | 377.1 | 354.8 | 343.7 | 335.4 | 327.0 | 325.6 |
| 22.5° | 2453.3 | 1914.8 | 1004.7 | 576.1 | 388.2 | 338.2 | 313.1 | 292.2 | 276.9 | 268.6 | 265.8 |
| 25° | 2568.8 | 1888.4 | 862.8 | 460.6 | 342.3 | 300.6 | 268.6 | 244.9 | 224.0 | 214.3 | 211.5 |
| 27.5° | 2650.9 | 1820.2 | 738.9 | 389.6 | 310.3 | 267.2 | 228.2 | 201.8 | 185.1 | 175.3 | 173.9 |
| 30° | 2702.4 | 1718.6 | 624.8 | 347.9 | 282.5 | 232.4 | 193.4 | 171.2 | 158.6 | 151.7 | 148.9 |
| 32.5° | 2741.4 | 1593.3 | 523.2 | 318.7 | 256.0 | 201.8 | 168.4 | 150.3 | 139.2 | 133.6 | 132.2 |
| 35° | 2819.3 | 1475.1 | 448.1 | 292.2 | 228.2 | 176.7 | 147.5 | 133.6 | 125.2 | 118.3 | 116.9 |
| 37.5° | 2927.9 | 1376.3 | 388.2 | 268.6 | 201.8 | 157.2 | 133.6 | 121.1 | 114.1 | 107.2 | 105.8 |
| 40° | 3087.9 | 1313.6 | 343.7 | 244.9 | 178.1 | 141.9 | 122.5 | 111.3 | 101.6 | 94.6 | 93.2 |
| 42.5° | 3334.2 | 1284.4 | 314.5 | 221.3 | 157.2 | 128.0 | 112.7 | 98.8 | 89.1 | 82.1 | 80.7 |
| 45° | 3627.8 | 1299.7 | 289.4 | 197.6 | 143.3 | 118.3 | 100.2 | 86.3 | 76.5 | 69.6 | 68.2 |
| 47.5° | 3942.3 | 1354.0 | 268.6 | 175.3 | 129.4 | 108.5 | 89.1 | 73.8 | 65.4 | 58.4 | 57.1 |
| 50° | 4270.7 | 1443.1 | 250.5 | 154.5 | 118.3 | 97.4 | 76.5 | 64.0 | 55.7 | 50.1 | 48.7 |
| 52.5° | 4556.0 | 1564.1 | 232.4 | 139.2 | 108.5 | 86.3 | 66.8 | 55.7 | 47.3 | 41.7 | 40.4 |
| 55° | 4828.7 | 1678.2 | 218.5 | 125.2 | 97.4 | 75.1 | 58.4 | 47.3 | 40.4 | 34.8 | 33.4 |
| 57.5° | 5125.1 | 1799.3 | 201.8 | 112.7 | 87.7 | 66.8 | 51.5 | 40.4 | 34.8 | 29.2 | 27.8 |
| 60° | 5556.5 | 1978.8 | 176.7 | 103.0 | 76.5 | 58.4 | 44.5 | 36.2 | 30.6 | 23.7 | 22.3 |
| 62.5° | 6178.6 | 2305.8 | 148.9 | 89.1 | 65.4 | 50.1 | 37.6 | 30.6 | 25.0 | 19.5 | 16.7 |
| 65° | 7341.9 | 2862.5 | 122.5 | 73.8 | 52.9 | 41.7 | 32.0 | 25.0 | 19.5 | 13.9 | 12.5 |
| 67.5° | 8179.6 | 3007.2 | 98.8 | 59.8 | 43.1 | 32.0 | 26.4 | 19.5 | 13.9 | 9.7 | 8.3 |
| 70° | 7151.3 | 2159.7 | 76.5 | 48.7 | 36.2 | 25.0 | 20.9 | 15.3 | 9.7 | 7.0 | 5.6 |
| 72.5° | 5388.1 | 1411.0 | 57.1 | 37.6 | 27.8 | 20.9 | 15.3 | 12.5 | 8.3 | 5.6 | 4.2 |
| 75° | 3797.6 | 815.5 | 41.7 | 27.8 | 19.5 | 15.3 | 12.5 | 9.7 | 7.0 | 4.2 | 4.2 |
| 77.5° | 1946.8 | 336.8 | 29.2 | 19.5 | 13.9 | 9.7 | 8.3 | 5.6 | 5.6 | 4.2 | 2.8 |
| 80° | 591.4 | 111.3 | 16.7 | 12.5 | 9.7 | 7.0 | 4.2 | 4.2 | 4.2 | 2.8 | 1.4 |
| 82.5° | 135.0 | 36.2 | 9.7 | 9.7 | 7.0 | 5.6 | 4.2 | 1.4 | 1.4 | 0.0 | 0.0 |
| 85° | 34.8 | 11.1 | 8.3 | 7.0 | 7.0 | 5.6 | 2.8 | 1.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 12.5 | 7.0 | 7.0 | 7.0 | 5.6 | 4.2 | 2.8 | 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)