

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: P637287

Luminaire Tested: GWS-SA4C-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 16568 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

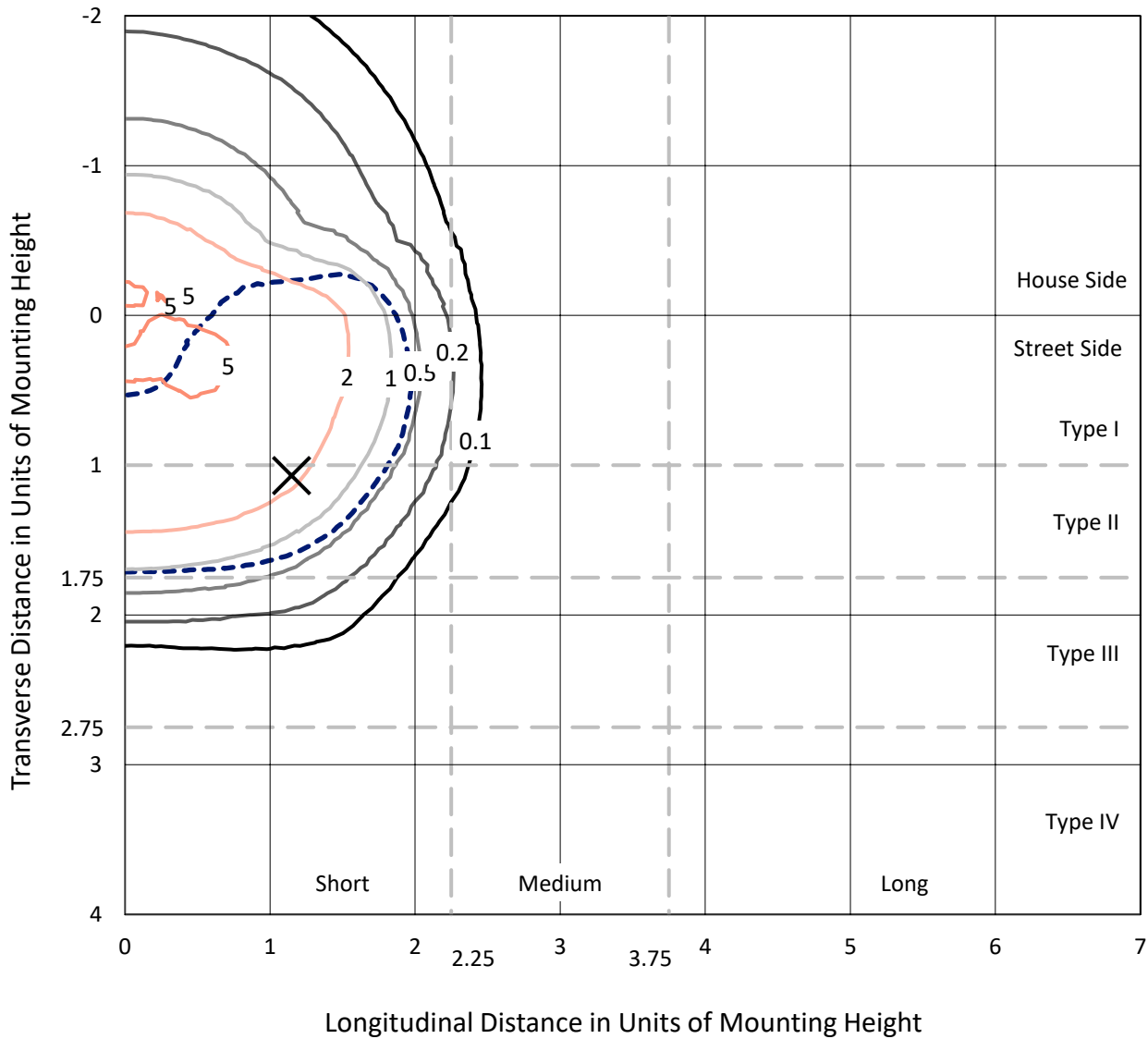
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

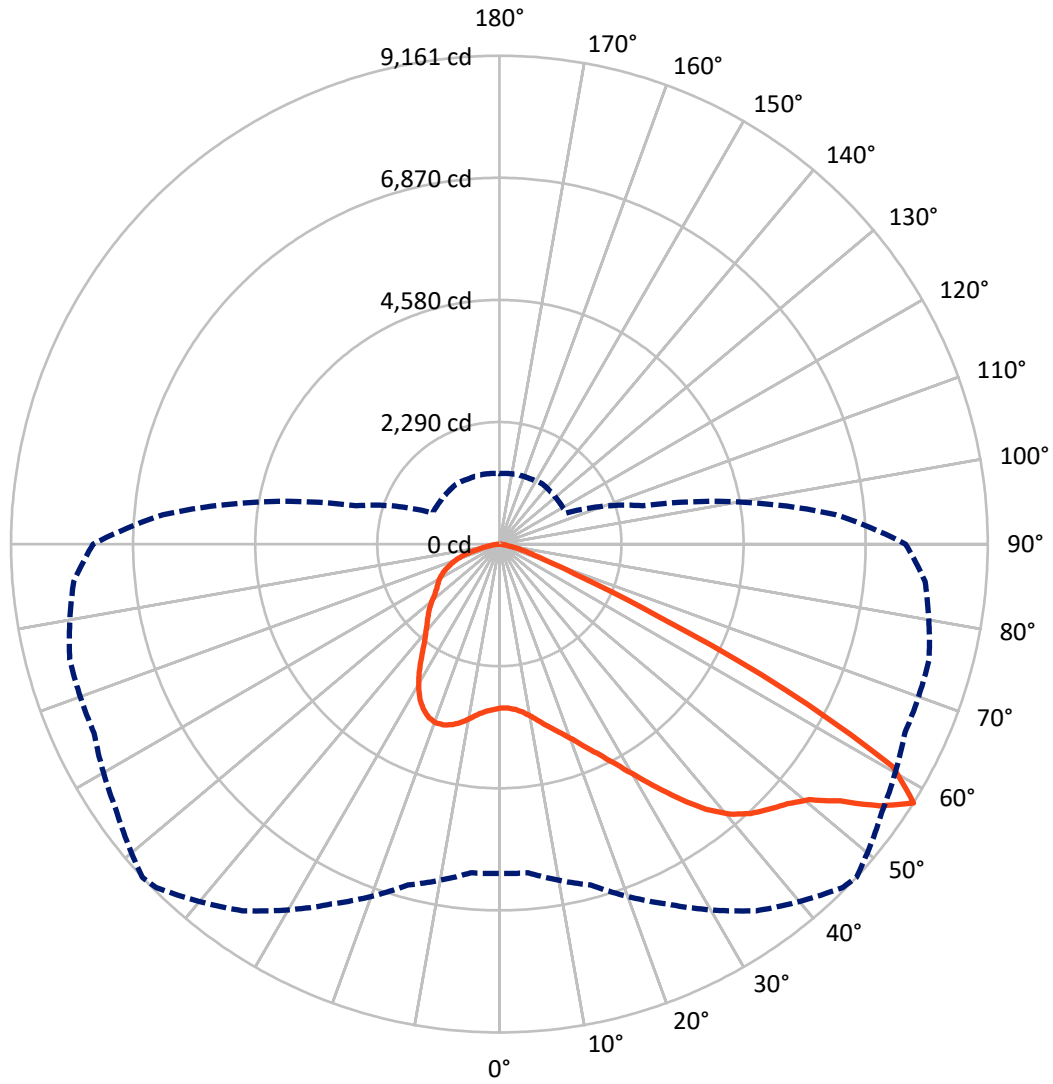
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5243.7 | 0.0 | 5243.7 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 11324.3 | 0.0 | 11324.3 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 16568.0 | 0.0 | 16568.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 303.1 | 1.8 |
| 10°-20° | 996.8 | 6.0 |
| 20°-30° | 1794.8 | 10.8 |
| 30°-40° | 2710.8 | 16.4 |
| 40°-50° | 3650.4 | 22.0 |
| 50°-60° | 4386.4 | 26.5 |
| 60°-70° | 2136.3 | 12.9 |
| 70°-80° | 526.3 | 3.2 |
| 80°-90° | 63.3 | 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° | 16568.0 | 100.0 |
| 0°-180° | 16568.0 | 100.0 |

Coefficient of Utilization



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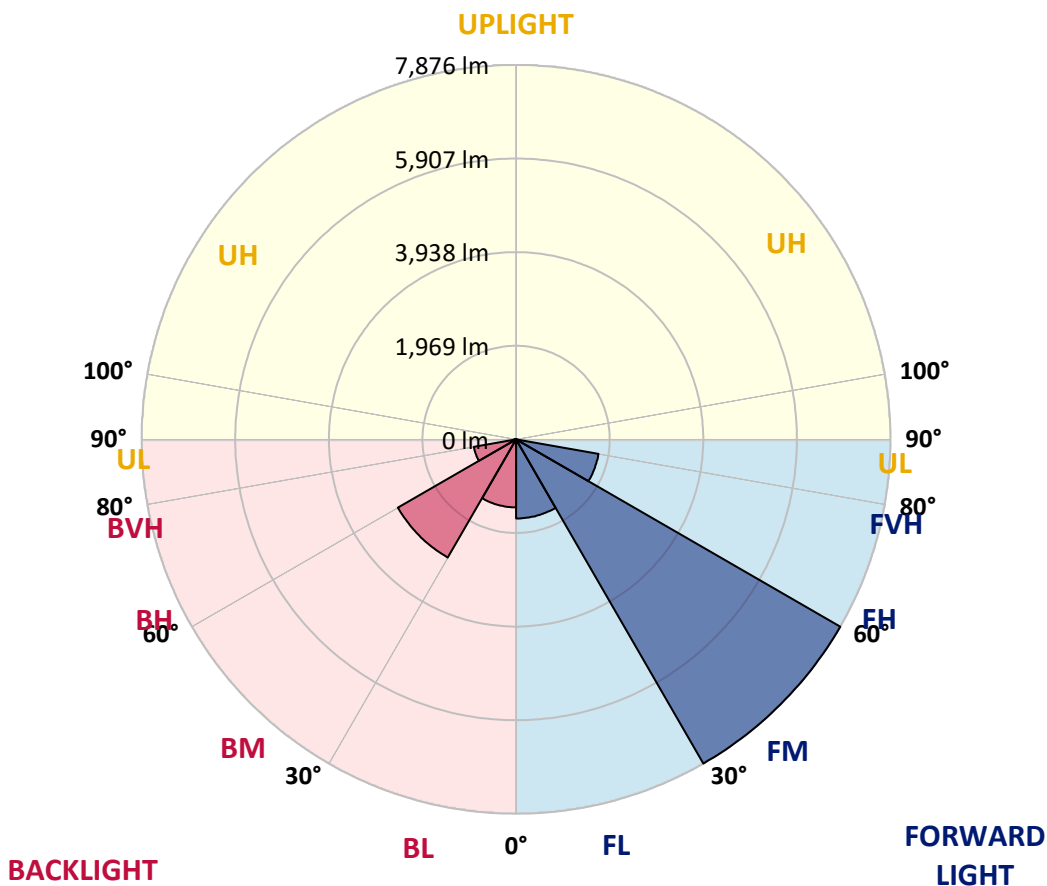
CATALOG NUMBER: GWS-SA4C-740-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1664.2 | 10.0 | | | |
| FM (30°-60°) | 7875.7 | 47.5 | | | |
| FH (60°-80°) | 1760.7 | 10.6 | | | G1/1800 |
| FVH (80°-90°) | 23.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1430.4 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 2872.0 | 17.3 | B3/5000 | | |
| BH (60°-80°) | 901.9 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 39.5 | 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° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 |
| 2.5° | 3067.0 | 3065.6 | 3065.6 | 3074.0 | 3074.0 | 3076.7 | 3080.9 | 3085.1 | 3086.5 | 3079.5 | 3064.2 |
| 5° | 3100.4 | 3100.4 | 3100.4 | 3107.3 | 3107.3 | 3110.1 | 3115.7 | 3117.1 | 3115.7 | 3104.6 | 3089.3 |
| 7.5° | 3153.3 | 3153.3 | 3154.7 | 3163.0 | 3170.0 | 3174.1 | 3183.9 | 3182.5 | 3178.3 | 3160.2 | 3140.7 |
| 10° | 3239.5 | 3243.7 | 3247.9 | 3257.6 | 3271.6 | 3281.3 | 3288.3 | 3288.3 | 3282.7 | 3254.9 | 3229.8 |
| 12.5° | 3362.0 | 3367.6 | 3371.7 | 3380.1 | 3391.2 | 3407.9 | 3423.2 | 3423.2 | 3416.3 | 3381.5 | 3343.9 |
| 15° | 3505.3 | 3510.9 | 3509.5 | 3512.3 | 3533.2 | 3556.8 | 3569.3 | 3577.7 | 3580.5 | 3531.8 | 3473.3 |
| 17.5° | 3669.5 | 3675.1 | 3669.5 | 3661.2 | 3664.0 | 3701.5 | 3723.8 | 3754.4 | 3772.5 | 3707.1 | 3613.9 |
| 20° | 3818.4 | 3812.9 | 3812.9 | 3818.4 | 3826.8 | 3872.7 | 3906.1 | 3956.2 | 3978.5 | 3899.1 | 3754.4 |
| 22.5° | 3975.7 | 3988.2 | 3982.6 | 3982.6 | 4016.0 | 4092.6 | 4132.9 | 4198.3 | 4222.0 | 4119.0 | 3924.2 |
| 25° | 4178.8 | 4190.0 | 4187.2 | 4190.0 | 4228.9 | 4337.5 | 4377.8 | 4498.9 | 4522.6 | 4375.1 | 4112.1 |
| 27.5° | 4401.5 | 4419.6 | 4427.9 | 4425.2 | 4487.8 | 4629.7 | 4679.8 | 4848.2 | 4891.3 | 4661.7 | 4312.4 |
| 30° | 4690.9 | 4710.4 | 4717.4 | 4714.6 | 4788.4 | 4981.8 | 5038.8 | 5230.9 | 5292.1 | 5001.3 | 4567.1 |
| 32.5° | 5026.3 | 5045.8 | 5066.7 | 5075.0 | 5169.6 | 5367.2 | 5449.3 | 5648.3 | 5736.0 | 5393.7 | 4874.6 |
| 35° | 5358.9 | 5375.6 | 5415.9 | 5481.3 | 5610.8 | 5812.5 | 5884.9 | 6081.1 | 6166.0 | 5801.4 | 5246.2 |
| 37.5° | 5726.3 | 5737.4 | 5772.2 | 5862.6 | 6049.1 | 6241.1 | 6313.5 | 6501.4 | 6511.1 | 6195.2 | 5666.4 |
| 40° | 6128.4 | 6128.4 | 6121.5 | 6210.5 | 6405.3 | 6598.8 | 6661.4 | 6769.9 | 6712.9 | 6498.6 | 6075.5 |
| 42.5° | 6469.4 | 6463.8 | 6469.4 | 6552.8 | 6697.6 | 6854.8 | 6909.1 | 6888.2 | 6815.8 | 6731.0 | 6445.7 |
| 45° | 6776.9 | 6781.1 | 6831.2 | 6895.2 | 6970.3 | 7063.5 | 7095.6 | 6977.3 | 6911.9 | 6917.4 | 6742.1 |
| 47.5° | 6985.6 | 6989.8 | 7106.7 | 7213.8 | 7259.8 | 7289.0 | 7275.1 | 7110.9 | 7077.5 | 7140.1 | 6970.3 |
| 50° | 7013.5 | 7035.7 | 7237.5 | 7457.4 | 7571.5 | 7575.6 | 7536.7 | 7336.3 | 7326.6 | 7397.5 | 7092.8 |
| 52.5° | 7019.0 | 7041.3 | 7293.2 | 7689.7 | 7986.1 | 8048.8 | 8004.2 | 7795.5 | 7693.9 | 7623.0 | 7243.1 |
| 55° | 6998.1 | 7023.2 | 7301.5 | 7845.6 | 8413.4 | 8663.8 | 8668.0 | 8373.0 | 8048.8 | 8001.5 | 7671.7 |
| 57.5° | 6178.5 | 6188.3 | 6619.6 | 7449.0 | 8396.7 | 9106.4 | 9160.6 | 8759.9 | 8389.7 | 8345.2 | 8015.4 |
| 60° | 4304.1 | 4343.1 | 4812.0 | 5907.2 | 7053.8 | 8304.8 | 8480.2 | 8363.3 | 8115.6 | 7791.3 | 6877.1 |
| 62.5° | 2155.5 | 2188.9 | 2659.3 | 3694.6 | 4864.9 | 5852.9 | 6040.8 | 6164.6 | 6223.0 | 5875.2 | 4682.6 |
| 65° | 928.2 | 953.2 | 1245.4 | 1930.1 | 2753.9 | 3231.2 | 3296.6 | 3445.5 | 3810.1 | 3399.6 | 2522.9 |
| 67.5° | 620.6 | 637.3 | 786.2 | 1177.3 | 1622.6 | 1653.2 | 1643.4 | 1675.4 | 1754.8 | 1448.6 | 1139.7 |
| 70° | 475.9 | 489.8 | 590.0 | 862.8 | 1166.1 | 997.7 | 944.9 | 857.2 | 931.0 | 949.0 | 924.0 |
| 72.5° | 345.1 | 356.2 | 431.4 | 588.6 | 730.6 | 637.3 | 629.0 | 673.5 | 773.7 | 801.5 | 786.2 |
| 75° | 222.6 | 228.2 | 274.1 | 322.8 | 377.1 | 409.1 | 425.8 | 506.5 | 608.1 | 629.0 | 610.9 |
| 77.5° | 148.9 | 153.1 | 179.5 | 207.3 | 214.3 | 215.7 | 221.3 | 257.4 | 327.0 | 366.0 | 361.8 |
| 80° | 77.9 | 77.9 | 87.7 | 87.7 | 100.2 | 119.7 | 125.2 | 148.9 | 180.9 | 200.4 | 201.8 |
| 82.5° | 30.6 | 32.0 | 37.6 | 41.7 | 50.1 | 61.2 | 65.4 | 77.9 | 94.6 | 108.5 | 121.1 |
| 85° | 12.5 | 13.9 | 15.3 | 18.1 | 22.3 | 27.8 | 29.2 | 33.4 | 44.5 | 55.7 | 62.6 |
| 87.5° | 0.0 | 0.0 | 1.4 | 1.4 | 2.8 | 4.2 | 4.2 | 5.6 | 7.0 | 12.5 | 16.7 |
| 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° | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 | 3072.6 |
| 2.5° | 3082.3 | 3064.2 | 3082.3 | 3087.9 | 3103.2 | 3108.7 | 3099.0 | 3097.6 | 3097.6 | 3083.7 | 3079.5 |
| 5° | 3103.2 | 3086.5 | 3104.6 | 3112.9 | 3135.2 | 3149.1 | 3151.9 | 3163.0 | 3170.0 | 3164.4 | 3163.0 |
| 7.5° | 3154.7 | 3133.8 | 3153.3 | 3165.8 | 3195.0 | 3217.3 | 3227.0 | 3252.1 | 3270.2 | 3267.4 | 3266.0 |
| 10° | 3245.1 | 3217.3 | 3239.5 | 3260.4 | 3292.4 | 3318.9 | 3320.3 | 3334.2 | 3352.3 | 3346.7 | 3343.9 |
| 12.5° | 3349.5 | 3323.0 | 3348.1 | 3369.0 | 3406.5 | 3417.7 | 3399.6 | 3394.0 | 3396.8 | 3389.8 | 3384.3 |
| 15° | 3477.5 | 3439.9 | 3462.2 | 3485.9 | 3506.7 | 3494.2 | 3455.2 | 3439.9 | 3438.5 | 3428.8 | 3423.2 |
| 17.5° | 3605.5 | 3558.2 | 3574.9 | 3587.4 | 3577.7 | 3538.7 | 3490.0 | 3463.6 | 3451.1 | 3431.6 | 3426.0 |
| 20° | 3732.2 | 3672.3 | 3669.5 | 3659.8 | 3615.3 | 3544.3 | 3478.9 | 3426.0 | 3394.0 | 3367.6 | 3357.8 |
| 22.5° | 3876.9 | 3793.4 | 3751.6 | 3707.1 | 3609.7 | 3494.2 | 3395.4 | 3320.3 | 3268.8 | 3235.4 | 3224.2 |
| 25° | 4032.7 | 3914.5 | 3828.2 | 3739.1 | 3554.0 | 3387.1 | 3249.3 | 3146.3 | 3085.1 | 3048.9 | 3036.4 |
| 27.5° | 4187.2 | 4024.4 | 3895.0 | 3743.3 | 3442.7 | 3232.6 | 3047.5 | 2908.4 | 2847.1 | 2817.9 | 2808.2 |
| 30° | 4395.9 | 4170.5 | 3974.3 | 3689.0 | 3296.6 | 3018.3 | 2787.3 | 2646.7 | 2606.4 | 2585.5 | 2577.2 |
| 32.5° | 4636.7 | 4355.6 | 4080.0 | 3574.9 | 3110.1 | 2767.8 | 2524.3 | 2426.9 | 2399.0 | 2358.7 | 2357.3 |
| 35° | 4953.9 | 4620.0 | 4180.2 | 3406.5 | 2875.0 | 2499.2 | 2322.5 | 2252.9 | 2202.8 | 2138.8 | 2133.3 |
| 37.5° | 5324.1 | 4949.8 | 4234.5 | 3192.2 | 2600.8 | 2278.0 | 2172.2 | 2094.3 | 2013.6 | 1928.7 | 1917.6 |
| 40° | 5706.8 | 5335.2 | 4238.7 | 2939.0 | 2332.3 | 2131.9 | 2042.8 | 1941.2 | 1841.0 | 1746.4 | 1733.9 |
| 42.5° | 6108.9 | 5694.3 | 4164.9 | 2646.7 | 2112.4 | 2005.2 | 1914.8 | 1786.8 | 1674.0 | 1610.0 | 1603.1 |
| 45° | 6468.0 | 5983.7 | 3997.9 | 2339.2 | 1949.6 | 1899.5 | 1784.0 | 1646.2 | 1586.4 | 1540.5 | 1530.7 |
| 47.5° | 6750.4 | 6175.7 | 3772.5 | 2063.7 | 1817.4 | 1790.9 | 1640.6 | 1569.7 | 1523.8 | 1482.0 | 1472.3 |
| 50° | 6889.6 | 6218.9 | 3478.9 | 1839.6 | 1694.9 | 1662.9 | 1559.9 | 1505.7 | 1475.1 | 1441.7 | 1433.3 |
| 52.5° | 7062.2 | 6267.6 | 3225.6 | 1651.8 | 1575.2 | 1532.1 | 1493.1 | 1450.0 | 1427.7 | 1406.9 | 1399.9 |
| 55° | 7458.7 | 6451.3 | 3092.0 | 1501.5 | 1461.1 | 1441.7 | 1436.1 | 1399.9 | 1392.9 | 1379.0 | 1366.5 |
| 57.5° | 7620.2 | 6333.0 | 2776.2 | 1379.0 | 1370.7 | 1373.5 | 1387.4 | 1354.0 | 1347.0 | 1330.3 | 1322.0 |
| 60° | 6128.4 | 4787.0 | 1880.0 | 1273.3 | 1295.5 | 1313.6 | 1327.5 | 1294.1 | 1284.4 | 1281.6 | 1270.5 |
| 62.5° | 3927.0 | 2944.5 | 1312.2 | 1174.5 | 1207.9 | 1230.1 | 1238.5 | 1206.5 | 1199.5 | 1221.8 | 1223.2 |
| 65° | 2044.2 | 1604.5 | 1064.5 | 1068.7 | 1096.5 | 1129.9 | 1146.6 | 1135.5 | 1132.7 | 1156.4 | 1157.8 |
| 67.5° | 1043.7 | 981.0 | 928.2 | 943.5 | 965.7 | 1008.9 | 1047.8 | 1096.5 | 1113.2 | 1116.0 | 1117.4 |
| 70° | 889.2 | 861.4 | 834.9 | 844.7 | 868.3 | 892.0 | 929.6 | 953.2 | 925.4 | 918.4 | 915.6 |
| 72.5° | 757.0 | 736.1 | 723.6 | 734.7 | 747.3 | 743.1 | 732.0 | 743.1 | 747.3 | 748.7 | 750.0 |
| 75° | 588.6 | 573.3 | 563.6 | 565.0 | 565.0 | 549.7 | 528.8 | 516.3 | 502.4 | 491.2 | 491.2 |
| 77.5° | 360.4 | 363.2 | 372.9 | 371.5 | 370.2 | 364.6 | 343.7 | 332.6 | 299.2 | 289.4 | 289.4 |
| 80° | 206.0 | 210.1 | 219.9 | 222.6 | 222.6 | 215.7 | 194.8 | 182.3 | 167.0 | 160.0 | 158.6 |
| 82.5° | 125.2 | 130.8 | 136.4 | 139.2 | 140.5 | 132.2 | 114.1 | 104.4 | 96.0 | 89.1 | 89.1 |
| 85° | 65.4 | 68.2 | 73.8 | 75.1 | 71.0 | 62.6 | 52.9 | 48.7 | 40.4 | 39.0 | 39.0 |
| 87.5° | 18.1 | 19.5 | 22.3 | 18.1 | 16.7 | 12.5 | 7.0 | 5.6 | 2.8 | 1.4 | 1.4 |
| 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)