

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: P636517

Luminaire Tested: GWS-SA3F-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636517
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-SA3F-830-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16577.9 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

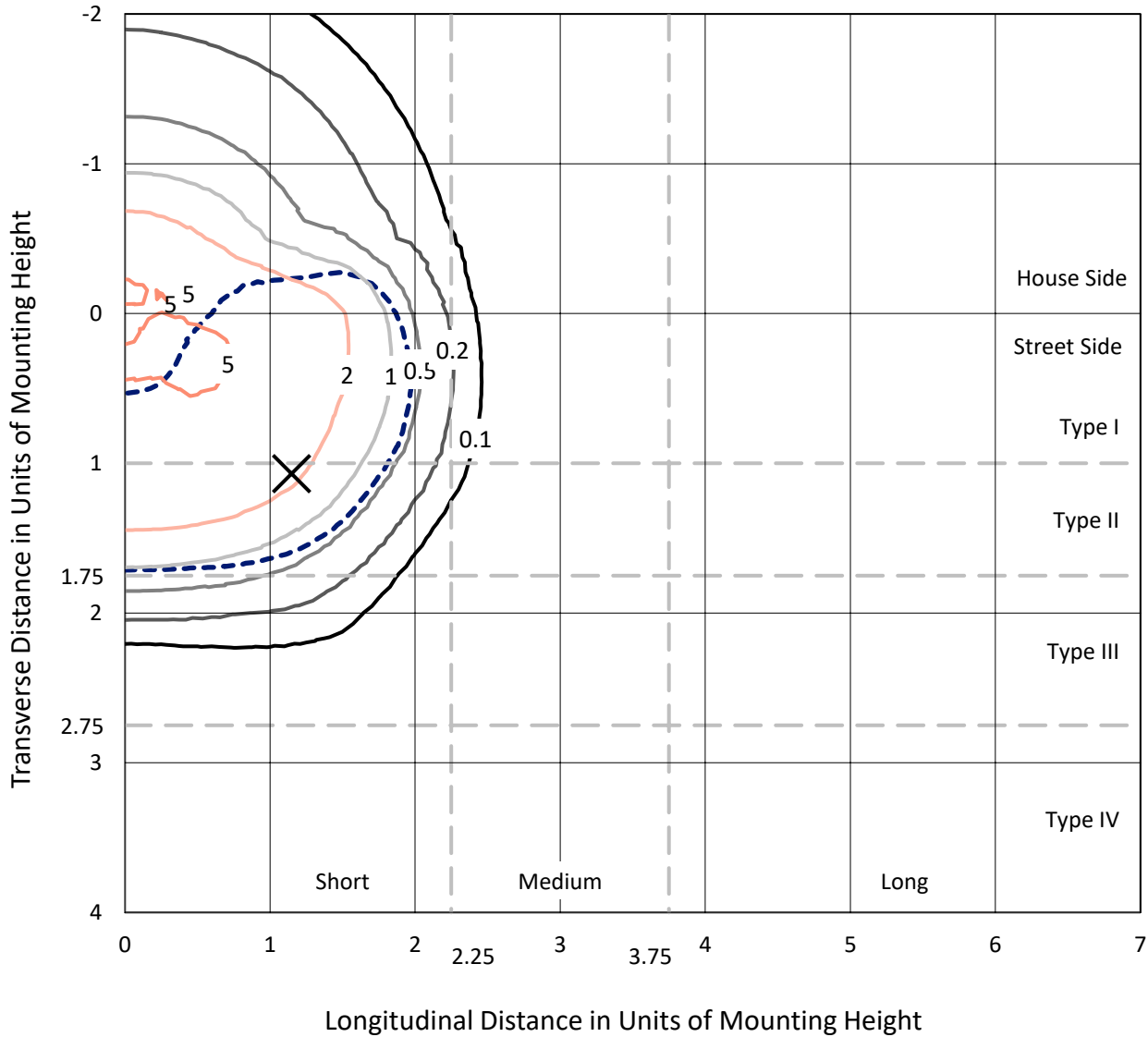
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

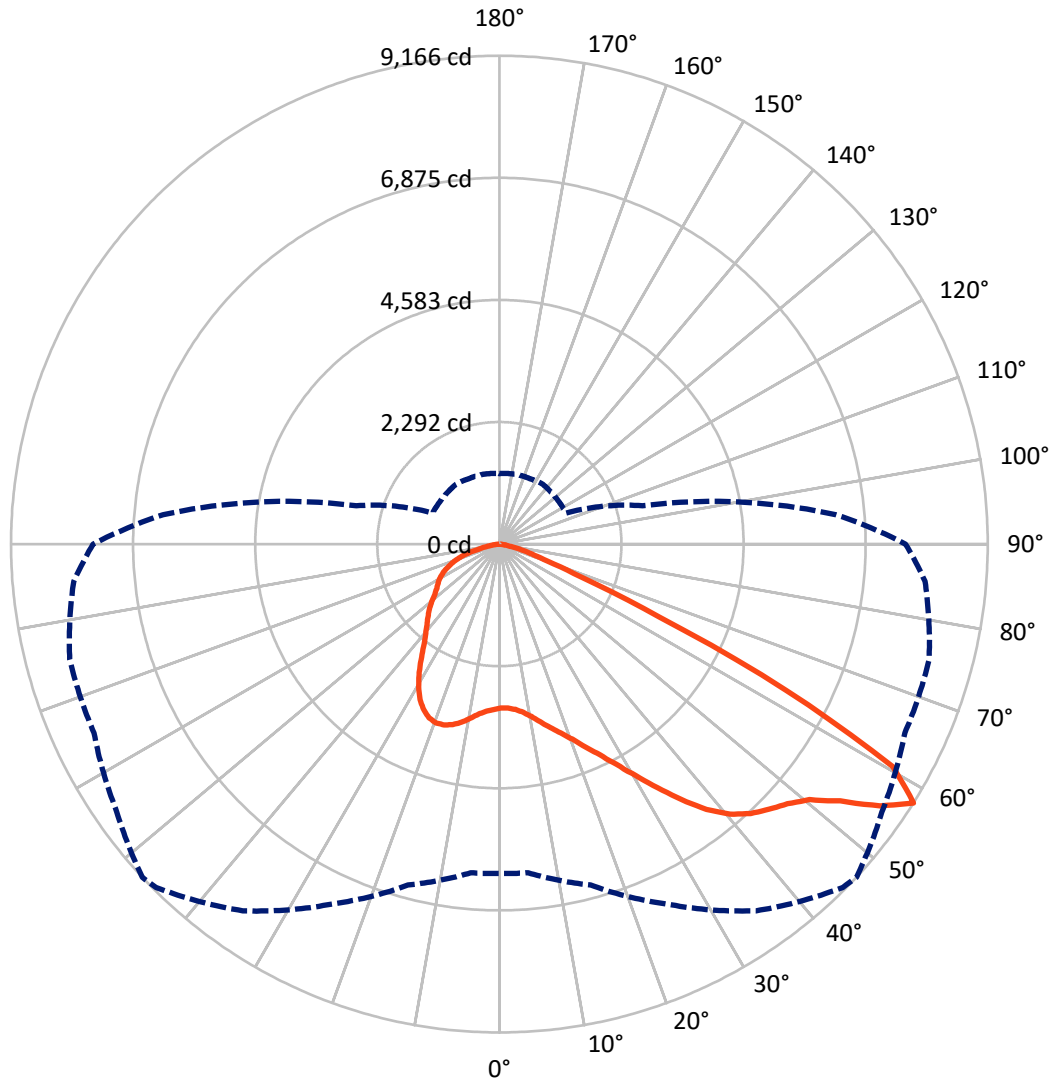
✕ Max cd
 - - - 1/2 Max cd



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 | 5246.9 | 0.0 | 5246.9 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 11331.0 | 0.0 | 11331.0 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 16577.9 | 0.0 | 16577.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 303.2 | 1.8 |
| 10°-20° | 997.3 | 6.0 |
| 20°-30° | 1795.8 | 10.8 |
| 30°-40° | 2712.4 | 16.4 |
| 40°-50° | 3652.6 | 22.0 |
| 50°-60° | 4389.1 | 26.5 |
| 60°-70° | 2137.6 | 12.9 |
| 70°-80° | 526.6 | 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° | 16577.9 | 100.0 |
| 0°-180° | 16577.9 | 100.0 |

Coefficient of Utilization

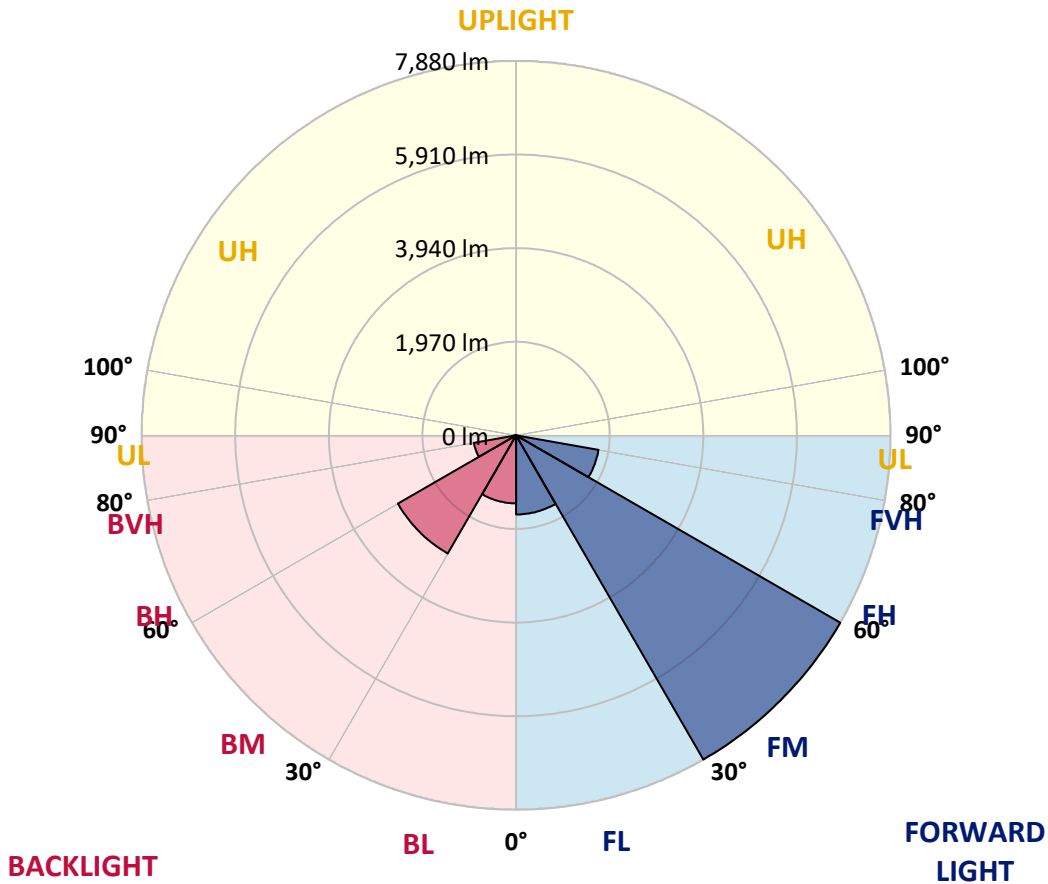


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1665.2 | 10.0 | | | |
| FM (30°-60°) | 7880.3 | 47.5 | | | |
| FH (60°-80°) | 1761.7 | 10.6 | | | G1/1800 |
| FVH (80°-90°) | 23.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1431.2 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 2873.7 | 17.3 | B3/5000 | | |
| BH (60°-80°) | 902.4 | 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° | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 |
| 2.5° | 3068.8 | 3067.4 | 3067.4 | 3075.8 | 3075.8 | 3078.6 | 3082.7 | 3086.9 | 3088.3 | 3081.4 | 3066.0 |
| 5° | 3102.2 | 3102.2 | 3102.2 | 3109.2 | 3109.2 | 3112.0 | 3117.6 | 3119.0 | 3117.6 | 3106.4 | 3091.1 |
| 7.5° | 3155.2 | 3155.2 | 3156.5 | 3164.9 | 3171.9 | 3176.0 | 3185.8 | 3184.4 | 3180.2 | 3162.1 | 3142.6 |
| 10° | 3241.5 | 3245.7 | 3249.8 | 3259.6 | 3273.5 | 3283.3 | 3290.2 | 3290.2 | 3284.6 | 3256.8 | 3231.7 |
| 12.5° | 3364.0 | 3369.6 | 3373.8 | 3382.1 | 3393.3 | 3410.0 | 3425.3 | 3425.3 | 3418.3 | 3383.5 | 3345.9 |
| 15° | 3507.4 | 3513.0 | 3511.6 | 3514.4 | 3535.3 | 3558.9 | 3571.5 | 3579.8 | 3582.6 | 3533.9 | 3475.4 |
| 17.5° | 3671.7 | 3677.3 | 3671.7 | 3663.4 | 3666.2 | 3703.8 | 3726.0 | 3756.7 | 3774.8 | 3709.3 | 3616.0 |
| 20° | 3820.7 | 3815.1 | 3815.1 | 3820.7 | 3829.1 | 3875.0 | 3908.4 | 3958.6 | 3980.8 | 3901.5 | 3756.7 |
| 22.5° | 3978.1 | 3990.6 | 3985.0 | 3985.0 | 4018.4 | 4095.0 | 4135.4 | 4200.8 | 4224.5 | 4121.5 | 3926.5 |
| 25° | 4181.3 | 4192.5 | 4189.7 | 4192.5 | 4231.5 | 4340.1 | 4380.5 | 4501.6 | 4525.3 | 4377.7 | 4114.5 |
| 27.5° | 4404.1 | 4422.2 | 4430.6 | 4427.8 | 4490.5 | 4632.5 | 4682.6 | 4851.1 | 4894.2 | 4664.5 | 4315.0 |
| 30° | 4693.7 | 4713.2 | 4720.2 | 4717.4 | 4791.2 | 4984.8 | 5041.8 | 5234.0 | 5295.3 | 5004.2 | 4569.8 |
| 32.5° | 5029.3 | 5048.8 | 5069.7 | 5078.0 | 5172.7 | 5370.4 | 5452.6 | 5651.7 | 5739.4 | 5396.9 | 4877.5 |
| 35° | 5362.1 | 5378.8 | 5419.2 | 5484.6 | 5614.1 | 5816.0 | 5888.4 | 6084.7 | 6169.7 | 5804.9 | 5249.3 |
| 37.5° | 5729.7 | 5740.8 | 5775.6 | 5866.1 | 6052.7 | 6244.9 | 6317.3 | 6505.2 | 6515.0 | 6198.9 | 5669.8 |
| 40° | 6132.1 | 6132.1 | 6125.1 | 6214.2 | 6409.2 | 6602.7 | 6665.4 | 6774.0 | 6716.9 | 6502.5 | 6079.2 |
| 42.5° | 6473.2 | 6467.6 | 6473.2 | 6556.8 | 6701.6 | 6858.9 | 6913.2 | 6892.3 | 6819.9 | 6735.0 | 6449.5 |
| 45° | 6780.9 | 6785.1 | 6835.2 | 6899.3 | 6974.5 | 7067.8 | 7099.8 | 6981.4 | 6916.0 | 6921.6 | 6746.1 |
| 47.5° | 6989.8 | 6994.0 | 7110.9 | 7218.1 | 7264.1 | 7293.3 | 7279.4 | 7115.1 | 7081.7 | 7144.3 | 6974.5 |
| 50° | 7017.6 | 7039.9 | 7241.8 | 7461.8 | 7576.0 | 7580.2 | 7541.2 | 7340.7 | 7330.9 | 7401.9 | 7097.0 |
| 52.5° | 7023.2 | 7045.5 | 7297.5 | 7694.3 | 7990.9 | 8053.6 | 8009.0 | 7800.2 | 7698.5 | 7627.5 | 7247.4 |
| 55° | 7002.3 | 7027.4 | 7305.9 | 7850.3 | 8418.4 | 8669.0 | 8673.2 | 8378.0 | 8053.6 | 8006.2 | 7676.2 |
| 57.5° | 6182.2 | 6192.0 | 6623.6 | 7453.5 | 8401.7 | 9111.8 | 9166.1 | 8765.1 | 8394.7 | 8350.2 | 8020.2 |
| 60° | 4306.7 | 4345.6 | 4814.9 | 5910.7 | 7058.0 | 8309.8 | 8485.2 | 8368.3 | 8120.4 | 7796.0 | 6881.2 |
| 62.5° | 2156.8 | 2190.2 | 2660.9 | 3696.8 | 4867.8 | 5856.4 | 6044.4 | 6168.3 | 6226.8 | 5878.7 | 4685.4 |
| 65° | 928.7 | 953.8 | 1246.2 | 1931.2 | 2755.5 | 3233.1 | 3298.6 | 3447.6 | 3812.4 | 3401.6 | 2524.4 |
| 67.5° | 621.0 | 637.7 | 786.7 | 1178.0 | 1623.5 | 1654.2 | 1644.4 | 1676.4 | 1755.8 | 1449.5 | 1140.4 |
| 70° | 476.2 | 490.1 | 590.4 | 863.3 | 1166.8 | 998.3 | 945.4 | 857.7 | 931.5 | 949.6 | 924.5 |
| 72.5° | 345.3 | 356.5 | 431.6 | 589.0 | 731.0 | 637.7 | 629.4 | 673.9 | 774.2 | 802.0 | 786.7 |
| 75° | 222.8 | 228.4 | 274.3 | 323.0 | 377.3 | 409.4 | 426.1 | 506.8 | 608.5 | 629.4 | 611.3 |
| 77.5° | 149.0 | 153.2 | 179.6 | 207.5 | 214.4 | 215.8 | 221.4 | 257.6 | 327.2 | 366.2 | 362.0 |
| 80° | 78.0 | 78.0 | 87.7 | 87.7 | 100.3 | 119.7 | 125.3 | 149.0 | 181.0 | 200.5 | 201.9 |
| 82.5° | 30.6 | 32.0 | 37.6 | 41.8 | 50.1 | 61.3 | 65.4 | 78.0 | 94.7 | 108.6 | 121.1 |
| 85° | 12.5 | 13.9 | 15.3 | 18.1 | 22.3 | 27.8 | 29.2 | 33.4 | 44.6 | 55.7 | 62.7 |
| 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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CATALOG NUMBER: GWS-SA3F-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 | 3074.4 |
| 2.5° | 3084.1 | 3066.0 | 3084.1 | 3089.7 | 3105.0 | 3110.6 | 3100.9 | 3099.5 | 3099.5 | 3085.5 | 3081.4 |
| 5° | 3105.0 | 3088.3 | 3106.4 | 3114.8 | 3137.1 | 3151.0 | 3153.8 | 3164.9 | 3171.9 | 3166.3 | 3164.9 |
| 7.5° | 3156.5 | 3135.7 | 3155.2 | 3167.7 | 3196.9 | 3219.2 | 3229.0 | 3254.0 | 3272.1 | 3269.3 | 3267.9 |
| 10° | 3247.1 | 3219.2 | 3241.5 | 3262.4 | 3294.4 | 3320.8 | 3322.2 | 3336.2 | 3354.3 | 3348.7 | 3345.9 |
| 12.5° | 3351.5 | 3325.0 | 3350.1 | 3371.0 | 3408.6 | 3419.7 | 3401.6 | 3396.0 | 3398.8 | 3391.9 | 3386.3 |
| 15° | 3479.6 | 3442.0 | 3464.3 | 3487.9 | 3508.8 | 3496.3 | 3457.3 | 3442.0 | 3440.6 | 3430.8 | 3425.3 |
| 17.5° | 3607.7 | 3560.3 | 3577.0 | 3589.6 | 3579.8 | 3540.8 | 3492.1 | 3465.7 | 3453.1 | 3433.6 | 3428.1 |
| 20° | 3734.4 | 3674.5 | 3671.7 | 3662.0 | 3617.4 | 3546.4 | 3481.0 | 3428.1 | 3396.0 | 3369.6 | 3359.8 |
| 22.5° | 3879.2 | 3795.7 | 3753.9 | 3709.3 | 3611.9 | 3496.3 | 3397.4 | 3322.2 | 3270.7 | 3237.3 | 3226.2 |
| 25° | 4035.1 | 3916.8 | 3830.5 | 3741.3 | 3556.2 | 3389.1 | 3251.2 | 3148.2 | 3086.9 | 3050.7 | 3038.2 |
| 27.5° | 4189.7 | 4026.8 | 3897.3 | 3745.5 | 3444.8 | 3234.5 | 3049.3 | 2910.1 | 2848.8 | 2819.6 | 2809.8 |
| 30° | 4398.6 | 4173.0 | 3976.7 | 3691.2 | 3298.6 | 3020.1 | 2789.0 | 2648.3 | 2607.9 | 2587.1 | 2578.7 |
| 32.5° | 4639.4 | 4358.2 | 4082.5 | 3577.0 | 3112.0 | 2769.5 | 2525.8 | 2428.3 | 2400.5 | 2360.1 | 2358.7 |
| 35° | 4956.9 | 4622.7 | 4182.7 | 3408.6 | 2876.7 | 2500.7 | 2323.9 | 2254.3 | 2204.2 | 2140.1 | 2134.5 |
| 37.5° | 5327.3 | 4952.7 | 4237.0 | 3194.1 | 2602.4 | 2279.3 | 2173.5 | 2095.5 | 2014.8 | 1929.9 | 1918.7 |
| 40° | 5710.2 | 5338.4 | 4241.2 | 2940.7 | 2333.6 | 2133.1 | 2044.0 | 1942.4 | 1842.1 | 1747.4 | 1734.9 |
| 42.5° | 6112.6 | 5697.7 | 4167.4 | 2648.3 | 2113.6 | 2006.4 | 1915.9 | 1787.8 | 1675.0 | 1611.0 | 1604.0 |
| 45° | 6471.8 | 5987.3 | 4000.3 | 2340.6 | 1950.7 | 1900.6 | 1785.0 | 1647.2 | 1587.3 | 1541.4 | 1531.6 |
| 47.5° | 6754.5 | 6179.4 | 3774.8 | 2064.9 | 1818.5 | 1792.0 | 1641.6 | 1570.6 | 1524.7 | 1482.9 | 1473.1 |
| 50° | 6893.7 | 6222.6 | 3481.0 | 1840.7 | 1695.9 | 1663.9 | 1560.9 | 1506.6 | 1475.9 | 1442.5 | 1434.2 |
| 52.5° | 7066.4 | 6271.3 | 3227.6 | 1652.8 | 1576.2 | 1533.0 | 1494.0 | 1450.9 | 1428.6 | 1407.7 | 1400.7 |
| 55° | 7463.2 | 6455.1 | 3093.9 | 1502.4 | 1462.0 | 1442.5 | 1436.9 | 1400.7 | 1393.8 | 1379.9 | 1367.3 |
| 57.5° | 7624.7 | 6336.8 | 2777.8 | 1379.9 | 1371.5 | 1374.3 | 1388.2 | 1354.8 | 1347.8 | 1331.1 | 1322.8 |
| 60° | 6132.1 | 4789.8 | 1881.1 | 1274.0 | 1296.3 | 1314.4 | 1328.3 | 1294.9 | 1285.2 | 1282.4 | 1271.3 |
| 62.5° | 3929.3 | 2946.3 | 1313.0 | 1175.2 | 1208.6 | 1230.9 | 1239.2 | 1207.2 | 1200.2 | 1222.5 | 1223.9 |
| 65° | 2045.4 | 1605.4 | 1065.2 | 1069.4 | 1097.2 | 1130.6 | 1147.3 | 1136.2 | 1133.4 | 1157.1 | 1158.5 |
| 67.5° | 1044.3 | 981.6 | 928.7 | 944.0 | 966.3 | 1009.5 | 1048.5 | 1097.2 | 1113.9 | 1116.7 | 1118.1 |
| 70° | 889.7 | 861.9 | 835.4 | 845.2 | 868.9 | 892.5 | 930.1 | 953.8 | 925.9 | 919.0 | 916.2 |
| 72.5° | 757.5 | 736.6 | 724.0 | 735.2 | 747.7 | 743.5 | 732.4 | 743.5 | 747.7 | 749.1 | 750.5 |
| 75° | 589.0 | 573.7 | 563.9 | 565.3 | 565.3 | 550.0 | 529.1 | 516.6 | 502.7 | 491.5 | 491.5 |
| 77.5° | 360.6 | 363.4 | 373.2 | 371.8 | 370.4 | 364.8 | 343.9 | 332.8 | 299.4 | 289.6 | 289.6 |
| 80° | 206.1 | 210.3 | 220.0 | 222.8 | 222.8 | 215.8 | 194.9 | 182.4 | 167.1 | 160.1 | 158.7 |
| 82.5° | 125.3 | 130.9 | 136.5 | 139.2 | 140.6 | 132.3 | 114.2 | 104.4 | 96.1 | 89.1 | 89.1 |
| 85° | 65.4 | 68.2 | 73.8 | 75.2 | 71.0 | 62.7 | 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)