

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: P638828

Luminaire Tested: GWS-SA4F-750-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25551.5 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

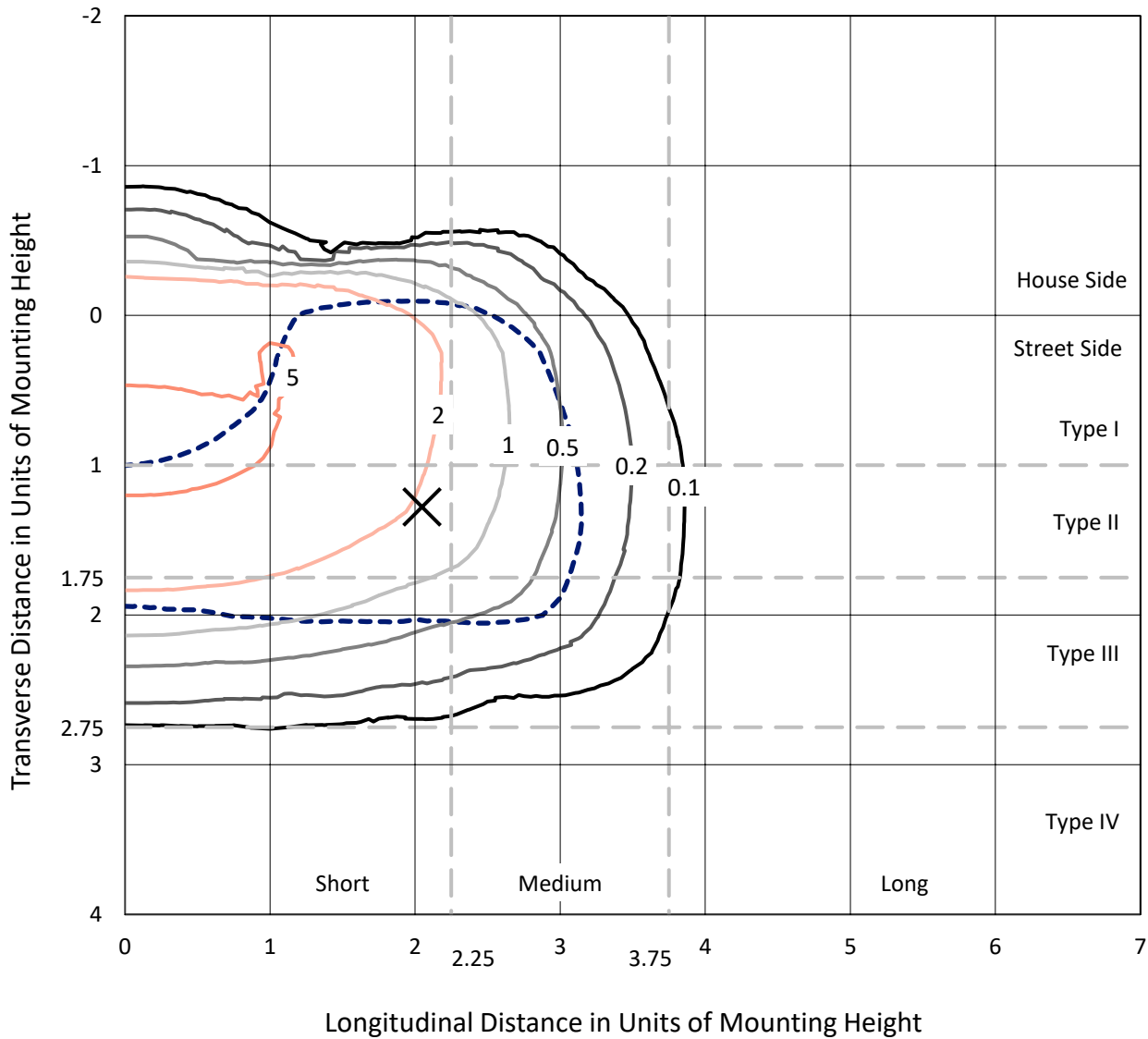
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

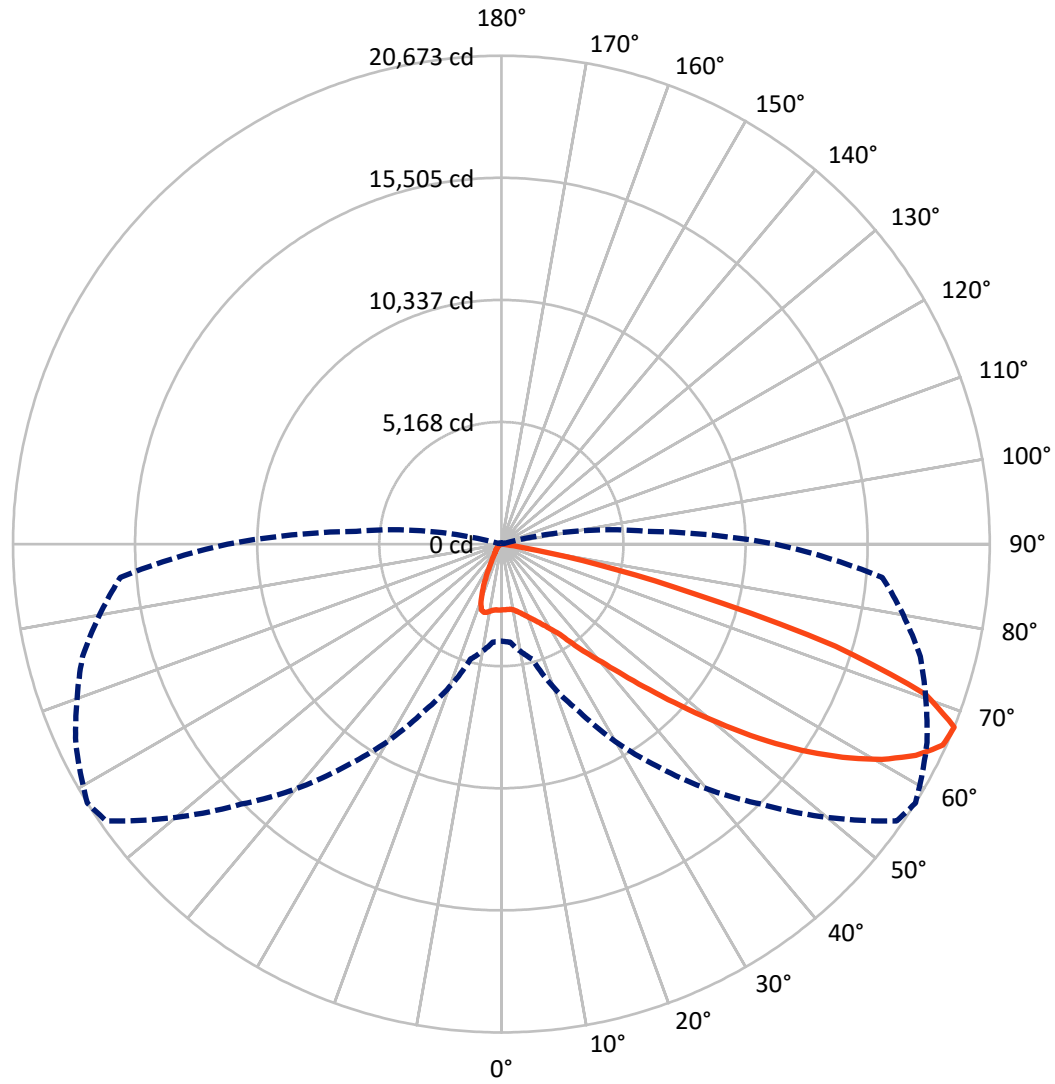
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2787.6 | 0.0 | 2787.6 |
| | % Fixture | 10.9 | 0.0 | 10.9 |
| Street Side | Lumens | 22763.9 | 0.0 | 22763.9 |
| | % Fixture | 89.1 | 0.0 | 89.1 |
| Total | Lumens | 25551.5 | 0.0 | 25551.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 261.6 | 1.0 |
| 10°-20° | 734.4 | 2.9 |
| 20°-30° | 1281.9 | 5.0 |
| 30°-40° | 2289.3 | 9.0 |
| 40°-50° | 4184.3 | 16.4 |
| 50°-60° | 6959.0 | 27.2 |
| 60°-70° | 7558.6 | 29.6 |
| 70°-80° | 2219.3 | 8.7 |
| 80°-90° | 63.2 | 0.2 |
| 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° | 25551.5 | 100.0 |
| 0°-180° | 25551.5 | 100.0 |

Coefficient of Utilization



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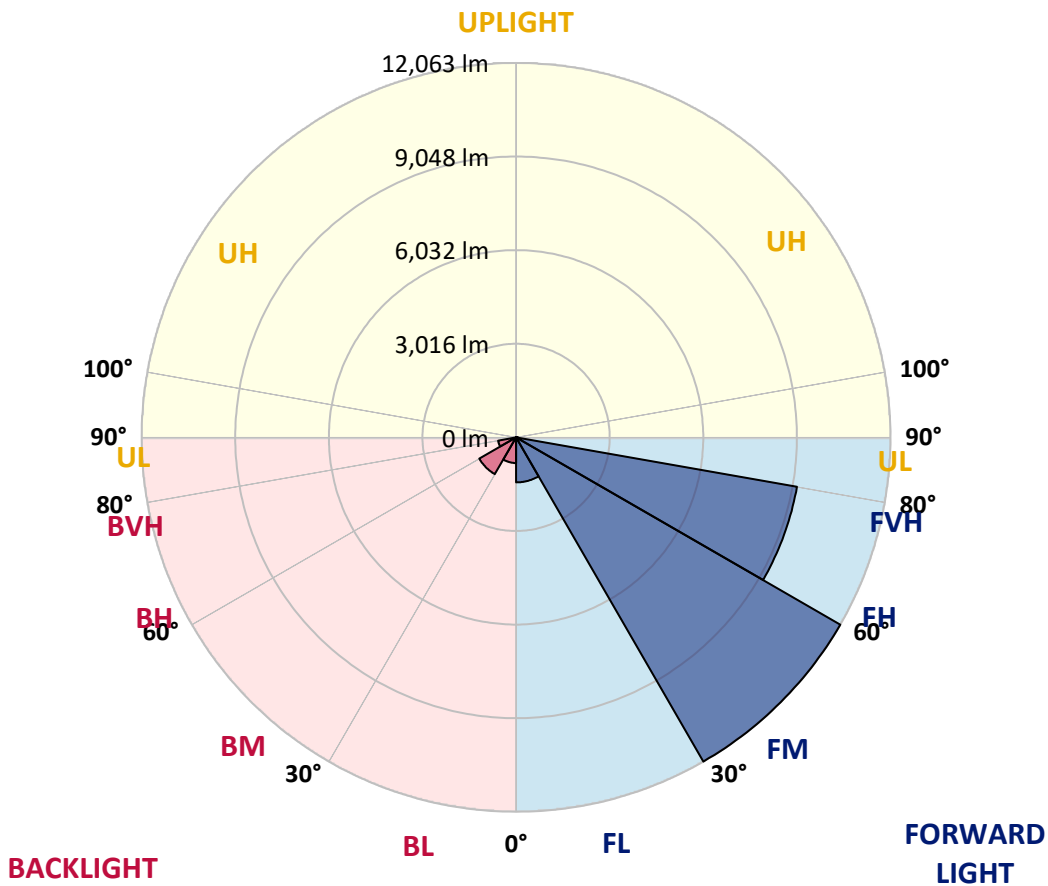
CATALOG NUMBER: GWS-SA4F-750-U-T3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1450.9 | 5.7 | | | |
| FM (30°-60°) | 12063.4 | 47.2 | | | |
| FH (60°-80°) | 9189.5 | 36.0 | | | G4/12000 |
| FVH (80°-90°) | 60.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 826.9 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 1369.2 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 588.5 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 |
| 2.5° | 2732.0 | 2727.0 | 2727.0 | 2746.9 | 2749.4 | 2759.4 | 2781.9 | 2784.4 | 2796.8 | 2791.8 | 2774.4 |
| 5° | 2589.7 | 2592.2 | 2607.2 | 2642.1 | 2672.1 | 2709.5 | 2764.4 | 2776.9 | 2804.3 | 2819.3 | 2809.3 |
| 7.5° | 2457.5 | 2460.0 | 2482.5 | 2537.4 | 2594.7 | 2669.6 | 2759.4 | 2784.4 | 2839.2 | 2879.2 | 2881.7 |
| 10° | 2407.6 | 2405.1 | 2427.6 | 2489.9 | 2564.8 | 2669.6 | 2799.3 | 2831.8 | 2914.1 | 2983.9 | 2996.4 |
| 12.5° | 2422.6 | 2420.1 | 2442.5 | 2499.9 | 2582.3 | 2714.5 | 2869.2 | 2914.1 | 3018.9 | 3126.2 | 3148.6 |
| 15° | 2482.5 | 2480.0 | 2494.9 | 2542.3 | 2632.2 | 2769.4 | 2959.0 | 3026.4 | 3158.6 | 3288.3 | 3323.3 |
| 17.5° | 2662.1 | 2649.6 | 2634.7 | 2639.6 | 2692.0 | 2834.2 | 3073.8 | 3156.1 | 3320.8 | 3475.4 | 3505.4 |
| 20° | 2981.5 | 2949.0 | 2909.1 | 2856.7 | 2831.8 | 2929.1 | 3206.0 | 3300.8 | 3500.4 | 3677.5 | 3682.5 |
| 22.5° | 3463.0 | 3450.5 | 3358.2 | 3206.0 | 3098.7 | 3101.2 | 3360.7 | 3470.5 | 3715.0 | 3909.6 | 3882.1 |
| 25° | 4134.1 | 4126.6 | 3984.4 | 3734.9 | 3455.5 | 3360.7 | 3557.8 | 3670.1 | 3969.4 | 4176.5 | 4089.2 |
| 27.5° | 4967.4 | 4915.0 | 4747.9 | 4411.0 | 3994.4 | 3697.5 | 3807.3 | 3907.1 | 4238.9 | 4433.5 | 4268.8 |
| 30° | 5693.4 | 5695.9 | 5538.8 | 5187.0 | 4717.9 | 4204.0 | 4111.7 | 4199.0 | 4485.9 | 4690.5 | 4490.9 |
| 32.5° | 6392.0 | 6414.5 | 6242.3 | 5925.5 | 5411.5 | 4865.1 | 4548.3 | 4563.2 | 4802.8 | 5024.8 | 4782.8 |
| 35° | 7040.7 | 7058.2 | 6938.4 | 6669.0 | 6189.9 | 5556.2 | 5157.0 | 5149.6 | 5279.3 | 5506.3 | 5189.5 |
| 37.5° | 7766.7 | 7784.2 | 7666.9 | 7424.9 | 6975.8 | 6347.1 | 5848.1 | 5838.2 | 5890.5 | 6075.2 | 5713.4 |
| 40° | 8540.2 | 8572.6 | 8442.9 | 8238.3 | 7809.2 | 7277.7 | 6651.5 | 6561.7 | 6509.3 | 6726.4 | 6392.0 |
| 42.5° | 9323.6 | 9373.5 | 9328.6 | 9124.0 | 8757.2 | 8318.1 | 7694.4 | 7554.7 | 7442.4 | 7714.3 | 7360.1 |
| 45° | 10296.6 | 10356.5 | 10336.5 | 10179.3 | 9894.9 | 9538.1 | 8949.3 | 8787.2 | 8734.8 | 8986.8 | 8565.1 |
| 47.5° | 11232.2 | 11297.1 | 11369.4 | 11334.5 | 11132.4 | 10967.7 | 10314.1 | 10221.8 | 10206.8 | 10476.2 | 9822.6 |
| 50° | 11928.3 | 11988.2 | 12265.1 | 12464.7 | 12601.9 | 12567.0 | 12000.6 | 11863.4 | 11841.0 | 12013.1 | 11149.9 |
| 52.5° | 12427.3 | 12484.7 | 12866.4 | 13490.1 | 13994.1 | 14268.5 | 13697.2 | 13667.3 | 13545.0 | 13485.1 | 12392.4 |
| 55° | 12814.0 | 12893.8 | 13295.5 | 14238.6 | 15254.0 | 15862.8 | 15506.0 | 15398.8 | 15084.4 | 14740.1 | 13545.0 |
| 57.5° | 12891.3 | 12923.8 | 13490.1 | 14762.5 | 16232.1 | 17217.6 | 17217.6 | 17030.4 | 16424.2 | 15947.6 | 14877.3 |
| 60° | 12197.7 | 12297.5 | 13063.5 | 14720.1 | 16651.2 | 18103.3 | 18637.2 | 18507.4 | 17689.1 | 17102.8 | 16159.7 |
| 62.5° | 10658.4 | 10770.6 | 11703.8 | 13704.7 | 16232.1 | 18285.4 | 19712.5 | 19692.5 | 18769.4 | 18058.4 | 17222.6 |
| 65° | 8173.4 | 8255.7 | 9069.1 | 11464.2 | 14460.7 | 17584.3 | 20480.9 | 20535.8 | 19622.7 | 18689.6 | 17589.3 |
| 67.5° | 4106.7 | 4164.1 | 5042.3 | 7831.6 | 11461.7 | 15565.9 | 20428.5 | 20673.1 | 19882.2 | 18355.3 | 16189.6 |
| 70° | 1434.6 | 1492.0 | 1906.1 | 3360.7 | 6975.8 | 11885.9 | 18662.1 | 19061.3 | 18357.7 | 15668.2 | 11943.3 |
| 72.5° | 491.5 | 518.9 | 790.9 | 1247.5 | 2714.5 | 7045.7 | 14191.2 | 14792.5 | 13532.5 | 10518.7 | 6863.6 |
| 75° | 279.4 | 296.9 | 424.1 | 676.1 | 1137.7 | 2317.8 | 8051.2 | 8420.4 | 7889.0 | 5733.4 | 2824.3 |
| 77.5° | 189.6 | 204.6 | 264.5 | 384.2 | 628.7 | 746.0 | 3283.3 | 4134.1 | 3605.2 | 1871.2 | 721.0 |
| 80° | 112.3 | 122.3 | 162.2 | 227.0 | 321.8 | 289.4 | 703.6 | 935.6 | 1205.1 | 558.9 | 217.1 |
| 82.5° | 52.4 | 59.9 | 104.8 | 149.7 | 162.2 | 122.3 | 207.1 | 252.0 | 339.3 | 274.4 | 89.8 |
| 85° | 0.0 | 0.0 | 34.9 | 62.4 | 59.9 | 34.9 | 57.4 | 62.4 | 92.3 | 137.2 | 34.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 5.0 | 7.5 | 15.0 | 27.4 | 15.0 |
| 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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CATALOG NUMBER: GWS-SA4F-750-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 | 2784.4 |
| 2.5° | 2794.3 | 2776.9 | 2796.8 | 2786.8 | 2796.8 | 2794.3 | 2774.4 | 2761.9 | 2761.9 | 2739.4 | 2732.0 |
| 5° | 2829.3 | 2811.8 | 2816.8 | 2794.3 | 2789.3 | 2776.9 | 2751.9 | 2741.9 | 2741.9 | 2719.5 | 2712.0 |
| 7.5° | 2906.6 | 2879.2 | 2874.2 | 2829.3 | 2809.3 | 2774.4 | 2729.5 | 2712.0 | 2709.5 | 2687.0 | 2679.6 |
| 10° | 3028.9 | 2996.4 | 2974.0 | 2916.6 | 2859.2 | 2789.3 | 2694.5 | 2614.7 | 2569.8 | 2509.9 | 2504.9 |
| 12.5° | 3178.6 | 3138.6 | 3103.7 | 3016.4 | 2921.6 | 2764.4 | 2485.0 | 2193.0 | 2013.4 | 1871.2 | 1881.2 |
| 15° | 3345.7 | 3308.3 | 3253.4 | 3121.2 | 2926.6 | 2517.4 | 1933.6 | 1484.5 | 1264.9 | 1147.7 | 1142.7 |
| 17.5° | 3527.8 | 3473.0 | 3383.1 | 3203.5 | 2769.4 | 1923.6 | 1257.4 | 888.2 | 773.4 | 733.5 | 723.5 |
| 20° | 3697.5 | 3630.1 | 3517.9 | 3221.0 | 2315.3 | 1302.4 | 785.9 | 688.6 | 668.6 | 656.2 | 656.2 |
| 22.5° | 3877.1 | 3792.3 | 3625.1 | 3086.2 | 1721.5 | 833.3 | 668.6 | 646.2 | 631.2 | 613.8 | 611.3 |
| 25° | 4059.3 | 3949.5 | 3722.4 | 2734.5 | 1127.7 | 656.2 | 626.2 | 601.3 | 573.8 | 546.4 | 538.9 |
| 27.5° | 4213.9 | 4071.7 | 3797.3 | 2210.5 | 723.5 | 591.3 | 571.3 | 528.9 | 491.5 | 461.6 | 456.6 |
| 30° | 4398.6 | 4216.4 | 3829.7 | 1616.7 | 568.8 | 521.4 | 491.5 | 446.6 | 401.7 | 371.7 | 361.8 |
| 32.5° | 4645.6 | 4446.0 | 3779.8 | 1052.9 | 504.0 | 459.1 | 411.7 | 359.3 | 314.4 | 281.9 | 276.9 |
| 35° | 5029.8 | 4792.8 | 3550.3 | 671.1 | 456.6 | 396.7 | 339.3 | 284.4 | 247.0 | 222.0 | 217.1 |
| 37.5° | 5498.8 | 5279.3 | 3173.6 | 504.0 | 409.2 | 344.3 | 276.9 | 224.5 | 197.1 | 179.6 | 174.6 |
| 40° | 6194.9 | 5888.1 | 2707.0 | 441.6 | 361.8 | 291.9 | 227.0 | 184.6 | 164.7 | 149.7 | 144.7 |
| 42.5° | 7098.1 | 6606.6 | 2170.6 | 401.7 | 316.9 | 244.5 | 184.6 | 152.2 | 134.7 | 124.7 | 122.3 |
| 45° | 8153.5 | 7307.7 | 1604.2 | 361.8 | 274.4 | 202.1 | 152.2 | 124.7 | 112.3 | 104.8 | 102.3 |
| 47.5° | 9233.8 | 7921.4 | 1107.8 | 319.4 | 234.5 | 167.2 | 127.2 | 107.3 | 97.3 | 87.3 | 84.8 |
| 50° | 10386.4 | 8440.4 | 756.0 | 276.9 | 199.6 | 137.2 | 109.8 | 97.3 | 84.8 | 77.3 | 74.8 |
| 52.5° | 11232.2 | 8632.5 | 526.4 | 239.5 | 169.7 | 117.3 | 97.3 | 87.3 | 77.3 | 67.4 | 64.9 |
| 55° | 12013.1 | 8627.5 | 399.2 | 202.1 | 144.7 | 102.3 | 87.3 | 77.3 | 67.4 | 59.9 | 57.4 |
| 57.5° | 12791.5 | 8560.1 | 314.4 | 172.2 | 124.7 | 92.3 | 77.3 | 67.4 | 62.4 | 52.4 | 49.9 |
| 60° | 13295.5 | 8305.6 | 244.5 | 144.7 | 107.3 | 79.8 | 67.4 | 59.9 | 52.4 | 44.9 | 42.4 |
| 62.5° | 13562.5 | 7951.4 | 187.1 | 114.8 | 87.3 | 69.9 | 59.9 | 52.4 | 44.9 | 37.4 | 34.9 |
| 65° | 13200.7 | 7322.6 | 147.2 | 89.8 | 67.4 | 59.9 | 49.9 | 42.4 | 34.9 | 27.4 | 24.9 |
| 67.5° | 11596.5 | 6175.0 | 114.8 | 72.4 | 52.4 | 44.9 | 42.4 | 34.9 | 24.9 | 20.0 | 17.5 |
| 70° | 8195.9 | 4228.9 | 89.8 | 54.9 | 39.9 | 34.9 | 32.4 | 27.4 | 20.0 | 15.0 | 12.5 |
| 72.5° | 4498.4 | 2133.2 | 64.9 | 39.9 | 29.9 | 27.4 | 24.9 | 22.5 | 17.5 | 12.5 | 12.5 |
| 75° | 1731.5 | 586.3 | 47.4 | 27.4 | 20.0 | 20.0 | 17.5 | 17.5 | 15.0 | 10.0 | 10.0 |
| 77.5° | 451.6 | 174.6 | 29.9 | 17.5 | 12.5 | 12.5 | 12.5 | 10.0 | 10.0 | 7.5 | 7.5 |
| 80° | 144.7 | 57.4 | 17.5 | 12.5 | 10.0 | 7.5 | 7.5 | 5.0 | 7.5 | 5.0 | 5.0 |
| 82.5° | 47.4 | 20.0 | 10.0 | 10.0 | 7.5 | 5.0 | 5.0 | 2.5 | 2.5 | 0.0 | 0.0 |
| 85° | 17.5 | 10.0 | 7.5 | 5.0 | 5.0 | 5.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.0 | 5.0 | 5.0 | 5.0 | 5.0 | 2.5 | 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)