

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: P639742

Luminaire Tested: GWS-SA5C-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18762.2 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

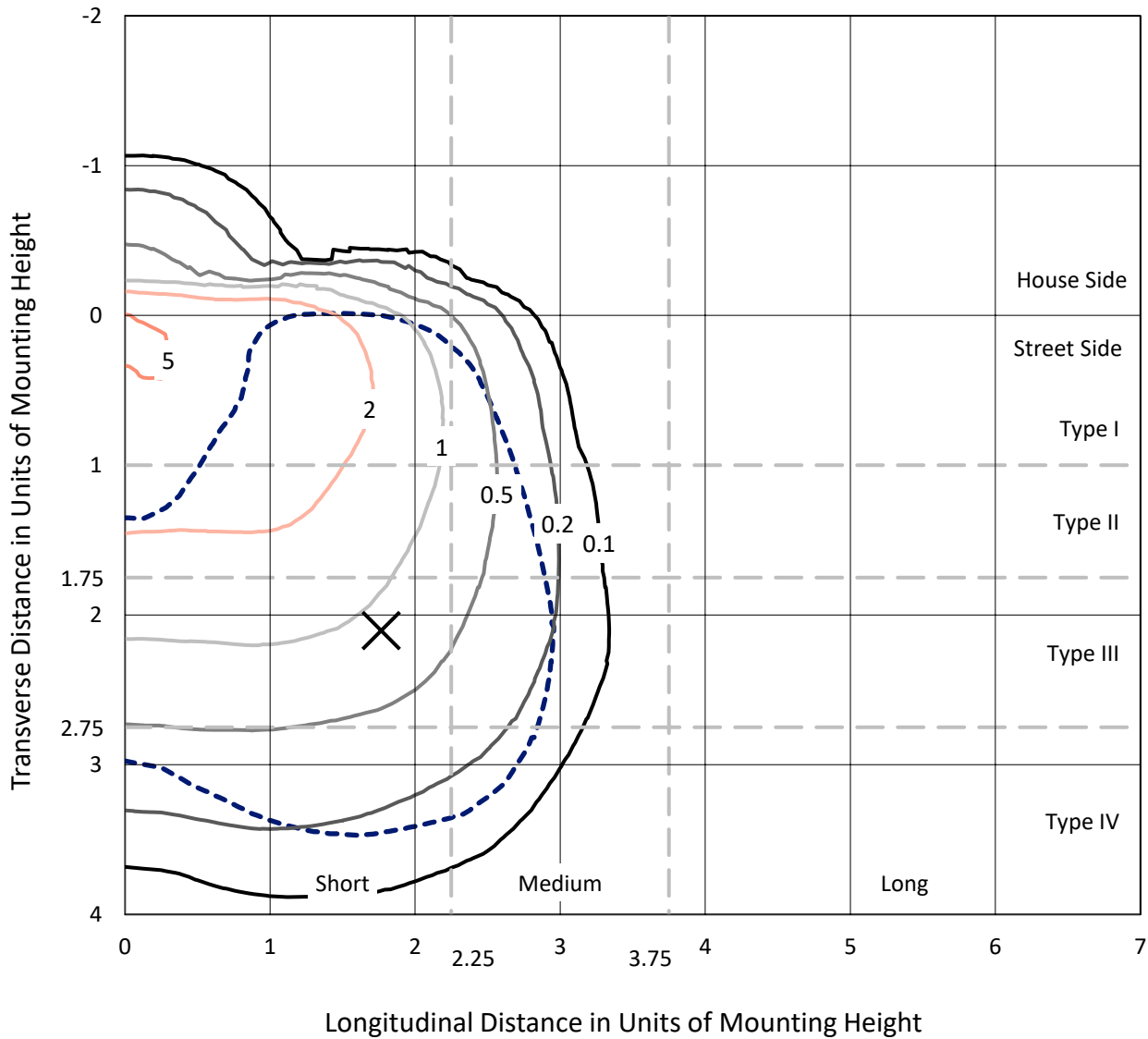
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

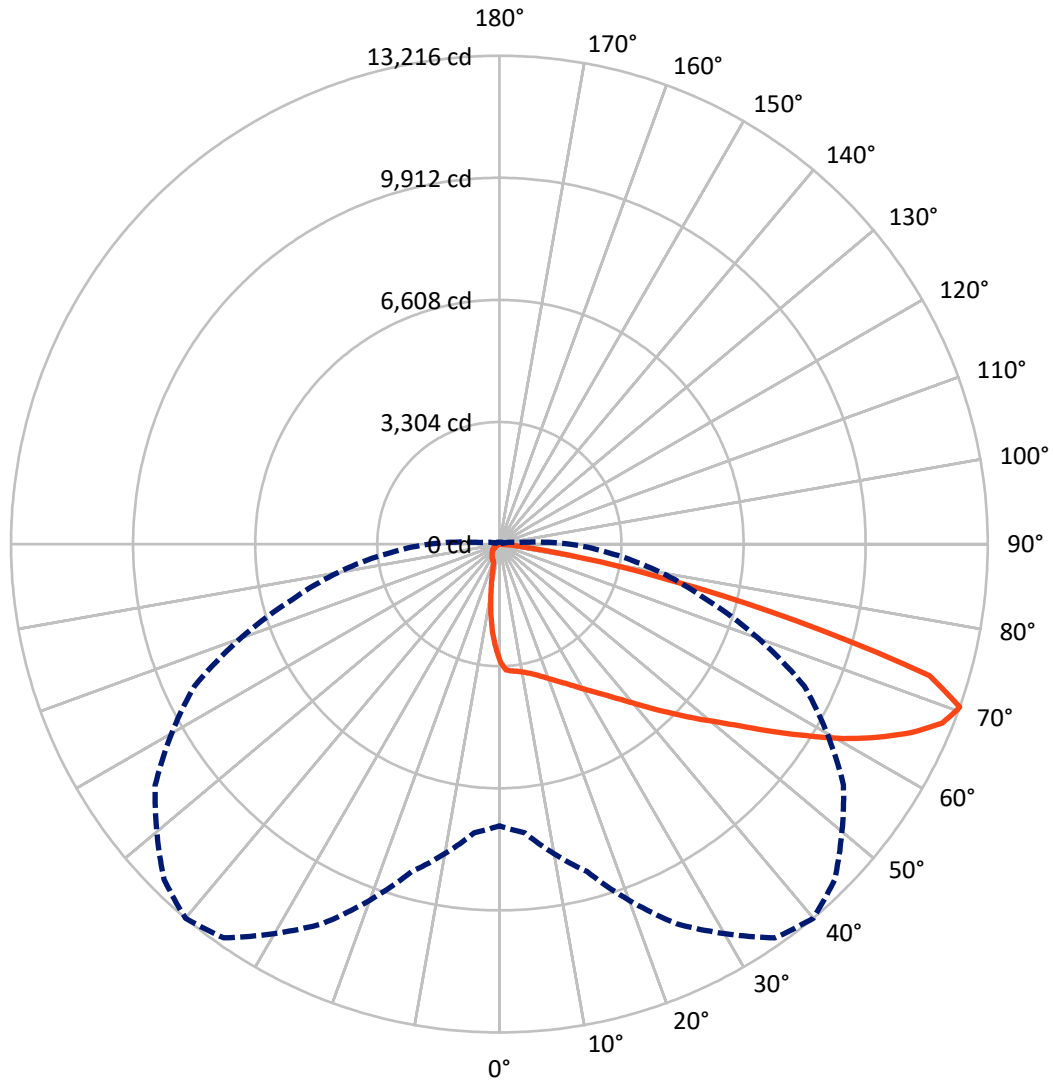
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1534.3 | 0.0 | 1534.3 |
| | % Fixture | 8.2 | 0.0 | 8.2 |
| Street Side | Lumens | 17227.9 | 0.0 | 17227.9 |
| | % Fixture | 91.8 | 0.0 | 91.8 |
| Total | Lumens | 18762.2 | 0.0 | 18762.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 269.1 | 1.4 |
| 10°-20° | 682.5 | 3.6 |
| 20°-30° | 1142.2 | 6.1 |
| 30°-40° | 1794.0 | 9.6 |
| 40°-50° | 2837.7 | 15.1 |
| 50°-60° | 4139.5 | 22.1 |
| 60°-70° | 5131.5 | 27.4 |
| 70°-80° | 2596.2 | 13.8 |
| 80°-90° | 169.5 | 0.9 |
| 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° | 18762.2 | 100.0 |
| 0°-180° | 18762.2 | 100.0 |

Coefficient of Utilization



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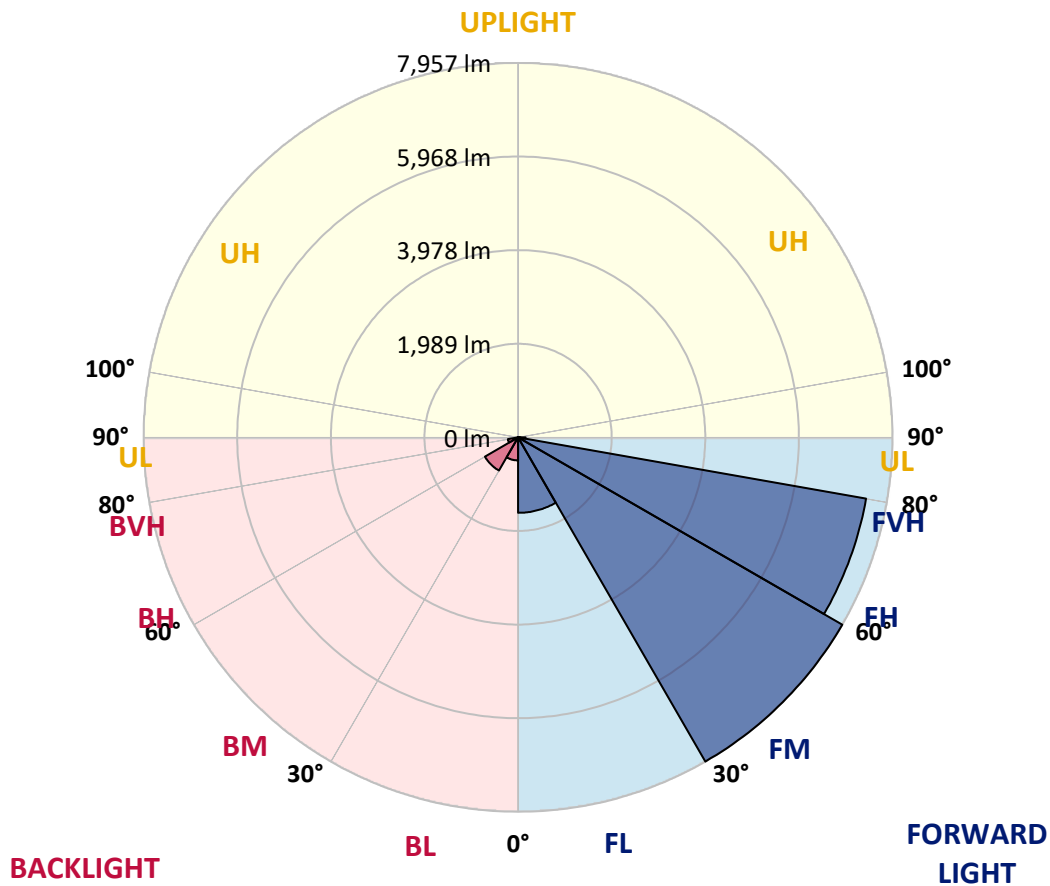
CATALOG NUMBER: GWS-SA5C-740-U-SL4-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1603.8 | 8.5 | | | |
| FM (30°-60°) | 7956.8 | 42.4 | | | |
| FH (60°-80°) | 7509.0 | 40.0 | | | G4/12000 |
| FVH (80°-90°) | 158.3 | 0.8 | | | G2/225 |
| BL (0°-30°) | 490.0 | 2.6 | B1/500 | | |
| BM (30°-60°) | 814.4 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 218.8 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 |
| 2.5° | 3422.7 | 3434.7 | 3433.0 | 3438.1 | 3426.1 | 3407.3 | 3403.9 | 3378.3 | 3332.2 | 3274.2 | 3209.3 |
| 5° | 3492.7 | 3506.4 | 3496.1 | 3491.0 | 3468.8 | 3448.3 | 3443.2 | 3415.9 | 3363.0 | 3284.4 | 3171.8 |
| 7.5° | 3552.5 | 3555.9 | 3549.0 | 3537.1 | 3504.7 | 3477.3 | 3458.6 | 3421.0 | 3357.8 | 3279.3 | 3149.6 |
| 10° | 3562.7 | 3561.0 | 3564.4 | 3566.1 | 3545.6 | 3521.7 | 3506.4 | 3455.1 | 3374.9 | 3291.3 | 3151.3 |
| 12.5° | 3550.7 | 3550.7 | 3572.9 | 3598.5 | 3598.5 | 3586.6 | 3571.2 | 3525.1 | 3431.2 | 3332.2 | 3185.4 |
| 15° | 3566.1 | 3571.2 | 3613.9 | 3661.7 | 3677.1 | 3665.1 | 3658.3 | 3610.5 | 3513.2 | 3403.9 | 3246.9 |
| 17.5° | 3620.7 | 3625.9 | 3694.1 | 3765.8 | 3784.6 | 3771.0 | 3757.3 | 3709.5 | 3605.4 | 3485.9 | 3316.9 |
| 20° | 3701.0 | 3714.6 | 3801.7 | 3893.9 | 3910.9 | 3893.9 | 3866.6 | 3800.0 | 3695.8 | 3574.6 | 3383.4 |
| 22.5° | 3847.8 | 3856.3 | 3950.2 | 4047.5 | 4056.0 | 4028.7 | 3987.8 | 3895.6 | 3786.3 | 3668.5 | 3458.6 |
| 25° | 4042.4 | 4054.3 | 4148.2 | 4242.1 | 4219.9 | 4179.0 | 4122.6 | 4018.5 | 3893.9 | 3779.5 | 3554.2 |
| 27.5° | 4274.6 | 4288.2 | 4380.4 | 4462.3 | 4404.3 | 4356.5 | 4293.3 | 4163.6 | 4037.3 | 3933.1 | 3677.1 |
| 30° | 4525.5 | 4537.4 | 4619.4 | 4692.8 | 4616.0 | 4559.6 | 4484.5 | 4351.4 | 4223.3 | 4144.8 | 3851.2 |
| 32.5° | 4767.9 | 4766.2 | 4844.7 | 4904.5 | 4825.9 | 4781.6 | 4713.3 | 4578.4 | 4476.0 | 4441.8 | 4110.7 |
| 35° | 4993.2 | 4993.2 | 5058.1 | 5117.9 | 5061.5 | 5037.6 | 4974.5 | 4866.9 | 4808.9 | 4849.8 | 4457.2 |
| 37.5° | 5220.3 | 5208.3 | 5269.8 | 5336.4 | 5331.2 | 5332.9 | 5297.1 | 5245.9 | 5249.3 | 5394.4 | 4933.5 |
| 40° | 5408.1 | 5402.9 | 5474.6 | 5561.7 | 5630.0 | 5684.6 | 5662.4 | 5681.2 | 5788.7 | 6060.2 | 5542.9 |
| 42.5° | 5558.3 | 5570.2 | 5662.4 | 5800.7 | 5973.1 | 6084.1 | 6099.4 | 6176.2 | 6452.8 | 6872.7 | 6230.9 |
| 45° | 5730.7 | 5732.4 | 5860.4 | 6072.1 | 6347.0 | 6522.8 | 6584.2 | 6782.3 | 7174.9 | 7716.0 | 6985.4 |
| 47.5° | 5942.4 | 5921.9 | 6065.3 | 6362.3 | 6760.1 | 7019.5 | 7128.8 | 7376.3 | 7984.1 | 8538.9 | 7600.0 |
| 50° | 6176.2 | 6138.7 | 6300.9 | 6705.4 | 7222.7 | 7547.0 | 7769.0 | 8130.9 | 8786.4 | 9214.9 | 8057.5 |
| 52.5° | 6447.7 | 6411.8 | 6596.2 | 7099.8 | 7777.5 | 8171.8 | 8456.9 | 8822.2 | 9474.3 | 9730.4 | 8330.6 |
| 55° | 6792.5 | 6756.7 | 6951.3 | 7572.6 | 8433.0 | 8945.1 | 9243.9 | 9551.2 | 10114.5 | 10111.1 | 8528.6 |
| 57.5° | 7174.9 | 7125.4 | 7395.1 | 8170.1 | 9250.7 | 9783.3 | 10087.2 | 10237.4 | 10601.0 | 10406.4 | 8661.8 |
| 60° | 7613.6 | 7569.2 | 7943.1 | 8882.0 | 10194.7 | 10688.1 | 10879.3 | 10817.8 | 11000.5 | 10580.5 | 8615.7 |
| 62.5° | 8009.7 | 7989.2 | 8453.5 | 9636.5 | 11094.4 | 11510.9 | 11563.8 | 11295.8 | 11294.1 | 10583.9 | 8305.0 |
| 65° | 8421.1 | 8460.3 | 9150.0 | 10505.4 | 11999.1 | 12279.1 | 12188.6 | 11770.4 | 11411.9 | 10165.7 | 7386.6 |
| 67.5° | 8574.7 | 8689.1 | 9609.2 | 11290.7 | 12712.7 | 12931.2 | 12772.4 | 12007.7 | 10922.0 | 8759.1 | 5624.9 |
| 70° | 7625.6 | 7840.7 | 9175.6 | 11335.1 | 13008.0 | 13216.3 | 12835.6 | 11369.2 | 9105.6 | 5802.4 | 3081.3 |
| 72.5° | 5799.0 | 6049.9 | 7646.1 | 9281.4 | 11698.7 | 12173.2 | 11522.8 | 9262.7 | 5869.0 | 2541.9 | 1034.5 |
| 75° | 3245.2 | 3516.6 | 5694.8 | 6988.8 | 7854.3 | 8287.9 | 8048.9 | 5942.4 | 2599.9 | 664.1 | 309.0 |
| 77.5° | 1097.7 | 1188.1 | 2649.4 | 4324.1 | 5184.4 | 4795.2 | 4059.5 | 2951.6 | 956.0 | 252.6 | 163.9 |
| 80° | 650.4 | 684.5 | 986.7 | 2152.6 | 2727.9 | 2261.9 | 1785.6 | 1090.8 | 486.5 | 134.9 | 114.4 |
| 82.5° | 194.6 | 230.5 | 544.6 | 798.9 | 1068.6 | 665.8 | 563.3 | 623.1 | 252.6 | 73.4 | 95.6 |
| 85° | 0.0 | 0.0 | 116.1 | 247.5 | 280.0 | 109.3 | 109.3 | 353.4 | 46.1 | 30.7 | 70.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 8.5 | 5.1 | 6.8 | 15.4 |
| 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° | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 | 3183.7 |
| 2.5° | 3163.2 | 3103.5 | 3033.5 | 2966.9 | 2903.8 | 2821.8 | 2782.6 | 2734.8 | 2693.8 | 2671.6 | 2683.5 |
| 5° | 3100.1 | 3006.2 | 2862.8 | 2717.7 | 2570.9 | 2432.6 | 2308.0 | 2224.3 | 2149.2 | 2110.0 | 2118.5 |
| 7.5° | 3045.4 | 2919.1 | 2695.5 | 2458.2 | 2222.6 | 1985.3 | 1792.4 | 1642.2 | 1526.1 | 1478.3 | 1469.8 |
| 10° | 3021.5 | 2862.8 | 2547.0 | 2205.6 | 1843.7 | 1524.4 | 1251.3 | 1085.7 | 967.9 | 909.9 | 920.1 |
| 12.5° | 3033.5 | 2833.8 | 2420.7 | 1958.0 | 1488.6 | 1116.4 | 855.3 | 699.9 | 616.3 | 582.1 | 573.6 |
| 15° | 3067.6 | 2826.9 | 2308.0 | 1705.4 | 1148.9 | 780.1 | 590.7 | 527.5 | 510.4 | 507.0 | 507.0 |
| 17.5° | 3106.9 | 2828.6 | 2191.9 | 1449.3 | 872.3 | 578.7 | 505.3 | 493.3 | 488.2 | 484.8 | 486.5 |
| 20° | 3146.2 | 2828.6 | 2058.7 | 1189.8 | 655.5 | 500.2 | 481.4 | 472.9 | 467.7 | 466.0 | 466.0 |
| 22.5° | 3194.0 | 2828.6 | 1910.2 | 949.1 | 525.8 | 474.6 | 459.2 | 454.1 | 449.0 | 447.3 | 445.6 |
| 25° | 3252.0 | 2830.4 | 1746.4 | 742.6 | 478.0 | 452.4 | 440.4 | 435.3 | 430.2 | 426.8 | 426.8 |
| 27.5° | 3335.7 | 2844.0 | 1565.4 | 578.7 | 450.7 | 431.9 | 421.7 | 416.5 | 411.4 | 406.3 | 406.3 |
| 30° | 3456.9 | 2878.2 | 1362.3 | 478.0 | 425.1 | 409.7 | 399.5 | 396.0 | 390.9 | 385.8 | 384.1 |
| 32.5° | 3637.8 | 2937.9 | 1152.3 | 428.5 | 401.2 | 385.8 | 373.9 | 370.4 | 365.3 | 360.2 | 358.5 |
| 35° | 3890.5 | 3047.2 | 947.4 | 397.8 | 370.4 | 355.1 | 348.2 | 346.5 | 339.7 | 334.6 | 334.6 |
| 37.5° | 4260.9 | 3224.7 | 751.1 | 367.0 | 344.8 | 332.9 | 324.3 | 320.9 | 314.1 | 309.0 | 307.3 |
| 40° | 4713.3 | 3455.1 | 583.8 | 343.1 | 320.9 | 309.0 | 300.4 | 295.3 | 286.8 | 280.0 | 276.5 |
| 42.5° | 5290.3 | 3736.8 | 460.9 | 317.5 | 298.7 | 286.8 | 280.0 | 269.7 | 257.8 | 247.5 | 245.8 |
| 45° | 5891.2 | 4027.0 | 380.7 | 293.6 | 278.3 | 268.0 | 259.5 | 245.8 | 228.7 | 216.8 | 213.4 |
| 47.5° | 6352.1 | 4208.0 | 332.9 | 268.0 | 256.1 | 247.5 | 237.3 | 220.2 | 199.7 | 186.1 | 182.7 |
| 50° | 6681.5 | 4235.3 | 297.0 | 244.1 | 237.3 | 228.7 | 213.4 | 192.9 | 170.7 | 157.1 | 153.6 |
| 52.5° | 6843.7 | 4112.4 | 268.0 | 221.9 | 216.8 | 208.3 | 189.5 | 167.3 | 143.4 | 129.7 | 126.3 |
| 55° | 6917.1 | 3880.2 | 240.7 | 203.1 | 196.3 | 186.1 | 165.6 | 141.7 | 117.8 | 105.8 | 102.4 |
| 57.5° | 6888.1 | 3537.1 | 216.8 | 184.4 | 175.8 | 163.9 | 141.7 | 116.1 | 97.3 | 85.4 | 83.6 |
| 60° | 6673.0 | 3055.7 | 192.9 | 165.6 | 155.3 | 141.7 | 119.5 | 95.6 | 78.5 | 70.0 | 68.3 |
| 62.5° | 6208.7 | 2458.2 | 169.0 | 143.4 | 136.6 | 122.9 | 102.4 | 78.5 | 64.9 | 59.7 | 58.0 |
| 65° | 5257.8 | 1737.8 | 145.1 | 121.2 | 117.8 | 104.1 | 85.4 | 64.9 | 56.3 | 52.9 | 51.2 |
| 67.5° | 3779.5 | 1056.7 | 122.9 | 104.1 | 100.7 | 88.8 | 71.7 | 56.3 | 51.2 | 49.5 | 49.5 |
| 70° | 1900.0 | 500.2 | 97.3 | 85.4 | 85.4 | 73.4 | 61.5 | 51.2 | 49.5 | 47.8 | 47.8 |
| 72.5° | 645.3 | 213.4 | 73.4 | 66.6 | 70.0 | 63.2 | 52.9 | 47.8 | 47.8 | 47.8 | 47.8 |
| 75° | 220.2 | 112.7 | 51.2 | 47.8 | 51.2 | 51.2 | 46.1 | 46.1 | 47.8 | 47.8 | 47.8 |
| 77.5° | 143.4 | 75.1 | 35.8 | 32.4 | 39.3 | 39.3 | 39.3 | 42.7 | 46.1 | 46.1 | 46.1 |
| 80° | 117.8 | 41.0 | 23.9 | 22.2 | 29.0 | 29.0 | 32.4 | 39.3 | 42.7 | 42.7 | 42.7 |
| 82.5° | 100.7 | 25.6 | 13.7 | 15.4 | 20.5 | 22.2 | 27.3 | 32.4 | 37.6 | 39.3 | 39.3 |
| 85° | 68.3 | 13.7 | 10.2 | 11.9 | 13.7 | 17.1 | 22.2 | 27.3 | 30.7 | 34.1 | 34.1 |
| 87.5° | 18.8 | 5.1 | 6.8 | 8.5 | 8.5 | 11.9 | 17.1 | 20.5 | 23.9 | 25.6 | 25.6 |
| 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)