

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: P641992

Luminaire Tested: GWS-SA6C-722-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-722-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20553.3 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

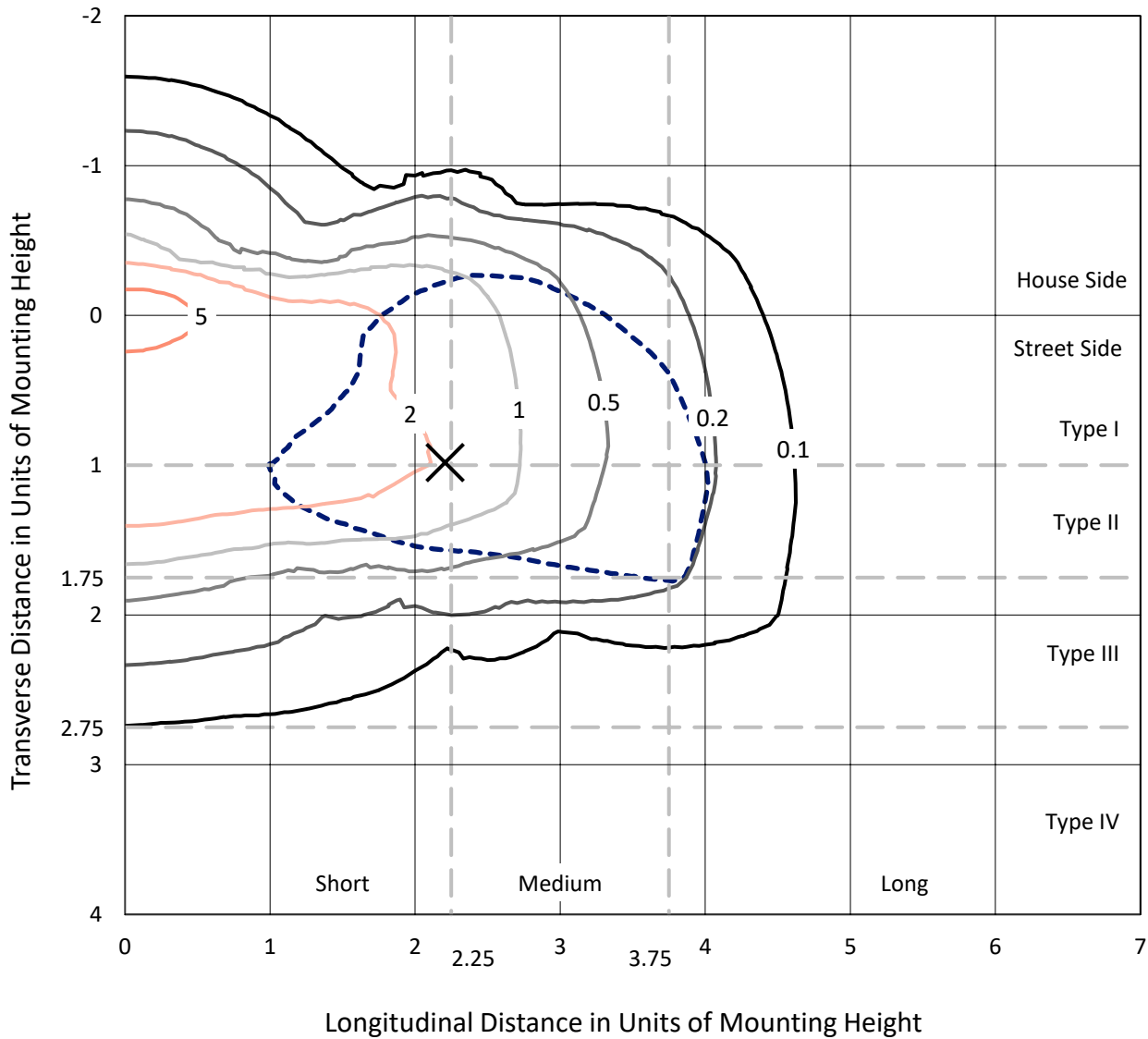
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

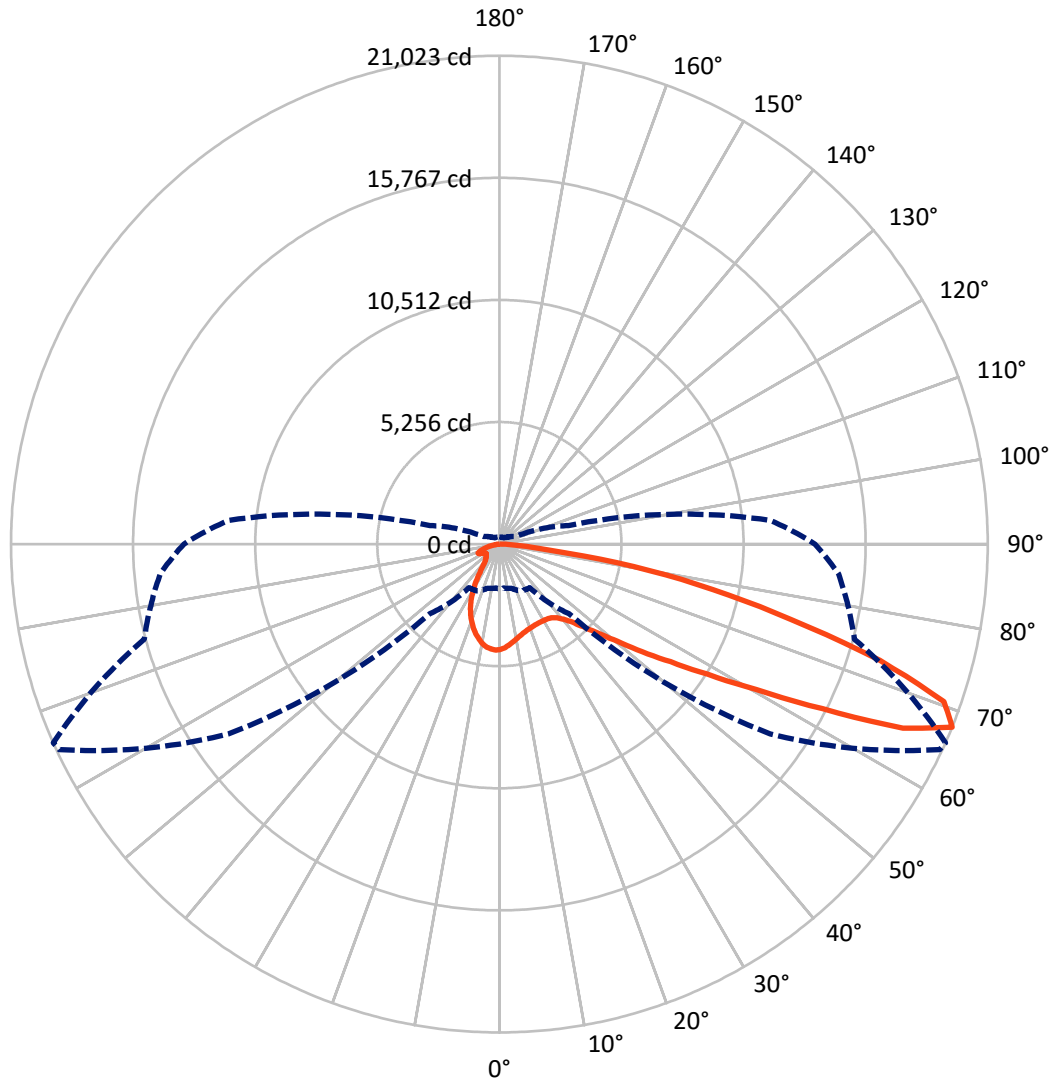
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4170.7 | 0.0 | 4170.7 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 16382.6 | 0.0 | 16382.6 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 20553.3 | 0.0 | 20553.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 398.6 | 1.9 |
| 10°-20° | 979.6 | 4.8 |
| 20°-30° | 1346.5 | 6.6 |
| 30°-40° | 1840.8 | 9.0 |
| 40°-50° | 2789.4 | 13.6 |
| 50°-60° | 4336.1 | 21.1 |
| 60°-70° | 5279.2 | 25.7 |
| 70°-80° | 3215.8 | 15.6 |
| 80°-90° | 367.3 | 1.8 |
| 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° | 20553.3 | 100.0 |
| 0°-180° | 20553.3 | 100.0 |

Coefficient of Utilization



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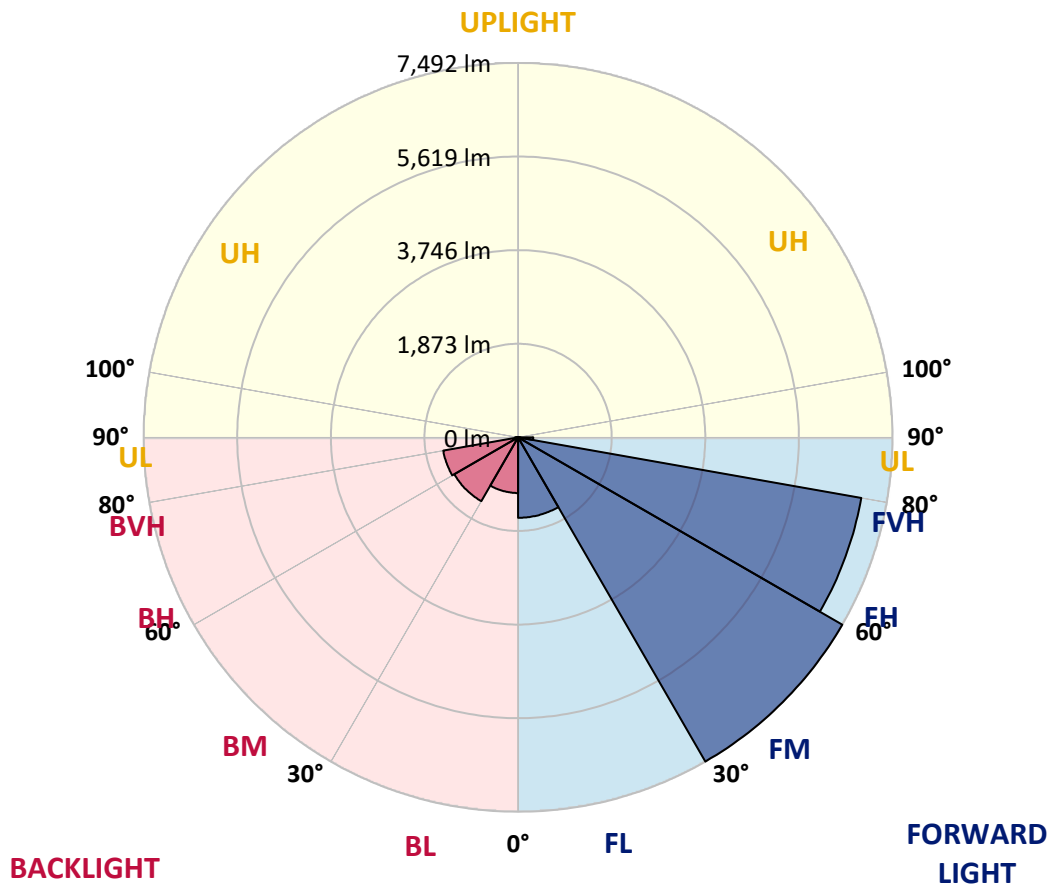
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1610.4 | 7.8 | | | |
| FM (30°-60°) | 7492.5 | 36.5 | | | |
| FH (60°-80°) | 6974.3 | 33.9 | | | G3/7500 |
| FVH (80°-90°) | 305.4 | 1.5 | | | G3/500 |
| BL (0°-30°) | 1114.2 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 1473.9 | 7.2 | B2/2500 | | |
| BH (60°-80°) | 1520.7 | 7.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 61.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 |
| 2.5° | 4253.8 | 4268.8 | 4259.8 | 4316.8 | 4319.8 | 4391.8 | 4432.2 | 4466.7 | 4469.7 | 4514.7 | 4544.7 |
| 5° | 3962.9 | 3971.9 | 3971.9 | 4025.9 | 4061.9 | 4157.8 | 4250.8 | 4349.8 | 4357.3 | 4465.2 | 4547.7 |
| 7.5° | 3727.5 | 3736.5 | 3730.5 | 3802.5 | 3849.0 | 3955.4 | 4073.9 | 4225.3 | 4240.3 | 4414.2 | 4558.2 |
| 10° | 3543.1 | 3540.1 | 3555.1 | 3621.1 | 3681.0 | 3808.5 | 3940.4 | 4112.9 | 4135.4 | 4355.8 | 4570.2 |
| 12.5° | 3417.1 | 3420.1 | 3429.1 | 3498.1 | 3562.6 | 3688.5 | 3825.0 | 4012.4 | 4036.4 | 4288.3 | 4564.2 |
| 15° | 3357.2 | 3351.2 | 3358.7 | 3421.6 | 3483.1 | 3594.1 | 3735.0 | 3928.4 | 3952.4 | 4228.3 | 4565.7 |
| 17.5° | 3343.7 | 3339.2 | 3337.7 | 3382.7 | 3429.1 | 3532.6 | 3667.5 | 3864.0 | 3889.5 | 4189.3 | 4574.7 |
| 20° | 3385.7 | 3379.7 | 3363.2 | 3382.7 | 3402.1 | 3489.1 | 3619.6 | 3817.5 | 3846.0 | 4163.8 | 4592.7 |
| 22.5° | 3501.1 | 3490.6 | 3465.1 | 3441.1 | 3415.6 | 3468.1 | 3589.6 | 3783.0 | 3811.5 | 4147.4 | 4610.7 |
| 25° | 3676.5 | 3667.5 | 3640.6 | 3586.6 | 3493.6 | 3484.6 | 3583.6 | 3768.0 | 3796.5 | 4135.4 | 4618.2 |
| 27.5° | 3917.9 | 3904.4 | 3877.5 | 3799.5 | 3648.1 | 3546.1 | 3606.1 | 3766.5 | 3793.5 | 4121.9 | 4610.7 |
| 30° | 4204.3 | 4195.3 | 4180.3 | 4085.9 | 3883.5 | 3676.5 | 3657.0 | 3778.5 | 3799.5 | 4114.4 | 4595.7 |
| 32.5° | 4495.2 | 4486.2 | 4498.2 | 4453.2 | 4204.3 | 3892.5 | 3768.0 | 3811.5 | 3826.5 | 4112.9 | 4582.2 |
| 35° | 4751.6 | 4762.1 | 4849.1 | 4856.6 | 4612.2 | 4184.8 | 3943.4 | 3888.0 | 3891.0 | 4142.9 | 4588.2 |
| 37.5° | 5020.0 | 5060.5 | 5174.4 | 5271.9 | 5068.0 | 4571.7 | 4204.3 | 4031.9 | 4028.9 | 4219.3 | 4625.7 |
| 40° | 5375.4 | 5393.4 | 5538.8 | 5721.7 | 5594.3 | 5102.5 | 4574.7 | 4267.3 | 4246.3 | 4375.3 | 4726.1 |
| 42.5° | 5721.7 | 5765.2 | 5997.6 | 6207.5 | 6165.6 | 5700.7 | 5041.0 | 4619.7 | 4582.2 | 4651.2 | 4933.0 |
| 45° | 6162.6 | 6204.5 | 6465.4 | 6735.3 | 6811.8 | 6377.0 | 5637.8 | 5120.5 | 5083.0 | 5066.5 | 5312.4 |
| 47.5° | 6603.4 | 6646.9 | 6880.8 | 7270.6 | 7539.0 | 7222.6 | 6414.5 | 5781.7 | 5720.2 | 5655.8 | 5885.2 |
| 50° | 6900.3 | 6951.2 | 7174.6 | 7642.5 | 8272.2 | 8278.2 | 7335.1 | 6648.4 | 6570.4 | 6468.4 | 6691.8 |
| 52.5° | 6889.8 | 6922.7 | 7135.7 | 7675.5 | 8800.0 | 9491.2 | 8567.6 | 7751.9 | 7688.9 | 7467.0 | 7662.0 |
| 55° | 6348.5 | 6398.0 | 6612.4 | 7287.1 | 8857.0 | 10641.3 | 10378.9 | 9053.4 | 8940.9 | 8543.6 | 8758.0 |
| 57.5° | 5261.4 | 5303.4 | 5519.3 | 6351.5 | 8351.7 | 11230.5 | 12679.0 | 10711.7 | 10557.3 | 9716.1 | 9963.5 |
| 60° | 3971.9 | 3920.9 | 4022.9 | 4751.6 | 7143.2 | 11245.5 | 14709.2 | 12960.9 | 12703.0 | 10969.6 | 11176.6 |
| 62.5° | 2980.8 | 2929.8 | 2952.3 | 3157.7 | 4843.1 | 10336.9 | 15866.7 | 16037.6 | 15611.8 | 12385.1 | 12344.6 |
| 65° | 2355.6 | 2327.1 | 2391.5 | 2532.5 | 2823.4 | 7871.9 | 15875.7 | 19364.8 | 19096.4 | 14025.4 | 13542.6 |
| 67.5° | 1919.2 | 1901.2 | 1967.2 | 2228.1 | 2289.6 | 4229.8 | 14235.3 | 20918.2 | 21023.1 | 15821.7 | 14653.7 |
| 70° | 1545.9 | 1518.9 | 1622.4 | 1965.7 | 2129.2 | 2559.5 | 10197.4 | 20126.5 | 20295.9 | 16892.3 | 14340.3 |
| 72.5° | 1067.6 | 1069.1 | 1121.6 | 1592.4 | 2055.7 | 2210.1 | 5768.2 | 16758.8 | 17126.2 | 15922.2 | 12607.0 |
| 75° | 719.7 | 725.7 | 740.7 | 1051.1 | 1893.7 | 2144.1 | 3073.8 | 12688.0 | 12947.4 | 13160.3 | 10420.9 |
| 77.5° | 434.8 | 437.8 | 472.3 | 635.7 | 1306.0 | 2001.7 | 2082.7 | 9197.3 | 9401.3 | 8675.6 | 6459.4 |
| 80° | 251.9 | 262.4 | 293.9 | 425.8 | 881.6 | 1503.9 | 1611.9 | 5639.3 | 5870.2 | 3856.5 | 2052.7 |
| 82.5° | 111.0 | 118.5 | 160.4 | 247.4 | 514.3 | 1279.0 | 1258.0 | 2228.1 | 2195.1 | 1075.1 | 712.2 |
| 85° | 19.5 | 24.0 | 34.5 | 78.0 | 188.9 | 674.7 | 976.1 | 983.6 | 925.1 | 407.8 | 295.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 146.9 | 263.9 | 262.4 | 115.5 | 102.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 |
| 2.5° | 4564.2 | 4523.7 | 4559.7 | 4564.2 | 4556.7 | 4550.7 | 4505.7 | 4466.7 | 4462.2 | 4420.2 | 4420.2 |
| 5° | 4580.7 | 4543.2 | 4561.2 | 4526.7 | 4472.7 | 4417.2 | 4321.3 | 4255.3 | 4225.3 | 4171.3 | 4171.3 |
| 7.5° | 4603.2 | 4564.2 | 4543.2 | 4457.7 | 4331.8 | 4210.3 | 4055.9 | 3926.9 | 3874.5 | 3798.0 | 3795.0 |
| 10° | 4624.2 | 4574.7 | 4502.7 | 4336.3 | 4135.4 | 3941.9 | 3717.0 | 3534.1 | 3409.6 | 3318.2 | 3318.2 |
| 12.5° | 4622.7 | 4558.2 | 4415.7 | 4169.8 | 3892.5 | 3612.1 | 3312.2 | 3036.3 | 2871.4 | 2728.9 | 2719.9 |
| 15° | 4619.7 | 4531.2 | 4304.8 | 3976.4 | 3609.1 | 3220.7 | 2812.9 | 2453.0 | 2208.6 | 2069.2 | 2057.2 |
| 17.5° | 4616.7 | 4496.7 | 4180.3 | 3756.0 | 3264.2 | 2734.9 | 2196.6 | 1806.8 | 1602.9 | 1517.4 | 1520.4 |
| 20° | 4616.7 | 4457.7 | 4046.9 | 3502.6 | 2866.9 | 2153.1 | 1611.9 | 1328.5 | 1277.5 | 1282.0 | 1286.5 |
| 22.5° | 4603.2 | 4409.7 | 3898.5 | 3226.7 | 2424.5 | 1583.4 | 1189.0 | 1093.1 | 1120.1 | 1162.0 | 1168.0 |
| 25° | 4571.7 | 4330.3 | 3726.0 | 2920.8 | 1898.2 | 1153.0 | 970.1 | 952.1 | 1001.6 | 1054.1 | 1069.1 |
| 27.5° | 4522.2 | 4238.8 | 3532.6 | 2562.5 | 1397.4 | 926.6 | 853.2 | 851.7 | 890.6 | 929.6 | 943.1 |
| 30° | 4469.7 | 4136.9 | 3328.7 | 2163.6 | 1012.1 | 806.7 | 778.2 | 778.2 | 797.7 | 821.7 | 818.7 |
| 32.5° | 4408.2 | 4033.4 | 3109.8 | 1748.3 | 824.7 | 739.2 | 730.2 | 725.7 | 728.7 | 737.7 | 737.7 |
| 35° | 4355.8 | 3941.9 | 2884.9 | 1309.0 | 739.2 | 701.7 | 692.7 | 682.2 | 677.7 | 671.7 | 674.7 |
| 37.5° | 4336.3 | 3870.0 | 2652.4 | 986.6 | 697.2 | 674.7 | 659.7 | 644.7 | 634.2 | 631.2 | 629.7 |
| 40° | 4367.8 | 3840.0 | 2420.0 | 812.7 | 667.2 | 646.2 | 629.7 | 610.3 | 601.3 | 601.3 | 601.3 |
| 42.5° | 4490.7 | 3862.5 | 2183.1 | 734.7 | 646.2 | 622.3 | 598.3 | 580.3 | 577.3 | 580.3 | 581.8 |
| 45° | 4715.6 | 3949.4 | 1937.2 | 695.7 | 628.3 | 598.3 | 569.8 | 556.3 | 556.3 | 559.3 | 559.3 |
| 47.5° | 5117.5 | 4177.3 | 1694.3 | 671.7 | 610.3 | 578.8 | 548.8 | 535.3 | 533.8 | 536.8 | 536.8 |
| 50° | 5813.2 | 4588.2 | 1475.4 | 655.2 | 596.8 | 563.8 | 533.8 | 515.8 | 511.3 | 509.8 | 509.8 |
| 52.5° | 6690.3 | 5300.4 | 1336.0 | 643.2 | 580.3 | 547.3 | 517.3 | 493.3 | 484.3 | 479.8 | 479.8 |
| 55° | 7750.4 | 6249.5 | 1336.0 | 634.2 | 559.3 | 527.8 | 493.3 | 469.3 | 455.8 | 449.8 | 449.8 |
| 57.5° | 8951.4 | 7354.6 | 1566.9 | 626.8 | 542.8 | 505.3 | 467.8 | 443.8 | 428.8 | 419.8 | 419.8 |
| 60° | 10173.5 | 8522.6 | 2138.2 | 616.3 | 527.8 | 476.8 | 439.3 | 416.8 | 397.3 | 386.8 | 385.3 |
| 62.5° | 11440.5 | 9809.1 | 2890.9 | 622.3 | 517.3 | 449.8 | 409.3 | 383.8 | 367.4 | 356.9 | 355.4 |
| 65° | 12601.0 | 11034.1 | 3549.1 | 668.7 | 518.8 | 425.8 | 374.9 | 352.4 | 338.9 | 325.4 | 323.9 |
| 67.5° | 13586.1 | 11710.3 | 3087.3 | 763.2 | 550.3 | 397.3 | 340.4 | 317.9 | 305.9 | 296.9 | 295.4 |
| 70° | 12896.4 | 10678.8 | 1751.3 | 821.7 | 593.8 | 367.4 | 301.4 | 286.4 | 274.4 | 268.4 | 266.9 |
| 72.5° | 11028.1 | 9041.4 | 1171.0 | 725.7 | 541.3 | 328.4 | 265.4 | 253.4 | 244.4 | 236.9 | 235.4 |
| 75° | 8933.5 | 7170.2 | 895.1 | 595.3 | 421.3 | 266.9 | 227.9 | 218.9 | 209.9 | 202.4 | 200.9 |
| 77.5° | 5285.4 | 4142.9 | 659.7 | 470.8 | 296.9 | 208.4 | 188.9 | 181.4 | 172.4 | 166.4 | 164.9 |
| 80° | 1686.8 | 1439.4 | 418.3 | 323.9 | 196.4 | 160.4 | 145.4 | 139.4 | 130.4 | 123.0 | 121.5 |
| 82.5° | 643.2 | 556.3 | 221.9 | 164.9 | 130.4 | 109.5 | 97.5 | 91.5 | 85.5 | 78.0 | 76.5 |
| 85° | 284.9 | 266.9 | 123.0 | 88.5 | 70.5 | 54.0 | 48.0 | 45.0 | 37.5 | 31.5 | 30.0 |
| 87.5° | 100.5 | 100.5 | 52.5 | 25.5 | 15.0 | 7.5 | 4.5 | 1.5 | 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)