

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: P639759

Luminaire Tested: GWS-SA5C-740-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-740-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19204.3 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

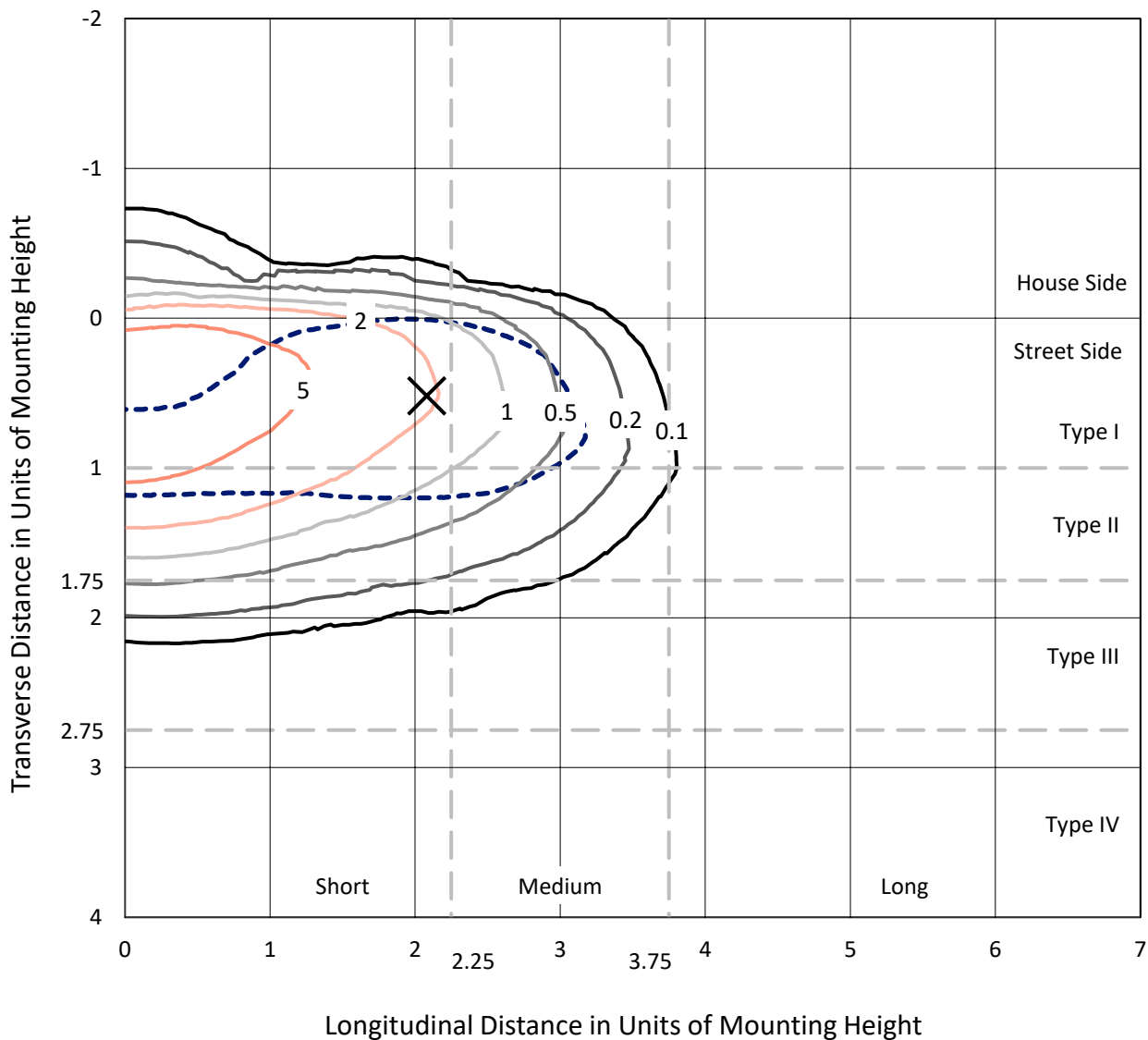
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

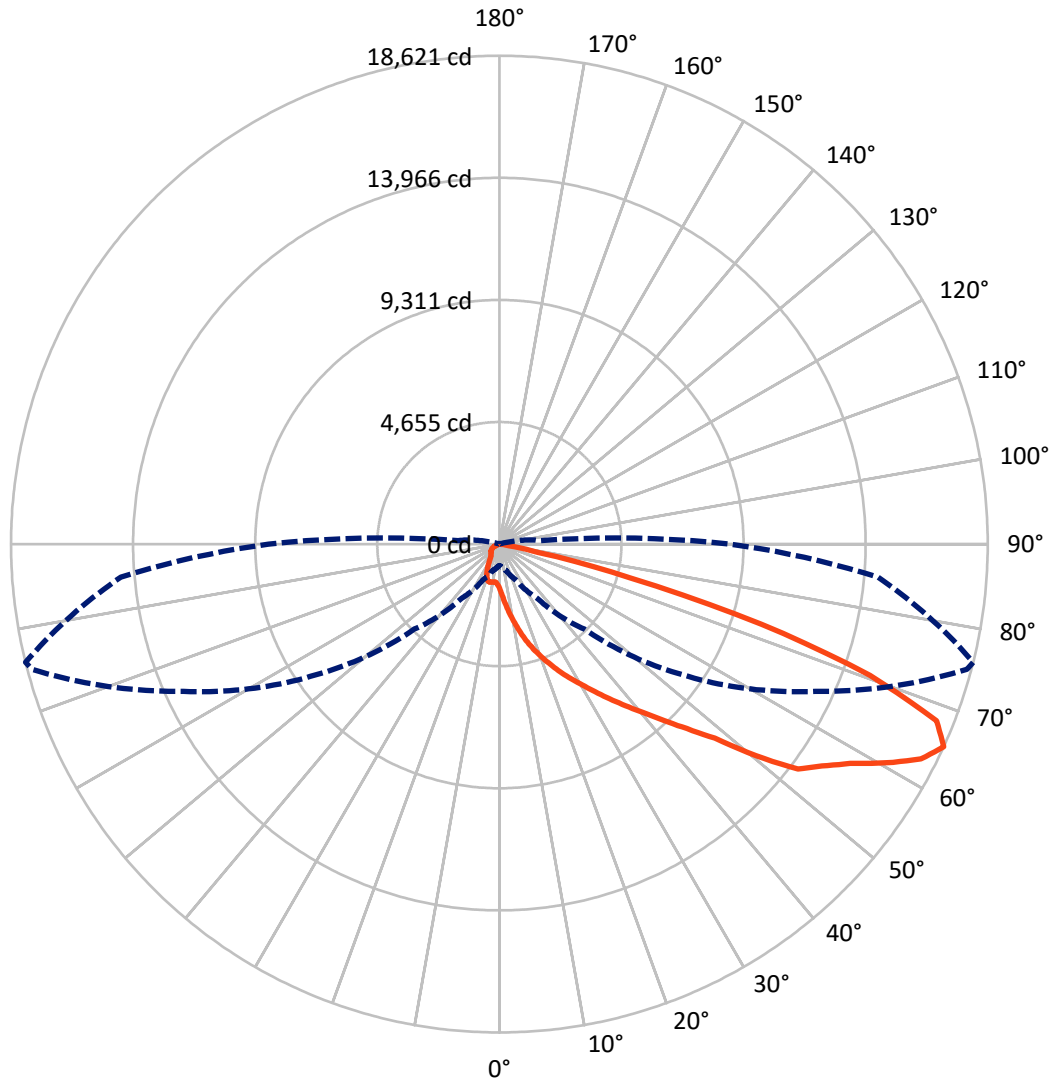
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1061.9 | 0.0 | 1061.9 |
| | % Fixture | 5.5 | 0.0 | 5.5 |
| Street Side | Lumens | 18142.4 | 0.0 | 18142.4 |
| | % Fixture | 94.5 | 0.0 | 94.5 |
| Total | Lumens | 19204.3 | 0.0 | 19204.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 206.8 | 1.1 |
| 10°-20° | 784.9 | 4.1 |
| 20°-30° | 1601.3 | 8.3 |
| 30°-40° | 2847.9 | 14.8 |
| 40°-50° | 4209.9 | 21.9 |
| 50°-60° | 4820.0 | 25.1 |
| 60°-70° | 3677.4 | 19.1 |
| 70°-80° | 1030.1 | 5.4 |
| 80°-90° | 25.9 | 0.1 |
| 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° | 19204.3 | 100.0 |
| 0°-180° | 19204.3 | 100.0 |

Coefficient of Utilization



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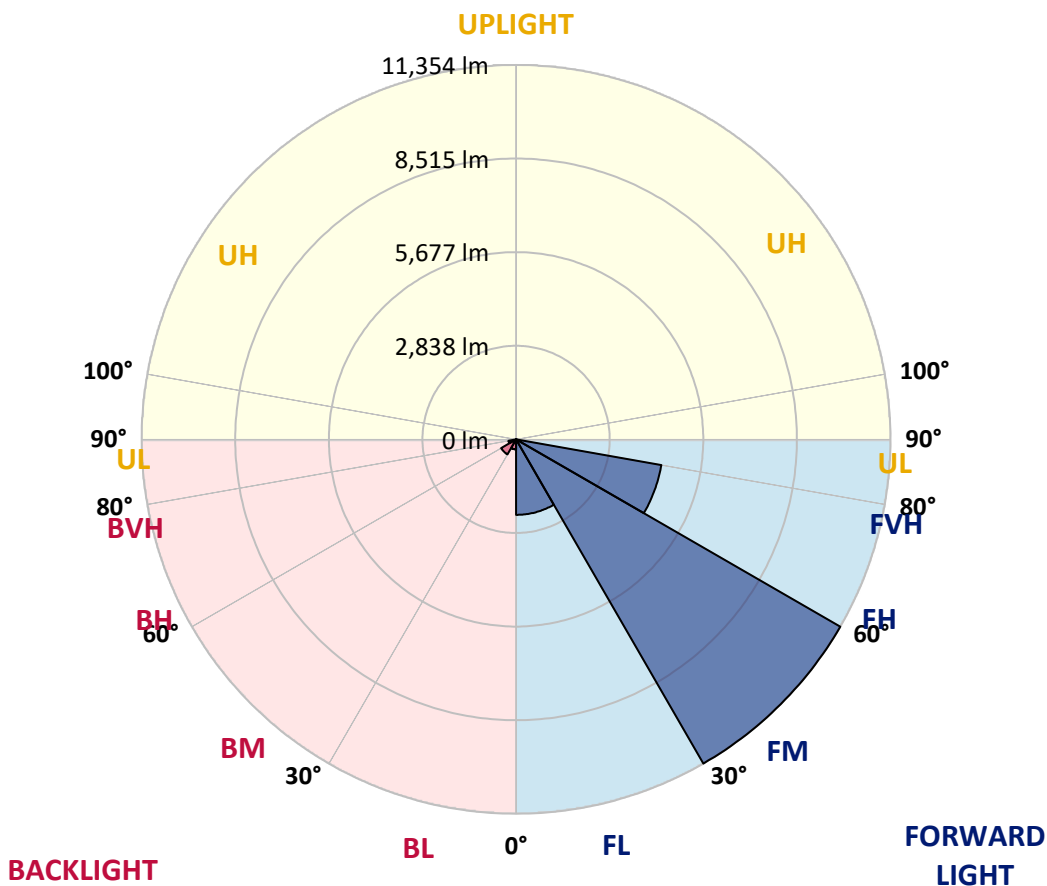
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2290.0 | 11.9 | | | |
| FM (30°-60°) | 11353.9 | 59.1 | | | |
| FH (60°-80°) | 4474.1 | 23.3 | | | G2/5000 |
| FVH (80°-90°) | 24.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 303.0 | 1.6 | B1/500 | | |
| BM (30°-60°) | 523.9 | 2.7 | B1/1000 | | |
| BH (60°-80°) | 233.4 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 |
| 2.5° | 2620.4 | 2659.7 | 2628.9 | 2577.7 | 2478.7 | 2383.1 | 2260.2 | 2091.2 | 1956.3 | 1939.3 | 1813.0 |
| 5° | 3538.8 | 3535.4 | 3468.8 | 3402.3 | 3298.1 | 3134.3 | 2886.7 | 2572.6 | 2270.5 | 2244.8 | 1961.5 |
| 7.5° | 4085.1 | 4090.2 | 4052.7 | 4001.5 | 3899.0 | 3730.0 | 3472.3 | 3093.3 | 2651.1 | 2599.9 | 2164.6 |
| 10° | 4544.3 | 4542.6 | 4515.3 | 4491.4 | 4399.2 | 4286.6 | 4010.0 | 3593.5 | 3060.8 | 2980.6 | 2391.7 |
| 12.5° | 4889.2 | 4901.1 | 4914.8 | 4938.7 | 4899.4 | 4788.4 | 4527.3 | 4073.2 | 3475.7 | 3386.9 | 2651.1 |
| 15° | 5162.3 | 5165.7 | 5216.9 | 5309.1 | 5341.5 | 5283.5 | 5046.2 | 4537.5 | 3885.4 | 3808.6 | 2949.9 |
| 17.5° | 5244.2 | 5251.1 | 5338.1 | 5507.1 | 5677.8 | 5710.3 | 5531.0 | 5005.2 | 4288.3 | 4206.3 | 3240.1 |
| 20° | 5416.7 | 5432.0 | 5496.9 | 5645.4 | 5860.5 | 6034.6 | 5964.6 | 5478.1 | 4691.1 | 4583.6 | 3537.1 |
| 22.5° | 5959.5 | 5968.1 | 5945.9 | 5964.6 | 6075.6 | 6277.0 | 6319.7 | 5935.6 | 5104.3 | 4989.9 | 3858.1 |
| 25° | 6893.3 | 6896.7 | 6741.4 | 6594.6 | 6510.9 | 6548.5 | 6642.4 | 6357.3 | 5514.0 | 5401.3 | 4156.8 |
| 27.5° | 7862.9 | 7874.9 | 7688.8 | 7439.6 | 7140.8 | 6970.1 | 6942.8 | 6743.1 | 5927.1 | 5802.5 | 4452.1 |
| 30° | 8776.2 | 8776.2 | 8579.9 | 8276.1 | 7876.6 | 7543.7 | 7347.4 | 7132.3 | 6369.2 | 6232.7 | 4754.3 |
| 32.5° | 9597.4 | 9590.5 | 9339.6 | 9010.1 | 8615.8 | 8250.5 | 7837.3 | 7538.6 | 6860.9 | 6708.9 | 5102.6 |
| 35° | 10275.1 | 10258.0 | 9972.9 | 9657.1 | 9235.5 | 8964.0 | 8503.1 | 7975.6 | 7393.5 | 7241.6 | 5461.0 |
| 37.5° | 10787.2 | 10768.4 | 10507.3 | 10172.7 | 9781.7 | 9605.9 | 9220.1 | 8499.7 | 7955.1 | 7816.9 | 5858.8 |
| 40° | 11065.5 | 11027.9 | 10847.0 | 10597.7 | 10270.0 | 10116.3 | 9955.9 | 9150.1 | 8615.8 | 8443.4 | 6328.3 |
| 42.5° | 11147.4 | 11103.0 | 10983.5 | 10867.5 | 10669.4 | 10548.2 | 10720.6 | 9884.2 | 9341.3 | 9192.8 | 6864.3 |
| 45° | 10905.0 | 10879.4 | 10869.2 | 10952.8 | 10988.7 | 11022.8 | 11447.9 | 10696.7 | 10141.9 | 10029.3 | 7538.6 |
| 47.5° | 10321.2 | 10314.4 | 10404.8 | 10753.1 | 11132.1 | 11492.3 | 12238.3 | 11698.8 | 11179.9 | 11058.7 | 8480.9 |
| 50° | 9242.3 | 9312.3 | 9564.9 | 10176.1 | 10934.0 | 11758.6 | 12977.4 | 13088.4 | 12859.7 | 12682.1 | 9710.0 |
| 52.5° | 7555.7 | 7690.5 | 8257.3 | 9186.0 | 10275.1 | 11683.5 | 13318.9 | 14201.4 | 14435.3 | 14250.9 | 10590.9 |
| 55° | 5928.8 | 6055.1 | 6560.4 | 7738.3 | 9191.1 | 11111.6 | 13334.2 | 14585.5 | 15096.0 | 14925.3 | 11186.7 |
| 57.5° | 4416.3 | 4532.4 | 4991.6 | 6118.3 | 7716.1 | 9986.6 | 12968.9 | 14798.9 | 15879.5 | 15770.3 | 12127.3 |
| 60° | 2886.7 | 3001.1 | 3415.9 | 4400.9 | 5985.1 | 8347.8 | 12069.3 | 14754.5 | 16946.5 | 16936.2 | 13283.0 |
| 62.5° | 1601.3 | 1691.7 | 1992.2 | 2760.4 | 4177.3 | 6464.8 | 10655.8 | 14309.0 | 17979.3 | 18044.1 | 14235.6 |
| 65° | 819.4 | 877.5 | 1060.1 | 1517.6 | 2528.2 | 4583.6 | 8796.7 | 13288.1 | 18457.3 | 18621.1 | 14486.5 |
| 67.5° | 536.0 | 554.8 | 599.2 | 788.7 | 1353.7 | 2883.3 | 6620.2 | 11651.0 | 17784.7 | 17975.9 | 13644.9 |
| 70° | 435.3 | 450.7 | 476.3 | 525.8 | 698.2 | 1531.3 | 4348.0 | 9305.5 | 14860.4 | 14990.1 | 10865.8 |
| 72.5° | 319.2 | 339.7 | 389.2 | 421.7 | 503.6 | 839.9 | 2261.9 | 6108.0 | 10205.1 | 10433.9 | 6828.4 |
| 75° | 235.6 | 247.5 | 288.5 | 332.9 | 411.4 | 530.9 | 865.5 | 3211.1 | 5269.8 | 5136.7 | 2867.9 |
| 77.5° | 141.7 | 150.2 | 184.4 | 213.4 | 293.6 | 331.2 | 302.2 | 1186.4 | 1603.0 | 1507.4 | 693.1 |
| 80° | 70.0 | 78.5 | 121.2 | 160.5 | 187.8 | 133.2 | 126.3 | 331.2 | 356.8 | 356.8 | 174.1 |
| 82.5° | 23.9 | 30.7 | 64.9 | 105.8 | 92.2 | 51.2 | 59.7 | 85.4 | 95.6 | 100.7 | 51.2 |
| 85° | 0.0 | 0.0 | 15.4 | 30.7 | 13.7 | 6.8 | 15.4 | 18.8 | 23.9 | 25.6 | 17.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 5.1 | 6.8 | 6.8 |
| 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° | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 |
| 2.5° | 1744.7 | 1664.4 | 1543.2 | 1434.0 | 1350.3 | 1271.8 | 1212.0 | 1164.2 | 1155.7 | 1128.4 | 1131.8 |
| 5° | 1823.2 | 1678.1 | 1454.5 | 1282.0 | 1160.8 | 1078.9 | 1010.6 | 959.4 | 937.2 | 915.0 | 897.9 |
| 7.5° | 1944.4 | 1734.4 | 1420.3 | 1210.3 | 1068.7 | 942.3 | 836.5 | 751.1 | 710.2 | 684.6 | 667.5 |
| 10° | 2092.9 | 1813.0 | 1422.0 | 1167.7 | 957.7 | 764.8 | 619.7 | 525.8 | 481.4 | 467.7 | 466.0 |
| 12.5° | 2270.5 | 1912.0 | 1435.7 | 1097.7 | 797.2 | 568.5 | 459.2 | 416.5 | 402.9 | 390.9 | 390.9 |
| 15° | 2458.2 | 2022.9 | 1435.7 | 969.6 | 607.7 | 443.8 | 397.8 | 370.4 | 353.4 | 346.5 | 343.1 |
| 17.5° | 2656.3 | 2127.1 | 1401.5 | 793.8 | 466.0 | 390.9 | 353.4 | 327.8 | 314.1 | 303.9 | 300.5 |
| 20° | 2867.9 | 2226.1 | 1316.2 | 607.7 | 399.5 | 350.0 | 314.1 | 288.5 | 274.8 | 264.6 | 264.6 |
| 22.5° | 3083.0 | 2318.3 | 1177.9 | 467.7 | 353.4 | 310.7 | 276.6 | 252.7 | 239.0 | 228.8 | 228.8 |
| 25° | 3282.8 | 2379.7 | 1000.4 | 385.8 | 319.2 | 276.6 | 245.8 | 221.9 | 206.6 | 199.7 | 196.3 |
| 27.5° | 3468.8 | 2419.0 | 804.0 | 339.7 | 286.8 | 247.5 | 215.1 | 192.9 | 181.0 | 175.8 | 172.4 |
| 30° | 3661.7 | 2429.2 | 614.6 | 309.0 | 259.5 | 218.5 | 187.8 | 170.7 | 160.5 | 153.6 | 153.6 |
| 32.5° | 3849.5 | 2417.3 | 469.5 | 283.4 | 235.6 | 192.9 | 167.3 | 151.9 | 143.4 | 138.3 | 136.6 |
| 35° | 4040.7 | 2362.6 | 380.7 | 261.2 | 211.7 | 169.0 | 148.5 | 136.6 | 131.4 | 124.6 | 124.6 |
| 37.5° | 4249.0 | 2289.2 | 331.2 | 239.0 | 187.8 | 151.9 | 133.2 | 124.6 | 117.8 | 112.7 | 111.0 |
| 40° | 4508.5 | 2203.9 | 303.9 | 220.2 | 165.6 | 136.6 | 119.5 | 111.0 | 105.8 | 100.7 | 99.0 |
| 42.5° | 4815.8 | 2120.2 | 290.2 | 199.7 | 148.5 | 121.2 | 107.5 | 97.3 | 92.2 | 85.4 | 83.6 |
| 45° | 5251.1 | 2101.5 | 274.8 | 177.5 | 133.2 | 109.3 | 93.9 | 83.6 | 76.8 | 71.7 | 70.0 |
| 47.5° | 5951.0 | 2154.4 | 249.2 | 153.6 | 117.8 | 95.6 | 80.2 | 71.7 | 63.2 | 58.0 | 54.6 |
| 50° | 6645.8 | 2140.7 | 223.6 | 133.2 | 104.1 | 81.9 | 68.3 | 59.7 | 51.2 | 46.1 | 44.4 |
| 52.5° | 7024.8 | 2075.8 | 199.7 | 117.8 | 90.5 | 70.0 | 58.0 | 47.8 | 42.7 | 37.6 | 35.8 |
| 55° | 7367.9 | 2050.2 | 175.8 | 102.4 | 76.8 | 61.5 | 47.8 | 39.3 | 35.8 | 30.7 | 29.0 |
| 57.5° | 8040.5 | 2110.0 | 155.3 | 88.8 | 66.6 | 52.9 | 41.0 | 32.4 | 29.0 | 23.9 | 22.2 |
| 60° | 8743.8 | 2116.8 | 133.2 | 76.8 | 58.0 | 44.4 | 32.4 | 25.6 | 22.2 | 17.1 | 15.4 |
| 62.5° | 9110.8 | 1944.4 | 109.3 | 64.9 | 47.8 | 37.6 | 27.3 | 20.5 | 17.1 | 10.2 | 10.2 |
| 65° | 8803.6 | 1572.2 | 92.2 | 52.9 | 37.6 | 29.0 | 20.5 | 15.4 | 10.2 | 5.1 | 1.7 |
| 67.5° | 7791.2 | 1118.2 | 76.8 | 42.7 | 27.3 | 20.5 | 15.4 | 10.2 | 1.7 | 0.0 | 0.0 |
| 70° | 5705.2 | 638.5 | 59.7 | 30.7 | 20.5 | 13.7 | 10.2 | 5.1 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3506.4 | 341.4 | 44.4 | 20.5 | 15.4 | 10.2 | 8.5 | 3.4 | 0.0 | 0.0 | 0.0 |
| 75° | 1329.8 | 163.9 | 27.3 | 13.7 | 11.9 | 8.5 | 5.1 | 1.7 | 0.0 | 0.0 | 0.0 |
| 77.5° | 360.2 | 80.2 | 15.4 | 10.2 | 8.5 | 5.1 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 93.9 | 37.6 | 10.2 | 6.8 | 5.1 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 32.4 | 17.1 | 5.1 | 5.1 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 13.7 | 6.8 | 3.4 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.1 | 1.7 | 1.7 | 1.7 | 1.7 | 0.0 | 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)