

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: P642314

Luminaire Tested: GWS-SA6C-760-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-760-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24023.5 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

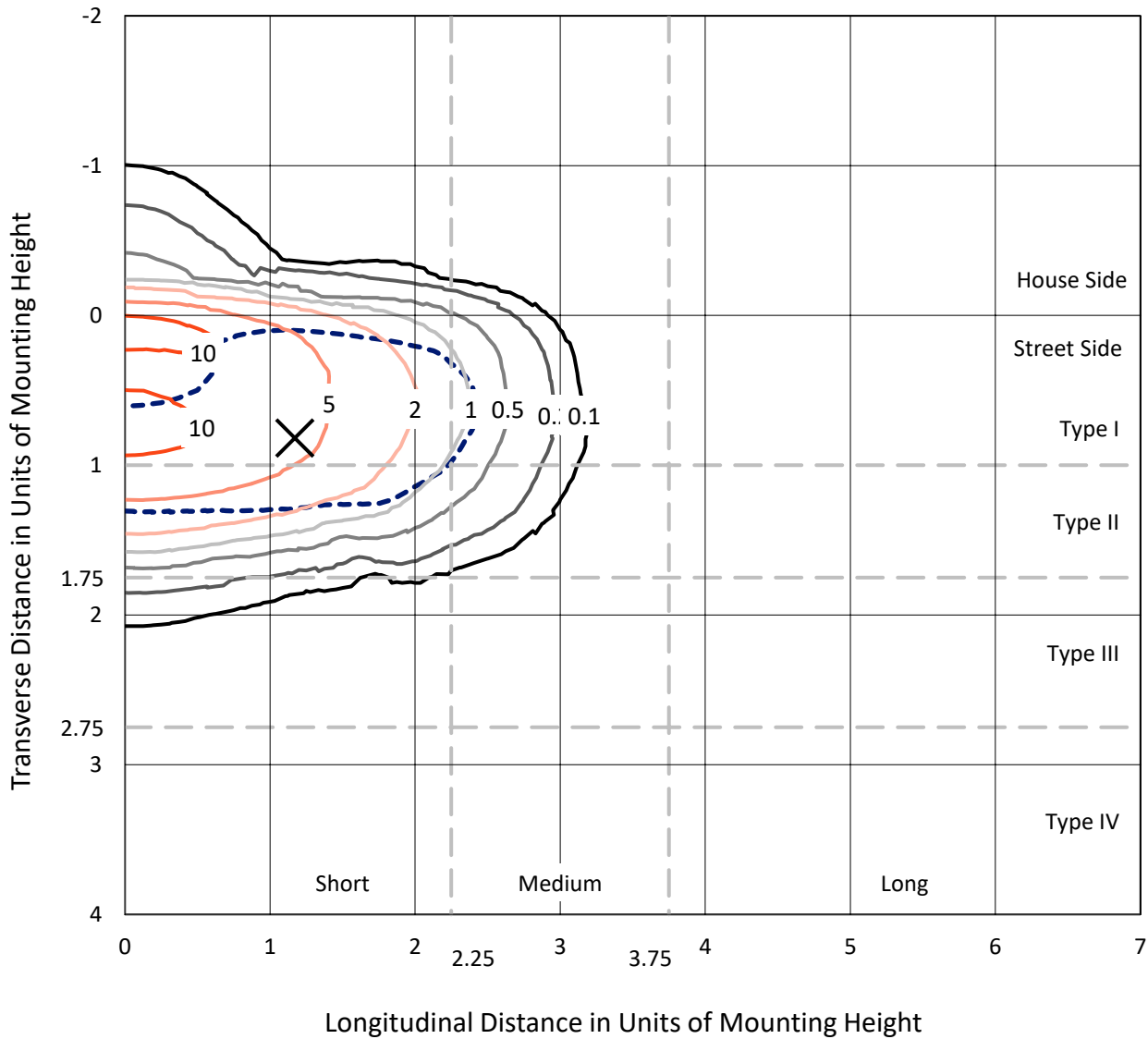
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

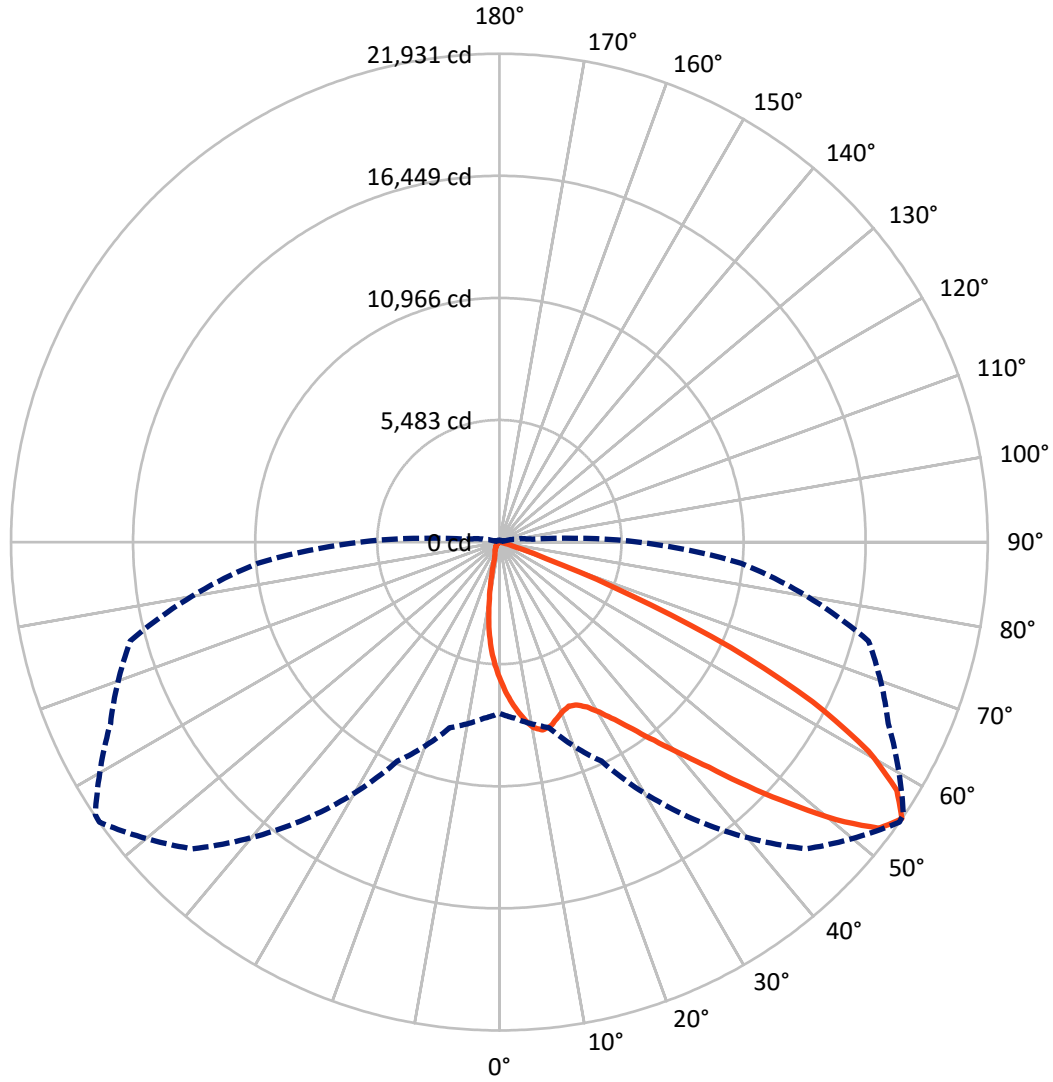
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1482.4 | 0.0 | 1482.4 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 22541.2 | 0.0 | 22541.2 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 24023.5 | 0.0 | 24023.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 548.5 | 2.3 |
| 10°-20° | 1322.3 | 5.5 |
| 20°-30° | 2202.2 | 9.2 |
| 30°-40° | 3752.7 | 15.6 |
| 40°-50° | 6125.7 | 25.5 |
| 50°-60° | 6413.3 | 26.7 |
| 60°-70° | 3234.7 | 13.5 |
| 70°-80° | 408.6 | 1.7 |
| 80°-90° | 15.5 | 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° | 24023.5 | 100.0 |
| 0°-180° | 24023.5 | 100.0 |

Coefficient of Utilization



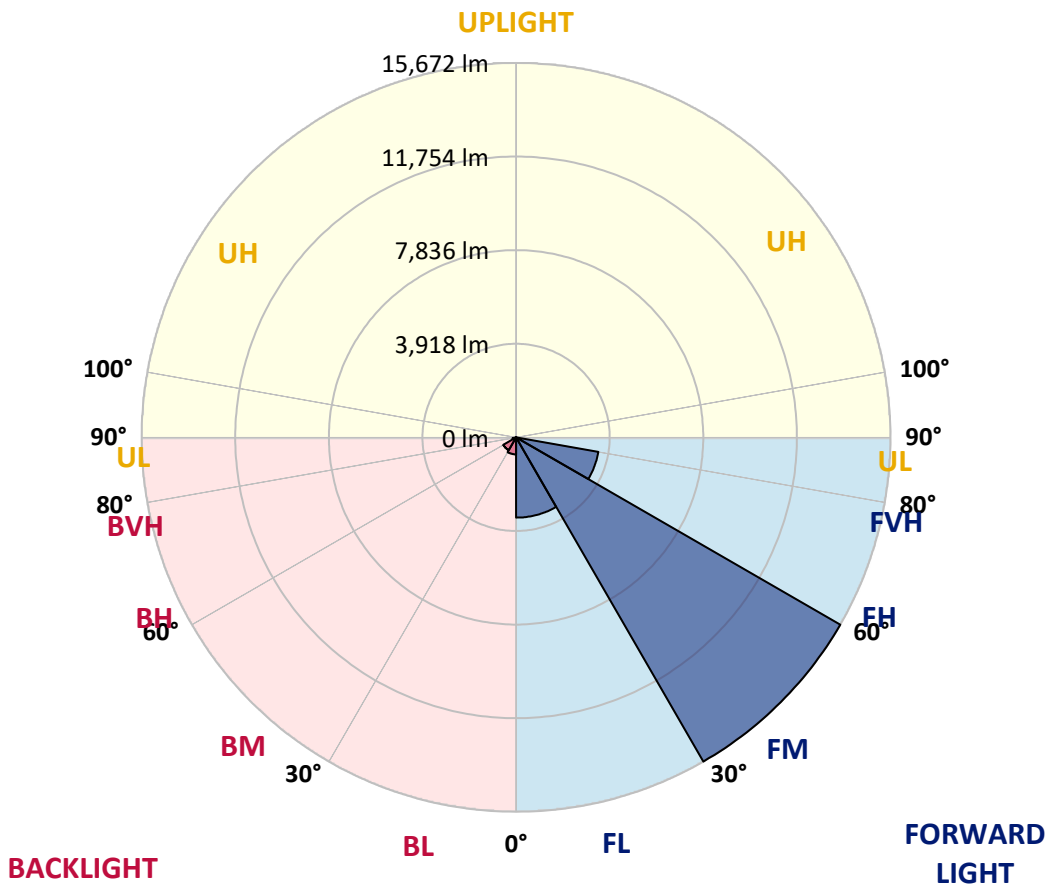
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3360.6 | 14.0 | | | |
| FM (30°-60°) | 15671.9 | 65.2 | | | |
| FH (60°-80°) | 3494.6 | 14.5 | | | G2/5000 |
| FVH (80°-90°) | 14.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 712.5 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 619.8 | 2.6 | B1/1000 | | |
| BH (60°-80°) | 148.7 | 0.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.4 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 |
| 2.5° | 7235.2 | 7200.3 | 7253.6 | 7192.0 | 7087.3 | 6999.0 | 6884.0 | 6842.9 | 6658.1 | 6483.5 | 6315.1 |
| 5° | 8114.1 | 8124.4 | 8108.0 | 8021.7 | 7873.9 | 7709.6 | 7477.5 | 7426.2 | 7103.7 | 6771.0 | 6411.6 |
| 7.5° | 8331.8 | 8325.7 | 8360.6 | 8393.5 | 8368.8 | 8286.7 | 8034.1 | 7982.7 | 7582.2 | 7083.2 | 6559.5 |
| 10° | 7660.3 | 7664.4 | 7736.3 | 7958.1 | 8233.3 | 8518.7 | 8479.7 | 8451.0 | 8058.7 | 7436.4 | 6723.8 |
| 12.5° | 6711.5 | 6748.4 | 6824.4 | 7140.7 | 7606.9 | 8255.9 | 8658.4 | 8687.1 | 8496.1 | 7824.6 | 6916.8 |
| 15° | 6300.7 | 6309.0 | 6370.6 | 6561.6 | 6908.6 | 7709.6 | 8582.4 | 8662.5 | 8861.7 | 8214.8 | 7126.3 |
| 17.5° | 6290.5 | 6300.7 | 6327.4 | 6411.6 | 6637.5 | 7280.3 | 8338.0 | 8477.7 | 9136.9 | 8633.7 | 7376.9 |
| 20° | 6676.6 | 6670.4 | 6651.9 | 6606.7 | 6705.3 | 7138.6 | 8112.1 | 8266.1 | 9286.8 | 9042.4 | 7629.5 |
| 22.5° | 7376.9 | 7368.7 | 7286.5 | 7099.6 | 7019.5 | 7268.0 | 8001.2 | 8140.8 | 9377.2 | 9405.9 | 7836.9 |
| 25° | 8184.0 | 8241.5 | 8087.4 | 7804.0 | 7606.9 | 7598.7 | 8099.8 | 8198.3 | 9455.2 | 9728.4 | 7978.6 |
| 27.5° | 9069.1 | 9087.6 | 8956.2 | 8637.8 | 8352.4 | 8128.5 | 8385.2 | 8459.2 | 9541.5 | 10015.9 | 8058.7 |
| 30° | 10040.5 | 10034.4 | 9884.4 | 9514.8 | 9167.7 | 8845.3 | 8865.8 | 8894.6 | 9742.7 | 10344.5 | 8147.0 |
| 32.5° | 11254.2 | 11280.9 | 11014.0 | 10510.8 | 10093.9 | 9648.3 | 9494.2 | 9498.3 | 10106.2 | 10767.5 | 8280.5 |
| 35° | 12903.4 | 12837.6 | 12484.4 | 11767.7 | 11057.1 | 10576.5 | 10313.7 | 10291.1 | 10666.9 | 11336.4 | 8512.6 |
| 37.5° | 14474.4 | 14480.6 | 14110.9 | 13322.3 | 12424.9 | 11667.0 | 11295.3 | 11233.7 | 11455.5 | 12125.0 | 8898.7 |
| 40° | 15565.0 | 15585.5 | 15431.5 | 15018.7 | 14067.8 | 12995.8 | 12449.5 | 12385.8 | 12478.2 | 13123.1 | 9403.9 |
| 42.5° | 16142.0 | 16199.5 | 16242.7 | 16339.2 | 15618.3 | 14655.2 | 13815.2 | 13809.0 | 13712.5 | 14260.9 | 9989.2 |
| 45° | 16164.6 | 16250.9 | 16513.8 | 17173.0 | 17255.1 | 16548.7 | 15634.8 | 15497.2 | 15125.5 | 15478.7 | 10512.9 |
| 47.5° | 15271.3 | 15470.5 | 16029.1 | 17335.2 | 18197.8 | 18431.9 | 17526.2 | 17442.0 | 16398.8 | 16441.9 | 10905.1 |
| 50° | 13188.8 | 13396.3 | 14425.2 | 16503.5 | 18436.0 | 19927.0 | 19602.5 | 19428.0 | 17462.6 | 17078.5 | 11094.1 |
| 52.5° | 11053.0 | 11241.9 | 11940.2 | 14523.7 | 17448.2 | 20397.3 | 21352.3 | 21144.8 | 18417.5 | 17300.3 | 11016.0 |
| 55° | 7691.1 | 7943.7 | 8625.5 | 10855.8 | 15172.7 | 19481.3 | 21931.4 | 21888.3 | 19269.8 | 17160.7 | 10894.9 |
| 57.5° | 3770.6 | 4021.1 | 4700.9 | 6693.0 | 11239.9 | 17008.7 | 21046.3 | 21274.2 | 19779.1 | 17010.8 | 10796.3 |
| 60° | 1575.2 | 1677.9 | 1912.0 | 2936.8 | 6288.4 | 12854.1 | 19048.0 | 19364.3 | 19467.0 | 16807.4 | 10786.0 |
| 62.5° | 913.9 | 930.3 | 955.0 | 1217.8 | 2446.0 | 7368.7 | 15801.1 | 16250.9 | 17826.1 | 16538.4 | 10623.8 |
| 65° | 690.0 | 696.2 | 685.9 | 747.5 | 1010.4 | 2795.1 | 11416.5 | 12028.5 | 14879.0 | 15486.9 | 9983.0 |
| 67.5° | 566.8 | 566.8 | 540.1 | 552.4 | 634.6 | 1047.4 | 6302.8 | 7157.1 | 11009.9 | 12728.8 | 8243.5 |
| 70° | 451.8 | 462.1 | 449.8 | 433.3 | 453.9 | 579.1 | 2242.6 | 2780.7 | 6411.6 | 7516.5 | 4807.7 |
| 72.5° | 343.0 | 343.0 | 363.5 | 351.2 | 336.8 | 363.5 | 782.5 | 879.0 | 2573.3 | 3133.9 | 1735.4 |
| 75° | 264.9 | 273.1 | 287.5 | 275.2 | 254.7 | 215.6 | 375.8 | 398.4 | 776.3 | 729.1 | 388.1 |
| 77.5° | 135.5 | 137.6 | 182.8 | 201.3 | 188.9 | 131.4 | 164.3 | 180.7 | 252.6 | 225.9 | 143.8 |
| 80° | 82.1 | 86.3 | 102.7 | 158.1 | 125.3 | 69.8 | 67.8 | 71.9 | 119.1 | 102.7 | 59.6 |
| 82.5° | 34.9 | 37.0 | 57.5 | 57.5 | 51.3 | 26.7 | 26.7 | 26.7 | 57.5 | 53.4 | 24.6 |
| 85° | 0.0 | 0.0 | 10.3 | 8.2 | 8.2 | 10.3 | 10.3 | 10.3 | 14.4 | 20.5 | 12.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 6.2 | 6.2 |
| 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° | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 | 6206.3 |
| 2.5° | 6206.3 | 6074.8 | 5898.2 | 5738.0 | 5522.4 | 5401.2 | 5232.8 | 5095.2 | 4978.2 | 4941.2 | 4924.8 |
| 5° | 6208.3 | 5982.4 | 5604.5 | 5226.7 | 4762.5 | 4397.0 | 4021.1 | 3723.3 | 3479.0 | 3400.9 | 3380.4 |
| 7.5° | 6249.4 | 5916.7 | 5304.7 | 4618.8 | 3842.5 | 3201.7 | 2628.7 | 2115.3 | 1877.1 | 1797.0 | 1780.6 |
| 10° | 6304.8 | 5861.2 | 4957.6 | 3889.7 | 2774.5 | 1951.0 | 1382.1 | 1053.5 | 897.5 | 811.2 | 823.5 |
| 12.5° | 6376.7 | 5816.1 | 4573.6 | 3101.1 | 1836.0 | 1072.0 | 759.9 | 636.6 | 603.8 | 587.4 | 579.1 |
| 15° | 6473.2 | 5762.7 | 4097.1 | 2318.6 | 1125.4 | 690.0 | 585.3 | 552.4 | 540.1 | 531.9 | 529.9 |
| 17.5° | 6571.8 | 5701.1 | 3612.4 | 1630.6 | 747.5 | 573.0 | 525.7 | 509.3 | 501.1 | 494.9 | 492.9 |
| 20° | 6676.6 | 5596.3 | 3043.6 | 1123.4 | 589.4 | 515.5 | 484.7 | 466.2 | 455.9 | 445.7 | 443.6 |
| 22.5° | 6721.7 | 5427.9 | 2499.3 | 786.6 | 523.7 | 474.4 | 435.4 | 412.8 | 400.5 | 392.3 | 392.3 |
| 25° | 6678.6 | 5154.8 | 1936.6 | 597.6 | 476.5 | 429.2 | 390.2 | 365.6 | 355.3 | 347.1 | 347.1 |
| 27.5° | 6563.6 | 4803.6 | 1412.9 | 494.9 | 425.1 | 382.0 | 345.0 | 322.4 | 314.2 | 310.1 | 310.1 |
| 30° | 6436.3 | 4360.0 | 996.0 | 425.1 | 367.6 | 332.7 | 301.9 | 287.5 | 285.5 | 281.4 | 281.4 |
| 32.5° | 6327.4 | 3945.1 | 685.9 | 373.8 | 324.5 | 289.6 | 269.0 | 262.9 | 264.9 | 260.8 | 262.9 |
| 35° | 6267.9 | 3538.5 | 509.3 | 332.7 | 289.6 | 256.7 | 246.4 | 246.4 | 246.4 | 244.4 | 244.4 |
| 37.5° | 6292.5 | 3138.0 | 414.8 | 303.9 | 258.8 | 234.1 | 223.9 | 228.0 | 232.1 | 232.1 | 232.1 |
| 40° | 6415.7 | 2782.8 | 367.6 | 277.2 | 232.1 | 213.6 | 205.4 | 211.5 | 217.7 | 221.8 | 221.8 |
| 42.5° | 6571.8 | 2495.2 | 332.7 | 254.7 | 213.6 | 193.0 | 188.9 | 195.1 | 201.3 | 205.4 | 205.4 |
| 45° | 6670.4 | 2205.7 | 297.8 | 225.9 | 195.1 | 170.5 | 170.5 | 178.7 | 176.6 | 178.7 | 178.7 |
| 47.5° | 6715.6 | 1975.7 | 262.9 | 195.1 | 166.3 | 147.9 | 149.9 | 154.0 | 149.9 | 154.0 | 154.0 |
| 50° | 6604.7 | 1743.6 | 232.1 | 162.2 | 137.6 | 129.4 | 133.5 | 131.4 | 131.4 | 139.7 | 139.7 |
| 52.5° | 6401.4 | 1571.1 | 205.4 | 137.6 | 117.1 | 115.0 | 119.1 | 110.9 | 113.0 | 113.0 | 110.9 |
| 55° | 6251.4 | 1472.5 | 182.8 | 119.1 | 100.6 | 102.7 | 100.6 | 86.3 | 78.0 | 69.8 | 67.8 |
| 57.5° | 6177.5 | 1433.5 | 166.3 | 106.8 | 90.4 | 90.4 | 82.1 | 59.6 | 45.2 | 34.9 | 30.8 |
| 60° | 6161.1 | 1386.2 | 149.9 | 92.4 | 80.1 | 76.0 | 59.6 | 34.9 | 22.6 | 16.4 | 14.4 |
| 62.5° | 6005.0 | 1271.2 | 135.5 | 73.9 | 69.8 | 61.6 | 37.0 | 20.5 | 12.3 | 8.2 | 6.2 |
| 65° | 5493.6 | 1045.3 | 121.2 | 57.5 | 53.4 | 45.2 | 22.6 | 12.3 | 6.2 | 2.1 | 0.0 |
| 67.5° | 4370.3 | 741.4 | 106.8 | 43.1 | 37.0 | 28.8 | 14.4 | 8.2 | 2.1 | 0.0 | 0.0 |
| 70° | 2519.9 | 400.5 | 88.3 | 30.8 | 24.6 | 18.5 | 10.3 | 4.1 | 0.0 | 0.0 | 0.0 |
| 72.5° | 842.0 | 186.9 | 67.8 | 20.5 | 18.5 | 14.4 | 6.2 | 2.1 | 0.0 | 0.0 | 0.0 |
| 75° | 184.8 | 110.9 | 45.2 | 14.4 | 12.3 | 10.3 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 69.8 | 78.0 | 22.6 | 10.3 | 8.2 | 6.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 26.7 | 51.3 | 10.3 | 6.2 | 6.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 14.4 | 20.5 | 6.2 | 4.1 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 8.2 | 10.3 | 4.1 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.1 | 2.1 | 2.1 | 2.1 | 0.0 | 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)