

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: P642790

Luminaire Tested: GWS-SA6D-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-750-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22981.9 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

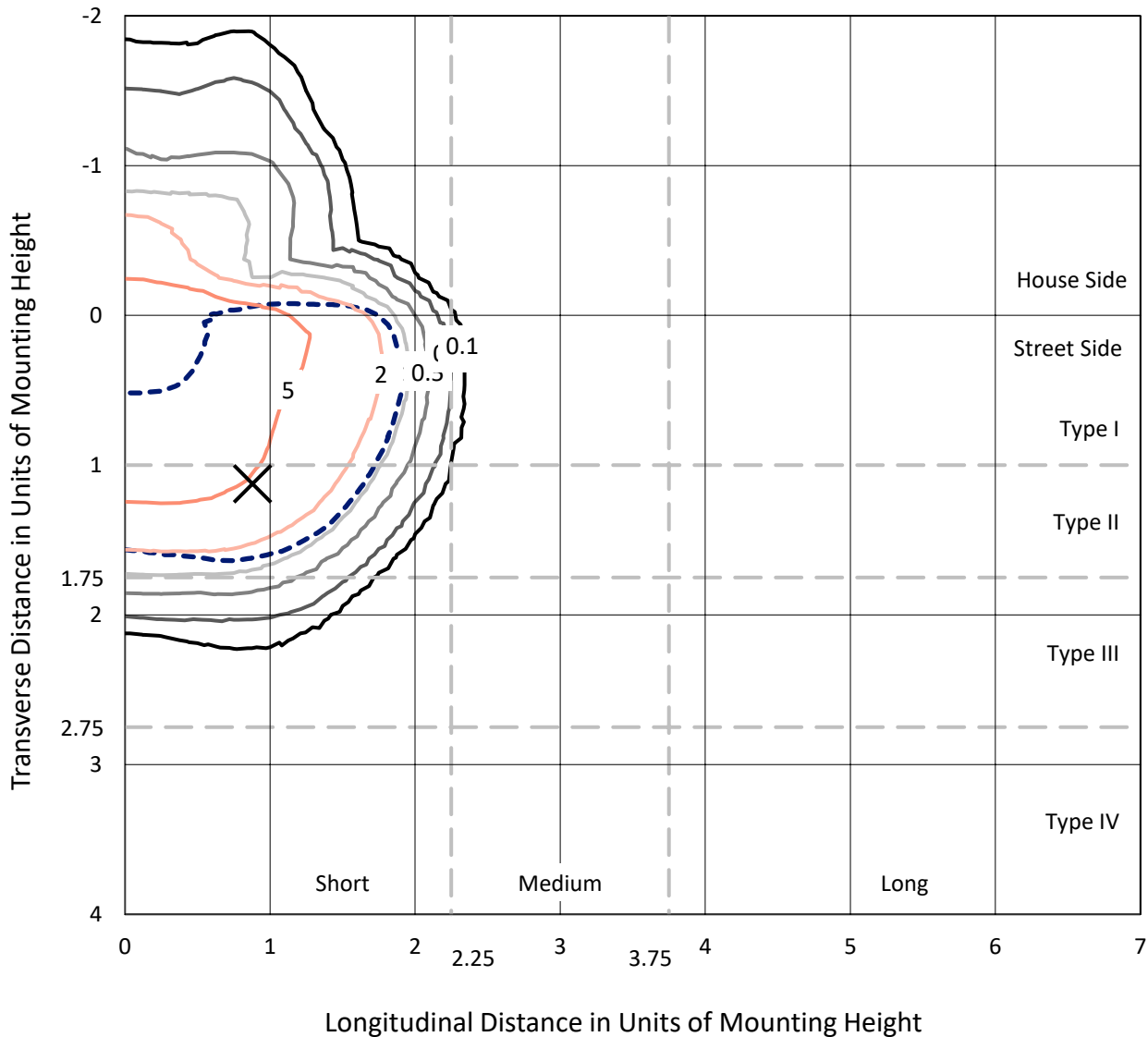
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

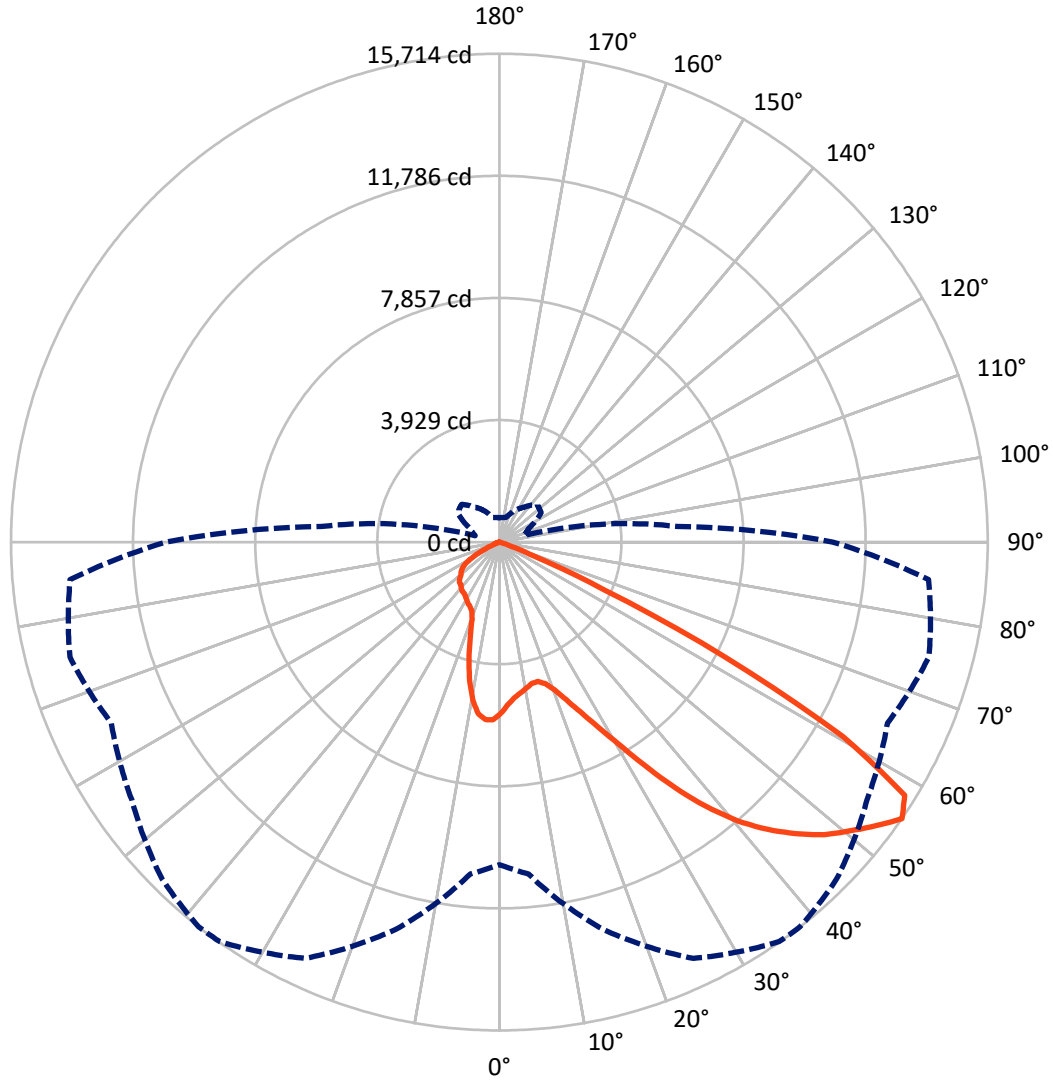
✕ Max cd
 - - - 1/2 Max cd



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 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4477.6 | 0.0 | 4477.6 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 18504.3 | 0.0 | 18504.3 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 22981.9 | 0.0 | 22981.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 509.6 | 2.2 |
| 10°-20° | 1371.9 | 6.0 |
| 20°-30° | 2354.2 | 10.2 |
| 30°-40° | 3904.6 | 17.0 |
| 40°-50° | 5740.0 | 25.0 |
| 50°-60° | 6707.3 | 29.2 |
| 60°-70° | 2273.6 | 9.9 |
| 70°-80° | 116.2 | 0.5 |
| 80°-90° | 4.6 | 0.0 |
| 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° | 22981.9 | 100.0 |
| 0°-180° | 22981.9 | 100.0 |

Coefficient of Utilization



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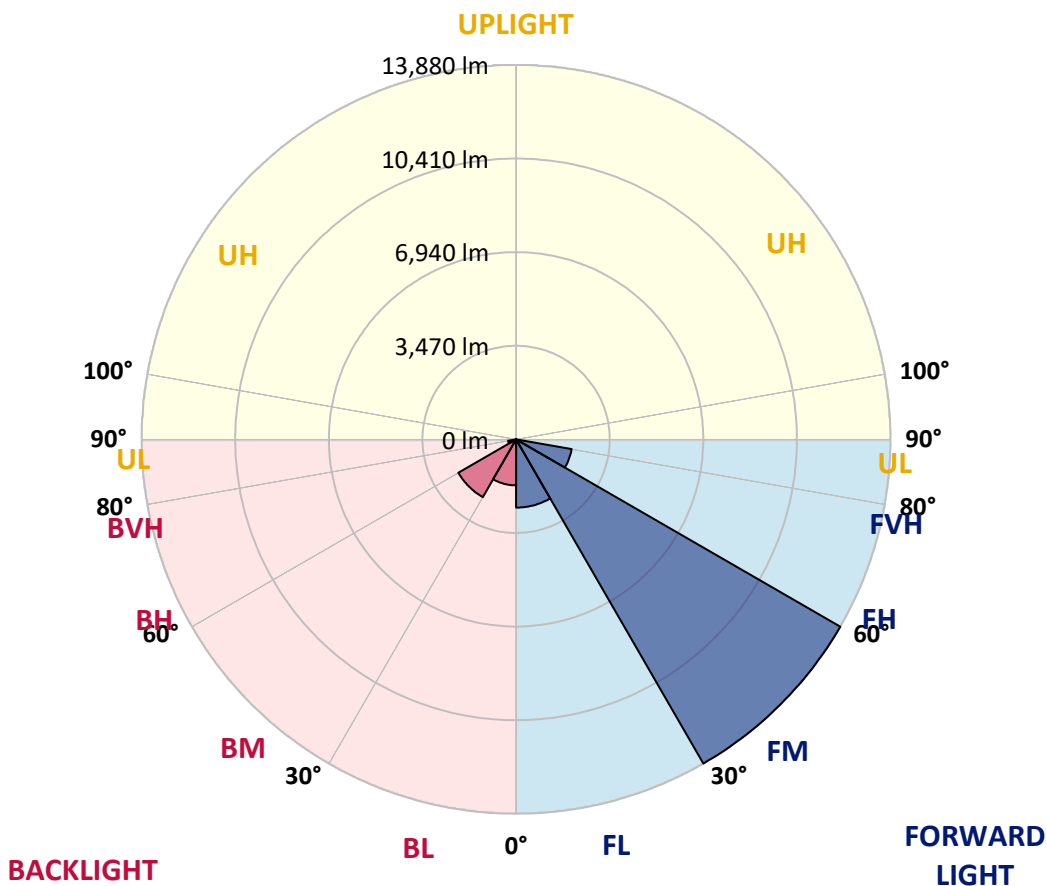
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2529.8 | 11.0 | | | |
| FM (30°-60°) | 13880.4 | 60.4 | | | |
| FH (60°-80°) | 2091.7 | 9.1 | | | G2/5000 |
| FVH (80°-90°) | 2.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1705.9 | 7.4 | B3/2500 | | |
| BM (30°-60°) | 2471.4 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 298.1 | 1.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 |
| 2.5° | 5133.0 | 5122.5 | 5143.5 | 5185.5 | 5224.9 | 5238.0 | 5277.4 | 5332.6 | 5366.8 | 5448.2 | 5513.9 |
| 5° | 4901.8 | 4896.5 | 4917.6 | 4954.3 | 5006.9 | 5025.3 | 5085.7 | 5177.6 | 5269.6 | 5411.4 | 5550.6 |
| 7.5° | 4691.6 | 4689.0 | 4720.5 | 4802.0 | 4878.2 | 4901.8 | 4975.3 | 5088.3 | 5211.8 | 5429.8 | 5634.7 |
| 10° | 4415.8 | 4418.4 | 4478.9 | 4594.4 | 4733.7 | 4781.0 | 4899.2 | 5062.0 | 5222.3 | 5503.4 | 5787.1 |
| 12.5° | 4326.5 | 4331.8 | 4363.3 | 4452.6 | 4605.0 | 4665.4 | 4830.9 | 5077.8 | 5282.7 | 5608.4 | 5984.1 |
| 15° | 4544.5 | 4544.5 | 4518.3 | 4528.8 | 4597.1 | 4652.2 | 4825.6 | 5130.3 | 5385.1 | 5734.5 | 6178.5 |
| 17.5° | 4967.5 | 4951.7 | 4886.0 | 4796.7 | 4773.1 | 4791.5 | 4930.7 | 5243.3 | 5529.6 | 5881.6 | 6399.1 |
| 20° | 5540.1 | 5545.4 | 5416.7 | 5230.2 | 5080.4 | 5077.8 | 5161.9 | 5442.9 | 5737.1 | 6057.6 | 6638.2 |
| 22.5° | 6233.6 | 6212.6 | 6041.9 | 5787.1 | 5527.0 | 5506.0 | 5540.1 | 5747.7 | 6036.6 | 6336.1 | 6932.4 |
| 25° | 7037.5 | 7027.0 | 6785.3 | 6443.8 | 6099.7 | 6049.8 | 6049.8 | 6254.6 | 6464.8 | 6732.7 | 7284.4 |
| 27.5° | 7878.1 | 7878.1 | 7644.3 | 7250.2 | 6793.2 | 6703.8 | 6690.7 | 6932.4 | 7071.6 | 7124.2 | 7581.2 |
| 30° | 8742.3 | 8731.8 | 8500.6 | 8096.1 | 7607.5 | 7515.6 | 7478.8 | 7657.4 | 7757.2 | 7599.6 | 7951.6 |
| 32.5° | 9619.7 | 9638.1 | 9404.3 | 9028.7 | 8592.6 | 8532.2 | 8419.2 | 8419.2 | 8500.6 | 8280.0 | 8534.8 |
| 35° | 10562.8 | 10557.5 | 10373.6 | 10118.8 | 9745.8 | 9677.5 | 9491.0 | 9199.4 | 9322.9 | 9225.7 | 9341.3 |
| 37.5° | 11395.5 | 11434.9 | 11345.6 | 11156.4 | 10854.3 | 10786.1 | 10478.7 | 9950.7 | 10045.3 | 10197.6 | 10300.1 |
| 40° | 12241.4 | 12272.9 | 12362.2 | 12301.8 | 11920.9 | 11794.8 | 11248.4 | 10381.5 | 10486.6 | 11009.3 | 11303.5 |
| 42.5° | 13071.5 | 13087.2 | 13268.5 | 13368.3 | 12858.7 | 12638.0 | 11831.6 | 10644.2 | 10754.5 | 11645.0 | 12159.9 |
| 45° | 13599.5 | 13633.6 | 13933.1 | 14237.8 | 13686.1 | 13384.1 | 12338.5 | 10980.4 | 11027.7 | 12086.4 | 12793.0 |
| 47.5° | 13578.4 | 13657.3 | 14219.4 | 14773.7 | 14398.0 | 14072.3 | 12948.0 | 11519.0 | 11440.1 | 12501.4 | 13210.7 |
| 50° | 13155.5 | 13250.1 | 14056.5 | 14936.6 | 14910.3 | 14608.2 | 13625.7 | 12299.1 | 12052.2 | 12869.2 | 13263.2 |
| 52.5° | 12278.1 | 12551.3 | 13770.2 | 14957.6 | 15322.7 | 15170.3 | 14463.7 | 13349.9 | 12879.7 | 13397.2 | 13347.3 |
| 55° | 10381.5 | 10717.8 | 12900.7 | 14778.9 | 15695.7 | 15714.1 | 15343.7 | 14445.3 | 13778.1 | 14306.1 | 13864.8 |
| 57.5° | 7880.7 | 8148.6 | 9929.7 | 13155.5 | 15078.4 | 15380.5 | 15685.2 | 15023.2 | 14332.4 | 14926.0 | 13985.6 |
| 60° | 4749.4 | 5059.4 | 6217.9 | 9653.9 | 12178.3 | 12693.2 | 13888.4 | 13759.7 | 12927.0 | 13181.8 | 11469.0 |
| 62.5° | 1925.5 | 2088.4 | 2871.2 | 5319.5 | 7665.3 | 8146.0 | 9291.3 | 9485.7 | 9280.8 | 9020.8 | 6956.0 |
| 65° | 704.0 | 769.7 | 1150.6 | 2198.7 | 3525.3 | 3701.3 | 4305.5 | 4649.6 | 4933.3 | 4200.4 | 2587.5 |
| 67.5° | 436.1 | 478.1 | 748.7 | 1129.6 | 1281.9 | 1192.6 | 1213.6 | 1447.4 | 1381.7 | 853.7 | 462.3 |
| 70° | 323.1 | 357.3 | 585.8 | 782.8 | 517.5 | 399.3 | 270.6 | 289.0 | 260.1 | 228.5 | 225.9 |
| 72.5° | 223.3 | 254.8 | 438.7 | 462.3 | 199.6 | 141.9 | 99.8 | 139.2 | 157.6 | 155.0 | 160.2 |
| 75° | 147.1 | 170.7 | 275.8 | 181.3 | 49.9 | 39.4 | 34.1 | 73.6 | 94.6 | 94.6 | 97.2 |
| 77.5° | 86.7 | 99.8 | 97.2 | 36.8 | 10.5 | 10.5 | 7.9 | 13.1 | 21.0 | 23.6 | 28.9 |
| 80° | 10.5 | 7.9 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 7.9 | 7.9 | 7.9 |
| 82.5° | 2.6 | 2.6 | 2.6 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 7.9 | 7.9 |
| 85° | 0.0 | 0.0 | 2.6 | 2.6 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 7.9 | 7.9 |
| 87.5° | 0.0 | 0.0 | 2.6 | 2.6 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 7.9 | 7.9 |
| 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° | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 | 5511.2 |
| 2.5° | 5563.8 | 5545.4 | 5621.6 | 5676.7 | 5721.4 | 5742.4 | 5713.5 | 5710.9 | 5710.9 | 5653.1 | 5637.3 |
| 5° | 5629.4 | 5637.3 | 5745.0 | 5792.3 | 5800.2 | 5773.9 | 5708.3 | 5663.6 | 5637.3 | 5576.9 | 5542.8 |
| 7.5° | 5755.5 | 5781.8 | 5884.3 | 5876.4 | 5805.4 | 5684.6 | 5511.2 | 5377.3 | 5290.6 | 5196.0 | 5138.2 |
| 10° | 5936.8 | 5986.7 | 6049.8 | 5939.4 | 5713.5 | 5406.2 | 5048.9 | 4794.1 | 4641.7 | 4534.0 | 4468.4 |
| 12.5° | 6157.5 | 6207.4 | 6186.3 | 5926.3 | 5456.1 | 4907.0 | 4447.3 | 4079.6 | 3903.6 | 3806.4 | 3738.1 |
| 15° | 6380.7 | 6412.3 | 6275.7 | 5768.7 | 5001.6 | 4263.5 | 3751.2 | 3386.1 | 3170.7 | 3091.9 | 3034.1 |
| 17.5° | 6609.3 | 6601.4 | 6291.4 | 5458.7 | 4394.8 | 3538.4 | 3034.1 | 2784.5 | 2724.1 | 2711.0 | 2705.7 |
| 20° | 6848.3 | 6777.4 | 6228.4 | 5014.8 | 3664.5 | 2821.3 | 2535.0 | 2550.7 | 2661.0 | 2713.6 | 2724.1 |
| 22.5° | 7121.5 | 6942.9 | 6070.8 | 4413.2 | 2918.5 | 2351.1 | 2380.0 | 2535.0 | 2684.7 | 2755.6 | 2766.1 |
| 25° | 7413.1 | 7095.3 | 5808.1 | 3640.9 | 2301.2 | 2161.9 | 2332.7 | 2511.3 | 2671.6 | 2758.2 | 2768.8 |
| 27.5° | 7604.9 | 7132.0 | 5377.3 | 2863.3 | 1975.4 | 2088.4 | 2269.6 | 2440.4 | 2605.9 | 2700.5 | 2713.6 |
| 30° | 7812.4 | 7116.3 | 4791.5 | 2206.6 | 1865.1 | 2025.3 | 2183.0 | 2337.9 | 2490.3 | 2595.4 | 2605.9 |
| 32.5° | 8117.1 | 7105.8 | 4076.9 | 1791.5 | 1820.4 | 1975.4 | 2091.0 | 2219.7 | 2324.8 | 2385.2 | 2377.3 |
| 35° | 8516.4 | 7092.6 | 3244.2 | 1615.5 | 1794.2 | 1936.0 | 2028.0 | 2088.4 | 1972.8 | 1936.0 | 1943.9 |
| 37.5° | 9028.7 | 7124.2 | 2542.8 | 1542.0 | 1786.3 | 1925.5 | 2004.3 | 1830.9 | 1652.3 | 1584.0 | 1573.5 |
| 40° | 9596.1 | 7205.6 | 1938.7 | 1513.1 | 1812.6 | 1951.8 | 1915.0 | 1628.7 | 1408.0 | 1274.0 | 1245.2 |
| 42.5° | 10166.1 | 7294.9 | 1534.1 | 1502.6 | 1857.2 | 2025.3 | 1767.9 | 1481.6 | 1150.6 | 1074.4 | 1063.9 |
| 45° | 10589.0 | 7279.1 | 1326.6 | 1484.2 | 1896.6 | 2067.4 | 1728.5 | 1271.4 | 1027.1 | 993.0 | 995.6 |
| 47.5° | 10801.8 | 7105.8 | 1213.6 | 1442.2 | 1912.4 | 2025.3 | 1631.3 | 1184.7 | 943.1 | 979.8 | 1011.4 |
| 50° | 10688.9 | 6656.6 | 1108.6 | 1360.7 | 1878.2 | 1970.2 | 1476.3 | 1119.1 | 901.0 | 1053.4 | 1124.3 |
| 52.5° | 10552.3 | 6104.9 | 993.0 | 1234.6 | 1796.8 | 1894.0 | 1415.9 | 1100.7 | 874.8 | 1016.6 | 1069.1 |
| 55° | 10733.5 | 5755.5 | 803.8 | 1040.3 | 1636.6 | 1715.4 | 1368.6 | 1098.0 | 814.3 | 790.7 | 782.8 |
| 57.5° | 10478.7 | 5059.4 | 575.3 | 748.7 | 1255.7 | 1358.1 | 1334.5 | 1079.7 | 722.4 | 719.8 | 730.3 |
| 60° | 8098.7 | 3086.6 | 394.0 | 475.5 | 769.7 | 866.9 | 1211.0 | 1032.4 | 622.6 | 572.7 | 575.3 |
| 62.5° | 4602.3 | 1313.4 | 270.6 | 294.2 | 394.0 | 467.6 | 924.7 | 937.8 | 575.3 | 546.4 | 575.3 |
| 65° | 1602.4 | 470.2 | 210.2 | 197.0 | 218.0 | 249.6 | 530.6 | 725.0 | 522.8 | 472.8 | 478.1 |
| 67.5° | 331.0 | 233.8 | 186.5 | 162.9 | 162.9 | 162.9 | 270.6 | 451.8 | 430.8 | 375.6 | 380.9 |
| 70° | 210.2 | 199.6 | 162.9 | 139.2 | 134.0 | 123.5 | 155.0 | 249.6 | 296.8 | 273.2 | 275.8 |
| 72.5° | 155.0 | 152.4 | 128.7 | 113.0 | 99.8 | 89.3 | 97.2 | 123.5 | 152.4 | 157.6 | 160.2 |
| 75° | 94.6 | 97.2 | 84.1 | 70.9 | 63.0 | 55.2 | 57.8 | 57.8 | 57.8 | 52.5 | 57.8 |
| 77.5° | 28.9 | 31.5 | 26.3 | 21.0 | 18.4 | 18.4 | 18.4 | 15.8 | 13.1 | 7.9 | 7.9 |
| 80° | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 5.3 | 5.3 | 2.6 | 2.6 | 0.0 | 0.0 |
| 82.5° | 7.9 | 7.9 | 7.9 | 7.9 | 5.3 | 5.3 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 |
| 85° | 7.9 | 7.9 | 7.9 | 7.9 | 5.3 | 5.3 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.9 | 7.9 | 7.9 | 7.9 | 5.3 | 5.3 | 2.6 | 2.6 | 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)