

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: P640742

Luminaire Tested: GWS-SA5E-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37472 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

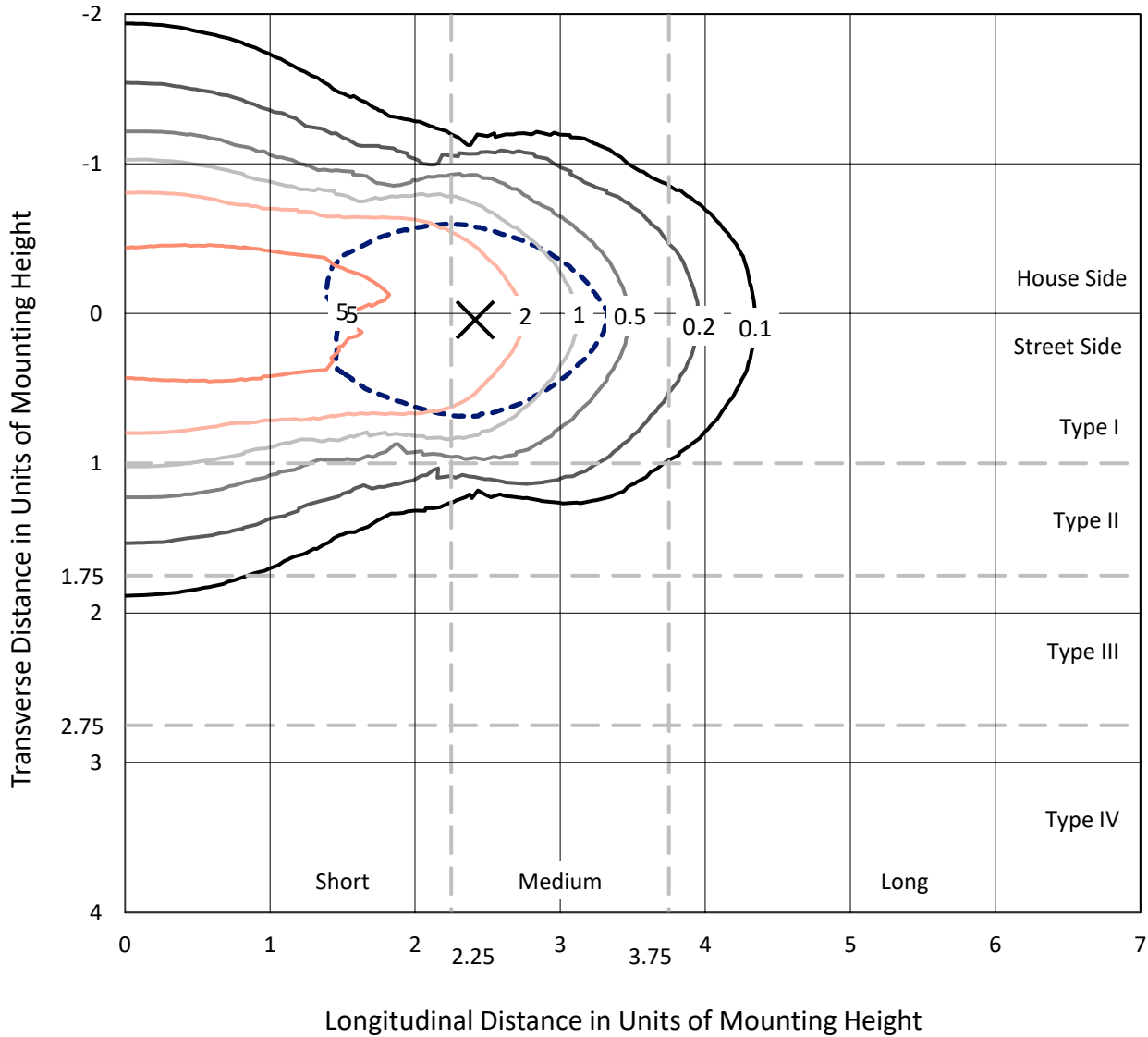
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

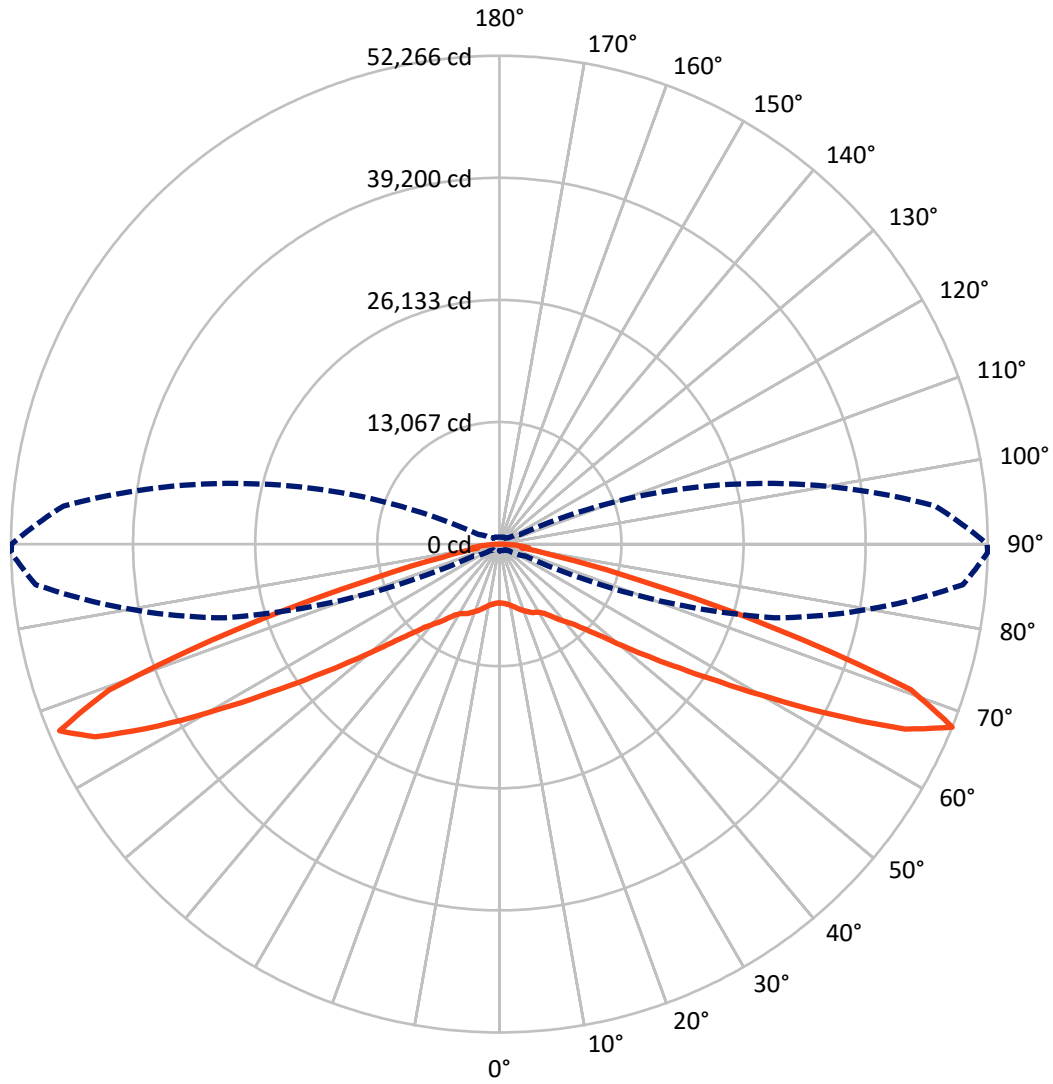
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18571.8 | 0.0 | 18571.8 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 18900.2 | 0.0 | 18900.2 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 37472.0 | 0.0 | 37472.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 630.9 | 1.7 |
| 10°-20° | 2054.2 | 5.5 |
| 20°-30° | 3472.6 | 9.3 |
| 30°-40° | 4765.6 | 12.7 |
| 40°-50° | 6077.2 | 16.2 |
| 50°-60° | 7624.8 | 20.3 |
| 60°-70° | 9196.2 | 24.5 |
| 70°-80° | 3326.9 | 8.9 |
| 80°-90° | 323.5 | 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° | 37472.0 | 100.0 |
| 0°-180° | 37472.0 | 100.0 |

Coefficient of Utilization



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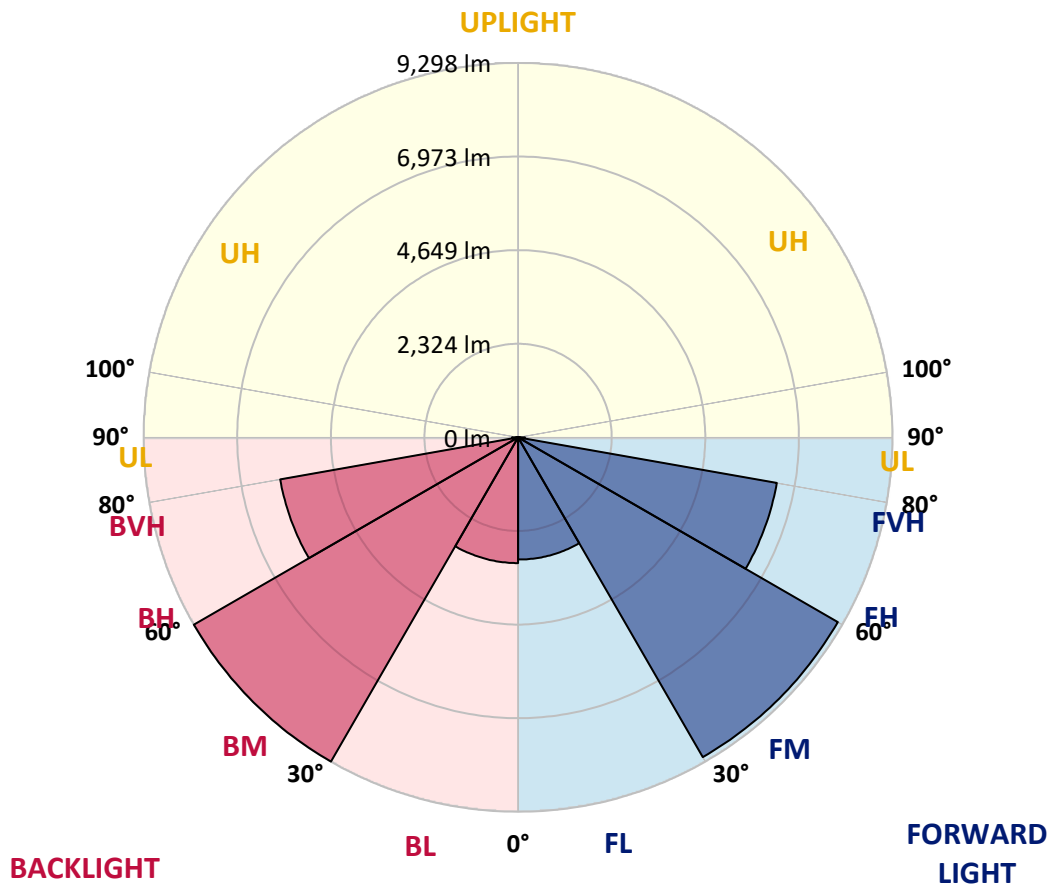
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3034.9 | 8.1 | | | |
| FM (30°-60°) | 9170.1 | 24.5 | | | |
| FH (60°-80°) | 6524.4 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 170.7 | 0.5 | | | G2/225 |
| BL (0°-30°) | 3122.7 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 9297.6 | 24.8 | B5 | | |
| BH (60°-80°) | 5998.7 | 16.0 | B5 | | G5 |
| BVH (80°-90°) | 152.8 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type I Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 89° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 |
| 2.5° | 6308.2 | 6302.8 | 6289.4 | 6329.7 | 6321.7 | 6324.4 | 6340.5 | 6329.7 | 6310.9 | 6278.6 | 6324.4 |
| 5° | 6485.8 | 6483.1 | 6453.5 | 6477.8 | 6450.8 | 6432.0 | 6429.3 | 6402.4 | 6380.9 | 6345.9 | 6394.3 |
| 7.5° | 6658.1 | 6655.4 | 6631.2 | 6674.2 | 6652.7 | 6631.2 | 6606.9 | 6553.1 | 6502.0 | 6450.8 | 6504.7 |
| 10° | 6789.9 | 6787.2 | 6781.9 | 6843.8 | 6849.1 | 6857.2 | 6846.5 | 6755.0 | 6666.1 | 6604.2 | 6658.1 |
| 12.5° | 6865.3 | 6873.4 | 6886.8 | 6999.9 | 7056.4 | 7110.2 | 7123.7 | 7048.3 | 6900.3 | 6811.5 | 6876.1 |
| 15° | 6814.2 | 6830.3 | 6897.6 | 7102.1 | 7258.2 | 7379.3 | 7430.4 | 7368.6 | 7177.5 | 7029.5 | 7102.1 |
| 17.5° | 6569.3 | 6582.7 | 6714.6 | 7026.8 | 7371.2 | 7651.1 | 7734.6 | 7696.9 | 7484.3 | 7304.0 | 7373.9 |
| 20° | 6230.2 | 6259.8 | 6402.4 | 6838.4 | 7352.4 | 7839.5 | 8062.9 | 8049.4 | 7818.0 | 7540.8 | 7624.2 |
| 22.5° | 5923.4 | 5958.4 | 6109.1 | 6590.8 | 7225.9 | 7888.0 | 8393.9 | 8428.9 | 8122.1 | 7777.6 | 7844.9 |
| 25° | 5578.9 | 5611.2 | 5805.0 | 6297.4 | 7007.9 | 7850.3 | 8676.5 | 8835.3 | 8466.6 | 8049.4 | 8111.3 |
| 27.5° | 5226.3 | 5250.6 | 5441.6 | 5966.4 | 6722.7 | 7780.3 | 8899.9 | 9282.0 | 8805.7 | 8237.8 | 8280.9 |
| 30° | 4916.9 | 4949.1 | 5124.1 | 5635.4 | 6410.5 | 7640.4 | 9082.9 | 9758.4 | 9195.9 | 8450.4 | 8485.4 |
| 32.5° | 4618.1 | 4645.0 | 4836.1 | 5309.8 | 6079.5 | 7425.1 | 9247.0 | 10318.1 | 9774.5 | 8846.0 | 8846.0 |
| 35° | 4241.4 | 4289.8 | 4505.1 | 4997.6 | 5767.3 | 7139.8 | 9365.4 | 10969.4 | 10565.7 | 9430.0 | 9432.7 |
| 37.5° | 3894.2 | 3921.1 | 4147.2 | 4645.0 | 5438.9 | 6816.9 | 9376.2 | 11644.9 | 11566.8 | 10172.8 | 10178.2 |
| 40° | 3498.6 | 3533.6 | 3775.8 | 4268.3 | 5062.2 | 6477.8 | 9273.9 | 12274.6 | 12616.4 | 10937.1 | 10907.5 |
| 42.5° | 3097.6 | 3148.7 | 3380.2 | 3861.9 | 4655.8 | 6063.3 | 9002.1 | 12874.8 | 13948.6 | 11822.5 | 11749.9 |
| 45° | 2710.1 | 2742.3 | 2973.8 | 3428.6 | 4190.2 | 5568.1 | 8566.1 | 13450.7 | 15531.0 | 13168.1 | 13063.2 |
| 47.5° | 2274.1 | 2287.5 | 2527.1 | 2963.0 | 3708.5 | 5016.4 | 7941.8 | 13964.7 | 17269.5 | 14949.7 | 14769.4 |
| 50° | 1886.5 | 1905.4 | 2093.8 | 2467.8 | 3119.1 | 4362.5 | 7164.0 | 14266.1 | 19484.4 | 17379.9 | 17067.7 |
| 52.5° | 1525.9 | 1544.8 | 1695.5 | 1994.2 | 2578.2 | 3617.0 | 6200.6 | 14196.2 | 21731.6 | 20396.7 | 19941.9 |
| 55° | 1232.6 | 1246.0 | 1348.3 | 1582.4 | 2029.2 | 2876.9 | 5062.2 | 13569.1 | 24226.3 | 24336.7 | 23357.1 |
| 57.5° | 1041.5 | 1046.9 | 1116.9 | 1259.5 | 1585.1 | 2217.6 | 3907.6 | 12088.9 | 26842.2 | 29363.9 | 27754.5 |
| 60° | 931.2 | 933.9 | 966.1 | 1055.0 | 1251.4 | 1692.8 | 2863.5 | 9731.4 | 29552.3 | 35653.2 | 33446.4 |
| 62.5° | 861.2 | 861.2 | 888.1 | 939.2 | 1038.8 | 1302.5 | 2104.5 | 6989.1 | 31498.0 | 42497.0 | 40303.7 |
| 65° | 793.9 | 793.9 | 812.7 | 855.8 | 909.6 | 1063.0 | 1579.7 | 4507.8 | 32453.4 | 48218.5 | 47731.4 |
| 67.5° | 707.8 | 710.5 | 723.9 | 769.7 | 818.1 | 888.1 | 1197.6 | 3049.1 | 30470.0 | 49801.0 | 52266.1 |
| 70° | 627.1 | 629.7 | 648.6 | 678.2 | 718.6 | 767.0 | 936.5 | 2101.8 | 22178.3 | 41477.0 | 46733.0 |
| 72.5° | 538.2 | 549.0 | 562.5 | 594.8 | 619.0 | 654.0 | 764.3 | 1361.8 | 12904.4 | 26680.7 | 30892.5 |
| 75° | 441.4 | 454.8 | 471.0 | 503.3 | 519.4 | 532.9 | 629.7 | 971.5 | 6208.6 | 13520.7 | 15396.5 |
| 77.5° | 341.8 | 355.2 | 374.1 | 403.7 | 414.4 | 430.6 | 481.7 | 702.4 | 2973.8 | 5993.3 | 6461.6 |
| 80° | 228.8 | 234.1 | 250.3 | 285.3 | 304.1 | 314.9 | 355.2 | 479.0 | 1291.8 | 2405.9 | 2384.4 |
| 82.5° | 139.9 | 142.6 | 148.0 | 169.5 | 177.6 | 188.4 | 231.4 | 293.3 | 616.3 | 2734.3 | 3135.3 |
| 85° | 51.1 | 48.4 | 45.8 | 59.2 | 70.0 | 80.7 | 107.6 | 148.0 | 269.1 | 1878.5 | 2101.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.7 | 5.4 | 5.4 | 10.8 | 21.5 | 64.6 | 702.4 | 481.7 |
| 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° | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 | 6289.4 |
| 2.5° | 6310.9 | 6281.3 | 6319.0 | 6345.9 | 6405.1 | 6426.6 | 6432.0 | 6413.2 | 6413.2 | 6380.9 | 6386.3 |
| 5° | 6383.6 | 6364.7 | 6426.6 | 6472.4 | 6558.5 | 6590.8 | 6612.3 | 6598.9 | 6606.9 | 6585.4 | 6590.8 |
| 7.5° | 6493.9 | 6477.8 | 6585.4 | 6674.2 | 6763.0 | 6800.7 | 6819.5 | 6808.8 | 6811.5 | 6784.6 | 6792.6 |
| 10° | 6647.3 | 6652.7 | 6781.9 | 6897.6 | 7016.0 | 7053.7 | 7061.8 | 7029.5 | 7002.5 | 6954.1 | 6956.8 |
| 12.5° | 6857.2 | 6884.1 | 7067.1 | 7196.3 | 7317.4 | 7371.2 | 7312.0 | 7193.6 | 7083.3 | 6999.9 | 6989.1 |
| 15° | 7086.0 | 7134.4 | 7398.2 | 7562.3 | 7694.2 | 7667.3 | 7492.3 | 7225.9 | 7007.9 | 6884.1 | 6859.9 |
| 17.5° | 7360.5 | 7433.1 | 7764.2 | 7960.6 | 8073.6 | 7901.4 | 7535.4 | 7137.1 | 6833.0 | 6666.1 | 6633.8 |
| 20° | 7618.8 | 7734.6 | 8151.7 | 8407.4 | 8420.8 | 8033.3 | 7516.6 | 6956.8 | 6574.6 | 6370.1 | 6327.1 |
| 22.5° | 7855.7 | 8003.7 | 8558.1 | 8883.7 | 8708.8 | 8092.5 | 7400.8 | 6701.1 | 6262.5 | 6022.9 | 5985.3 |
| 25° | 8114.0 | 8323.9 | 9031.7 | 9335.8 | 8996.7 | 8068.3 | 7158.6 | 6383.6 | 5885.7 | 5640.8 | 5613.9 |
| 27.5° | 8291.6 | 8555.4 | 9508.1 | 9798.7 | 9233.6 | 7931.0 | 6846.5 | 6036.4 | 5541.2 | 5309.8 | 5272.1 |
| 30° | 8496.2 | 8832.6 | 10032.9 | 10302.0 | 9378.9 | 7729.2 | 6512.7 | 5713.5 | 5221.0 | 4970.7 | 4943.8 |
| 32.5° | 8867.6 | 9290.1 | 10684.1 | 10834.8 | 9424.6 | 7478.9 | 6192.5 | 5401.3 | 4887.2 | 4637.0 | 4599.3 |
| 35° | 9465.0 | 9960.2 | 11599.1 | 11429.6 | 9389.7 | 7204.4 | 5888.4 | 5035.3 | 4545.5 | 4311.3 | 4273.7 |
| 37.5° | 10218.5 | 10834.8 | 12619.1 | 11965.1 | 9292.8 | 6903.0 | 5527.8 | 4728.5 | 4238.7 | 4001.8 | 3980.3 |
| 40° | 10921.0 | 11679.9 | 13762.9 | 12428.0 | 9096.3 | 6531.6 | 5180.6 | 4408.2 | 3907.6 | 3657.4 | 3608.9 |
| 42.5° | 11801.0 | 12810.2 | 15087.0 | 12829.0 | 8773.4 | 6087.5 | 4790.4 | 4012.6 | 3493.2 | 3267.1 | 3207.9 |
| 45° | 13138.5 | 14392.6 | 16626.3 | 13213.9 | 8291.6 | 5541.2 | 4300.6 | 3530.9 | 3038.4 | 2806.9 | 2761.2 |
| 47.5° | 14807.1 | 16370.7 | 18294.9 | 13442.6 | 7559.6 | 4965.3 | 3746.2 | 3022.2 | 2529.7 | 2268.7 | 2247.2 |
| 50° | 17151.1 | 19247.6 | 20084.5 | 13402.3 | 6741.5 | 4281.7 | 3121.8 | 2416.7 | 2005.0 | 1816.6 | 1787.0 |
| 52.5° | 20006.5 | 22859.2 | 22019.5 | 12917.8 | 5872.2 | 3504.0 | 2432.9 | 1897.3 | 1590.5 | 1455.9 | 1431.7 |
| 55° | 23588.5 | 27184.0 | 24056.8 | 11879.0 | 4774.2 | 2683.1 | 1910.8 | 1496.3 | 1286.4 | 1205.7 | 1194.9 |
| 57.5° | 28023.6 | 32784.4 | 26018.7 | 10129.7 | 3590.1 | 2048.0 | 1472.1 | 1235.3 | 1135.7 | 1087.3 | 1084.6 |
| 60° | 33877.0 | 38729.3 | 27722.2 | 7871.8 | 2570.1 | 1566.3 | 1216.4 | 1103.4 | 1025.4 | 993.1 | 990.4 |
| 62.5° | 40836.5 | 44127.9 | 28782.6 | 5360.9 | 1932.3 | 1248.7 | 1071.1 | 1001.1 | 955.4 | 936.5 | 933.9 |
| 65° | 47989.8 | 47540.3 | 28276.6 | 3512.0 | 1466.7 | 1060.3 | 960.8 | 923.1 | 882.7 | 863.9 | 863.9 |
| 67.5° | 52215.0 | 46819.1 | 24393.2 | 2438.2 | 1162.6 | 931.2 | 866.6 | 831.6 | 764.3 | 748.2 | 748.2 |
| 70° | 46248.6 | 37938.1 | 15988.5 | 1784.3 | 941.9 | 815.4 | 753.5 | 705.1 | 678.2 | 662.0 | 659.3 |
| 72.5° | 30588.4 | 24686.5 | 8501.6 | 1238.0 | 785.8 | 694.3 | 637.8 | 619.0 | 586.7 | 570.5 | 567.8 |
| 75° | 15224.2 | 12966.3 | 4357.1 | 893.5 | 654.0 | 557.1 | 532.9 | 524.8 | 497.9 | 476.3 | 471.0 |
| 77.5° | 6345.9 | 5772.7 | 2031.9 | 648.6 | 497.9 | 449.4 | 427.9 | 427.9 | 398.3 | 374.1 | 363.3 |
| 80° | 2392.5 | 2131.4 | 960.8 | 444.1 | 368.7 | 333.7 | 320.3 | 309.5 | 285.3 | 255.7 | 239.5 |
| 82.5° | 3199.9 | 2091.1 | 471.0 | 277.2 | 242.2 | 215.3 | 196.5 | 188.4 | 174.9 | 161.5 | 150.7 |
| 85° | 2072.2 | 1485.6 | 212.6 | 142.6 | 121.1 | 91.5 | 80.7 | 75.4 | 67.3 | 59.2 | 53.8 |
| 87.5° | 422.5 | 497.9 | 64.6 | 26.9 | 16.1 | 8.1 | 8.1 | 2.7 | 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)