

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P530366

Luminaire Tested: **GALN-SA5C-750-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-750-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29786 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

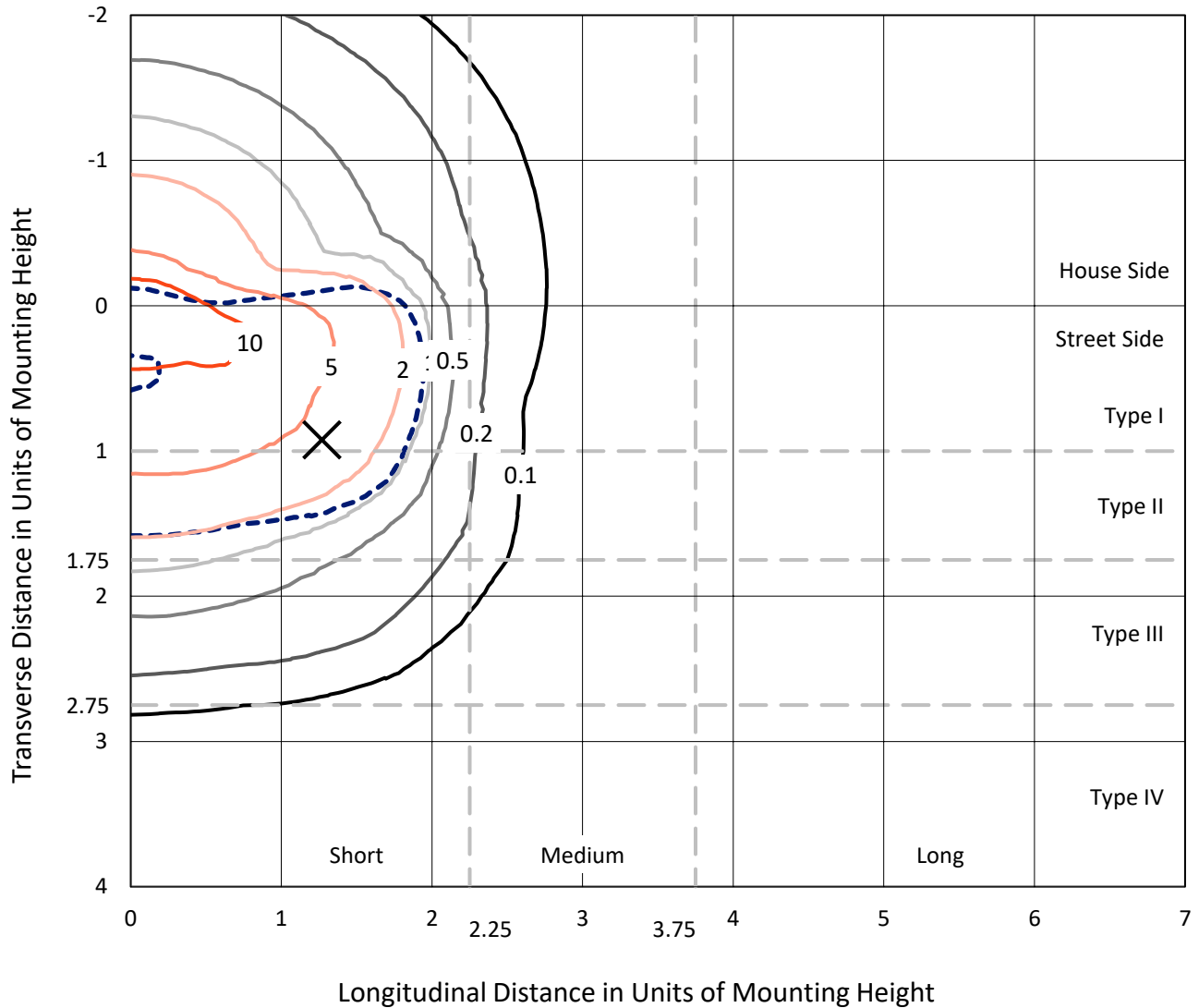
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

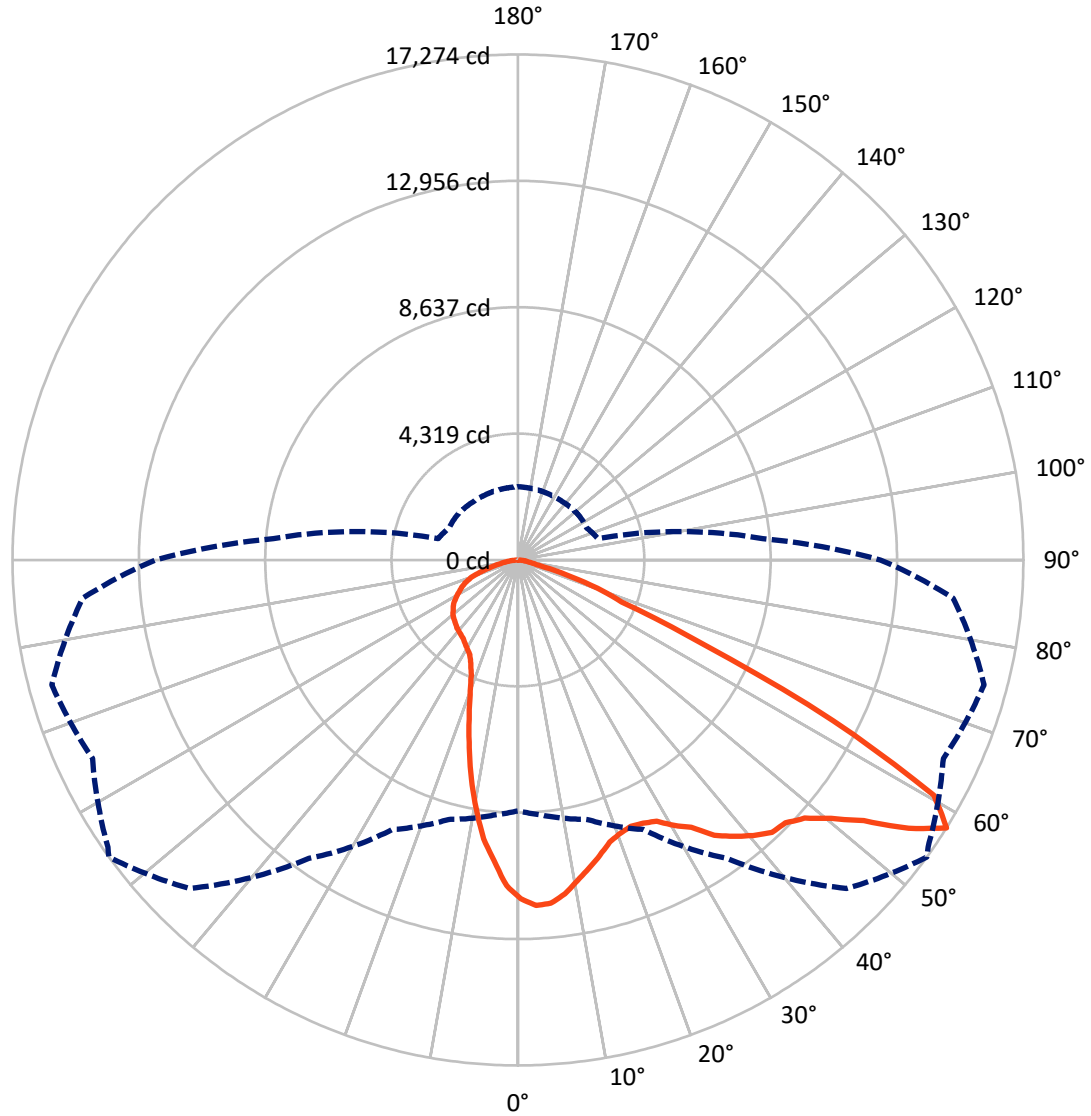
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8240.5 | 0.0 | 8240.5 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 21545.5 | 0.0 | 21545.5 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 29786.0 | 0.0 | 29786.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 998.4 | 3.4 |
| 10°-20° | 2311.8 | 7.8 |
| 20°-30° | 3248.1 | 10.9 |
| 30°-40° | 4540.8 | 15.2 |
| 40°-50° | 6147.4 | 20.6 |
| 50°-60° | 7487.8 | 25.1 |
| 60°-70° | 3900.0 | 13.1 |
| 70°-80° | 999.3 | 3.4 |
| 80°-90° | 152.4 | 0.5 |
| 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° | 29786.0 | 100.0 |
| 0°-180° | 29786.0 | 100.0 |

Coefficient of Utilization

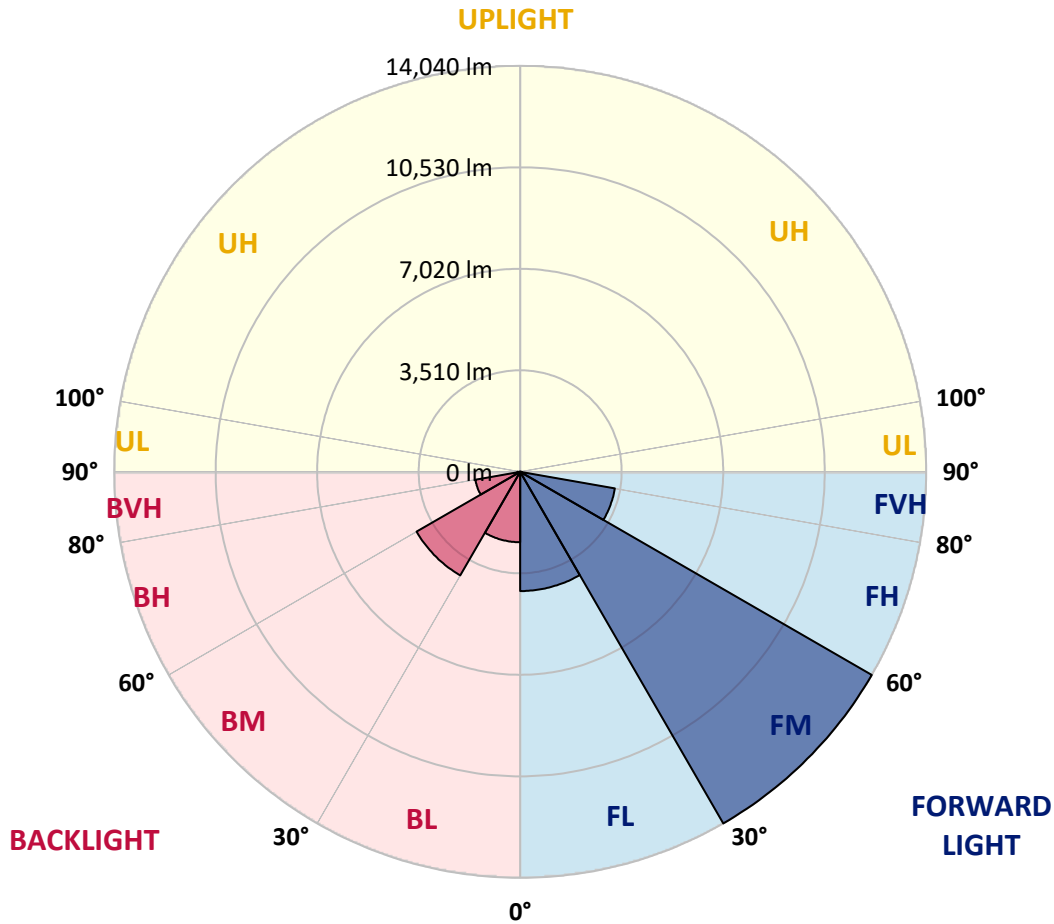


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4122.8 | 13.8 | | | |
| FM (30°-60°) | 14040.2 | 47.1 | | | |
| FH (60°-80°) | 3325.0 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 57.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2435.5 | 8.2 | B3/2500 | | |
| BM (30°-60°) | 4135.8 | 13.9 | B3/5000 | | |
| BH (60°-80°) | 1574.3 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 94.8 | 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° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 |
| 2.5° | 11906.7 | 11860.8 | 11868.4 | 11929.7 | 11853.1 | 11822.5 | 11822.5 | 11673.2 | 11684.7 | 11581.3 | 11554.5 |
| 5° | 11631.1 | 11523.9 | 11596.6 | 11688.5 | 11703.8 | 11734.4 | 11784.2 | 11745.9 | 11638.7 | 11527.7 | 11347.8 |
| 7.5° | 10911.3 | 11007.0 | 11033.8 | 11098.9 | 11236.7 | 11363.1 | 11520.0 | 11412.9 | 11409.0 | 11298.0 | 11190.8 |
| 10° | 10279.6 | 10222.2 | 10367.7 | 10463.4 | 10693.1 | 10903.7 | 11144.9 | 11133.4 | 11190.8 | 11064.5 | 10880.7 |
| 12.5° | 9651.7 | 9605.8 | 9674.7 | 9892.9 | 10214.5 | 10520.8 | 10807.9 | 10700.7 | 11007.0 | 10984.1 | 10589.7 |
| 15° | 8985.6 | 9020.0 | 9119.6 | 9322.5 | 9743.6 | 10111.1 | 10474.9 | 10478.7 | 10750.5 | 10842.4 | 10314.1 |
| 17.5° | 8518.5 | 8480.2 | 8606.5 | 8909.0 | 9284.2 | 9724.5 | 10137.9 | 10222.2 | 10639.5 | 10693.1 | 10229.8 |
| 20° | 8170.1 | 8223.7 | 8388.3 | 8541.5 | 8974.1 | 9506.2 | 9973.3 | 10004.0 | 10616.5 | 10762.0 | 10095.8 |
| 22.5° | 8085.9 | 8055.2 | 8108.8 | 8357.7 | 8713.7 | 9291.8 | 9885.3 | 10000.1 | 10612.7 | 10739.0 | 9843.2 |
| 25° | 7997.8 | 8097.3 | 8093.5 | 8342.4 | 8602.7 | 9119.6 | 9958.0 | 10084.4 | 10815.6 | 10857.7 | 9877.6 |
| 27.5° | 8196.9 | 8185.4 | 8292.6 | 8311.7 | 8633.3 | 9165.5 | 10111.1 | 10206.9 | 11152.5 | 11118.1 | 9904.4 |
| 30° | 8396.0 | 8338.5 | 8403.6 | 8629.5 | 8778.8 | 9429.7 | 10532.3 | 10524.6 | 11589.0 | 11566.0 | 9988.6 |
| 32.5° | 8641.0 | 8614.2 | 8656.3 | 8855.4 | 9108.1 | 9781.9 | 10888.3 | 11114.2 | 12033.1 | 12178.6 | 10279.6 |
| 35° | 8686.9 | 8798.0 | 8897.5 | 9165.5 | 9525.4 | 10352.3 | 11558.3 | 11745.9 | 12546.1 | 13001.7 | 10834.7 |
| 37.5° | 8977.9 | 9020.0 | 9253.6 | 9728.3 | 10057.6 | 11114.2 | 11983.3 | 12102.0 | 13013.2 | 13530.0 | 11420.5 |
| 40° | 9288.0 | 9337.8 | 9690.0 | 10187.7 | 10639.5 | 11611.9 | 12381.5 | 12419.8 | 13162.5 | 13935.9 | 11803.4 |
| 42.5° | 9709.2 | 9755.1 | 10103.5 | 10727.5 | 11332.5 | 12036.9 | 12733.7 | 12775.8 | 13151.0 | 14402.9 | 12412.1 |
| 45° | 10145.6 | 10256.6 | 10666.3 | 11374.6 | 11918.2 | 12534.6 | 12814.1 | 12986.4 | 13258.2 | 14820.2 | 12906.0 |
| 47.5° | 10758.2 | 10861.5 | 11198.5 | 11891.4 | 12527.0 | 12971.1 | 13185.5 | 13353.9 | 13514.7 | 15184.0 | 13223.7 |
| 50° | 11409.0 | 11428.2 | 11837.8 | 12465.7 | 12932.8 | 13464.9 | 13878.4 | 13935.9 | 13851.6 | 15605.1 | 13763.6 |
| 52.5° | 11887.6 | 11948.8 | 12266.6 | 12879.2 | 13576.0 | 14230.6 | 14797.3 | 14858.5 | 14693.9 | 15762.1 | 13947.3 |
| 55° | 11095.1 | 11060.6 | 11577.5 | 12393.0 | 14008.6 | 15371.6 | 16194.7 | 16240.6 | 15306.5 | 16248.3 | 14548.4 |
| 57.5° | 8575.9 | 8740.5 | 9180.8 | 10164.7 | 12446.6 | 15876.9 | 17274.3 | 17109.7 | 16041.5 | 16493.3 | 14931.3 |
| 60° | 6232.8 | 6194.6 | 6489.4 | 7147.9 | 9379.9 | 13683.2 | 16332.5 | 16501.0 | 15440.5 | 14866.2 | 12312.6 |
| 62.5° | 5076.6 | 5023.0 | 5046.0 | 5069.0 | 6052.9 | 9081.3 | 12090.5 | 12086.7 | 11891.4 | 10685.4 | 8304.1 |
| 65° | 4058.2 | 4184.6 | 4196.1 | 4368.4 | 4494.7 | 5425.0 | 7006.2 | 7381.4 | 6428.1 | 5271.9 | 3824.7 |
| 67.5° | 3059.0 | 3013.1 | 3166.2 | 3778.8 | 4016.1 | 3916.6 | 3824.7 | 3866.8 | 2748.9 | 1983.2 | 1868.3 |
| 70° | 1803.2 | 1784.1 | 1967.9 | 2634.0 | 3307.9 | 3112.6 | 2882.9 | 2886.7 | 1887.5 | 1385.9 | 1542.9 |
| 72.5° | 987.8 | 983.9 | 1022.2 | 1336.2 | 1879.8 | 1952.6 | 1730.5 | 1784.1 | 1125.6 | 1121.8 | 1206.0 |
| 75° | 551.3 | 539.8 | 528.3 | 589.6 | 677.6 | 715.9 | 731.2 | 738.9 | 773.4 | 865.2 | 899.7 |
| 77.5° | 202.9 | 195.3 | 195.3 | 225.9 | 287.1 | 359.9 | 455.6 | 463.3 | 547.5 | 627.9 | 662.3 |
| 80° | 68.9 | 76.6 | 103.4 | 141.7 | 191.4 | 256.5 | 310.1 | 317.8 | 386.7 | 440.3 | 451.8 |
| 82.5° | 42.1 | 45.9 | 68.9 | 99.5 | 137.8 | 179.9 | 229.7 | 233.5 | 287.1 | 321.6 | 336.9 |
| 85° | 19.1 | 23.0 | 38.3 | 61.3 | 88.1 | 118.7 | 122.5 | 122.5 | 118.7 | 122.5 | 114.9 |
| 87.5° | 0.0 | 0.0 | 7.7 | 7.7 | 7.7 | 11.5 | 15.3 | 11.5 | 19.1 | 23.0 | 23.0 |
| 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° | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 | 11577.5 |
| 2.5° | 11474.1 | 11432.0 | 11301.8 | 11187.0 | 11152.5 | 10999.4 | 10773.5 | 10800.3 | 10635.7 | 10712.2 | 10631.8 |
| 5° | 11317.1 | 11175.5 | 10842.4 | 10700.7 | 10329.4 | 10160.9 | 10046.1 | 9758.9 | 9624.9 | 9598.1 | 9483.3 |
| 7.5° | 10915.1 | 10827.1 | 10409.8 | 10026.9 | 9632.6 | 9295.7 | 8863.0 | 8568.3 | 8357.7 | 8300.3 | 8131.8 |
| 10° | 10597.4 | 10402.1 | 9824.0 | 9242.1 | 8679.3 | 8093.5 | 7530.7 | 7090.4 | 6876.0 | 6627.2 | 6543.0 |
| 12.5° | 10283.4 | 9988.6 | 9207.6 | 8461.1 | 7733.6 | 6994.7 | 6313.2 | 5777.3 | 5310.2 | 5199.1 | 5160.9 |
| 15° | 10088.2 | 9575.2 | 8656.3 | 7756.6 | 6722.9 | 5758.1 | 5076.6 | 4724.4 | 4437.3 | 4318.6 | 4402.8 |
| 17.5° | 9831.7 | 9234.4 | 8128.0 | 6929.6 | 5792.6 | 4904.3 | 4333.9 | 4115.7 | 4012.3 | 4023.8 | 3989.3 |
| 20° | 9510.1 | 8912.8 | 7435.0 | 6179.2 | 4961.8 | 4253.5 | 3928.1 | 3847.7 | 3863.0 | 3889.8 | 3878.3 |
| 22.5° | 9280.4 | 8522.3 | 6933.5 | 5413.5 | 4288.0 | 3893.6 | 3759.6 | 3702.2 | 3752.0 | 3774.9 | 3755.8 |
| 25° | 9104.2 | 8189.2 | 6324.7 | 4735.9 | 3897.4 | 3690.7 | 3629.4 | 3625.6 | 3702.2 | 3732.8 | 3713.7 |
| 27.5° | 8943.4 | 7879.1 | 5719.8 | 4219.0 | 3637.1 | 3533.7 | 3514.6 | 3560.5 | 3610.3 | 3640.9 | 3667.7 |
| 30° | 8847.7 | 7641.7 | 5153.2 | 3786.4 | 3506.9 | 3457.2 | 3422.7 | 3464.8 | 3491.6 | 3522.2 | 3506.9 |
| 32.5° | 8939.6 | 7473.3 | 4605.7 | 3541.4 | 3399.7 | 3350.0 | 3395.9 | 3369.1 | 3415.0 | 3441.8 | 3399.7 |
| 35° | 9226.8 | 7324.0 | 4215.2 | 3411.2 | 3277.2 | 3296.4 | 3304.0 | 3292.5 | 3311.7 | 3288.7 | 3338.5 |
| 37.5° | 9510.1 | 7270.4 | 3855.3 | 3300.2 | 3219.8 | 3219.8 | 3212.1 | 3189.2 | 3227.5 | 3219.8 | 3242.8 |
| 40° | 9870.0 | 7304.8 | 3549.0 | 3181.5 | 3166.2 | 3158.5 | 3127.9 | 3124.1 | 3108.8 | 3112.6 | 3120.3 |
| 42.5° | 10183.9 | 7381.4 | 3372.9 | 3104.9 | 3116.4 | 3131.7 | 3074.3 | 3028.4 | 3047.5 | 3009.2 | 3009.2 |
| 45° | 10517.0 | 7450.3 | 3216.0 | 3051.3 | 3039.9 | 3036.0 | 2990.1 | 2963.3 | 2948.0 | 2951.8 | 2986.3 |
| 47.5° | 11041.5 | 7549.9 | 3097.3 | 2978.6 | 2986.3 | 2928.8 | 2917.3 | 2882.9 | 2898.2 | 2921.2 | 2925.0 |
| 50° | 11412.9 | 7760.4 | 3005.4 | 2894.4 | 2921.2 | 2882.9 | 2814.0 | 2798.7 | 2798.7 | 2836.9 | 2829.3 |
| 52.5° | 11673.2 | 8055.2 | 2917.3 | 2802.5 | 2814.0 | 2783.3 | 2760.4 | 2725.9 | 2702.9 | 2756.5 | 2783.3 |
| 55° | 12469.5 | 8545.3 | 2894.4 | 2725.9 | 2722.1 | 2691.5 | 2649.3 | 2614.9 | 2603.4 | 2611.1 | 2664.7 |
| 57.5° | 12393.0 | 8392.1 | 2821.6 | 2591.9 | 2584.3 | 2542.1 | 2500.0 | 2488.5 | 2484.7 | 2492.4 | 2507.7 |
| 60° | 10061.4 | 6198.4 | 2519.2 | 2438.8 | 2427.3 | 2419.6 | 2377.5 | 2331.6 | 2308.6 | 2331.6 | 2312.4 |
| 62.5° | 6657.8 | 4150.1 | 2220.5 | 2255.0 | 2262.7 | 2243.5 | 2174.6 | 2128.7 | 2136.3 | 2163.1 | 2121.0 |
| 65° | 3269.6 | 2438.8 | 2013.8 | 2105.7 | 2113.3 | 2059.7 | 1994.7 | 1941.1 | 1914.3 | 1937.2 | 1918.1 |
| 67.5° | 1868.3 | 1864.5 | 1845.4 | 1941.1 | 1937.2 | 1883.6 | 1780.3 | 1734.3 | 1688.4 | 1696.0 | 1684.6 |
| 70° | 1585.0 | 1615.6 | 1653.9 | 1711.4 | 1707.5 | 1646.3 | 1523.8 | 1489.3 | 1424.2 | 1416.6 | 1397.4 |
| 72.5° | 1248.1 | 1301.7 | 1385.9 | 1428.0 | 1393.6 | 1317.0 | 1236.6 | 1179.2 | 1121.8 | 1087.3 | 1098.8 |
| 75° | 926.5 | 1003.1 | 1049.0 | 1075.8 | 1022.2 | 980.1 | 915.0 | 846.1 | 777.2 | 746.6 | 735.1 |
| 77.5° | 673.8 | 696.8 | 738.9 | 758.0 | 723.6 | 681.5 | 643.2 | 574.3 | 509.2 | 467.1 | 455.6 |
| 80° | 470.9 | 486.2 | 516.9 | 516.9 | 516.9 | 497.7 | 447.9 | 379.0 | 336.9 | 298.6 | 291.0 |
| 82.5° | 329.3 | 344.6 | 375.2 | 359.9 | 356.1 | 333.1 | 302.5 | 248.9 | 202.9 | 176.1 | 168.5 |
| 85° | 114.9 | 126.3 | 153.1 | 183.8 | 195.3 | 191.4 | 172.3 | 137.8 | 107.2 | 88.1 | 80.4 |
| 87.5° | 26.8 | 26.8 | 30.6 | 26.8 | 26.8 | 30.6 | 26.8 | 26.8 | 26.8 | 19.1 | 15.3 |
| 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)