

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: P532263

Luminaire Tested: **GALN-SA7C-760-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-760-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28636 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

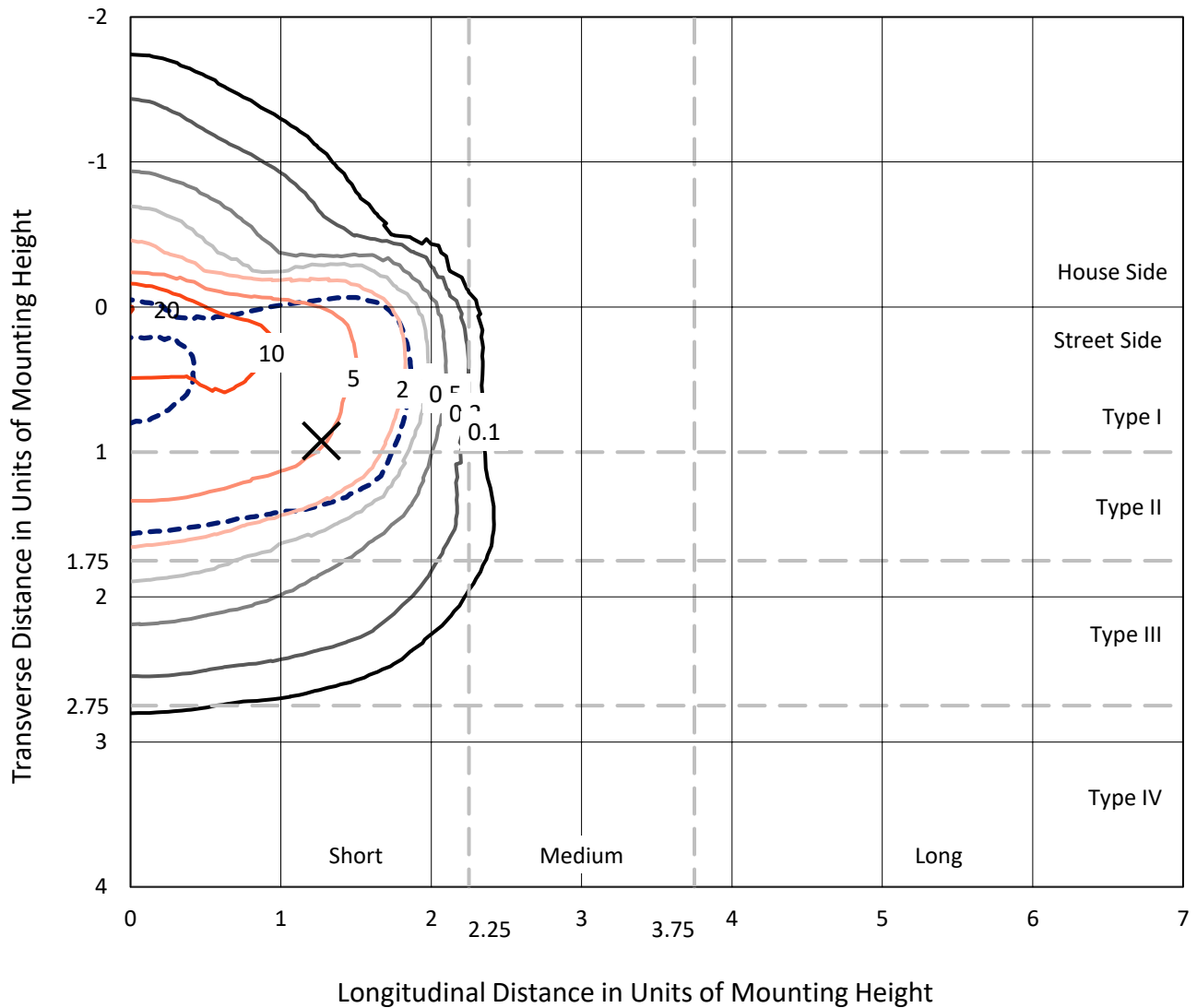
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

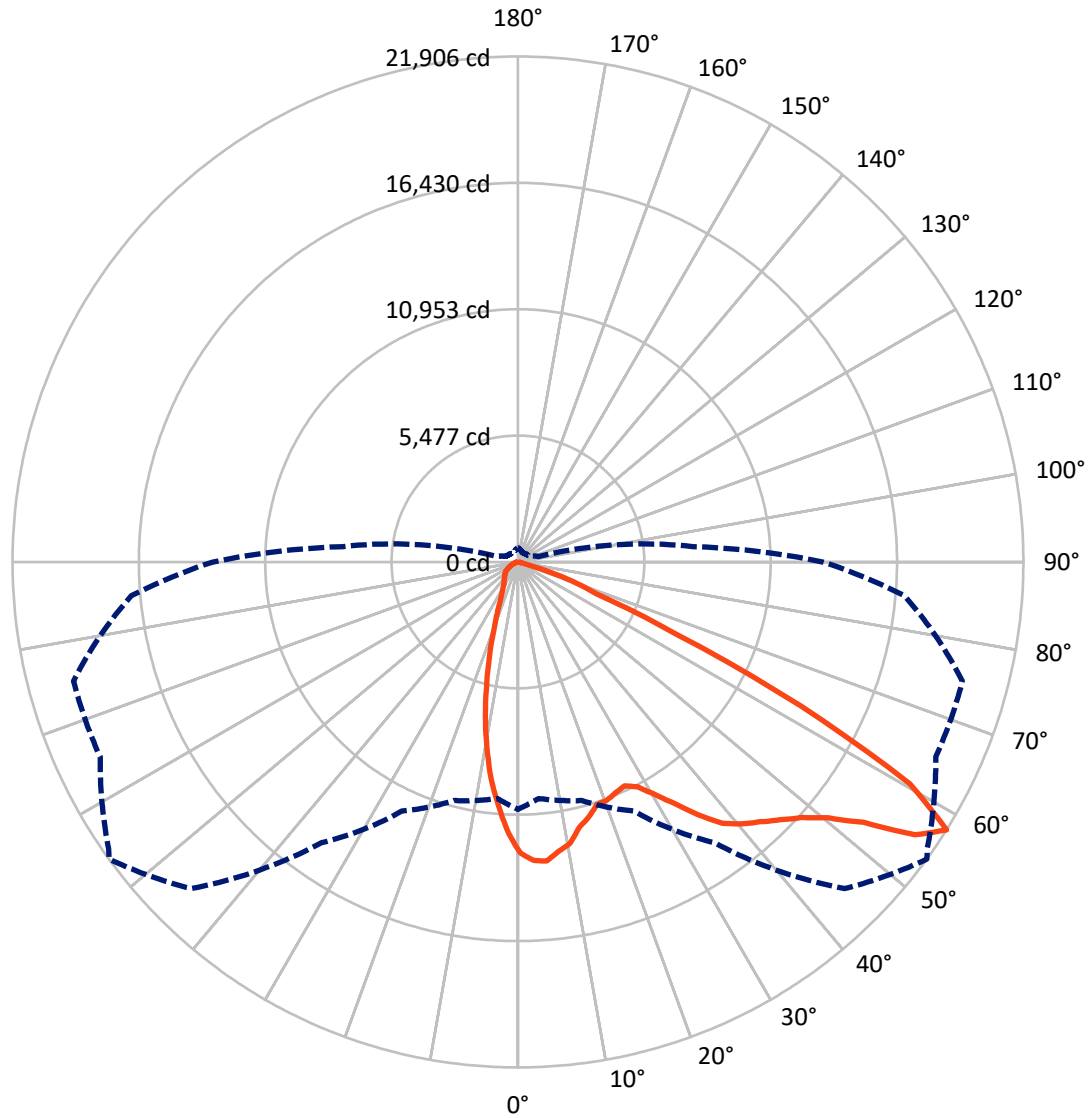
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 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 | 4046.7 | 0.0 | 4046.7 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 24589.2 | 0.0 | 24589.2 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 28636.0 | 0.0 | 28636.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1055.6 | 3.7 |
| 10°-20° | 2253.7 | 7.9 |
| 20°-30° | 2986.6 | 10.4 |
| 30°-40° | 4340.4 | 15.2 |
| 40°-50° | 6436.2 | 22.5 |
| 50°-60° | 8048.2 | 28.1 |
| 60°-70° | 3174.6 | 11.1 |
| 70°-80° | 316.1 | 1.1 |
| 80°-90° | 24.6 | 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° | 28636.0 | 100.0 |
| 0°-180° | 28636.0 | 100.0 |

Coefficient of Utilization



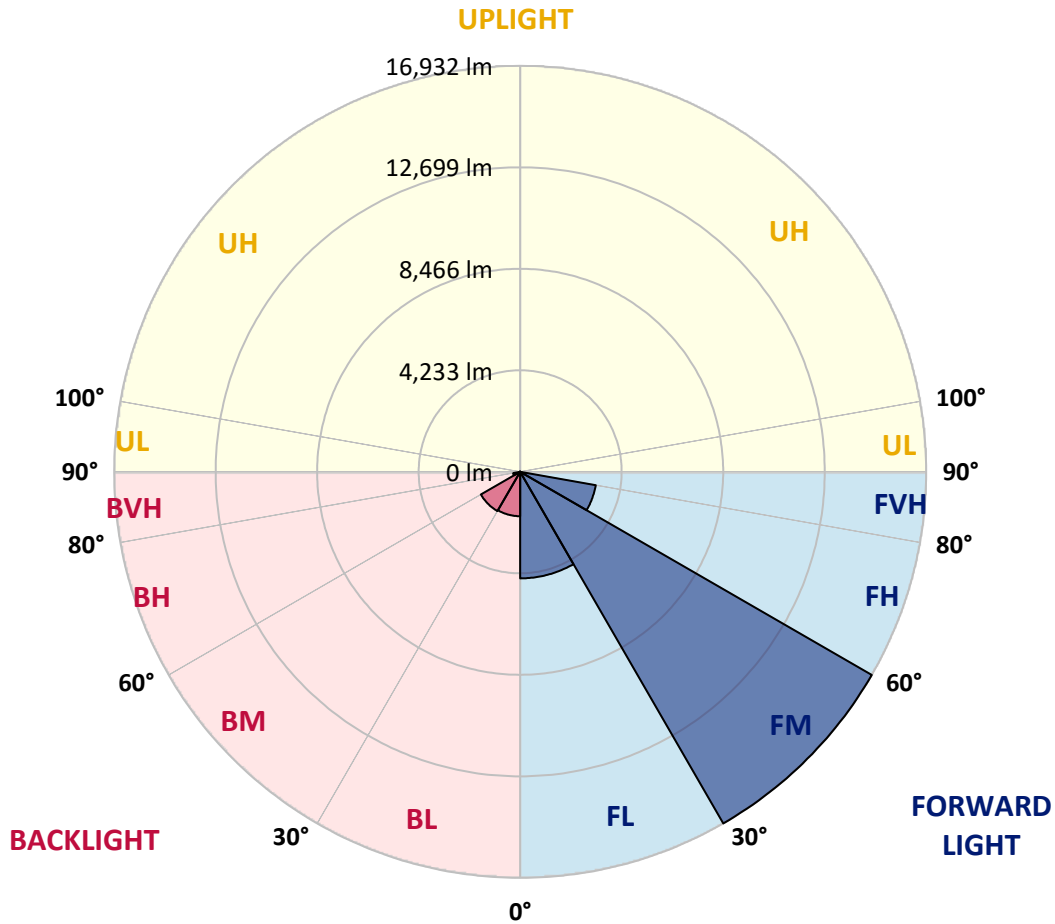
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4445.1 | 15.5 | | | |
| FM (30°-60°) | 16932.4 | 59.1 | | | |
| FH (60°-80°) | 3200.5 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 11.2 | 0.0 | | | G1/100 |
| BL (0°-30°) | 1850.8 | 6.5 | B3/2500 | | |
| BM (30°-60°) | 1892.4 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 290.2 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.4 | 0.0 | | | G1/100 |
| 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° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 |
| 2.5° | 13349.4 | 13210.9 | 13221.6 | 13173.7 | 13109.8 | 13157.7 | 12950.0 | 12997.9 | 12992.6 | 12710.4 | 12524.0 |
| 5° | 13013.9 | 13163.0 | 13008.6 | 13136.4 | 13013.9 | 13147.0 | 13019.2 | 12923.4 | 12769.0 | 12561.3 | 12215.2 |
| 7.5° | 12444.1 | 12300.4 | 12343.0 | 12502.7 | 12529.3 | 12827.5 | 12667.8 | 12790.3 | 12726.4 | 12316.4 | 11842.4 |
| 10° | 11299.3 | 11267.4 | 11480.4 | 11693.3 | 11954.3 | 12273.8 | 12396.2 | 12327.0 | 12279.1 | 12124.7 | 11491.0 |
| 12.5° | 10420.7 | 10511.2 | 10505.9 | 10857.3 | 11299.3 | 11480.4 | 11799.8 | 11789.2 | 12055.4 | 11767.9 | 11160.9 |
| 15° | 9584.7 | 9632.6 | 9856.3 | 10074.6 | 10564.5 | 11081.0 | 11475.0 | 11528.3 | 11847.8 | 11645.4 | 10905.3 |
| 17.5° | 9073.5 | 9004.3 | 9180.0 | 9440.9 | 9941.5 | 10617.7 | 11054.4 | 11182.2 | 11618.8 | 11576.2 | 10612.4 |
| 20° | 8567.7 | 8567.7 | 8711.4 | 9020.3 | 9478.2 | 10239.7 | 11017.1 | 10979.8 | 11618.8 | 11496.3 | 10298.2 |
| 22.5° | 8397.3 | 8482.5 | 8519.7 | 8754.0 | 9297.2 | 9952.1 | 10857.3 | 10926.6 | 11709.3 | 11459.1 | 10159.8 |
| 25° | 8631.6 | 8519.7 | 8530.4 | 8716.8 | 9227.9 | 9813.7 | 10740.2 | 10894.6 | 11874.4 | 11645.4 | 10048.0 |
| 27.5° | 8668.8 | 8780.7 | 8812.6 | 8940.4 | 9281.2 | 9856.3 | 11033.1 | 11347.2 | 12284.4 | 12082.1 | 10079.9 |
| 30° | 8993.7 | 9105.5 | 9100.1 | 9318.5 | 9552.8 | 10202.4 | 11688.0 | 11751.9 | 13131.1 | 12630.5 | 10276.9 |
| 32.5° | 9387.7 | 9504.8 | 9542.1 | 9797.7 | 9984.1 | 10836.0 | 12486.7 | 12651.8 | 13945.8 | 13493.1 | 10793.4 |
| 35° | 9877.6 | 9835.0 | 10005.4 | 10261.0 | 10660.3 | 11762.6 | 13461.2 | 13738.1 | 14824.4 | 14611.4 | 11325.9 |
| 37.5° | 10489.9 | 10436.7 | 10601.8 | 11017.1 | 11560.2 | 12859.5 | 14361.1 | 14542.1 | 15463.3 | 15649.7 | 12311.0 |
| 40° | 10921.2 | 10942.5 | 11443.1 | 12002.2 | 12577.3 | 13903.2 | 14930.8 | 15106.6 | 15910.6 | 16618.8 | 13056.5 |
| 42.5° | 11640.1 | 11773.2 | 12374.9 | 13056.5 | 13658.2 | 14685.9 | 15394.1 | 15564.5 | 16118.3 | 17396.2 | 14062.9 |
| 45° | 12683.8 | 12625.2 | 13290.8 | 14052.3 | 14717.9 | 15500.6 | 15942.6 | 15884.0 | 16240.8 | 18168.4 | 14696.6 |
| 47.5° | 14025.6 | 14036.3 | 14478.2 | 15127.9 | 15820.1 | 16208.8 | 16554.9 | 16347.3 | 16496.4 | 18983.1 | 15543.2 |
| 50° | 14941.5 | 15021.4 | 15378.1 | 16043.7 | 16389.9 | 16986.2 | 17428.2 | 17300.4 | 17252.5 | 19472.9 | 16075.7 |
| 52.5° | 15175.8 | 15415.4 | 15607.1 | 16437.8 | 17247.2 | 18189.6 | 18754.1 | 19025.6 | 18173.7 | 19638.0 | 16751.9 |
| 55° | 13407.9 | 13620.9 | 14297.2 | 15436.7 | 17572.0 | 20095.9 | 20873.4 | 20878.7 | 19377.1 | 20372.8 | 17225.9 |
| 57.5° | 10718.9 | 10287.6 | 10702.9 | 11911.7 | 14856.3 | 20016.1 | 21906.4 | 21656.1 | 19978.8 | 19941.5 | 16815.8 |
| 60° | 7412.2 | 7305.7 | 7332.3 | 7811.5 | 10282.3 | 15921.3 | 19520.9 | 19845.7 | 18397.3 | 17284.4 | 13312.1 |
| 62.5° | 5873.3 | 5782.8 | 5665.6 | 5612.4 | 6384.5 | 9920.2 | 13770.0 | 14228.0 | 12864.8 | 11208.8 | 7891.4 |
| 65° | 4600.7 | 4547.4 | 4563.4 | 4776.4 | 4771.1 | 5628.4 | 7529.3 | 7343.0 | 5878.6 | 4345.1 | 2481.4 |
| 67.5° | 3104.4 | 3184.3 | 3248.2 | 3892.5 | 4222.6 | 3919.1 | 3636.9 | 3530.4 | 1911.6 | 804.1 | 548.5 |
| 70° | 1746.5 | 1757.2 | 1826.4 | 2433.5 | 3205.6 | 3040.5 | 2508.0 | 2508.0 | 953.1 | 292.9 | 314.2 |
| 72.5° | 953.1 | 921.2 | 857.3 | 1049.0 | 1427.1 | 1448.4 | 1118.2 | 974.4 | 282.2 | 191.7 | 175.7 |
| 75° | 463.3 | 457.9 | 394.0 | 324.8 | 308.8 | 255.6 | 197.0 | 181.0 | 127.8 | 122.5 | 106.5 |
| 77.5° | 95.8 | 90.5 | 47.9 | 47.9 | 53.2 | 58.6 | 74.5 | 74.5 | 90.5 | 90.5 | 74.5 |
| 80° | 0.0 | 0.0 | 5.3 | 21.3 | 37.3 | 53.2 | 63.9 | 63.9 | 74.5 | 74.5 | 58.6 |
| 82.5° | 0.0 | 0.0 | 5.3 | 16.0 | 31.9 | 47.9 | 58.6 | 63.9 | 74.5 | 79.9 | 63.9 |
| 85° | 0.0 | 0.0 | 0.0 | 10.6 | 26.6 | 37.3 | 31.9 | 31.9 | 26.6 | 21.3 | 10.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 | 12614.5 |
| 2.5° | 12428.2 | 12417.5 | 12172.6 | 12034.1 | 11783.9 | 11565.6 | 11389.8 | 11262.0 | 11262.0 | 11182.2 | 11107.6 |
| 5° | 12076.7 | 11986.2 | 11464.4 | 11128.9 | 10655.0 | 10303.6 | 10063.9 | 9877.6 | 9584.7 | 9664.6 | 9350.4 |
| 7.5° | 11640.1 | 11411.1 | 10718.9 | 10207.7 | 9552.8 | 9052.2 | 8541.0 | 8088.4 | 7651.8 | 7454.8 | 7561.3 |
| 10° | 11171.5 | 10772.1 | 9840.3 | 9030.9 | 8216.2 | 7300.4 | 6704.0 | 5979.8 | 5532.5 | 5505.9 | 5388.7 |
| 12.5° | 10676.3 | 10223.7 | 9089.5 | 7971.3 | 6901.0 | 5798.7 | 4888.2 | 4211.9 | 3908.4 | 3573.0 | 3636.9 |
| 15° | 10303.6 | 9632.6 | 8253.5 | 6906.3 | 5484.6 | 4371.7 | 3455.8 | 2934.0 | 2646.4 | 2566.6 | 2539.9 |
| 17.5° | 9898.9 | 9180.0 | 7401.5 | 5772.1 | 4302.5 | 3147.0 | 2486.7 | 2236.4 | 2124.6 | 2124.6 | 2108.6 |
| 20° | 9478.2 | 8668.8 | 6554.9 | 4717.8 | 3226.9 | 2348.3 | 1991.5 | 1911.6 | 1906.3 | 1901.0 | 1901.0 |
| 22.5° | 9201.3 | 8083.1 | 5788.1 | 3748.7 | 2433.5 | 1879.7 | 1730.6 | 1698.6 | 1719.9 | 1783.8 | 1783.8 |
| 25° | 8908.5 | 7518.7 | 4941.5 | 2891.4 | 1885.0 | 1613.4 | 1528.2 | 1549.5 | 1602.8 | 1661.3 | 1640.1 |
| 27.5° | 8610.3 | 7151.3 | 4142.7 | 2268.4 | 1544.2 | 1411.1 | 1379.1 | 1427.1 | 1485.6 | 1538.9 | 1522.9 |
| 30° | 8541.0 | 6757.2 | 3386.6 | 1719.9 | 1325.9 | 1230.0 | 1251.3 | 1293.9 | 1352.5 | 1373.8 | 1395.1 |
| 32.5° | 8647.5 | 6448.4 | 2774.2 | 1411.1 | 1155.5 | 1128.9 | 1128.9 | 1150.2 | 1187.4 | 1235.4 | 1219.4 |
| 35° | 8951.1 | 6272.7 | 2193.8 | 1224.7 | 1059.6 | 1033.0 | 1027.7 | 1049.0 | 1070.3 | 1086.3 | 1070.3 |
| 37.5° | 9414.3 | 6134.2 | 1794.5 | 1086.3 | 995.7 | 953.1 | 942.5 | 937.2 | 958.5 | 963.8 | 974.4 |
| 40° | 10005.4 | 6208.8 | 1522.9 | 1001.1 | 931.8 | 883.9 | 852.0 | 852.0 | 852.0 | 867.9 | 873.3 |
| 42.5° | 10644.4 | 6309.9 | 1315.2 | 953.1 | 873.3 | 814.7 | 782.8 | 772.1 | 782.8 | 804.1 | 798.7 |
| 45° | 11315.3 | 6507.0 | 1182.1 | 878.6 | 820.0 | 745.5 | 702.9 | 692.2 | 718.9 | 761.5 | 756.1 |
| 47.5° | 11943.6 | 6789.2 | 1080.9 | 830.7 | 766.8 | 697.6 | 644.3 | 633.7 | 681.6 | 740.2 | 745.5 |
| 50° | 12571.9 | 7279.1 | 1043.7 | 793.4 | 729.5 | 649.6 | 601.7 | 591.1 | 644.3 | 718.9 | 734.8 |
| 52.5° | 13296.1 | 7806.2 | 1017.0 | 745.5 | 686.9 | 612.4 | 559.1 | 548.5 | 607.0 | 702.9 | 708.2 |
| 55° | 13770.0 | 8253.5 | 995.7 | 660.3 | 607.0 | 553.8 | 511.2 | 505.9 | 569.8 | 655.0 | 676.3 |
| 57.5° | 13216.3 | 7630.5 | 921.2 | 575.1 | 516.5 | 489.9 | 452.6 | 452.6 | 505.9 | 585.7 | 601.7 |
| 60° | 10021.3 | 5021.3 | 655.0 | 463.3 | 436.6 | 420.7 | 404.7 | 404.7 | 447.3 | 505.9 | 511.2 |
| 62.5° | 5868.0 | 2705.0 | 420.7 | 372.7 | 372.7 | 356.8 | 330.1 | 330.1 | 372.7 | 404.7 | 410.0 |
| 65° | 1741.2 | 867.9 | 340.8 | 319.5 | 314.2 | 287.5 | 260.9 | 255.6 | 287.5 | 303.5 | 298.2 |
| 67.5° | 500.5 | 399.4 | 282.2 | 266.2 | 260.9 | 218.3 | 202.3 | 197.0 | 202.3 | 191.7 | 186.4 |
| 70° | 298.2 | 271.6 | 218.3 | 223.6 | 197.0 | 159.7 | 143.8 | 138.4 | 127.8 | 111.8 | 101.2 |
| 72.5° | 165.1 | 165.1 | 159.7 | 170.4 | 138.4 | 106.5 | 90.5 | 74.5 | 58.6 | 47.9 | 42.6 |
| 75° | 101.2 | 106.5 | 111.8 | 117.1 | 90.5 | 69.2 | 58.6 | 37.3 | 21.3 | 10.6 | 10.6 |
| 77.5° | 69.2 | 74.5 | 79.9 | 85.2 | 74.5 | 63.9 | 47.9 | 26.6 | 5.3 | 0.0 | 0.0 |
| 80° | 53.2 | 58.6 | 69.2 | 74.5 | 79.9 | 85.2 | 63.9 | 26.6 | 5.3 | 0.0 | 0.0 |
| 82.5° | 58.6 | 63.9 | 79.9 | 74.5 | 74.5 | 74.5 | 58.6 | 26.6 | 5.3 | 0.0 | 0.0 |
| 85° | 10.6 | 16.0 | 26.6 | 26.6 | 37.3 | 47.9 | 37.3 | 10.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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)