

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: STREETWORKS

Report Number: P528502

Luminaire Tested: **GLAN-SA3C-750-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3C-750-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18443 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

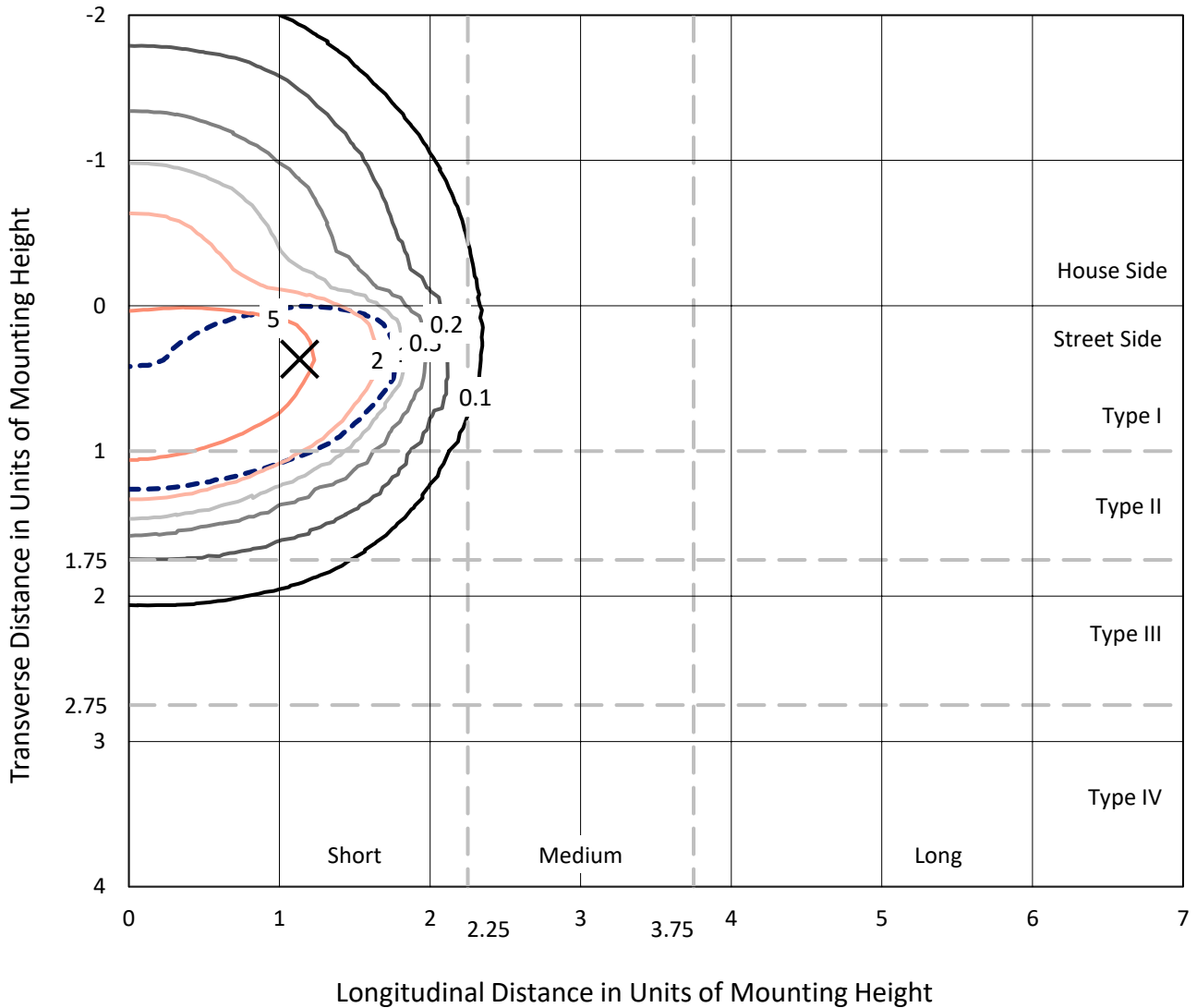
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

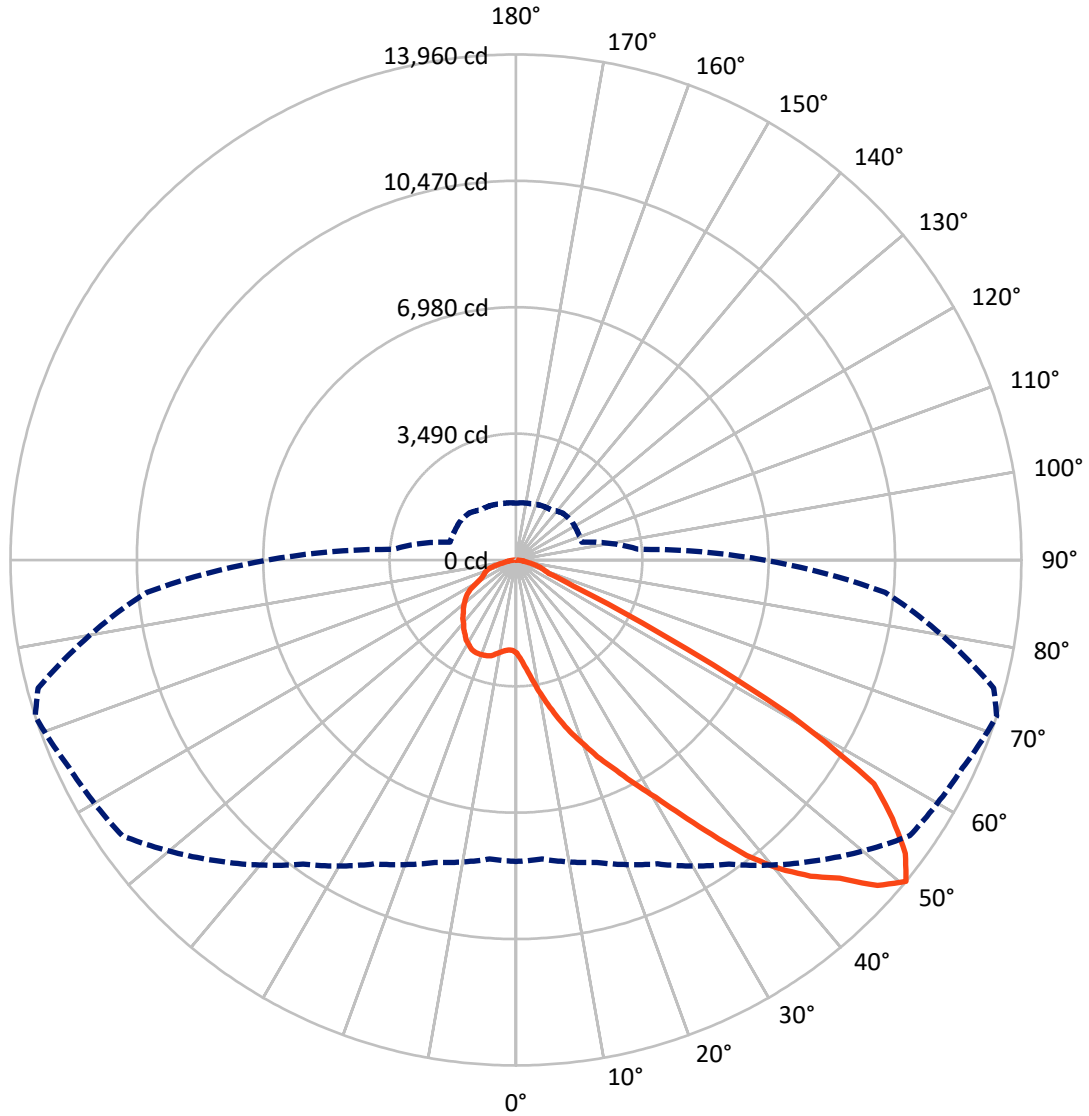
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4225.4 | 0.0 | 4225.4 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 14217.6 | 0.0 | 14217.6 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 18443.0 | 0.0 | 18443.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 302.0 | 1.6 |
| 10°-20° | 1129.0 | 6.1 |
| 20°-30° | 2189.0 | 11.9 |
| 30°-40° | 3626.4 | 19.7 |
| 40°-50° | 5074.1 | 27.5 |
| 50°-60° | 4280.6 | 23.2 |
| 60°-70° | 1304.7 | 7.1 |
| 70°-80° | 457.7 | 2.5 |
| 80°-90° | 79.6 | 0.4 |
| 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° | 18443.0 | 100.0 |
| 0°-180° | 18443.0 | 100.0 |

Coefficient of Utilization



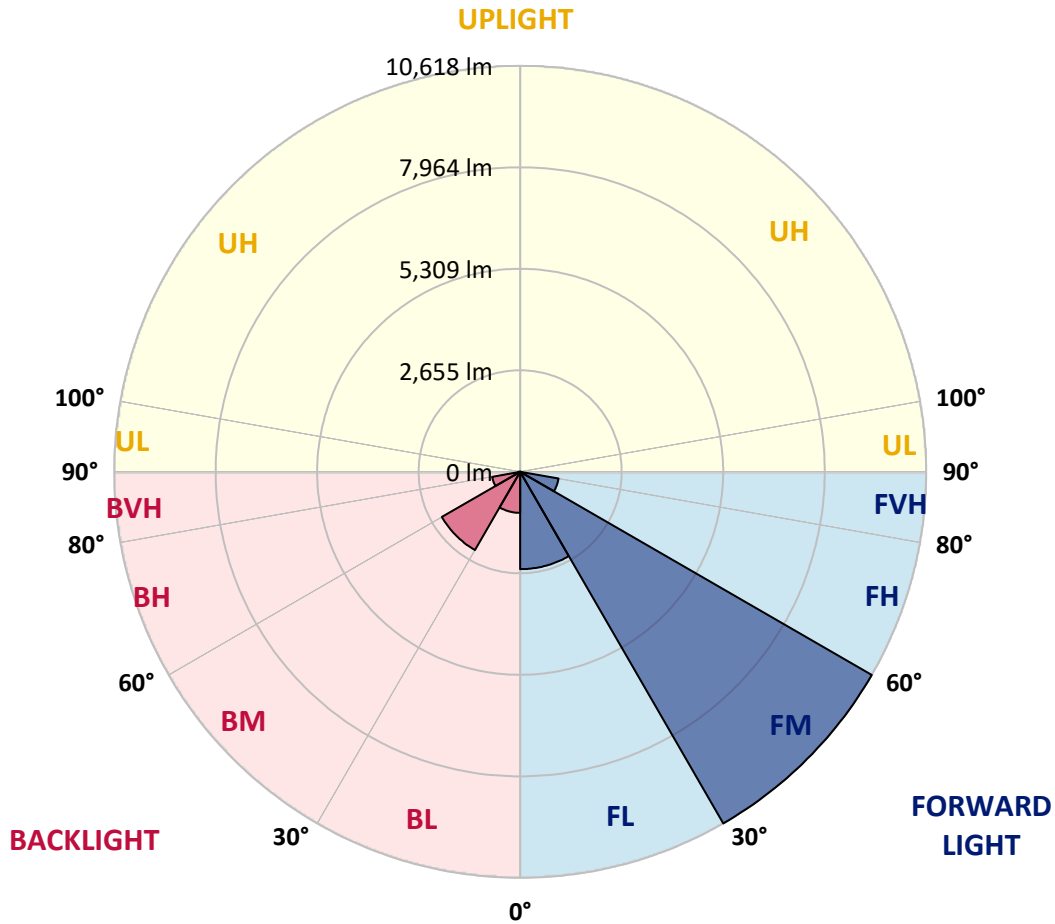
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2545.8 | 13.8 | | | |
| FM (30°-60°) | 10618.1 | 57.6 | | | |
| FH (60°-80°) | 1018.0 | 5.5 | | | G1/1800 |
| FVH (80°-90°) | 35.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1074.1 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 2362.9 | 12.8 | B2/2500 | | |
| BH (60°-80°) | 744.4 | 4.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 43.9 | 0.2 | | | 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° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 |
| 2.5° | 3302.3 | 3281.7 | 3220.1 | 3199.6 | 3126.6 | 2994.2 | 2948.5 | 2813.9 | 2756.8 | 2704.4 | 2642.7 |
| 5° | 4176.3 | 4080.5 | 4073.6 | 3957.3 | 3788.4 | 3690.2 | 3398.1 | 3201.9 | 3021.6 | 2930.3 | 2761.4 |
| 7.5° | 4733.2 | 4735.5 | 4735.5 | 4639.6 | 4505.0 | 4256.2 | 3993.8 | 3640.0 | 3368.5 | 3233.8 | 2946.3 |
| 10° | 5262.6 | 5217.0 | 5191.9 | 5182.8 | 5091.5 | 4849.6 | 4568.9 | 4130.7 | 3758.7 | 3601.2 | 3085.5 |
| 12.5° | 5636.9 | 5598.1 | 5655.2 | 5625.5 | 5559.3 | 5401.9 | 5137.1 | 4637.3 | 4171.8 | 3959.5 | 3309.1 |
| 15° | 5814.9 | 5842.3 | 5888.0 | 5970.1 | 5940.4 | 5881.1 | 5589.0 | 5157.7 | 4616.8 | 4377.2 | 3507.7 |
| 17.5° | 6088.8 | 6013.5 | 6068.2 | 6170.9 | 6253.1 | 6225.7 | 6059.1 | 5534.2 | 5057.3 | 4762.9 | 3774.7 |
| 20° | 6280.5 | 6237.1 | 6264.5 | 6383.2 | 6444.8 | 6600.0 | 6513.3 | 6027.2 | 5479.5 | 5169.1 | 4089.6 |
| 22.5° | 6828.2 | 6764.3 | 6675.3 | 6693.6 | 6716.4 | 6825.9 | 6846.5 | 6568.0 | 5970.1 | 5641.5 | 4388.6 |
| 25° | 7503.7 | 7444.4 | 7339.4 | 7232.1 | 7166.0 | 7145.4 | 7216.2 | 6992.5 | 6440.2 | 6100.2 | 4710.4 |
| 27.5° | 8247.7 | 8147.3 | 8081.1 | 7859.7 | 7681.7 | 7654.3 | 7620.1 | 7499.2 | 6997.1 | 6629.7 | 5073.2 |
| 30° | 8971.1 | 8891.3 | 8802.3 | 8448.5 | 8263.7 | 8234.0 | 8065.1 | 8099.4 | 7601.9 | 7193.3 | 5484.0 |
| 32.5° | 9518.9 | 9525.7 | 9322.6 | 9055.6 | 8882.1 | 8724.7 | 8663.1 | 8761.2 | 8377.8 | 8049.2 | 5942.7 |
| 35° | 9961.6 | 9982.1 | 9788.2 | 9546.2 | 9359.1 | 9468.7 | 9441.3 | 9486.9 | 9304.3 | 8902.7 | 6476.8 |
| 37.5° | 10392.9 | 10290.2 | 10082.6 | 9966.2 | 9868.0 | 10048.3 | 10281.1 | 10319.9 | 10354.1 | 9881.7 | 7097.5 |
| 40° | 10463.7 | 10472.8 | 10351.8 | 10434.0 | 10310.8 | 10582.3 | 11123.2 | 11073.0 | 11212.2 | 10799.2 | 7770.7 |
| 42.5° | 10363.3 | 10383.8 | 10431.7 | 10548.1 | 10844.8 | 11171.1 | 11974.5 | 11769.1 | 11937.9 | 11570.5 | 8425.7 |
| 45° | 10198.9 | 10114.5 | 10173.8 | 10616.6 | 11130.1 | 11855.8 | 12752.7 | 12592.9 | 12538.2 | 12230.1 | 9206.2 |
| 47.5° | 9413.9 | 9500.6 | 9685.5 | 10230.9 | 11002.3 | 11974.5 | 13305.0 | 13268.4 | 13432.8 | 13216.0 | 9916.0 |
| 50° | 8325.3 | 8291.1 | 8647.1 | 9261.0 | 10256.0 | 11741.7 | 13275.3 | 13606.2 | 13959.9 | 13658.7 | 10233.2 |
| 52.5° | 6234.8 | 6417.4 | 6723.2 | 7485.5 | 8905.0 | 10472.8 | 12627.2 | 13179.4 | 13467.0 | 13403.1 | 9977.6 |
| 55° | 3941.3 | 3996.1 | 4180.9 | 5086.9 | 6364.9 | 8405.2 | 10824.3 | 12104.5 | 12618.0 | 12857.7 | 9742.5 |
| 57.5° | 1914.7 | 1812.0 | 2038.0 | 2766.0 | 3676.5 | 5652.9 | 8348.1 | 10543.5 | 11659.5 | 12093.1 | 9231.3 |
| 60° | 999.6 | 1038.4 | 1127.4 | 1387.5 | 1901.0 | 2934.8 | 5203.3 | 7026.8 | 8731.5 | 9397.9 | 6997.1 |
| 62.5° | 828.4 | 842.1 | 901.5 | 1031.5 | 1264.3 | 1688.8 | 2656.4 | 3425.5 | 4452.5 | 5052.7 | 3980.1 |
| 65° | 702.9 | 709.7 | 773.7 | 860.4 | 1008.7 | 1189.0 | 1367.0 | 1430.9 | 1732.2 | 1777.8 | 1414.9 |
| 67.5° | 586.5 | 593.4 | 661.8 | 744.0 | 839.8 | 887.8 | 933.4 | 928.8 | 963.1 | 949.4 | 947.1 |
| 70° | 451.9 | 458.7 | 529.5 | 616.2 | 664.1 | 636.7 | 778.2 | 810.2 | 823.9 | 835.3 | 853.5 |
| 72.5° | 326.3 | 340.0 | 394.8 | 456.4 | 431.3 | 495.2 | 641.3 | 689.2 | 707.5 | 714.3 | 737.1 |
| 75° | 237.3 | 241.9 | 255.6 | 237.3 | 273.9 | 344.6 | 451.9 | 511.2 | 534.0 | 540.9 | 575.1 |
| 77.5° | 105.0 | 107.3 | 109.5 | 136.9 | 175.7 | 214.5 | 269.3 | 317.2 | 349.2 | 358.3 | 367.4 |
| 80° | 54.8 | 57.1 | 70.7 | 93.6 | 125.5 | 157.5 | 196.3 | 223.7 | 244.2 | 246.5 | 255.6 |
| 82.5° | 34.2 | 36.5 | 50.2 | 66.2 | 89.0 | 116.4 | 143.8 | 166.6 | 182.6 | 184.9 | 187.1 |
| 85° | 16.0 | 20.5 | 29.7 | 41.1 | 59.3 | 75.3 | 77.6 | 66.2 | 70.7 | 73.0 | 68.5 |
| 87.5° | 4.6 | 6.8 | 9.1 | 6.8 | 9.1 | 9.1 | 11.4 | 13.7 | 13.7 | 13.7 | 16.0 |
| 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° | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 | 2567.4 |
| 2.5° | 2608.5 | 2588.0 | 2508.1 | 2478.4 | 2400.8 | 2414.5 | 2373.4 | 2371.2 | 2362.0 | 2359.7 | 2357.5 |
| 5° | 2672.4 | 2608.5 | 2512.7 | 2439.6 | 2396.3 | 2391.7 | 2362.0 | 2362.0 | 2371.2 | 2378.0 | 2362.0 |
| 7.5° | 2777.4 | 2704.4 | 2542.3 | 2473.9 | 2435.1 | 2428.2 | 2407.7 | 2391.7 | 2412.2 | 2405.4 | 2387.1 |
| 10° | 2898.3 | 2770.5 | 2599.4 | 2540.0 | 2476.1 | 2460.2 | 2460.2 | 2467.0 | 2432.8 | 2444.2 | 2425.9 |
| 12.5° | 3033.0 | 2861.8 | 2672.4 | 2603.9 | 2528.6 | 2519.5 | 2514.9 | 2464.7 | 2483.0 | 2473.9 | 2428.2 |
| 15° | 3204.1 | 2966.8 | 2766.0 | 2649.6 | 2585.7 | 2544.6 | 2485.3 | 2476.1 | 2464.7 | 2441.9 | 2421.4 |
| 17.5° | 3389.0 | 3080.9 | 2809.3 | 2663.3 | 2567.4 | 2537.8 | 2492.1 | 2444.2 | 2410.0 | 2414.5 | 2398.5 |
| 20° | 3546.5 | 3185.9 | 2825.3 | 2677.0 | 2553.7 | 2496.7 | 2425.9 | 2396.3 | 2359.7 | 2357.5 | 2355.2 |
| 22.5° | 3733.6 | 3327.4 | 2848.1 | 2640.5 | 2512.7 | 2453.3 | 2405.4 | 2352.9 | 2327.8 | 2295.8 | 2311.8 |
| 25° | 3957.3 | 3382.2 | 2852.7 | 2619.9 | 2483.0 | 2378.0 | 2352.9 | 2295.8 | 2286.7 | 2241.1 | 2250.2 |
| 27.5° | 4119.3 | 3411.8 | 2816.2 | 2556.0 | 2414.5 | 2334.6 | 2289.0 | 2247.9 | 2231.9 | 2197.7 | 2188.6 |
| 30° | 4336.1 | 3457.5 | 2738.6 | 2476.1 | 2346.1 | 2257.0 | 2229.7 | 2220.5 | 2174.9 | 2138.4 | 2133.8 |
| 32.5° | 4582.6 | 3487.1 | 2688.4 | 2394.0 | 2275.3 | 2206.8 | 2220.5 | 2177.2 | 2120.1 | 2088.2 | 2079.0 |
| 35° | 4778.8 | 3498.5 | 2562.9 | 2300.4 | 2227.4 | 2184.0 | 2168.0 | 2158.9 | 2076.8 | 2047.1 | 2024.3 |
| 37.5° | 5077.8 | 3473.4 | 2457.9 | 2234.2 | 2174.9 | 2158.9 | 2145.2 | 2083.6 | 1990.0 | 1946.7 | 1914.7 |
| 40° | 5427.0 | 3466.6 | 2323.2 | 2140.7 | 2124.7 | 2142.9 | 2101.9 | 2006.0 | 1875.9 | 1828.0 | 1805.2 |
| 42.5° | 5762.4 | 3514.5 | 2238.8 | 2090.5 | 2069.9 | 2076.8 | 2019.7 | 1875.9 | 1812.0 | 1784.6 | 1748.1 |
| 45° | 6323.8 | 3614.9 | 2099.6 | 2012.9 | 2003.7 | 1999.2 | 1930.7 | 1780.1 | 1743.6 | 1709.3 | 1702.5 |
| 47.5° | 6830.5 | 3548.7 | 2010.6 | 1933.0 | 1942.1 | 1917.0 | 1771.0 | 1723.0 | 1681.9 | 1647.7 | 1636.3 |
| 50° | 6860.2 | 3391.3 | 1885.1 | 1871.4 | 1873.6 | 1830.3 | 1691.1 | 1659.1 | 1606.6 | 1583.8 | 1567.8 |
| 52.5° | 6705.0 | 3133.4 | 1768.7 | 1773.2 | 1780.1 | 1709.3 | 1592.9 | 1570.1 | 1526.8 | 1494.8 | 1485.7 |
| 55° | 6269.1 | 2731.7 | 1654.6 | 1672.8 | 1691.1 | 1556.4 | 1519.9 | 1462.9 | 1428.6 | 1383.0 | 1385.3 |
| 57.5° | 5522.8 | 2200.0 | 1494.8 | 1524.5 | 1563.3 | 1414.9 | 1387.5 | 1316.8 | 1266.6 | 1230.1 | 1225.5 |
| 60° | 3701.7 | 1565.6 | 1255.2 | 1266.6 | 1353.3 | 1294.0 | 1291.7 | 1221.0 | 1152.5 | 1120.5 | 1102.3 |
| 62.5° | 2184.0 | 1195.8 | 1084.0 | 1072.6 | 1070.3 | 1104.6 | 1161.6 | 1136.5 | 1047.5 | 985.9 | 1004.1 |
| 65° | 1143.4 | 1033.8 | 1008.7 | 969.9 | 947.1 | 938.0 | 981.3 | 992.7 | 933.4 | 867.2 | 862.7 |
| 67.5° | 960.8 | 960.8 | 940.2 | 926.6 | 894.6 | 855.8 | 828.4 | 791.9 | 782.8 | 764.5 | 741.7 |
| 70° | 874.1 | 896.9 | 890.0 | 858.1 | 830.7 | 787.3 | 716.6 | 657.3 | 600.2 | 579.7 | 593.4 |
| 72.5° | 762.2 | 785.1 | 785.1 | 769.1 | 732.6 | 666.4 | 597.9 | 529.5 | 481.5 | 445.0 | 440.5 |
| 75° | 586.5 | 597.9 | 625.3 | 607.1 | 559.1 | 518.0 | 447.3 | 376.6 | 330.9 | 296.7 | 289.8 |
| 77.5° | 374.3 | 392.5 | 392.5 | 390.2 | 356.0 | 317.2 | 271.6 | 221.4 | 187.1 | 162.0 | 155.2 |
| 80° | 248.8 | 260.2 | 269.3 | 260.2 | 237.3 | 207.7 | 173.4 | 139.2 | 114.1 | 93.6 | 89.0 |
| 82.5° | 182.6 | 196.3 | 203.1 | 194.0 | 171.2 | 148.3 | 123.2 | 98.1 | 73.0 | 57.1 | 52.5 |
| 85° | 70.7 | 73.0 | 82.2 | 98.1 | 95.9 | 93.6 | 75.3 | 54.8 | 41.1 | 29.7 | 27.4 |
| 87.5° | 18.3 | 16.0 | 18.3 | 18.3 | 16.0 | 13.7 | 13.7 | 13.7 | 13.7 | 6.8 | 9.1 |
| 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)