

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: P529424

Luminaire Tested: **GLAN-SA4C-750-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-750-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25096 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

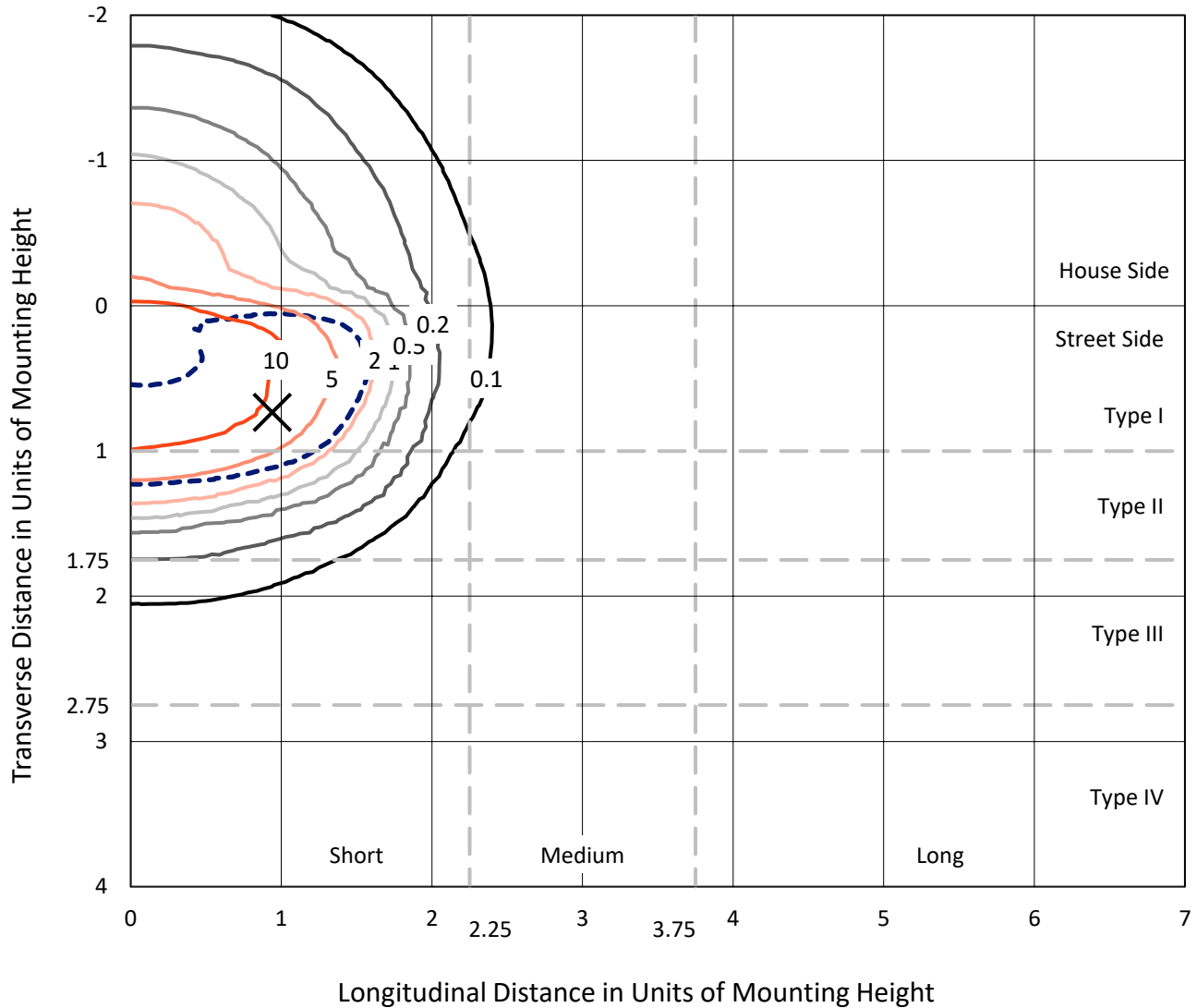
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529424
 CATALOG NUMBER: GLAN-SA4C-750-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

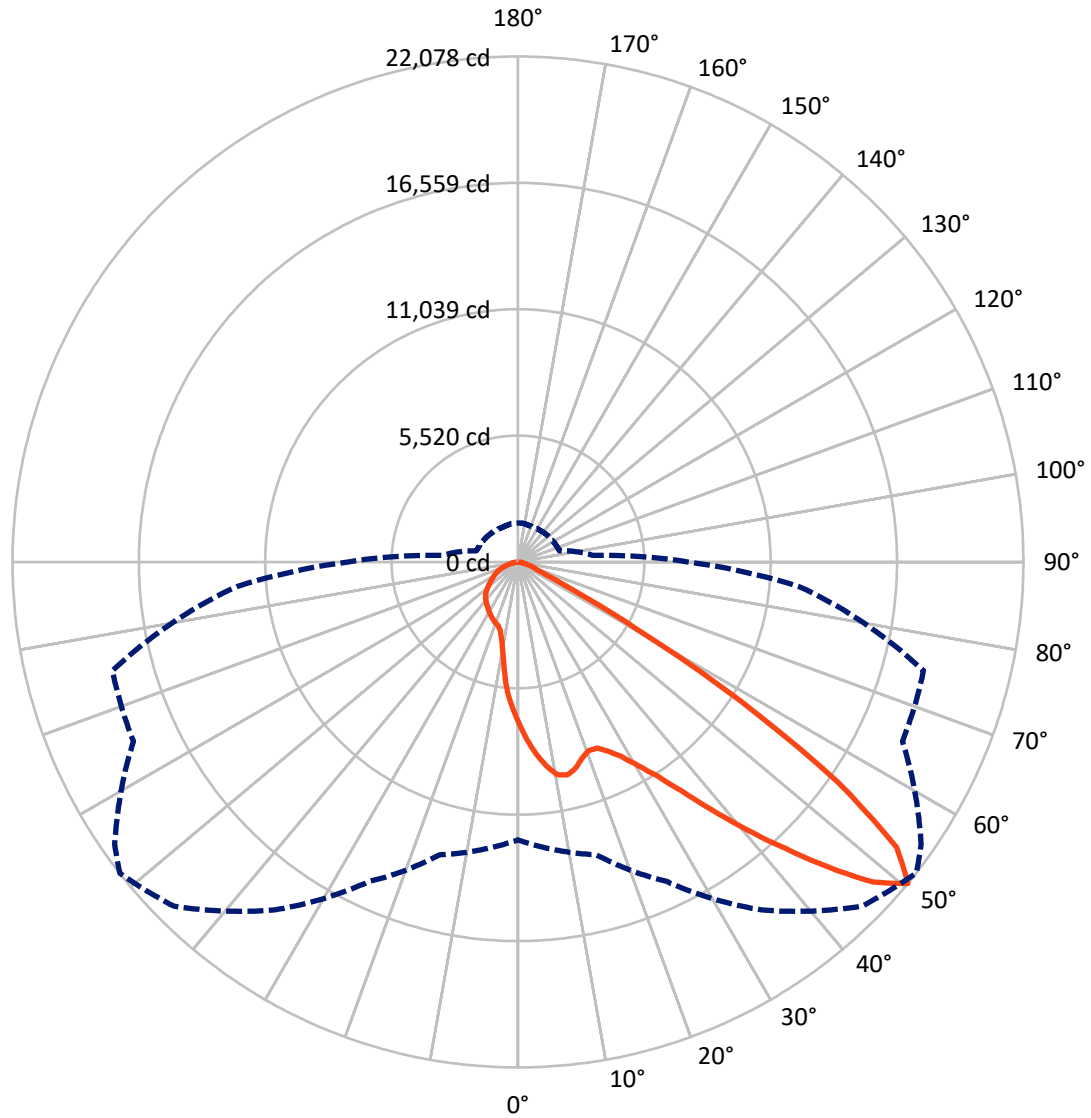
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

REPORT NUMBER: P529424
CATALOG NUMBER: GLAN-SA4C-750-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P529424
 CATALOG NUMBER: GLAN-SA4C-750-U-AFL-GRSWH

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4717.5 | 0.0 | 4717.5 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 20378.5 | 0.0 | 20378.5 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 25096.0 | 0.0 | 25096.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 652.0 | 2.6 |
| 10°-20° | 1747.6 | 7.0 |
| 20°-30° | 2943.7 | 11.7 |
| 30°-40° | 4939.8 | 19.7 |
| 40°-50° | 7556.7 | 30.1 |
| 50°-60° | 5509.5 | 22.0 |
| 60°-70° | 1226.1 | 4.9 |
| 70°-80° | 442.3 | 1.8 |
| 80°-90° | 78.3 | 0.3 |
| 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° | 25096.0 | 100.0 |
| 0°-180° | 25096.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P529424

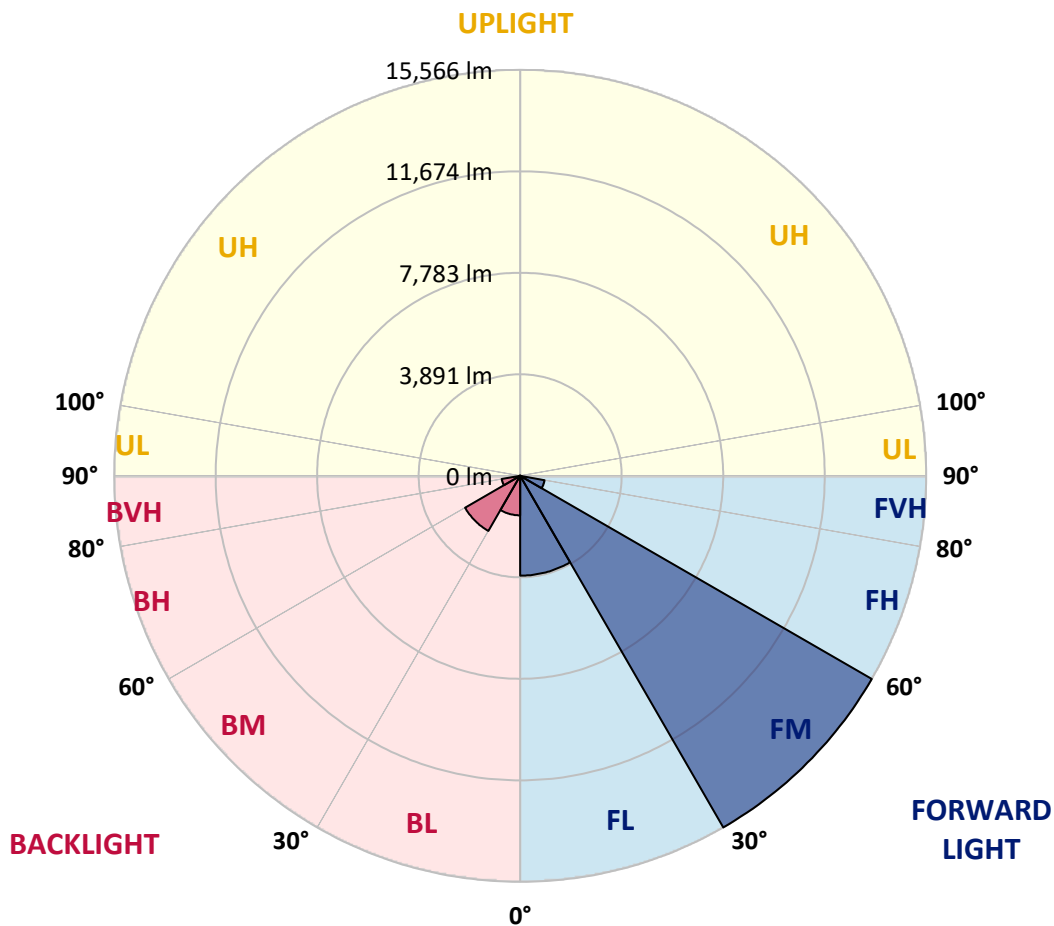
CATALOG NUMBER: GLAN-SA4C-750-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3828.0 | 15.3 | | | |
| FM (30°-60°) | 15565.8 | 62.0 | | | |
| FH (60°-80°) | 949.7 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 35.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1515.3 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 2440.2 | 9.7 | B2/2500 | | |
| BH (60°-80°) | 718.7 | 2.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 43.2 | 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





REPORT NUMBER: P529424

CATALOG NUMBER: GLAN-SA4C-750-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 |
| 2.5° | 8329.3 | 8169.0 | 8187.1 | 8072.2 | 7948.2 | 7911.9 | 7784.9 | 7663.9 | 7573.2 | 7379.6 | 7201.2 |
| 5° | 9103.5 | 9055.1 | 8982.6 | 8891.8 | 8798.1 | 8568.2 | 8438.2 | 8286.9 | 7954.3 | 7654.8 | 7358.4 |
| 7.5° | 9215.4 | 9206.4 | 9245.7 | 9245.7 | 9279.0 | 9191.2 | 9006.8 | 8900.9 | 8547.0 | 8060.1 | 7509.7 |
| 10° | 8429.1 | 8456.3 | 8646.9 | 8894.9 | 9239.6 | 9478.6 | 9448.3 | 9421.1 | 9034.0 | 8368.6 | 7688.1 |
| 12.5° | 7803.0 | 7742.5 | 7854.4 | 8066.2 | 8583.3 | 9161.0 | 9551.2 | 9554.2 | 9454.4 | 8861.6 | 7818.2 |
| 15° | 7449.2 | 7491.5 | 7521.8 | 7621.6 | 8011.7 | 8680.1 | 9366.7 | 9569.3 | 10007.8 | 9209.4 | 8023.8 |
| 17.5° | 7676.0 | 7533.9 | 7527.8 | 7552.0 | 7751.6 | 8253.7 | 9024.9 | 9372.7 | 10310.3 | 9657.0 | 8277.9 |
| 20° | 7972.4 | 7969.4 | 7884.7 | 7854.4 | 7851.4 | 8299.0 | 8801.1 | 9272.9 | 10470.6 | 10237.7 | 8534.9 |
| 22.5° | 8492.6 | 8492.6 | 8353.5 | 8286.9 | 8144.8 | 8510.8 | 8831.3 | 9151.9 | 10736.7 | 10636.9 | 8658.9 |
| 25° | 9363.6 | 9221.5 | 8982.6 | 8819.2 | 8737.6 | 8867.6 | 9151.9 | 9439.3 | 10969.6 | 11060.3 | 8916.0 |
| 27.5° | 10168.1 | 9944.3 | 9826.4 | 9545.1 | 9436.2 | 9360.6 | 9620.7 | 9911.1 | 11241.8 | 11719.7 | 9055.1 |
| 30° | 11081.5 | 11042.2 | 10830.5 | 10467.6 | 10198.4 | 10059.3 | 10298.2 | 10585.5 | 11740.8 | 12394.1 | 9375.7 |
| 32.5° | 12714.7 | 12357.8 | 12070.5 | 11625.9 | 11187.4 | 10891.0 | 11126.9 | 11317.4 | 12569.5 | 13098.8 | 9726.6 |
| 35° | 14478.0 | 14363.0 | 13867.0 | 13065.5 | 12394.1 | 12128.0 | 12267.1 | 12409.2 | 13534.3 | 14175.5 | 10316.3 |
| 37.5° | 16211.0 | 16053.7 | 15645.4 | 14970.9 | 14154.3 | 13613.0 | 13712.8 | 13879.1 | 14617.1 | 15627.2 | 11036.2 |
| 40° | 17457.0 | 17263.5 | 17057.8 | 16958.0 | 16147.4 | 15406.5 | 15349.0 | 15391.3 | 16080.9 | 16988.2 | 11834.6 |
| 42.5° | 17547.8 | 17786.7 | 17850.2 | 18252.4 | 18061.9 | 17454.0 | 17100.1 | 17109.2 | 17478.2 | 18334.1 | 12642.1 |
| 45° | 17357.2 | 17136.4 | 17605.2 | 18703.1 | 19332.2 | 19616.5 | 19020.7 | 18945.0 | 18343.2 | 19114.4 | 13044.4 |
| 47.5° | 15358.1 | 15418.6 | 16211.0 | 17947.0 | 19764.7 | 21034.9 | 20895.8 | 20644.8 | 18805.9 | 19087.2 | 12980.9 |
| 50° | 12140.1 | 12506.0 | 13241.0 | 15403.4 | 18554.9 | 21258.7 | 22078.4 | 21497.7 | 18530.7 | 18337.1 | 12333.6 |
| 52.5° | 8084.3 | 8235.5 | 8719.4 | 11511.0 | 14919.5 | 19002.5 | 20717.4 | 20850.4 | 18276.6 | 17354.2 | 11514.0 |
| 55° | 3599.1 | 3587.0 | 4267.5 | 6012.6 | 9360.6 | 14459.8 | 16927.7 | 17738.3 | 17299.8 | 16353.1 | 10715.6 |
| 57.5° | 1524.3 | 1575.7 | 1854.0 | 2598.0 | 4603.2 | 8725.5 | 11468.6 | 12179.4 | 13304.5 | 13428.5 | 8220.4 |
| 60° | 1031.3 | 1037.4 | 1113.0 | 1300.5 | 1926.6 | 4098.1 | 6015.6 | 6868.5 | 7673.0 | 7618.5 | 4361.2 |
| 62.5° | 810.5 | 831.7 | 889.2 | 964.8 | 1143.2 | 1860.0 | 2691.7 | 3166.6 | 3218.0 | 2706.9 | 1654.4 |
| 65° | 692.6 | 695.6 | 753.1 | 816.6 | 895.2 | 1082.7 | 1297.5 | 1321.7 | 1336.8 | 1288.4 | 1215.8 |
| 67.5° | 571.6 | 577.7 | 623.0 | 695.6 | 768.2 | 828.7 | 889.2 | 919.4 | 989.0 | 1125.1 | 1106.9 |
| 70° | 453.7 | 462.7 | 502.1 | 562.5 | 629.1 | 665.4 | 741.0 | 768.2 | 831.7 | 937.6 | 979.9 |
| 72.5° | 344.8 | 347.8 | 381.1 | 423.4 | 483.9 | 520.2 | 583.7 | 614.0 | 656.3 | 747.0 | 786.4 |
| 75° | 248.0 | 257.1 | 281.3 | 302.4 | 311.5 | 335.7 | 396.2 | 429.5 | 490.0 | 529.3 | 532.3 |
| 77.5° | 130.1 | 136.1 | 142.1 | 142.1 | 172.4 | 217.8 | 257.1 | 275.2 | 317.6 | 347.8 | 332.7 |
| 80° | 51.4 | 54.4 | 69.6 | 93.8 | 121.0 | 157.3 | 184.5 | 193.6 | 229.9 | 248.0 | 257.1 |
| 82.5° | 30.2 | 33.3 | 45.4 | 66.5 | 87.7 | 111.9 | 133.1 | 142.1 | 166.3 | 187.5 | 193.6 |
| 85° | 15.1 | 18.1 | 27.2 | 42.3 | 57.5 | 69.6 | 66.5 | 63.5 | 63.5 | 60.5 | 63.5 |
| 87.5° | 6.0 | 6.0 | 9.1 | 9.1 | 9.1 | 12.1 | 15.1 | 15.1 | 15.1 | 18.1 | 18.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P529424

CATALOG NUMBER: GLAN-SA4C-750-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 |
| 2.5° | 7083.2 | 6962.2 | 6850.3 | 6644.7 | 6420.9 | 6357.4 | 6097.3 | 6003.5 | 5937.0 | 5858.3 | 5834.1 |
| 5° | 7119.5 | 6959.2 | 6599.3 | 6185.0 | 5855.3 | 5431.9 | 5153.6 | 4854.2 | 4636.5 | 4582.0 | 4566.9 |
| 7.5° | 7195.1 | 6919.9 | 6299.9 | 5673.8 | 4999.4 | 4424.7 | 3986.2 | 3750.3 | 3541.6 | 3529.5 | 3508.3 |
| 10° | 7279.8 | 6801.9 | 5973.3 | 4990.3 | 4128.3 | 3596.0 | 3332.9 | 3230.1 | 3178.7 | 3166.6 | 3160.5 |
| 12.5° | 7349.4 | 6777.8 | 5607.3 | 4324.9 | 3511.4 | 3190.8 | 3112.1 | 3103.1 | 3124.2 | 3130.3 | 3142.4 |
| 15° | 7379.6 | 6681.0 | 5165.7 | 3729.1 | 3127.3 | 3009.3 | 3042.6 | 3078.9 | 3094.0 | 3133.3 | 3103.1 |
| 17.5° | 7437.1 | 6557.0 | 4621.3 | 3257.3 | 2912.5 | 2933.7 | 2991.2 | 3033.5 | 3057.7 | 3084.9 | 3045.6 |
| 20° | 7467.3 | 6445.1 | 4110.2 | 2976.0 | 2836.9 | 2876.2 | 2954.9 | 2988.1 | 3018.4 | 3030.5 | 2985.1 |
| 22.5° | 7440.1 | 6215.2 | 3659.6 | 2749.2 | 2764.3 | 2815.7 | 2885.3 | 2921.6 | 2903.5 | 2855.1 | 2827.8 |
| 25° | 7367.5 | 5891.6 | 3190.8 | 2604.0 | 2661.5 | 2752.2 | 2806.7 | 2779.5 | 2746.2 | 2719.0 | 2709.9 |
| 27.5° | 7364.5 | 5495.4 | 2852.0 | 2471.0 | 2573.8 | 2697.8 | 2679.6 | 2655.5 | 2670.6 | 2649.4 | 2625.2 |
| 30° | 7379.6 | 5111.3 | 2573.8 | 2395.4 | 2510.3 | 2570.8 | 2591.9 | 2567.7 | 2585.9 | 2546.6 | 2558.7 |
| 32.5° | 7301.0 | 4736.3 | 2392.3 | 2307.6 | 2434.7 | 2431.6 | 2501.2 | 2519.4 | 2477.0 | 2395.4 | 2407.4 |
| 35° | 7334.2 | 4433.8 | 2238.1 | 2268.3 | 2350.0 | 2350.0 | 2404.4 | 2383.3 | 2271.3 | 2223.0 | 2235.1 |
| 37.5° | 7564.1 | 4137.4 | 2162.5 | 2213.9 | 2268.3 | 2292.5 | 2274.4 | 2183.6 | 2156.4 | 2156.4 | 2162.5 |
| 40° | 7781.9 | 3883.4 | 2117.1 | 2201.8 | 2192.7 | 2207.8 | 2074.8 | 2083.8 | 2083.8 | 2086.9 | 2071.7 |
| 42.5° | 7975.4 | 3711.0 | 2080.8 | 2129.2 | 2144.3 | 2065.7 | 1984.0 | 1975.0 | 1996.1 | 1993.1 | 1981.0 |
| 45° | 8045.0 | 3568.8 | 2029.4 | 2047.5 | 2059.6 | 1929.6 | 1890.3 | 1872.1 | 1896.3 | 1905.4 | 1917.5 |
| 47.5° | 7778.8 | 3450.9 | 1971.9 | 1935.6 | 1911.4 | 1826.8 | 1775.3 | 1742.1 | 1772.3 | 1823.7 | 1835.8 |
| 50° | 7437.1 | 3296.6 | 1881.2 | 1811.6 | 1760.2 | 1723.9 | 1687.6 | 1654.4 | 1675.5 | 1711.8 | 1702.8 |
| 52.5° | 6932.0 | 3054.7 | 1766.3 | 1693.7 | 1606.0 | 1615.0 | 1581.8 | 1563.6 | 1575.7 | 1575.7 | 1566.7 |
| 55° | 6212.2 | 2510.3 | 1572.7 | 1521.3 | 1448.7 | 1472.9 | 1478.9 | 1454.8 | 1430.6 | 1451.7 | 1433.6 |
| 57.5° | 4240.3 | 1772.3 | 1403.3 | 1403.3 | 1330.8 | 1364.0 | 1361.0 | 1303.5 | 1246.1 | 1252.1 | 1240.0 |
| 60° | 2452.8 | 1412.4 | 1294.5 | 1282.4 | 1206.7 | 1234.0 | 1240.0 | 1200.7 | 1113.0 | 1119.0 | 1106.9 |
| 62.5° | 1394.3 | 1206.7 | 1131.1 | 1113.0 | 1097.9 | 1122.1 | 1122.1 | 1070.6 | 995.0 | 1001.1 | 989.0 |
| 65° | 1185.6 | 1119.0 | 1010.2 | 1007.1 | 1001.1 | 1007.1 | 982.9 | 928.5 | 862.0 | 834.7 | 837.8 |
| 67.5° | 1076.7 | 1034.4 | 928.5 | 901.3 | 883.1 | 880.1 | 834.7 | 783.3 | 753.1 | 728.9 | 725.9 |
| 70° | 943.6 | 910.4 | 831.7 | 795.4 | 777.3 | 734.9 | 689.6 | 656.3 | 614.0 | 601.9 | 614.0 |
| 72.5° | 747.0 | 744.0 | 713.8 | 674.4 | 635.1 | 601.9 | 562.5 | 517.2 | 477.9 | 468.8 | 447.6 |
| 75° | 517.2 | 523.2 | 529.3 | 523.2 | 490.0 | 447.6 | 402.2 | 366.0 | 317.6 | 290.3 | 284.3 |
| 77.5° | 338.7 | 347.8 | 356.9 | 344.8 | 323.6 | 284.3 | 254.1 | 208.7 | 172.4 | 151.2 | 148.2 |
| 80° | 248.0 | 260.1 | 266.2 | 257.1 | 232.9 | 202.6 | 169.4 | 133.1 | 105.9 | 87.7 | 87.7 |
| 82.5° | 190.5 | 202.6 | 208.7 | 193.6 | 169.4 | 145.2 | 121.0 | 93.8 | 72.6 | 57.5 | 54.4 |
| 85° | 66.5 | 63.5 | 75.6 | 78.6 | 93.8 | 87.7 | 72.6 | 54.4 | 42.3 | 30.2 | 27.2 |
| 87.5° | 18.1 | 18.1 | 21.2 | 21.2 | 18.1 | 15.1 | 15.1 | 15.1 | 12.1 | 9.1 | 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)