

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: P527801

Luminaire Tested: **GLAN-SA2D-750-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2D-750-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9290 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

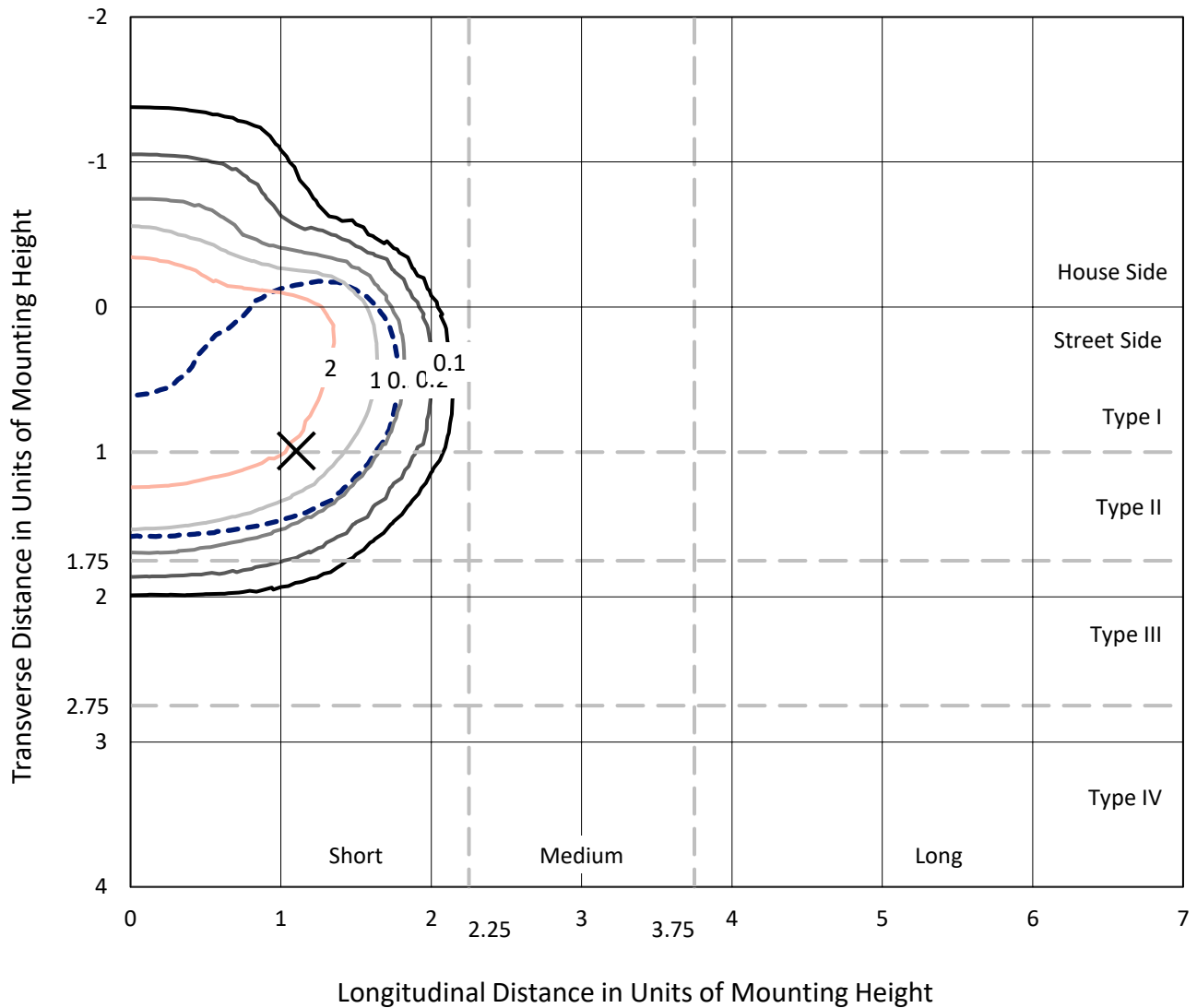
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

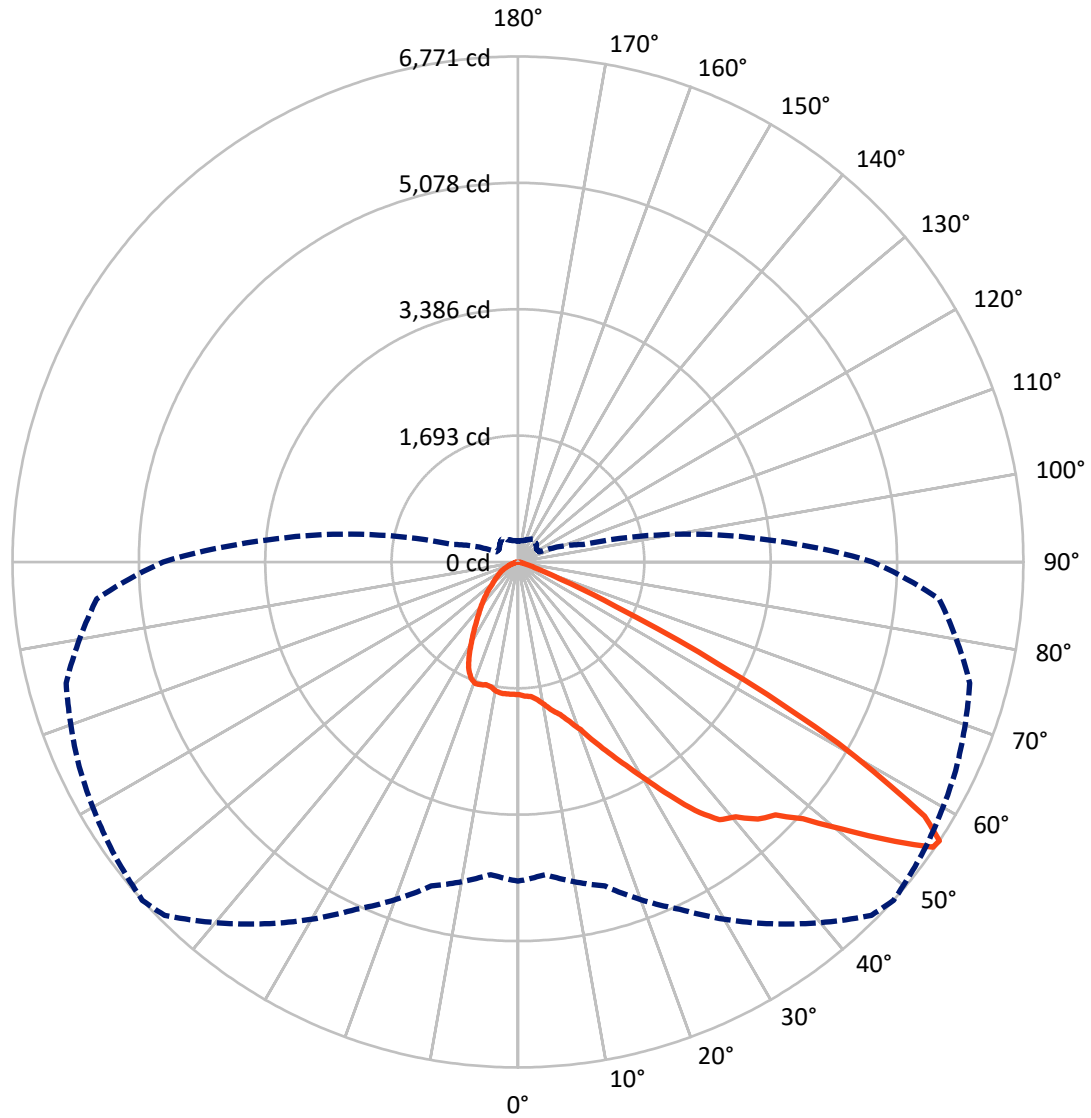
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2020.4 | 0.0 | 2020.4 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 7269.6 | 0.0 | 7269.6 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 9290.0 | 0.0 | 9290.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 172.8 | 1.9 |
| 10°-20° | 552.4 | 5.9 |
| 20°-30° | 1001.9 | 10.8 |
| 30°-40° | 1573.8 | 16.9 |
| 40°-50° | 2295.9 | 24.7 |
| 50°-60° | 2766.1 | 29.8 |
| 60°-70° | 809.9 | 8.7 |
| 70°-80° | 102.7 | 1.1 |
| 80°-90° | 14.4 | 0.2 |
| 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° | 9290.0 | 100.0 |
| 0°-180° | 9290.0 | 100.0 |

Coefficient of Utilization

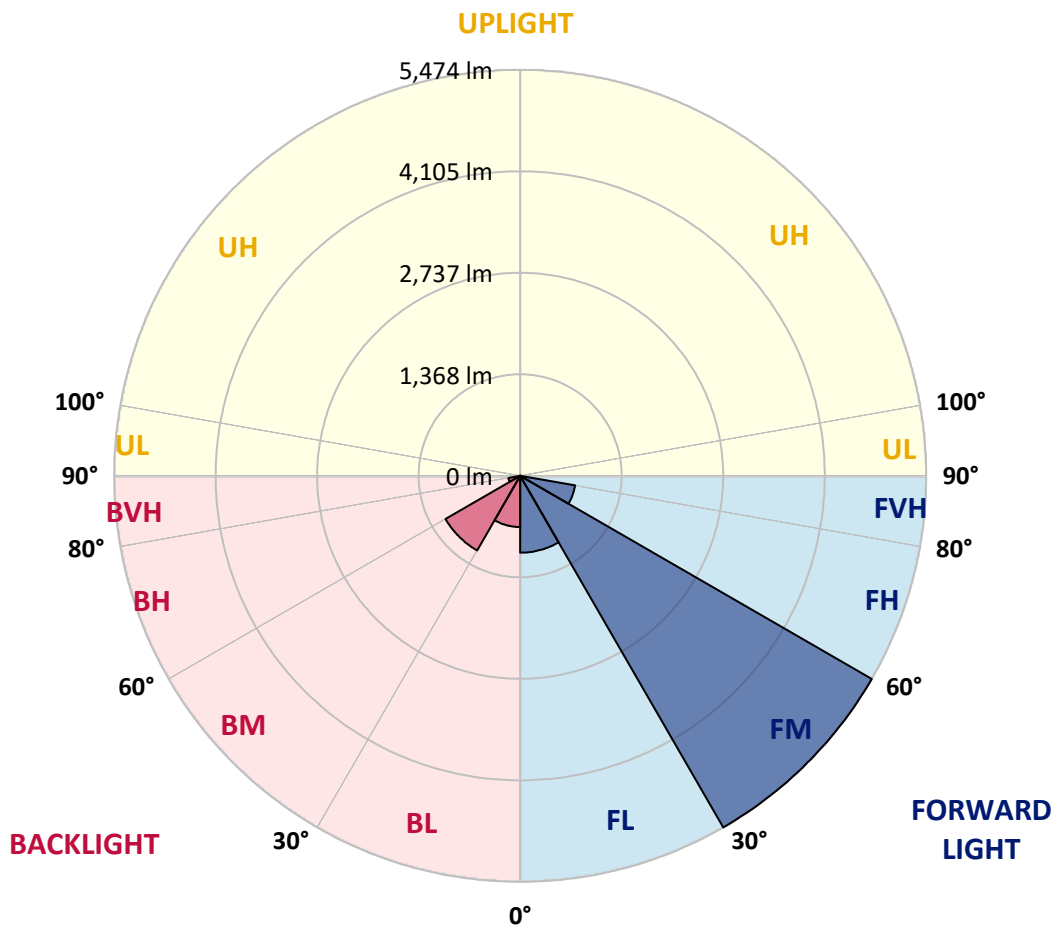


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1036.6 | 11.2 | | | |
| FM (30°-60°) | 5473.7 | 58.9 | | | |
| FH (60°-80°) | 752.1 | 8.1 | | | G1/1800 |
| FVH (80°-90°) | 7.2 | 0.1 | | | G0/10 |
| BL (0°-30°) | 690.6 | 7.4 | B2/1000 | | |
| BM (30°-60°) | 1162.1 | 12.5 | B2/2500 | | |
| BH (60°-80°) | 160.5 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.2 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 |
| 2.5° | 1806.5 | 1798.1 | 1798.1 | 1784.5 | 1799.8 | 1793.0 | 1798.1 | 1781.2 | 1798.1 | 1772.7 | 1793.0 |
| 5° | 1815.0 | 1816.7 | 1809.9 | 1818.4 | 1818.4 | 1828.5 | 1811.6 | 1826.8 | 1835.3 | 1816.7 | 1808.2 |
| 7.5° | 1859.0 | 1862.4 | 1860.7 | 1853.9 | 1867.4 | 1865.7 | 1864.0 | 1852.2 | 1855.6 | 1848.8 | 1838.7 |
| 10° | 1945.2 | 1943.5 | 1952.0 | 1935.1 | 1924.9 | 1936.8 | 1940.2 | 1921.6 | 1908.0 | 1902.9 | 1870.8 |
| 12.5° | 2070.4 | 2050.1 | 2038.3 | 2021.4 | 2026.4 | 2009.5 | 2040.0 | 2007.8 | 2001.1 | 1970.6 | 1938.5 |
| 15° | 2171.9 | 2168.5 | 2170.2 | 2143.1 | 2112.7 | 2119.5 | 2119.5 | 2102.5 | 2092.4 | 2055.2 | 2009.5 |
| 17.5° | 2380.0 | 2308.9 | 2324.1 | 2290.3 | 2264.9 | 2263.2 | 2248.0 | 2251.4 | 2224.3 | 2146.5 | 2077.2 |
| 20° | 2542.3 | 2511.9 | 2488.2 | 2430.7 | 2391.8 | 2403.6 | 2396.9 | 2380.0 | 2371.5 | 2270.0 | 2171.9 |
| 22.5° | 2687.8 | 2698.0 | 2659.1 | 2643.8 | 2589.7 | 2594.8 | 2608.3 | 2593.1 | 2528.8 | 2423.9 | 2278.5 |
| 25° | 2892.5 | 2880.6 | 2828.2 | 2809.6 | 2758.9 | 2777.5 | 2829.9 | 2818.1 | 2777.5 | 2588.0 | 2361.3 |
| 27.5° | 3134.4 | 3093.8 | 3103.9 | 3019.3 | 2970.3 | 3022.7 | 3085.3 | 3144.5 | 3029.5 | 2780.8 | 2459.5 |
| 30° | 3305.2 | 3262.9 | 3259.5 | 3256.2 | 3244.3 | 3305.2 | 3377.9 | 3432.1 | 3339.0 | 2973.7 | 2621.8 |
| 32.5° | 3389.8 | 3399.9 | 3428.7 | 3418.5 | 3521.7 | 3646.9 | 3723.0 | 3800.8 | 3684.1 | 3288.3 | 2836.7 |
| 35° | 3614.8 | 3550.5 | 3614.8 | 3621.5 | 3728.1 | 3993.7 | 4090.1 | 4276.1 | 4247.4 | 3733.2 | 3098.8 |
| 37.5° | 3746.7 | 3741.6 | 3750.1 | 3814.4 | 3917.5 | 4245.7 | 4382.7 | 4526.5 | 4472.4 | 4000.4 | 3425.3 |
| 40° | 3964.9 | 3978.4 | 3976.7 | 4025.8 | 4139.1 | 4435.1 | 4491.0 | 4607.7 | 4612.7 | 4370.9 | 3905.7 |
| 42.5° | 4315.0 | 4260.9 | 4225.4 | 4276.1 | 4435.1 | 4599.2 | 4710.9 | 4687.2 | 4854.6 | 4820.8 | 4523.1 |
| 45° | 4629.7 | 4661.8 | 4609.4 | 4693.9 | 4751.5 | 4839.4 | 4836.0 | 4886.8 | 5099.9 | 5260.6 | 4988.3 |
| 47.5° | 4924.0 | 4944.3 | 4969.7 | 5027.2 | 5152.3 | 5165.9 | 5137.1 | 5115.1 | 5409.4 | 5575.2 | 5348.6 |
| 50° | 5099.9 | 5118.5 | 5236.9 | 5340.1 | 5573.5 | 5604.0 | 5620.9 | 5565.1 | 5764.7 | 5783.3 | 5688.5 |
| 52.5° | 5052.5 | 5072.8 | 5238.6 | 5578.6 | 5950.7 | 6229.8 | 6179.1 | 6084.4 | 6072.5 | 6145.3 | 6003.2 |
| 55° | 4633.0 | 4614.4 | 4842.8 | 5372.2 | 6069.1 | 6739.0 | 6745.7 | 6645.9 | 6454.8 | 6405.7 | 5955.8 |
| 56° | 4276.1 | 4203.4 | 4494.3 | 5133.7 | 5916.9 | 6695.0 | 6771.1 | 6664.5 | 6485.2 | 6265.4 | 5663.2 |
| 57.5° | 3503.1 | 3572.5 | 3861.7 | 4391.2 | 5390.8 | 6378.7 | 6422.7 | 6397.3 | 6262.0 | 5893.2 | 4983.2 |
| 60° | 1931.7 | 2053.5 | 2308.9 | 2956.8 | 3838.0 | 4895.2 | 4930.8 | 5137.1 | 5162.5 | 4512.9 | 3428.7 |
| 62.5° | 820.4 | 806.9 | 1072.4 | 1549.4 | 2185.4 | 2955.1 | 3021.0 | 3232.5 | 3271.4 | 2601.5 | 1720.3 |
| 65° | 333.2 | 351.8 | 485.5 | 779.8 | 1155.3 | 1346.4 | 1439.5 | 1508.8 | 1637.4 | 1074.1 | 634.3 |
| 67.5° | 219.9 | 218.2 | 285.9 | 444.9 | 622.5 | 600.5 | 600.5 | 634.3 | 587.0 | 438.1 | 274.0 |
| 70° | 157.3 | 162.4 | 204.7 | 307.9 | 387.4 | 287.6 | 275.7 | 263.9 | 299.4 | 289.2 | 221.6 |
| 72.5° | 103.2 | 109.9 | 137.0 | 184.4 | 201.3 | 157.3 | 157.3 | 189.4 | 247.0 | 233.4 | 181.0 |
| 75° | 67.7 | 69.4 | 84.6 | 106.6 | 99.8 | 81.2 | 89.7 | 126.9 | 179.3 | 172.5 | 128.6 |
| 77.5° | 45.7 | 47.4 | 57.5 | 69.4 | 55.8 | 45.7 | 49.1 | 64.3 | 88.0 | 88.0 | 67.7 |
| 80° | 16.9 | 18.6 | 23.7 | 22.0 | 25.4 | 32.1 | 35.5 | 44.0 | 52.4 | 52.4 | 45.7 |
| 82.5° | 0.0 | 1.7 | 5.1 | 11.8 | 18.6 | 25.4 | 28.8 | 33.8 | 38.9 | 44.0 | 42.3 |
| 85° | 0.0 | 1.7 | 5.1 | 8.5 | 13.5 | 15.2 | 16.9 | 11.8 | 10.1 | 10.1 | 8.5 |
| 87.5° | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 3.4 | 1.7 | 1.7 |
| 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° | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 | 1774.4 |
| 2.5° | 1774.4 | 1772.7 | 1772.7 | 1767.6 | 1777.8 | 1772.7 | 1776.1 | 1774.4 | 1752.4 | 1769.3 | 1757.5 |
| 5° | 1793.0 | 1804.8 | 1786.2 | 1782.9 | 1769.3 | 1774.4 | 1774.4 | 1757.5 | 1772.7 | 1771.0 | 1767.6 |
| 7.5° | 1840.4 | 1820.1 | 1799.8 | 1779.5 | 1776.1 | 1771.0 | 1752.4 | 1745.6 | 1757.5 | 1743.9 | 1764.2 |
| 10° | 1860.7 | 1864.0 | 1833.6 | 1806.5 | 1781.2 | 1745.6 | 1720.3 | 1705.0 | 1686.4 | 1706.7 | 1718.6 |
| 12.5° | 1953.7 | 1919.9 | 1867.4 | 1825.1 | 1738.9 | 1703.4 | 1678.0 | 1671.2 | 1703.4 | 1710.1 | 1698.3 |
| 15° | 1985.8 | 1980.8 | 1913.1 | 1818.4 | 1728.7 | 1686.4 | 1691.5 | 1678.0 | 1681.4 | 1664.4 | 1667.8 |
| 17.5° | 2051.8 | 1994.3 | 1914.8 | 1796.4 | 1727.0 | 1716.9 | 1686.4 | 1632.3 | 1601.9 | 1588.3 | 1600.2 |
| 20° | 2124.5 | 2068.7 | 1953.7 | 1804.8 | 1742.3 | 1715.2 | 1615.4 | 1549.4 | 1486.8 | 1453.0 | 1454.7 |
| 22.5° | 2188.8 | 2119.5 | 1936.8 | 1808.2 | 1755.8 | 1644.1 | 1524.1 | 1393.8 | 1316.0 | 1263.6 | 1265.2 |
| 25° | 2266.6 | 2168.5 | 1943.5 | 1815.0 | 1720.3 | 1530.8 | 1358.3 | 1231.4 | 1138.4 | 1102.9 | 1114.7 |
| 27.5° | 2310.6 | 2199.0 | 1980.8 | 1830.2 | 1627.2 | 1370.1 | 1184.1 | 1065.7 | 1011.5 | 994.6 | 992.9 |
| 30° | 2442.5 | 2266.6 | 2026.4 | 1799.8 | 1471.6 | 1197.6 | 1025.1 | 952.3 | 899.9 | 884.7 | 888.0 |
| 32.5° | 2638.8 | 2390.1 | 2085.6 | 1720.3 | 1312.6 | 1043.7 | 921.9 | 867.7 | 818.7 | 789.9 | 786.6 |
| 35° | 2802.8 | 2601.5 | 2148.2 | 1596.8 | 1128.2 | 925.3 | 849.1 | 781.5 | 707.1 | 674.9 | 666.5 |
| 37.5° | 3115.8 | 2840.0 | 2134.7 | 1410.7 | 952.3 | 837.3 | 771.3 | 688.4 | 624.2 | 580.2 | 575.1 |
| 40° | 3531.9 | 3119.1 | 2068.7 | 1184.1 | 822.1 | 759.5 | 688.4 | 608.9 | 529.4 | 492.2 | 488.8 |
| 42.5° | 4037.6 | 3460.8 | 1948.6 | 954.0 | 691.8 | 681.7 | 617.4 | 526.1 | 455.0 | 428.0 | 429.6 |
| 45° | 4448.7 | 3753.5 | 1826.8 | 766.3 | 595.4 | 605.6 | 549.7 | 463.5 | 414.4 | 392.4 | 392.4 |
| 47.5° | 4814.0 | 3951.4 | 1694.9 | 632.6 | 505.8 | 529.4 | 480.4 | 429.6 | 387.4 | 370.4 | 367.1 |
| 50° | 5165.9 | 4152.7 | 1563.0 | 512.5 | 431.3 | 455.0 | 449.9 | 409.3 | 375.5 | 355.2 | 356.9 |
| 52.5° | 5385.8 | 4184.8 | 1395.5 | 419.5 | 377.2 | 404.3 | 421.2 | 384.0 | 346.8 | 334.9 | 331.5 |
| 55° | 5116.8 | 3770.4 | 1082.6 | 345.1 | 319.7 | 355.2 | 387.4 | 345.1 | 316.3 | 296.0 | 294.3 |
| 56° | 4754.8 | 3371.2 | 905.0 | 318.0 | 302.8 | 341.7 | 375.5 | 329.8 | 297.7 | 285.9 | 277.4 |
| 57.5° | 4025.8 | 2758.9 | 668.1 | 282.5 | 280.8 | 318.0 | 356.9 | 314.6 | 277.4 | 267.3 | 267.3 |
| 60° | 2510.2 | 1552.8 | 404.3 | 236.8 | 243.6 | 282.5 | 321.4 | 280.8 | 247.0 | 247.0 | 252.0 |
| 62.5° | 1143.5 | 646.2 | 245.3 | 201.3 | 209.7 | 243.6 | 285.9 | 253.7 | 235.1 | 253.7 | 257.1 |
| 65° | 389.0 | 279.1 | 177.6 | 160.7 | 165.8 | 201.3 | 245.3 | 257.1 | 255.4 | 267.3 | 274.0 |
| 67.5° | 218.2 | 179.3 | 148.9 | 133.6 | 130.2 | 148.9 | 201.3 | 257.1 | 247.0 | 241.9 | 245.3 |
| 70° | 184.4 | 152.2 | 131.9 | 118.4 | 113.3 | 120.1 | 155.6 | 194.5 | 174.2 | 169.2 | 165.8 |
| 72.5° | 148.9 | 126.9 | 115.0 | 106.6 | 91.3 | 77.8 | 71.0 | 74.4 | 82.9 | 88.0 | 96.4 |
| 75° | 104.9 | 96.4 | 96.4 | 86.3 | 66.0 | 49.1 | 38.9 | 32.1 | 22.0 | 15.2 | 16.9 |
| 77.5° | 59.2 | 59.2 | 60.9 | 52.4 | 42.3 | 32.1 | 23.7 | 16.9 | 8.5 | 3.4 | 1.7 |
| 80° | 40.6 | 44.0 | 47.4 | 42.3 | 35.5 | 28.8 | 20.3 | 11.8 | 5.1 | 0.0 | 0.0 |
| 82.5° | 40.6 | 45.7 | 49.1 | 42.3 | 35.5 | 27.1 | 20.3 | 11.8 | 5.1 | 1.7 | 0.0 |
| 85° | 8.5 | 10.1 | 11.8 | 13.5 | 20.3 | 20.3 | 15.2 | 10.1 | 5.1 | 1.7 | 0.0 |
| 87.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 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)