

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: P527749

Luminaire Tested: **GLAN-SA2D-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527749
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-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 8654 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

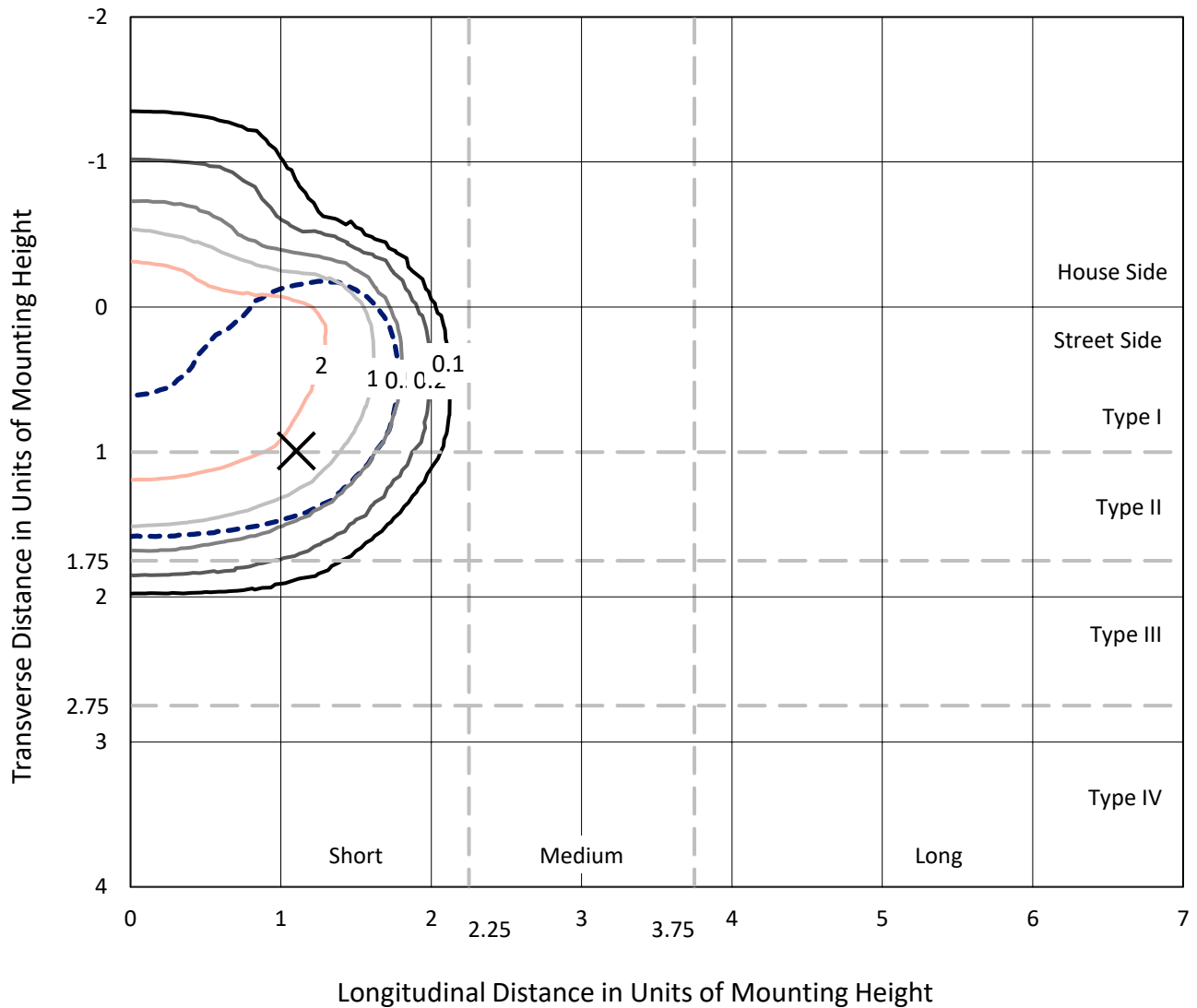
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

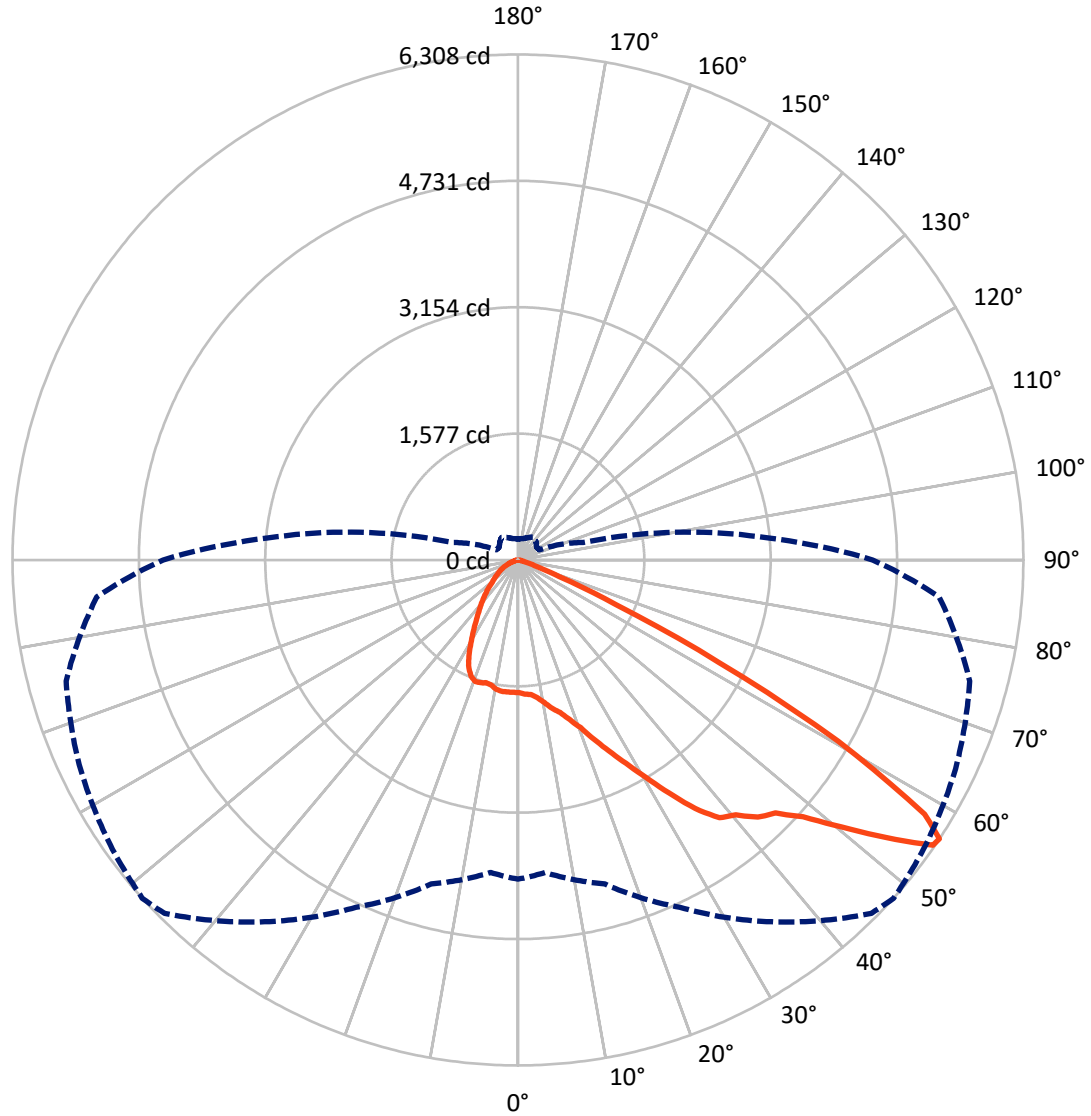
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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 | 1882.1 | 0.0 | 1882.1 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 6771.9 | 0.0 | 6771.9 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 8654.0 | 0.0 | 8654.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 161.0 | 1.9 |
| 10°-20° | 514.6 | 5.9 |
| 20°-30° | 933.3 | 10.8 |
| 30°-40° | 1466.1 | 16.9 |
| 40°-50° | 2138.7 | 24.7 |
| 50°-60° | 2576.7 | 29.8 |
| 60°-70° | 754.4 | 8.7 |
| 70°-80° | 95.7 | 1.1 |
| 80°-90° | 13.4 | 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° | 8654.0 | 100.0 |
| 0°-180° | 8654.0 | 100.0 |

Coefficient of Utilization

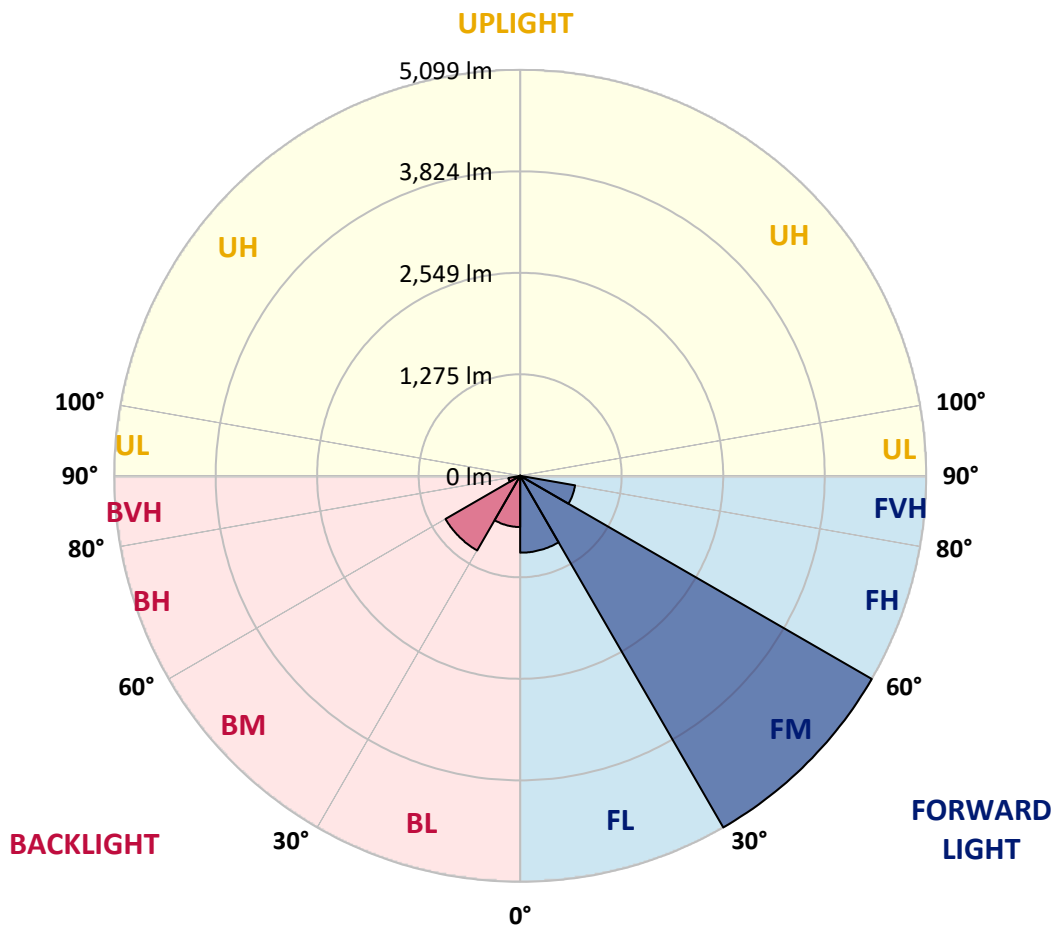


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 965.6 | 11.2 | | | |
| FM (30°-60°) | 5099.0 | 58.9 | | | |
| FH (60°-80°) | 700.6 | 8.1 | | | G1/1800 |
| FVH (80°-90°) | 6.7 | 0.1 | | | G0/10 |
| BL (0°-30°) | 643.3 | 7.4 | B2/1000 | | |
| BM (30°-60°) | 1082.6 | 12.5 | B2/2500 | | |
| BH (60°-80°) | 149.6 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.7 | 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° | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 |
| 2.5° | 1682.9 | 1675.0 | 1675.0 | 1662.4 | 1676.6 | 1670.3 | 1675.0 | 1659.2 | 1675.0 | 1651.3 | 1670.3 |
| 5° | 1690.7 | 1692.3 | 1686.0 | 1693.9 | 1693.9 | 1703.3 | 1687.6 | 1701.8 | 1709.6 | 1692.3 | 1684.4 |
| 7.5° | 1731.7 | 1734.9 | 1733.3 | 1727.0 | 1739.6 | 1738.0 | 1736.4 | 1725.4 | 1728.6 | 1722.2 | 1712.8 |
| 10° | 1812.1 | 1810.5 | 1818.4 | 1802.6 | 1793.2 | 1804.2 | 1807.3 | 1790.0 | 1777.4 | 1772.7 | 1742.7 |
| 12.5° | 1928.7 | 1909.8 | 1898.7 | 1883.0 | 1887.7 | 1871.9 | 1900.3 | 1870.4 | 1864.1 | 1835.7 | 1805.8 |
| 15° | 2023.2 | 2020.1 | 2021.6 | 1996.4 | 1968.1 | 1974.4 | 1974.4 | 1958.6 | 1949.2 | 1914.5 | 1871.9 |
| 17.5° | 2217.0 | 2150.8 | 2165.0 | 2133.5 | 2109.9 | 2108.3 | 2094.1 | 2097.3 | 2072.1 | 1999.6 | 1935.0 |
| 20° | 2368.3 | 2339.9 | 2317.9 | 2264.3 | 2228.1 | 2239.1 | 2232.8 | 2217.0 | 2209.1 | 2114.6 | 2023.2 |
| 22.5° | 2503.8 | 2513.3 | 2477.0 | 2462.8 | 2412.4 | 2417.1 | 2429.7 | 2415.6 | 2355.7 | 2258.0 | 2122.5 |
| 25° | 2694.5 | 2683.4 | 2634.6 | 2617.3 | 2570.0 | 2587.3 | 2636.2 | 2625.1 | 2587.3 | 2410.8 | 2199.7 |
| 27.5° | 2919.8 | 2882.0 | 2891.4 | 2812.6 | 2766.9 | 2815.8 | 2874.1 | 2929.2 | 2822.1 | 2590.5 | 2291.1 |
| 30° | 3078.9 | 3039.5 | 3036.4 | 3033.2 | 3022.2 | 3078.9 | 3146.7 | 3197.1 | 3110.4 | 2770.1 | 2442.3 |
| 32.5° | 3157.7 | 3167.2 | 3194.0 | 3184.5 | 3280.6 | 3397.2 | 3468.1 | 3540.6 | 3431.9 | 3063.2 | 2642.5 |
| 35° | 3367.3 | 3307.4 | 3367.3 | 3373.6 | 3472.9 | 3720.2 | 3810.1 | 3983.4 | 3956.6 | 3477.6 | 2886.7 |
| 37.5° | 3490.2 | 3485.5 | 3493.3 | 3553.2 | 3649.3 | 3955.0 | 4082.7 | 4216.6 | 4166.2 | 3726.5 | 3190.8 |
| 40° | 3693.5 | 3706.1 | 3704.5 | 3750.2 | 3855.8 | 4131.5 | 4183.5 | 4292.2 | 4297.0 | 4071.6 | 3638.3 |
| 42.5° | 4019.6 | 3969.2 | 3936.1 | 3983.4 | 4131.5 | 4284.4 | 4388.3 | 4366.3 | 4522.3 | 4490.8 | 4213.4 |
| 45° | 4312.7 | 4342.7 | 4293.8 | 4372.6 | 4426.2 | 4508.1 | 4504.9 | 4552.2 | 4750.8 | 4900.5 | 4646.8 |
| 47.5° | 4586.9 | 4605.8 | 4629.4 | 4683.0 | 4799.6 | 4812.2 | 4785.4 | 4764.9 | 5039.1 | 5193.5 | 4982.4 |
| 50° | 4750.8 | 4768.1 | 4878.4 | 4974.5 | 5192.0 | 5220.3 | 5236.1 | 5184.1 | 5370.0 | 5387.3 | 5299.1 |
| 52.5° | 4706.6 | 4725.5 | 4880.0 | 5196.7 | 5543.3 | 5803.3 | 5756.1 | 5667.8 | 5656.8 | 5724.5 | 5592.2 |
| 55° | 4315.9 | 4298.5 | 4511.3 | 5004.4 | 5653.6 | 6277.6 | 6283.9 | 6191.0 | 6012.9 | 5967.2 | 5548.1 |
| 56° | 3983.4 | 3915.6 | 4186.7 | 4782.3 | 5511.8 | 6236.7 | 6307.6 | 6208.3 | 6041.3 | 5836.4 | 5275.5 |
| 57.5° | 3263.3 | 3327.9 | 3597.3 | 4090.5 | 5021.8 | 5942.0 | 5983.0 | 5959.3 | 5833.3 | 5489.8 | 4642.0 |
| 60° | 1799.5 | 1912.9 | 2150.8 | 2754.3 | 3575.3 | 4560.1 | 4593.2 | 4785.4 | 4809.1 | 4204.0 | 3194.0 |
| 62.5° | 764.2 | 751.6 | 999.0 | 1443.3 | 2035.8 | 2752.8 | 2814.2 | 3011.2 | 3047.4 | 2423.4 | 1602.5 |
| 65° | 310.4 | 327.7 | 452.2 | 726.4 | 1076.2 | 1254.3 | 1340.9 | 1405.5 | 1525.3 | 1000.6 | 590.9 |
| 67.5° | 204.8 | 203.3 | 266.3 | 414.4 | 579.9 | 559.4 | 559.4 | 590.9 | 546.8 | 408.1 | 255.3 |
| 70° | 146.5 | 151.3 | 190.7 | 286.8 | 360.8 | 267.9 | 256.8 | 245.8 | 278.9 | 269.4 | 206.4 |
| 72.5° | 96.1 | 102.4 | 127.6 | 171.8 | 187.5 | 146.5 | 146.5 | 176.5 | 230.1 | 217.4 | 168.6 |
| 75° | 63.0 | 64.6 | 78.8 | 99.3 | 93.0 | 75.6 | 83.5 | 118.2 | 167.0 | 160.7 | 119.8 |
| 77.5° | 42.5 | 44.1 | 53.6 | 64.6 | 52.0 | 42.5 | 45.7 | 59.9 | 81.9 | 81.9 | 63.0 |
| 80° | 15.8 | 17.3 | 22.1 | 20.5 | 23.6 | 29.9 | 33.1 | 41.0 | 48.8 | 48.8 | 42.5 |
| 82.5° | 0.0 | 1.6 | 4.7 | 11.0 | 17.3 | 23.6 | 26.8 | 31.5 | 36.2 | 41.0 | 39.4 |
| 85° | 0.0 | 1.6 | 4.7 | 7.9 | 12.6 | 14.2 | 15.8 | 11.0 | 9.5 | 9.5 | 7.9 |
| 87.5° | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 3.2 | 1.6 | 1.6 |
| 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° | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 | 1652.9 |
| 2.5° | 1652.9 | 1651.3 | 1651.3 | 1646.6 | 1656.1 | 1651.3 | 1654.5 | 1652.9 | 1632.4 | 1648.2 | 1637.2 |
| 5° | 1670.3 | 1681.3 | 1663.9 | 1660.8 | 1648.2 | 1652.9 | 1652.9 | 1637.2 | 1651.3 | 1649.8 | 1646.6 |
| 7.5° | 1714.4 | 1695.5 | 1676.6 | 1657.6 | 1654.5 | 1649.8 | 1632.4 | 1626.1 | 1637.2 | 1624.6 | 1643.5 |
| 10° | 1733.3 | 1736.4 | 1708.1 | 1682.9 | 1659.2 | 1626.1 | 1602.5 | 1588.3 | 1571.0 | 1589.9 | 1600.9 |
| 12.5° | 1819.9 | 1788.4 | 1739.6 | 1700.2 | 1619.8 | 1586.7 | 1563.1 | 1556.8 | 1586.7 | 1593.0 | 1582.0 |
| 15° | 1849.9 | 1845.2 | 1782.1 | 1693.9 | 1610.4 | 1571.0 | 1575.7 | 1563.1 | 1566.3 | 1550.5 | 1553.6 |
| 17.5° | 1911.3 | 1857.8 | 1783.7 | 1673.4 | 1608.8 | 1599.3 | 1571.0 | 1520.6 | 1492.2 | 1479.6 | 1490.6 |
| 20° | 1979.1 | 1927.1 | 1819.9 | 1681.3 | 1623.0 | 1597.8 | 1504.8 | 1443.3 | 1385.0 | 1353.5 | 1355.1 |
| 22.5° | 2039.0 | 1974.4 | 1804.2 | 1684.4 | 1635.6 | 1531.6 | 1419.7 | 1298.4 | 1225.9 | 1177.1 | 1178.6 |
| 25° | 2111.4 | 2020.1 | 1810.5 | 1690.7 | 1602.5 | 1426.0 | 1265.3 | 1147.1 | 1060.5 | 1027.4 | 1038.4 |
| 27.5° | 2152.4 | 2048.4 | 1845.2 | 1704.9 | 1515.8 | 1276.3 | 1103.0 | 992.7 | 942.3 | 926.5 | 924.9 |
| 30° | 2275.3 | 2111.4 | 1887.7 | 1676.6 | 1370.9 | 1115.6 | 954.9 | 887.1 | 838.3 | 824.1 | 827.2 |
| 32.5° | 2458.1 | 2226.5 | 1942.8 | 1602.5 | 1222.7 | 972.2 | 858.8 | 808.3 | 762.6 | 735.9 | 732.7 |
| 35° | 2610.9 | 2423.4 | 2001.1 | 1487.5 | 1051.0 | 861.9 | 791.0 | 728.0 | 658.6 | 628.7 | 620.8 |
| 37.5° | 2902.5 | 2645.6 | 1988.5 | 1314.1 | 887.1 | 780.0 | 718.5 | 641.3 | 581.4 | 540.5 | 535.7 |
| 40° | 3290.1 | 2905.6 | 1927.1 | 1103.0 | 765.8 | 707.5 | 641.3 | 567.3 | 493.2 | 458.5 | 455.4 |
| 42.5° | 3761.2 | 3223.9 | 1815.2 | 888.7 | 644.5 | 635.0 | 575.1 | 490.0 | 423.9 | 398.7 | 400.2 |
| 45° | 4144.1 | 3496.5 | 1701.8 | 713.8 | 554.6 | 564.1 | 512.1 | 431.7 | 386.0 | 365.6 | 365.6 |
| 47.5° | 4484.5 | 3680.9 | 1578.9 | 589.3 | 471.1 | 493.2 | 447.5 | 400.2 | 360.8 | 345.1 | 341.9 |
| 50° | 4812.2 | 3868.4 | 1456.0 | 477.4 | 401.8 | 423.9 | 419.1 | 381.3 | 349.8 | 330.9 | 332.5 |
| 52.5° | 5017.1 | 3898.3 | 1300.0 | 390.8 | 351.4 | 376.6 | 392.4 | 357.7 | 323.0 | 312.0 | 308.8 |
| 55° | 4766.5 | 3512.3 | 1008.5 | 321.4 | 297.8 | 330.9 | 360.8 | 321.4 | 294.7 | 275.7 | 274.2 |
| 56° | 4429.3 | 3140.4 | 843.0 | 296.2 | 282.1 | 318.3 | 349.8 | 307.3 | 277.3 | 266.3 | 258.4 |
| 57.5° | 3750.2 | 2570.0 | 622.4 | 263.1 | 261.6 | 296.2 | 332.5 | 293.1 | 258.4 | 249.0 | 249.0 |
| 60° | 2338.4 | 1446.5 | 376.6 | 220.6 | 226.9 | 263.1 | 299.4 | 261.6 | 230.1 | 230.1 | 234.8 |
| 62.5° | 1065.2 | 601.9 | 228.5 | 187.5 | 195.4 | 226.9 | 266.3 | 236.4 | 219.0 | 236.4 | 239.5 |
| 65° | 362.4 | 260.0 | 165.4 | 149.7 | 154.4 | 187.5 | 228.5 | 239.5 | 237.9 | 249.0 | 255.3 |
| 67.5° | 203.3 | 167.0 | 138.7 | 124.5 | 121.3 | 138.7 | 187.5 | 239.5 | 230.1 | 225.3 | 228.5 |
| 70° | 171.8 | 141.8 | 122.9 | 110.3 | 105.6 | 111.9 | 145.0 | 181.2 | 162.3 | 157.6 | 154.4 |
| 72.5° | 138.7 | 118.2 | 107.1 | 99.3 | 85.1 | 72.5 | 66.2 | 69.3 | 77.2 | 81.9 | 89.8 |
| 75° | 97.7 | 89.8 | 89.8 | 80.4 | 61.5 | 45.7 | 36.2 | 29.9 | 20.5 | 14.2 | 15.8 |
| 77.5° | 55.1 | 55.1 | 56.7 | 48.8 | 39.4 | 29.9 | 22.1 | 15.8 | 7.9 | 3.2 | 1.6 |
| 80° | 37.8 | 41.0 | 44.1 | 39.4 | 33.1 | 26.8 | 18.9 | 11.0 | 4.7 | 0.0 | 0.0 |
| 82.5° | 37.8 | 42.5 | 45.7 | 39.4 | 33.1 | 25.2 | 18.9 | 11.0 | 4.7 | 1.6 | 0.0 |
| 85° | 7.9 | 9.5 | 11.0 | 12.6 | 18.9 | 18.9 | 14.2 | 9.5 | 4.7 | 1.6 | 0.0 |
| 87.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 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)