

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: P528707

Luminaire Tested: **GLAN-SA3D-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13623 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

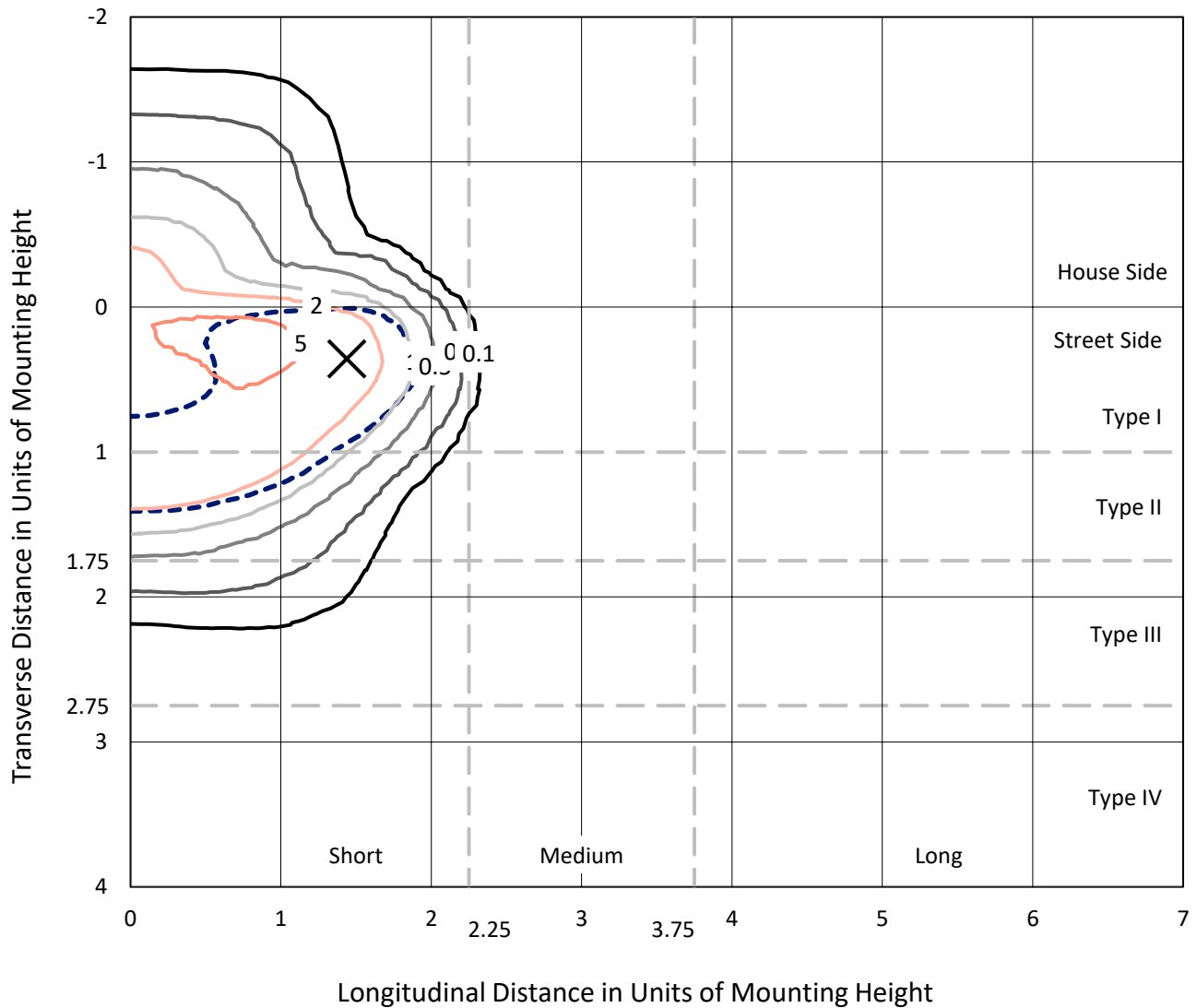
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

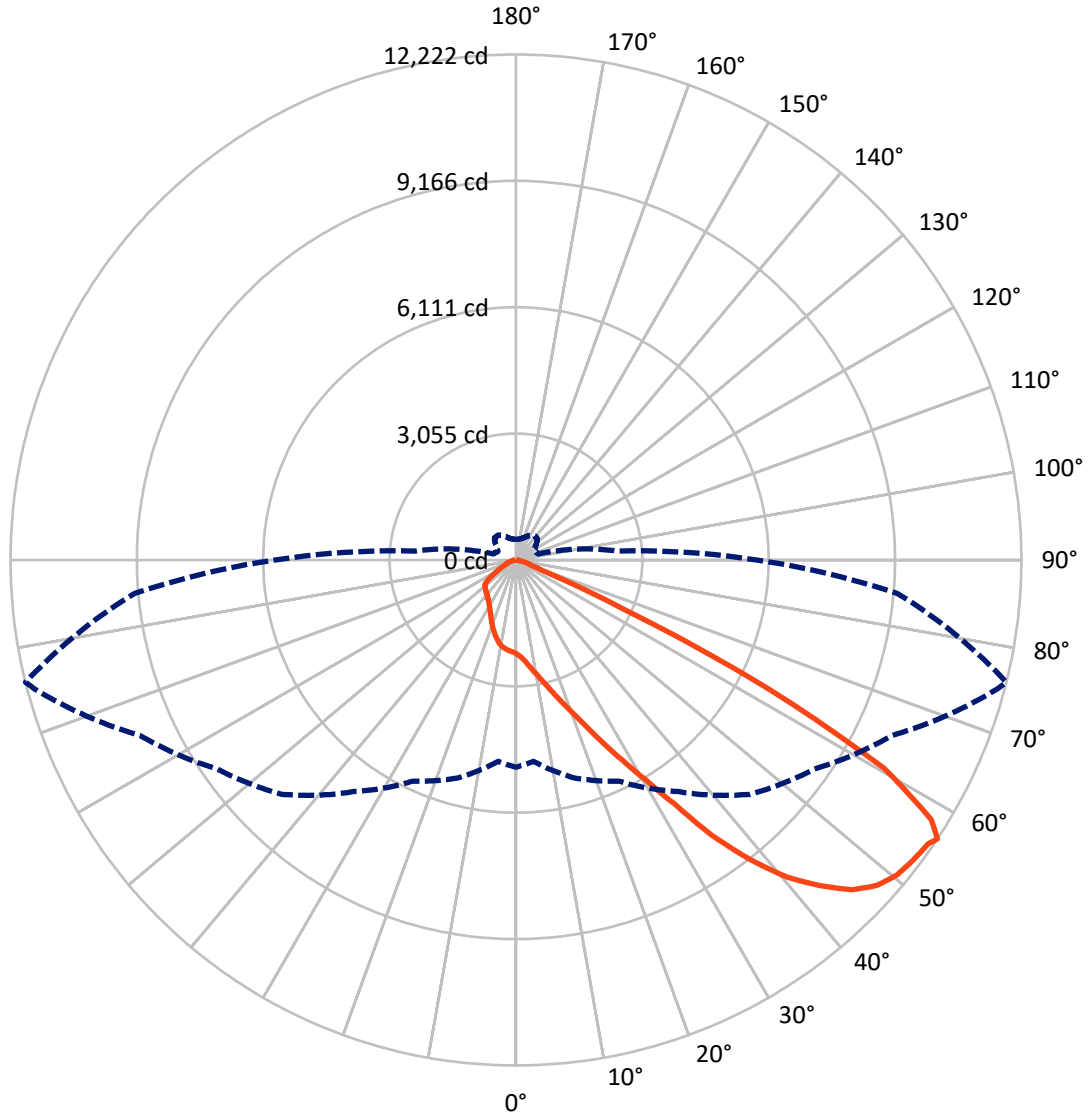
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2140.1 | 0.0 | 2140.1 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 11482.9 | 0.0 | 11482.9 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 13623.0 | 0.0 | 13623.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 228.4 | 1.7 |
| 10°-20° | 733.8 | 5.4 |
| 20°-30° | 1330.7 | 9.8 |
| 30°-40° | 2294.8 | 16.8 |
| 40°-50° | 3728.0 | 27.4 |
| 50°-60° | 3929.4 | 28.8 |
| 60°-70° | 1200.6 | 8.8 |
| 70°-80° | 153.9 | 1.1 |
| 80°-90° | 23.4 | 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° | 13623.0 | 100.0 |
| 0°-180° | 13623.0 | 100.0 |

Coefficient of Utilization

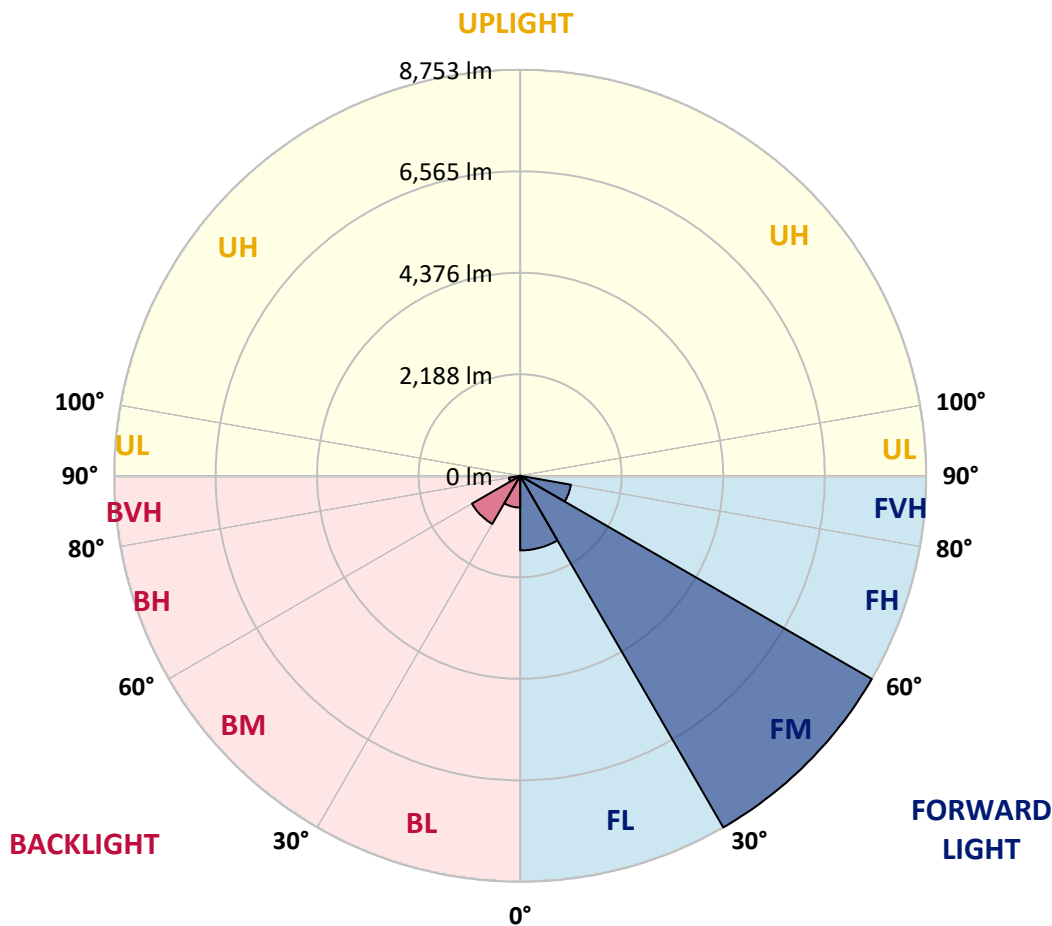


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1608.3 | 11.8 | | | |
| FM (30°-60°) | 8752.8 | 64.2 | | | |
| FH (60°-80°) | 1110.4 | 8.2 | | | G1/1800 |
| FVH (80°-90°) | 11.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 684.6 | 5.0 | B2/1000 | | |
| BM (30°-60°) | 1199.4 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 244.2 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.9 | 0.1 | | | G1/100 |
| 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° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 |
| 2.5° | 2611.6 | 2551.3 | 2553.8 | 2548.8 | 2541.3 | 2513.7 | 2430.8 | 2418.2 | 2363.0 | 2347.9 | 2297.7 |
| 5° | 2925.5 | 2872.8 | 2902.9 | 2857.7 | 2815.0 | 2789.9 | 2654.3 | 2591.5 | 2503.6 | 2471.0 | 2400.7 |
| 7.5° | 3121.4 | 3096.2 | 3086.2 | 3088.7 | 3048.5 | 2985.8 | 2925.5 | 2787.4 | 2669.4 | 2644.2 | 2496.1 |
| 10° | 3216.8 | 3201.7 | 3216.8 | 3209.3 | 3226.8 | 3234.4 | 3128.9 | 3046.0 | 2872.8 | 2830.1 | 2599.0 |
| 12.5° | 3239.4 | 3269.5 | 3282.1 | 3314.7 | 3357.4 | 3430.2 | 3422.7 | 3309.7 | 3078.7 | 3051.0 | 2757.2 |
| 15° | 3294.6 | 3319.7 | 3307.2 | 3359.9 | 3440.3 | 3563.3 | 3628.6 | 3611.0 | 3362.4 | 3312.2 | 2940.6 |
| 17.5° | 3344.9 | 3299.7 | 3342.3 | 3447.8 | 3528.2 | 3716.5 | 3874.7 | 3947.5 | 3671.3 | 3613.5 | 3108.8 |
| 20° | 3412.7 | 3400.1 | 3392.6 | 3445.3 | 3588.4 | 3839.5 | 4153.4 | 4286.5 | 4017.8 | 3957.6 | 3349.9 |
| 22.5° | 3618.6 | 3621.1 | 3616.1 | 3538.2 | 3641.2 | 3924.9 | 4397.0 | 4726.0 | 4432.2 | 4382.0 | 3623.6 |
| 25° | 3889.8 | 3857.1 | 3832.0 | 3769.2 | 3756.7 | 4002.8 | 4643.1 | 5263.4 | 4929.4 | 4894.2 | 3919.9 |
| 27.5° | 4176.0 | 4176.0 | 4100.7 | 4043.0 | 3962.6 | 4196.1 | 4869.1 | 5785.7 | 5529.6 | 5481.8 | 4178.6 |
| 30° | 4487.4 | 4505.0 | 4495.0 | 4371.9 | 4321.7 | 4407.1 | 5100.1 | 6453.7 | 6217.6 | 6157.3 | 4605.4 |
| 32.5° | 4947.0 | 4909.3 | 4952.0 | 4849.0 | 4700.9 | 4776.2 | 5464.3 | 7051.3 | 7111.6 | 7026.2 | 5165.4 |
| 35° | 5554.7 | 5532.1 | 5504.4 | 5336.2 | 5160.4 | 5220.7 | 5979.0 | 7787.1 | 8234.1 | 8191.4 | 5730.4 |
| 37.5° | 6099.6 | 6087.0 | 6064.4 | 5948.9 | 5745.5 | 5818.3 | 6564.1 | 8553.0 | 9328.9 | 9188.3 | 6529.0 |
| 40° | 6672.1 | 6739.9 | 6667.1 | 6564.1 | 6378.3 | 6539.0 | 7252.2 | 9007.5 | 10250.5 | 10079.8 | 7139.2 |
| 42.5° | 7448.1 | 7395.3 | 7428.0 | 7239.6 | 7139.2 | 7315.0 | 7942.8 | 9462.0 | 10966.2 | 10762.8 | 7787.1 |
| 45° | 8274.2 | 8276.8 | 8188.9 | 8128.6 | 7867.4 | 8058.3 | 8367.2 | 9713.1 | 11536.2 | 11378.0 | 8276.8 |
| 47.5° | 8804.1 | 8801.6 | 8897.0 | 8992.4 | 8723.7 | 8535.4 | 8655.9 | 9951.7 | 11830.0 | 11757.2 | 8455.0 |
| 50° | 8721.2 | 8746.3 | 8869.4 | 9226.0 | 9366.6 | 9113.0 | 8927.1 | 9881.4 | 11963.1 | 11955.6 | 8608.2 |
| 52.5° | 7586.2 | 7669.1 | 7875.0 | 8389.8 | 9097.9 | 9411.8 | 9210.9 | 10012.0 | 12028.4 | 12041.0 | 8836.7 |
| 55° | 5775.6 | 5820.8 | 6212.6 | 6837.9 | 7621.3 | 8696.1 | 9097.9 | 10114.9 | 12078.6 | 12101.2 | 9113.0 |
| 56° | 5009.7 | 4889.2 | 5454.2 | 5898.7 | 6835.4 | 8010.6 | 8811.6 | 10034.6 | 12048.5 | 12221.8 | 9251.1 |
| 57.5° | 3781.8 | 3701.4 | 4158.5 | 4713.4 | 5614.9 | 6855.4 | 7922.7 | 9655.4 | 11845.1 | 11842.6 | 9052.7 |
| 60° | 2300.2 | 2219.9 | 2571.4 | 2897.9 | 3402.6 | 4221.2 | 5353.8 | 7689.1 | 10014.5 | 10225.4 | 7330.0 |
| 62.5° | 1368.6 | 1418.8 | 1765.3 | 1963.7 | 2126.9 | 2212.3 | 2769.8 | 4570.3 | 6682.2 | 6832.8 | 4547.7 |
| 65° | 911.5 | 929.1 | 1190.3 | 1516.7 | 1589.6 | 1265.6 | 1127.5 | 1850.7 | 2897.9 | 2805.0 | 1875.8 |
| 67.5° | 562.5 | 602.7 | 798.5 | 1140.1 | 1263.1 | 924.1 | 534.9 | 690.6 | 798.5 | 798.5 | 542.4 |
| 70° | 341.5 | 361.6 | 532.4 | 775.9 | 866.3 | 595.1 | 389.2 | 389.2 | 384.2 | 376.7 | 323.9 |
| 72.5° | 163.2 | 175.8 | 271.2 | 399.3 | 406.8 | 313.9 | 301.3 | 329.0 | 321.4 | 318.9 | 268.7 |
| 75° | 70.3 | 75.3 | 95.4 | 125.6 | 143.1 | 133.1 | 183.3 | 236.0 | 243.6 | 236.0 | 193.4 |
| 77.5° | 22.6 | 25.1 | 35.2 | 45.2 | 47.7 | 57.8 | 77.8 | 97.9 | 113.0 | 105.5 | 95.4 |
| 80° | 2.5 | 5.0 | 10.0 | 22.6 | 35.2 | 45.2 | 57.8 | 65.3 | 72.8 | 72.8 | 67.8 |
| 82.5° | 2.5 | 2.5 | 10.0 | 20.1 | 32.6 | 42.7 | 55.2 | 62.8 | 72.8 | 75.3 | 70.3 |
| 85° | 0.0 | 2.5 | 7.5 | 17.6 | 27.6 | 27.6 | 25.1 | 25.1 | 17.6 | 17.6 | 17.6 |
| 87.5° | 0.0 | 0.0 | 2.5 | 2.5 | 2.5 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 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° | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 | 2267.6 |
| 2.5° | 2287.7 | 2282.6 | 2214.8 | 2172.1 | 2149.5 | 2104.3 | 2076.7 | 2056.6 | 2041.6 | 2024.0 | 2026.5 |
| 5° | 2317.8 | 2300.2 | 2187.2 | 2109.4 | 2016.5 | 1966.2 | 1923.5 | 1888.4 | 1865.8 | 1860.8 | 1850.7 |
| 7.5° | 2403.2 | 2310.3 | 2139.5 | 1998.9 | 1880.9 | 1830.6 | 1793.0 | 1770.4 | 1780.4 | 1757.8 | 1775.4 |
| 10° | 2468.5 | 2330.3 | 2081.7 | 1878.3 | 1760.3 | 1722.6 | 1702.6 | 1720.1 | 1745.2 | 1735.2 | 1722.6 |
| 12.5° | 2548.8 | 2350.4 | 1988.8 | 1762.8 | 1652.3 | 1624.7 | 1659.9 | 1692.5 | 1742.7 | 1762.8 | 1737.7 |
| 15° | 2639.2 | 2373.0 | 1870.8 | 1629.7 | 1559.4 | 1582.0 | 1642.3 | 1700.0 | 1750.3 | 1775.4 | 1790.5 |
| 17.5° | 2749.7 | 2365.5 | 1755.3 | 1524.3 | 1471.5 | 1536.8 | 1609.6 | 1662.4 | 1737.7 | 1775.4 | 1765.3 |
| 20° | 2852.7 | 2340.4 | 1627.2 | 1418.8 | 1421.3 | 1481.6 | 1541.8 | 1627.2 | 1667.4 | 1717.6 | 1700.0 |
| 22.5° | 2950.6 | 2295.2 | 1494.1 | 1346.0 | 1346.0 | 1438.9 | 1469.0 | 1524.3 | 1559.4 | 1584.5 | 1582.0 |
| 25° | 3088.7 | 2209.8 | 1383.6 | 1275.7 | 1305.8 | 1366.1 | 1391.2 | 1408.8 | 1393.7 | 1413.8 | 1416.3 |
| 27.5° | 3186.6 | 2121.9 | 1293.2 | 1212.9 | 1268.1 | 1313.3 | 1305.8 | 1295.8 | 1260.6 | 1233.0 | 1250.6 |
| 30° | 3292.1 | 2019.0 | 1215.4 | 1170.2 | 1200.3 | 1240.5 | 1210.4 | 1180.2 | 1125.0 | 1079.8 | 1082.3 |
| 32.5° | 3442.8 | 1971.3 | 1147.6 | 1120.0 | 1160.2 | 1165.2 | 1132.5 | 1087.3 | 1032.1 | 989.4 | 986.9 |
| 35° | 3724.0 | 1941.1 | 1089.8 | 1087.3 | 1094.9 | 1097.4 | 1064.7 | 1009.5 | 986.9 | 951.7 | 964.3 |
| 37.5° | 4005.3 | 1926.1 | 1049.7 | 1039.6 | 1037.1 | 1039.6 | 1001.9 | 949.2 | 991.9 | 989.4 | 994.4 |
| 40° | 4364.4 | 1993.9 | 991.9 | 979.3 | 981.9 | 981.9 | 934.1 | 919.1 | 994.4 | 1001.9 | 1004.5 |
| 42.5° | 4728.5 | 2079.2 | 954.2 | 914.1 | 924.1 | 924.1 | 899.0 | 881.4 | 934.1 | 883.9 | 876.4 |
| 45° | 5044.9 | 2204.8 | 914.1 | 848.8 | 873.9 | 886.4 | 878.9 | 848.8 | 816.1 | 730.7 | 730.7 |
| 47.5° | 5147.9 | 2315.3 | 866.3 | 786.0 | 806.1 | 861.3 | 838.7 | 775.9 | 718.2 | 647.9 | 642.9 |
| 50° | 5328.7 | 2435.8 | 828.7 | 713.2 | 755.9 | 823.7 | 801.1 | 738.3 | 673.0 | 622.8 | 625.3 |
| 52.5° | 5514.5 | 2573.9 | 758.4 | 627.8 | 680.5 | 793.5 | 793.5 | 723.2 | 622.8 | 587.6 | 582.6 |
| 55° | 5793.2 | 2568.9 | 632.8 | 514.8 | 607.7 | 748.3 | 760.9 | 647.9 | 557.5 | 529.9 | 529.9 |
| 56° | 5833.4 | 2453.4 | 570.0 | 482.1 | 575.1 | 735.8 | 738.3 | 627.8 | 532.4 | 502.2 | 502.2 |
| 57.5° | 5532.1 | 2214.8 | 499.7 | 442.0 | 534.9 | 713.2 | 715.7 | 610.2 | 512.3 | 469.6 | 464.6 |
| 60° | 4256.4 | 1499.2 | 416.9 | 394.3 | 484.7 | 642.9 | 655.4 | 555.0 | 449.5 | 416.9 | 414.3 |
| 62.5° | 2403.2 | 831.2 | 366.6 | 356.6 | 416.9 | 547.4 | 585.1 | 484.7 | 381.7 | 364.1 | 369.1 |
| 65° | 1097.4 | 457.0 | 308.9 | 288.8 | 336.5 | 421.9 | 472.1 | 399.3 | 313.9 | 293.8 | 293.8 |
| 67.5° | 401.8 | 311.4 | 263.7 | 228.5 | 236.0 | 273.7 | 306.4 | 258.6 | 208.4 | 178.3 | 185.8 |
| 70° | 286.3 | 261.2 | 231.0 | 198.4 | 183.3 | 178.3 | 175.8 | 145.6 | 103.0 | 80.4 | 85.4 |
| 72.5° | 231.0 | 216.0 | 193.4 | 168.2 | 143.1 | 120.5 | 103.0 | 75.3 | 47.7 | 32.6 | 30.1 |
| 75° | 165.7 | 158.2 | 140.6 | 120.5 | 100.4 | 85.4 | 70.3 | 47.7 | 25.1 | 12.6 | 12.6 |
| 77.5° | 85.4 | 85.4 | 82.9 | 75.3 | 62.8 | 50.2 | 40.2 | 27.6 | 15.1 | 5.0 | 5.0 |
| 80° | 65.3 | 70.3 | 72.8 | 65.3 | 57.8 | 45.2 | 32.6 | 20.1 | 10.0 | 2.5 | 2.5 |
| 82.5° | 62.8 | 72.8 | 77.8 | 67.8 | 57.8 | 42.7 | 32.6 | 20.1 | 10.0 | 2.5 | 2.5 |
| 85° | 15.1 | 15.1 | 22.6 | 25.1 | 32.6 | 35.2 | 27.6 | 17.6 | 7.5 | 2.5 | 2.5 |
| 87.5° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 2.5 | 2.5 | 2.5 | 2.5 | 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)