

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: P531960

Luminaire Tested: **GLAN-SA7B-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531960
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-SA7B-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 32444 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

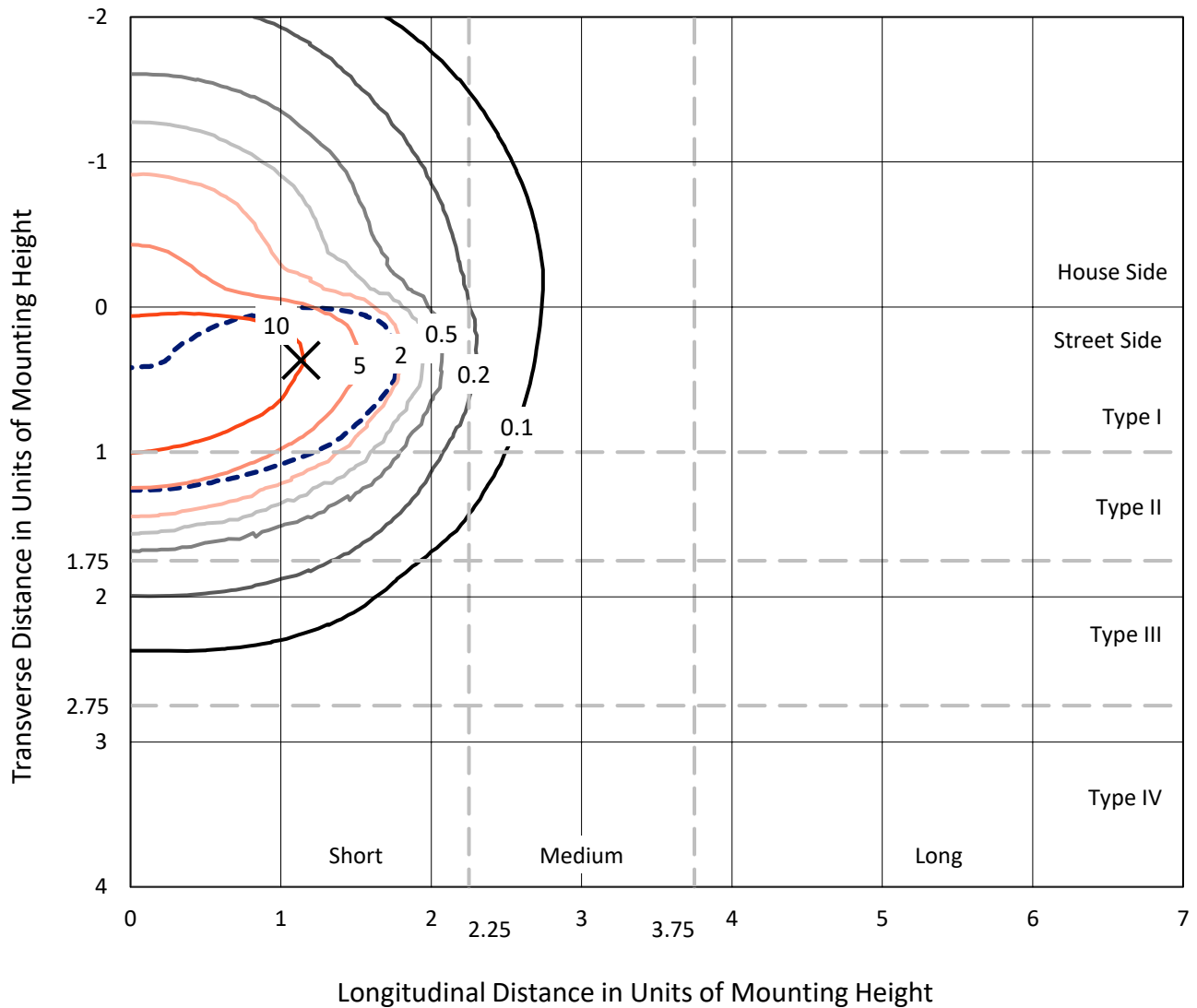
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

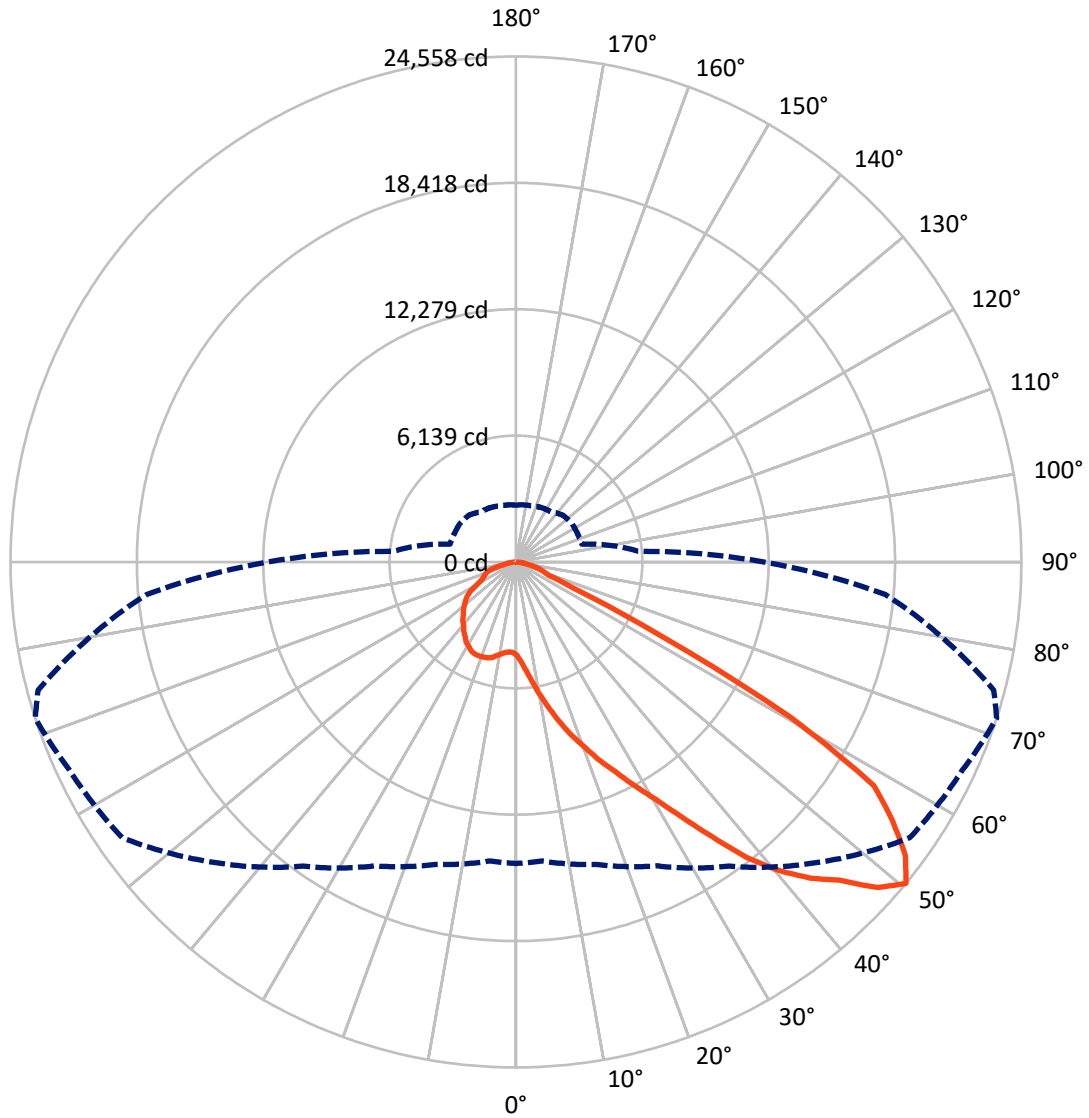
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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 | 7433.1 | 0.0 | 7433.1 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 25010.9 | 0.0 | 25010.9 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 32444.0 | 0.0 | 32444.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 531.2 | 1.6 |
| 10°-20° | 1986.0 | 6.1 |
| 20°-30° | 3850.7 | 11.9 |
| 30°-40° | 6379.3 | 19.7 |
| 40°-50° | 8926.0 | 27.5 |
| 50°-60° | 7530.3 | 23.2 |
| 60°-70° | 2295.2 | 7.1 |
| 70°-80° | 805.2 | 2.5 |
| 80°-90° | 140.0 | 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° | 32444.0 | 100.0 |
| 0°-180° | 32444.0 | 100.0 |

Coefficient of Utilization



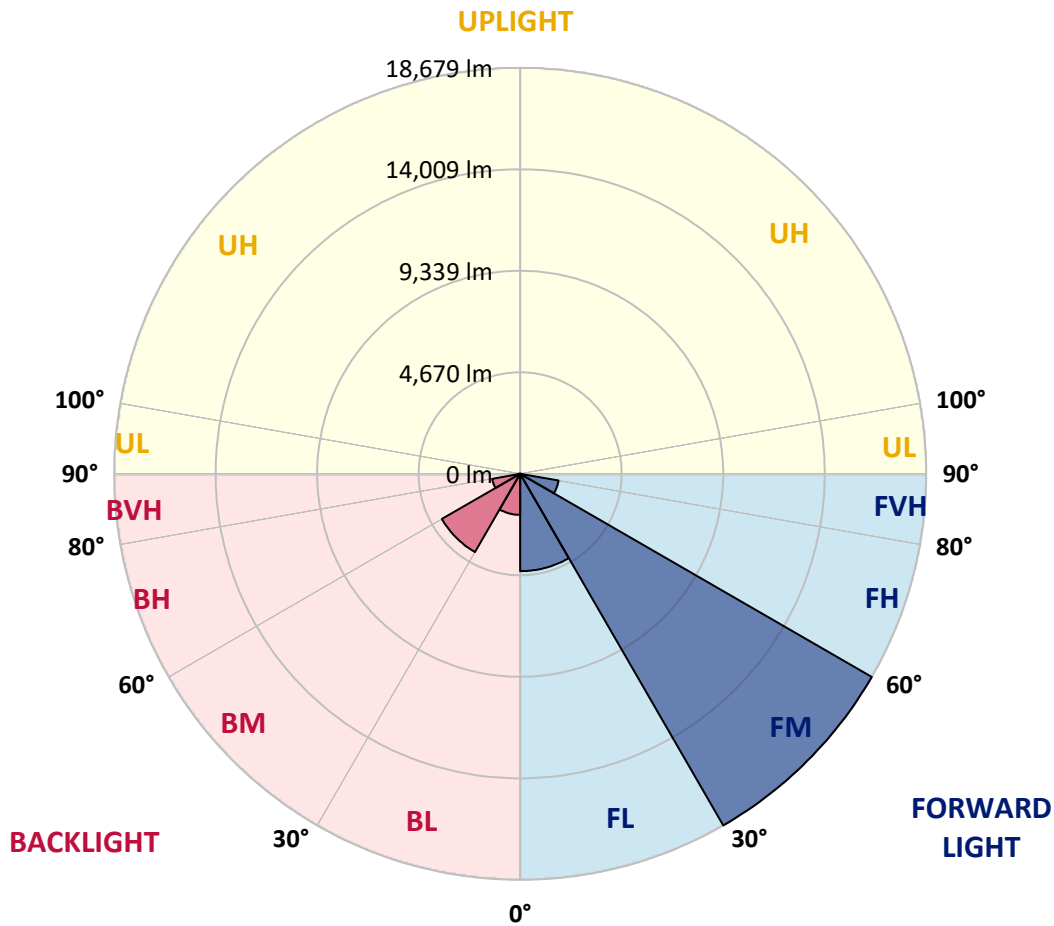
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4478.4 | 13.8 | | | |
| FM (30°-60°) | 18678.9 | 57.6 | | | |
| FH (60°-80°) | 1790.9 | 5.5 | | | G1/1800 |
| FVH (80°-90°) | 62.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1889.5 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 4156.7 | 12.8 | B3/5000 | | |
| BH (60°-80°) | 1309.6 | 4.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 77.3 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 |
| 2.5° | 5809.2 | 5773.1 | 5664.7 | 5628.5 | 5500.1 | 5267.2 | 5186.9 | 4950.1 | 4849.7 | 4757.4 | 4649.0 |
| 5° | 7346.8 | 7178.2 | 7166.2 | 6961.4 | 6664.3 | 6491.7 | 5977.8 | 5632.6 | 5315.4 | 5154.8 | 4857.7 |
| 7.5° | 8326.4 | 8330.4 | 8330.4 | 8161.8 | 7924.9 | 7487.3 | 7025.6 | 6403.4 | 5925.6 | 5688.8 | 5182.9 |
| 10° | 9257.8 | 9177.5 | 9133.3 | 9117.3 | 8956.7 | 8531.1 | 8037.3 | 7266.5 | 6612.1 | 6335.1 | 5427.8 |
| 12.5° | 9916.2 | 9847.9 | 9948.3 | 9896.1 | 9779.7 | 9502.7 | 9037.0 | 8157.8 | 7338.8 | 6965.4 | 5821.2 |
| 15° | 10229.3 | 10277.5 | 10357.8 | 10502.3 | 10450.1 | 10345.8 | 9831.9 | 9073.1 | 8121.6 | 7700.1 | 6170.5 |
| 17.5° | 10711.1 | 10578.6 | 10675.0 | 10855.6 | 11000.1 | 10952.0 | 10658.9 | 9735.5 | 8896.5 | 8378.6 | 6640.2 |
| 20° | 11048.3 | 10972.0 | 11020.2 | 11229.0 | 11337.4 | 11610.4 | 11457.8 | 10602.7 | 9639.2 | 9093.2 | 7194.3 |
| 22.5° | 12011.8 | 11899.4 | 11742.9 | 11775.0 | 11815.1 | 12007.8 | 12044.0 | 11554.2 | 10502.3 | 9924.2 | 7720.2 |
| 25° | 13200.2 | 13095.8 | 12911.1 | 12722.4 | 12606.0 | 12569.9 | 12694.3 | 12300.9 | 11329.3 | 10731.2 | 8286.2 |
| 27.5° | 14508.9 | 14332.3 | 14215.9 | 13826.5 | 13513.3 | 13465.1 | 13404.9 | 13192.1 | 12308.9 | 11662.6 | 8924.6 |
| 30° | 15781.6 | 15641.1 | 15484.5 | 14862.2 | 14537.0 | 14484.9 | 14187.8 | 14248.0 | 13372.8 | 12654.2 | 9647.2 |
| 32.5° | 16745.1 | 16757.1 | 16399.8 | 15930.1 | 15625.0 | 15348.0 | 15239.6 | 15412.2 | 14737.8 | 14159.7 | 10454.1 |
| 35° | 17523.9 | 17560.1 | 17218.8 | 16793.3 | 16464.1 | 16656.8 | 16608.6 | 16688.9 | 16367.7 | 15661.2 | 11393.6 |
| 37.5° | 18282.7 | 18102.1 | 17736.7 | 17532.0 | 17359.3 | 17676.5 | 18086.0 | 18154.2 | 18214.5 | 17383.4 | 12485.6 |
| 40° | 18407.2 | 18423.2 | 18210.5 | 18355.0 | 18138.2 | 18615.9 | 19567.4 | 19479.1 | 19724.0 | 18997.3 | 13669.9 |
| 42.5° | 18230.5 | 18266.7 | 18351.0 | 18555.7 | 19077.6 | 19651.7 | 21064.9 | 20703.6 | 21000.6 | 20354.3 | 14822.1 |
| 45° | 17941.5 | 17792.9 | 17897.3 | 18676.2 | 19579.4 | 20856.1 | 22433.9 | 22152.8 | 22056.5 | 21514.5 | 16195.1 |
| 47.5° | 16560.4 | 16713.0 | 17038.2 | 17997.7 | 19354.6 | 21064.9 | 23405.4 | 23341.2 | 23630.2 | 23248.8 | 17443.7 |
| 50° | 14645.4 | 14585.2 | 15211.5 | 16291.5 | 18041.8 | 20655.4 | 23353.2 | 23935.3 | 24557.6 | 24027.7 | 18001.7 |
| 52.5° | 10968.0 | 11289.2 | 11827.2 | 13168.1 | 15665.2 | 18423.2 | 22213.1 | 23184.6 | 23690.5 | 23578.0 | 17552.1 |
| 55° | 6933.3 | 7029.7 | 7354.8 | 8948.7 | 11196.9 | 14786.0 | 19041.5 | 21293.7 | 22197.0 | 22618.5 | 17138.5 |
| 57.5° | 3368.3 | 3187.6 | 3585.1 | 4865.8 | 6467.6 | 9944.3 | 14685.6 | 18547.7 | 20510.8 | 21273.6 | 16239.3 |
| 60° | 1758.4 | 1826.7 | 1983.2 | 2440.9 | 3344.2 | 5162.8 | 9153.4 | 12361.1 | 15360.1 | 16532.3 | 12308.9 |
| 62.5° | 1457.3 | 1481.4 | 1585.8 | 1814.6 | 2224.1 | 2970.8 | 4673.1 | 6026.0 | 7832.6 | 8888.4 | 7001.5 |
| 65° | 1236.5 | 1248.6 | 1361.0 | 1513.5 | 1774.5 | 2091.6 | 2404.8 | 2517.2 | 3047.1 | 3127.4 | 2489.1 |
| 67.5° | 1031.8 | 1043.8 | 1164.2 | 1308.8 | 1477.4 | 1561.7 | 1642.0 | 1634.0 | 1694.2 | 1670.1 | 1666.1 |
| 70° | 794.9 | 806.9 | 931.4 | 1084.0 | 1168.3 | 1120.1 | 1369.0 | 1425.2 | 1449.3 | 1469.4 | 1501.5 |
| 72.5° | 574.1 | 598.2 | 694.5 | 802.9 | 758.8 | 871.2 | 1128.1 | 1212.4 | 1244.5 | 1256.6 | 1296.7 |
| 75° | 417.5 | 425.6 | 449.6 | 417.5 | 481.8 | 606.2 | 794.9 | 899.3 | 939.4 | 951.5 | 1011.7 |
| 77.5° | 184.7 | 188.7 | 192.7 | 240.9 | 309.1 | 377.4 | 473.7 | 558.0 | 614.2 | 630.3 | 646.4 |
| 80° | 96.4 | 100.4 | 124.5 | 164.6 | 220.8 | 277.0 | 345.3 | 393.4 | 429.6 | 433.6 | 449.6 |
| 82.5° | 60.2 | 64.2 | 88.3 | 116.4 | 156.6 | 204.7 | 252.9 | 293.1 | 321.2 | 325.2 | 329.2 |
| 85° | 28.1 | 36.1 | 52.2 | 72.3 | 104.4 | 132.5 | 136.5 | 116.4 | 124.5 | 128.5 | 120.4 |
| 87.5° | 8.0 | 12.0 | 16.1 | 12.0 | 16.1 | 16.1 | 20.1 | 24.1 | 24.1 | 24.1 | 28.1 |
| 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: P531960

CATALOG NUMBER: GLAN-SA7B-735-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 | 4516.5 |
| 2.5° | 4588.7 | 4552.6 | 4412.1 | 4359.9 | 4223.4 | 4247.5 | 4175.2 | 4171.2 | 4155.2 | 4151.1 | 4147.1 |
| 5° | 4701.2 | 4588.7 | 4420.1 | 4291.7 | 4215.4 | 4207.4 | 4155.2 | 4155.2 | 4171.2 | 4183.3 | 4155.2 |
| 7.5° | 4885.8 | 4757.4 | 4472.3 | 4351.9 | 4283.6 | 4271.6 | 4235.5 | 4207.4 | 4243.5 | 4231.4 | 4199.3 |
| 10° | 5098.6 | 4873.8 | 4572.7 | 4468.3 | 4355.9 | 4327.8 | 4327.8 | 4339.8 | 4279.6 | 4299.7 | 4267.6 |
| 12.5° | 5335.5 | 5034.4 | 4701.2 | 4580.7 | 4448.2 | 4432.2 | 4424.1 | 4335.8 | 4367.9 | 4351.9 | 4271.6 |
| 15° | 5636.6 | 5219.0 | 4865.8 | 4661.0 | 4548.6 | 4476.3 | 4372.0 | 4355.9 | 4335.8 | 4295.7 | 4259.5 |
| 17.5° | 5961.8 | 5419.8 | 4942.0 | 4685.1 | 4516.5 | 4464.3 | 4384.0 | 4299.7 | 4239.5 | 4247.5 | 4219.4 |
| 20° | 6238.8 | 5604.5 | 4970.1 | 4709.2 | 4492.4 | 4392.0 | 4267.6 | 4215.4 | 4151.1 | 4147.1 | 4143.1 |
| 22.5° | 6568.0 | 5853.4 | 5010.3 | 4645.0 | 4420.1 | 4315.7 | 4231.4 | 4139.1 | 4094.9 | 4038.7 | 4066.8 |
| 25° | 6961.4 | 5949.7 | 5018.3 | 4608.8 | 4367.9 | 4183.3 | 4139.1 | 4038.7 | 4022.7 | 3942.4 | 3958.4 |
| 27.5° | 7246.4 | 6001.9 | 4954.1 | 4496.4 | 4247.5 | 4107.0 | 4026.7 | 3954.4 | 3926.3 | 3866.1 | 3850.0 |
| 30° | 7627.8 | 6082.2 | 4817.6 | 4355.9 | 4127.1 | 3970.5 | 3922.3 | 3906.3 | 3826.0 | 3761.7 | 3753.7 |
| 32.5° | 8061.4 | 6134.4 | 4729.3 | 4211.4 | 4002.6 | 3882.2 | 3906.3 | 3830.0 | 3729.6 | 3673.4 | 3657.3 |
| 35° | 8406.7 | 6154.5 | 4508.5 | 4046.8 | 3918.3 | 3842.0 | 3813.9 | 3797.9 | 3653.3 | 3601.1 | 3561.0 |
| 37.5° | 8932.6 | 6110.3 | 4323.8 | 3930.3 | 3826.0 | 3797.9 | 3773.8 | 3665.4 | 3500.8 | 3424.5 | 3368.3 |
| 40° | 9546.8 | 6098.3 | 4086.9 | 3765.7 | 3737.6 | 3769.8 | 3697.5 | 3528.9 | 3300.0 | 3215.7 | 3175.6 |
| 42.5° | 10137.0 | 6182.6 | 3938.4 | 3677.4 | 3641.3 | 3653.3 | 3553.0 | 3300.0 | 3187.6 | 3139.5 | 3075.2 |
| 45° | 11124.6 | 6359.2 | 3693.5 | 3540.9 | 3524.9 | 3516.8 | 3396.4 | 3131.4 | 3067.2 | 3007.0 | 2994.9 |
| 47.5° | 12015.8 | 6242.8 | 3536.9 | 3400.4 | 3416.5 | 3372.3 | 3115.4 | 3031.1 | 2958.8 | 2898.6 | 2878.5 |
| 50° | 12068.0 | 5965.8 | 3316.1 | 3292.0 | 3296.0 | 3219.7 | 2974.9 | 2918.7 | 2826.3 | 2786.2 | 2758.1 |
| 52.5° | 11795.0 | 5512.1 | 3111.4 | 3119.4 | 3131.4 | 3007.0 | 2802.2 | 2762.1 | 2685.8 | 2629.6 | 2613.5 |
| 55° | 11028.2 | 4805.5 | 2910.6 | 2942.7 | 2974.9 | 2738.0 | 2673.8 | 2573.4 | 2513.2 | 2432.9 | 2436.9 |
| 57.5° | 9715.5 | 3870.1 | 2629.6 | 2681.8 | 2750.0 | 2489.1 | 2440.9 | 2316.5 | 2228.1 | 2163.9 | 2155.9 |
| 60° | 6511.8 | 2754.1 | 2208.1 | 2228.1 | 2380.7 | 2276.3 | 2272.3 | 2147.8 | 2027.4 | 1971.2 | 1939.1 |
| 62.5° | 3842.0 | 2103.7 | 1907.0 | 1886.9 | 1882.9 | 1943.1 | 2043.5 | 1999.3 | 1842.7 | 1734.3 | 1766.4 |
| 65° | 2011.3 | 1818.6 | 1774.5 | 1706.2 | 1666.1 | 1650.0 | 1726.3 | 1746.4 | 1642.0 | 1525.6 | 1517.5 |
| 67.5° | 1690.2 | 1690.2 | 1654.0 | 1629.9 | 1573.7 | 1505.5 | 1457.3 | 1393.1 | 1377.0 | 1344.9 | 1304.8 |
| 70° | 1537.6 | 1577.8 | 1565.7 | 1509.5 | 1461.3 | 1385.1 | 1260.6 | 1156.2 | 1055.9 | 1019.7 | 1043.8 |
| 72.5° | 1340.9 | 1381.0 | 1381.0 | 1352.9 | 1288.7 | 1172.3 | 1051.8 | 931.4 | 847.1 | 782.9 | 774.8 |
| 75° | 1031.8 | 1051.8 | 1100.0 | 1067.9 | 983.6 | 911.3 | 786.9 | 662.4 | 582.1 | 521.9 | 509.9 |
| 77.5° | 658.4 | 690.5 | 690.5 | 686.5 | 626.3 | 558.0 | 477.7 | 389.4 | 329.2 | 285.0 | 273.0 |
| 80° | 437.6 | 457.7 | 473.7 | 457.7 | 417.5 | 365.3 | 305.1 | 244.9 | 200.7 | 164.6 | 156.6 |
| 82.5° | 321.2 | 345.3 | 357.3 | 341.2 | 301.1 | 261.0 | 216.8 | 172.6 | 128.5 | 100.4 | 92.3 |
| 85° | 124.5 | 128.5 | 144.5 | 172.6 | 168.6 | 164.6 | 132.5 | 96.4 | 72.3 | 52.2 | 48.2 |
| 87.5° | 32.1 | 28.1 | 32.1 | 32.1 | 28.1 | 24.1 | 24.1 | 24.1 | 24.1 | 12.0 | 16.1 |
| 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)