

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: P399769

Luminaire Tested: **ARCH-L-PA3-190-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-190-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23306 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

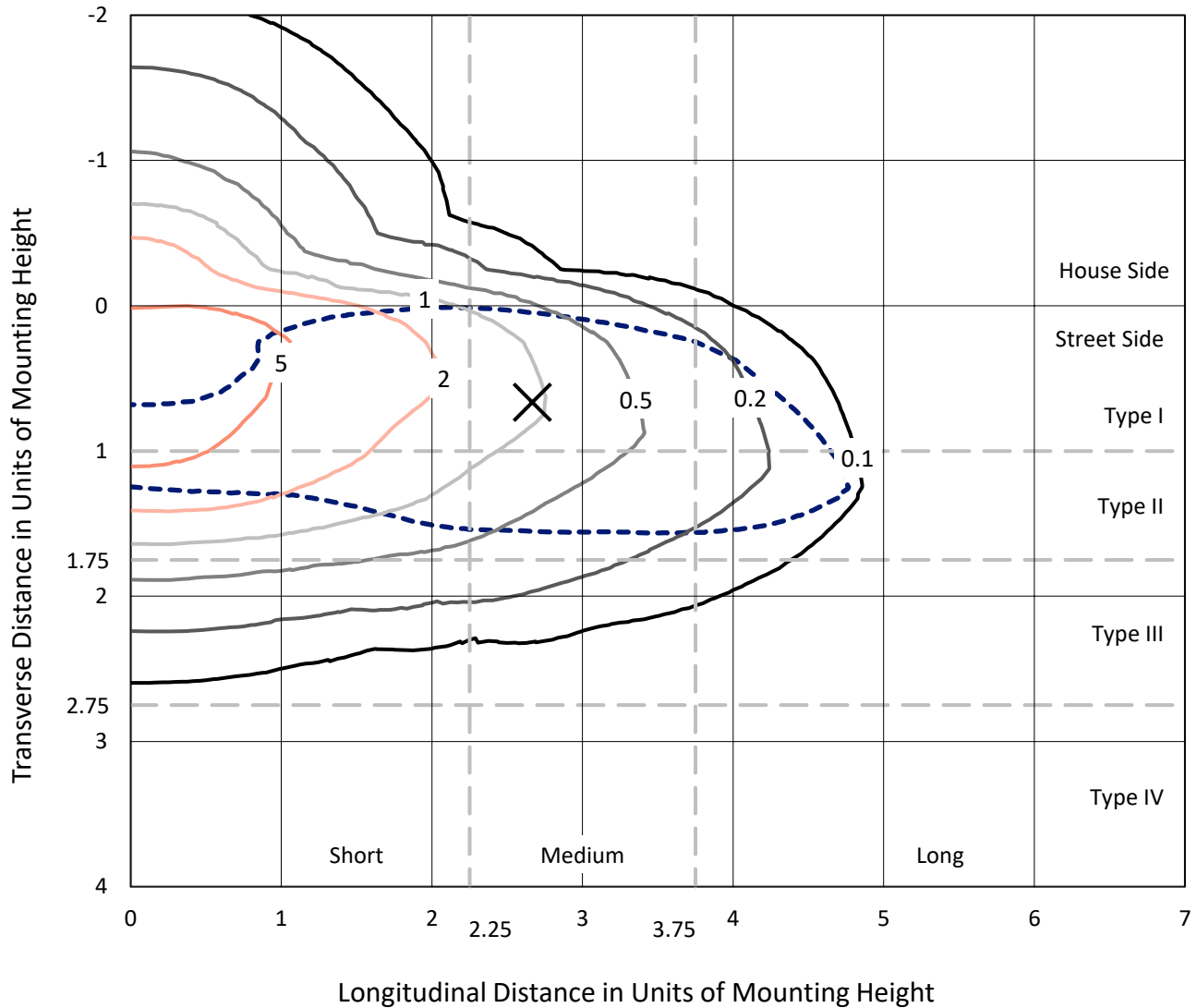
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

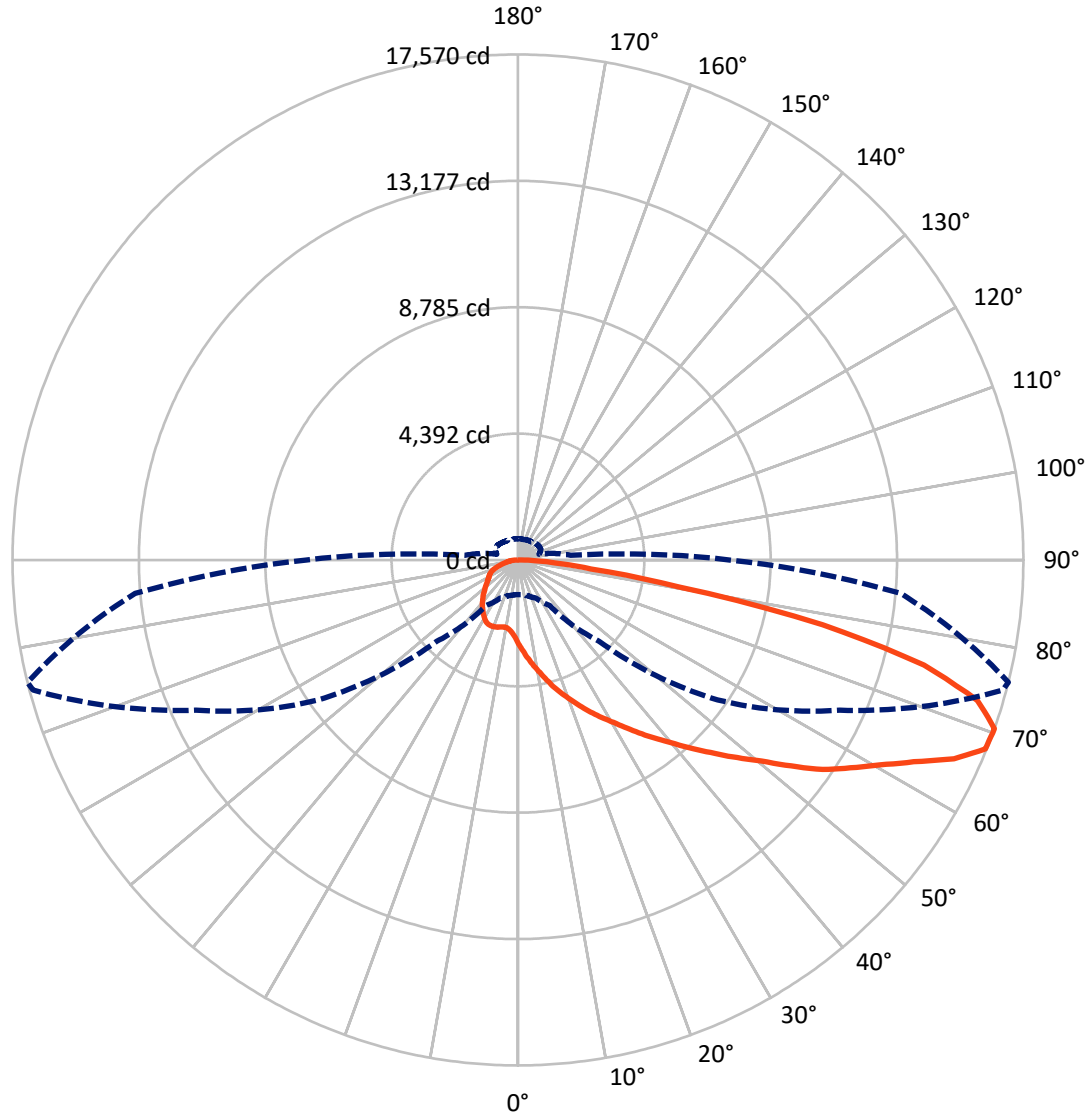
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3804.9 | 0.0 | 3804.9 |
| | % Fixture | 16.3 | 0.0 | 16.3 |
| Street Side | Lumens | 19501.1 | 0.0 | 19501.1 |
| | % Fixture | 83.7 | 0.0 | 83.7 |
| Total | Lumens | 23306.0 | 0.0 | 23306.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 302.8 | 1.3 |
| 10°-20° | 1029.2 | 4.4 |
| 20°-30° | 1841.4 | 7.9 |
| 30°-40° | 2978.8 | 12.8 |
| 40°-50° | 4309.2 | 18.5 |
| 50°-60° | 4932.2 | 21.2 |
| 60°-70° | 4537.0 | 19.5 |
| 70°-80° | 2805.6 | 12.0 |
| 80°-90° | 569.7 | 2.4 |
| 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° | 23306.0 | 100.0 |
| 0°-180° | 23306.0 | 100.0 |

Coefficient of Utilization



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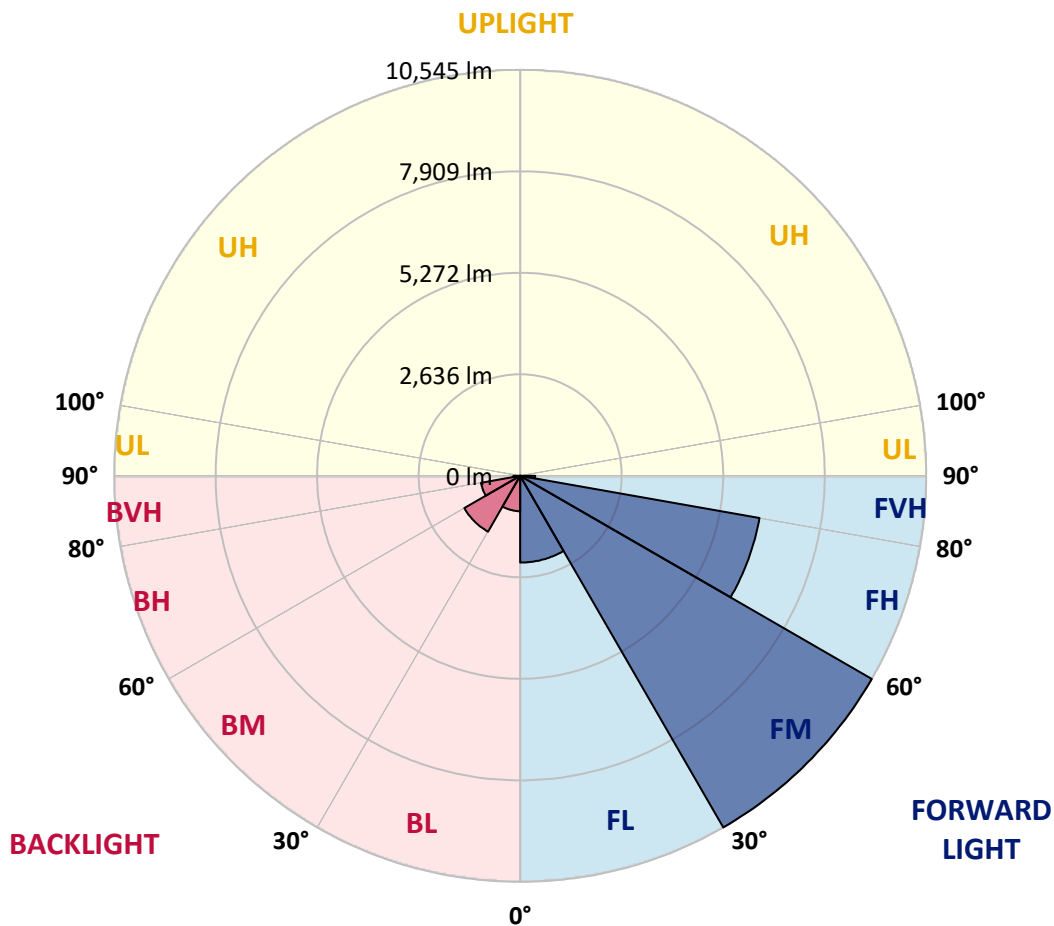
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2254.5 | 9.7 | | | |
| FM (30°-60°) | 10544.9 | 45.2 | | | |
| FH (60°-80°) | 6310.6 | 27.1 | | | G3/7500 |
| FVH (80°-90°) | 391.1 | 1.7 | | | G3/500 |
| BL (0°-30°) | 919.0 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1675.3 | 7.2 | B2/2500 | | |
| BH (60°-80°) | 1032.0 | 4.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 178.6 | 0.8 | | | G2/225 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 |
| 2.5° | 3714.4 | 3686.8 | 3683.8 | 3640.8 | 3601.0 | 3493.7 | 3417.1 | 3282.3 | 3147.4 | 3144.4 | 3009.5 |
| 5° | 4293.6 | 4266.0 | 4250.7 | 4198.6 | 4131.2 | 3990.2 | 3852.3 | 3643.9 | 3414.1 | 3398.7 | 3144.4 |
| 7.5° | 4685.9 | 4661.4 | 4630.7 | 4609.3 | 4544.9 | 4419.3 | 4250.7 | 4002.5 | 3686.8 | 3656.2 | 3300.7 |
| 10° | 4949.5 | 4934.1 | 4928.0 | 4912.7 | 4872.8 | 4771.7 | 4609.3 | 4345.7 | 3959.6 | 3925.9 | 3466.2 |
| 12.5° | 5062.9 | 5056.7 | 5084.3 | 5127.2 | 5142.5 | 5102.7 | 4946.4 | 4698.2 | 4259.9 | 4223.1 | 3665.4 |
| 15° | 4931.1 | 4937.2 | 5007.7 | 5154.8 | 5311.1 | 5396.9 | 5305.0 | 5062.9 | 4600.1 | 4548.0 | 3898.3 |
| 17.5° | 4869.8 | 4879.0 | 4928.0 | 5069.0 | 5289.6 | 5556.3 | 5599.2 | 5409.2 | 4928.0 | 4854.5 | 4143.5 |
| 20° | 4977.0 | 4989.3 | 5026.1 | 5136.4 | 5289.6 | 5574.7 | 5798.4 | 5740.2 | 5249.8 | 5173.2 | 4379.4 |
| 22.5° | 5249.8 | 5265.1 | 5262.1 | 5332.6 | 5436.8 | 5632.9 | 5908.7 | 6052.8 | 5586.9 | 5501.1 | 4624.6 |
| 25° | 5832.1 | 5819.8 | 5715.6 | 5681.9 | 5709.5 | 5835.2 | 6055.8 | 6353.1 | 5939.4 | 5853.5 | 4882.0 |
| 27.5° | 6622.8 | 6607.5 | 6417.4 | 6245.8 | 6092.6 | 6147.8 | 6264.2 | 6595.2 | 6297.9 | 6199.9 | 5127.2 |
| 30° | 7468.6 | 7450.2 | 7229.6 | 6950.7 | 6610.5 | 6530.8 | 6515.5 | 6806.7 | 6659.6 | 6555.4 | 5387.7 |
| 32.5° | 8293.0 | 8277.7 | 8041.7 | 7716.9 | 7248.0 | 7008.9 | 6861.8 | 7042.6 | 7070.2 | 6969.1 | 5672.7 |
| 35° | 9043.9 | 9043.9 | 8841.6 | 8455.5 | 7925.3 | 7563.6 | 7321.5 | 7333.8 | 7542.2 | 7425.7 | 5997.6 |
| 37.5° | 9712.0 | 9708.9 | 9488.3 | 9108.2 | 8599.5 | 8185.8 | 7885.4 | 7686.2 | 7992.7 | 7891.6 | 6337.8 |
| 40° | 10242.2 | 10220.7 | 10058.3 | 9727.3 | 9215.5 | 8804.8 | 8501.4 | 8100.0 | 8495.3 | 8403.4 | 6699.4 |
| 42.5° | 10628.3 | 10616.1 | 10505.7 | 10217.7 | 9730.4 | 9344.2 | 9135.8 | 8621.0 | 9065.3 | 8973.4 | 7122.3 |
| 45° | 10778.5 | 10803.0 | 10803.0 | 10530.3 | 10144.1 | 9791.7 | 9699.7 | 9194.1 | 9681.3 | 9589.4 | 7575.9 |
| 47.5° | 10536.4 | 10600.7 | 10732.5 | 10750.9 | 10410.7 | 10171.7 | 10202.3 | 9770.2 | 10315.7 | 10266.7 | 8072.4 |
| 50° | 9779.4 | 9898.9 | 10187.0 | 10708.0 | 10518.0 | 10462.8 | 10631.4 | 10358.6 | 10996.1 | 10980.8 | 8676.1 |
| 52.5° | 7827.2 | 8118.3 | 9016.3 | 9951.0 | 10444.4 | 10597.7 | 11057.4 | 11020.6 | 11872.6 | 11897.1 | 9463.7 |
| 55° | 6003.7 | 6114.0 | 7153.0 | 8743.5 | 9993.9 | 10554.8 | 11342.4 | 11667.3 | 12822.6 | 12853.3 | 10187.0 |
| 57.5° | 4854.5 | 4928.0 | 5495.0 | 7153.0 | 8967.3 | 10321.9 | 11566.1 | 12044.2 | 13552.0 | 13631.7 | 10830.6 |
| 60° | 3846.2 | 3953.4 | 4333.5 | 5473.5 | 7529.9 | 9761.0 | 11722.4 | 12464.1 | 14336.6 | 14456.1 | 11599.8 |
| 62.5° | 2859.4 | 2911.5 | 3270.0 | 4054.6 | 5960.8 | 8752.7 | 11639.7 | 12920.7 | 15298.9 | 15442.9 | 12525.4 |
| 65° | 2035.0 | 2080.9 | 2335.3 | 2883.9 | 4407.0 | 7389.0 | 11158.5 | 13260.9 | 16506.4 | 16653.5 | 13457.0 |
| 67.5° | 1523.1 | 1541.5 | 1685.6 | 2016.6 | 2969.7 | 5740.2 | 10183.9 | 13202.7 | 17389.0 | 17520.8 | 13830.9 |
| 70° | 1204.4 | 1210.6 | 1281.0 | 1458.8 | 1930.8 | 3996.3 | 8476.9 | 12347.6 | 17453.4 | 17569.8 | 13359.0 |
| 72.5° | 999.1 | 996.0 | 1035.9 | 1121.7 | 1345.4 | 2528.4 | 6279.5 | 10760.1 | 16625.9 | 16705.6 | 12041.1 |
| 75° | 824.4 | 830.5 | 858.1 | 907.1 | 1026.7 | 1667.2 | 4069.9 | 8584.2 | 14667.6 | 14581.8 | 10104.3 |
| 77.5° | 692.6 | 689.6 | 701.8 | 744.7 | 830.5 | 1198.3 | 2384.3 | 6202.9 | 10870.4 | 10827.5 | 6632.0 |
| 80° | 557.8 | 563.9 | 582.3 | 619.1 | 698.7 | 913.3 | 1409.8 | 3870.7 | 5832.1 | 5675.8 | 3168.9 |
| 82.5° | 373.9 | 432.1 | 468.9 | 511.8 | 603.7 | 674.2 | 894.9 | 1967.5 | 2608.0 | 2568.2 | 1437.3 |
| 85° | 177.8 | 236.0 | 349.4 | 398.4 | 490.3 | 422.9 | 606.8 | 937.8 | 1305.6 | 1290.2 | 517.9 |
| 87.5° | 36.8 | 36.8 | 186.9 | 223.7 | 303.4 | 180.8 | 337.1 | 407.6 | 631.3 | 591.5 | 211.5 |
| 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: P399769

CATALOG NUMBER: ARCH-L-PA3-190-727-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 | 2914.5 |
| 2.5° | 2929.8 | 2847.1 | 2681.6 | 2549.8 | 2415.0 | 2338.4 | 2243.3 | 2197.4 | 2188.2 | 2163.7 | 2182.1 |
| 5° | 2981.9 | 2819.5 | 2506.9 | 2301.6 | 2163.7 | 2096.2 | 2062.5 | 2050.3 | 2047.2 | 2041.1 | 2041.1 |
| 7.5° | 3052.4 | 2804.2 | 2396.6 | 2188.2 | 2099.3 | 2077.9 | 2087.1 | 2105.4 | 2108.5 | 2114.6 | 2111.6 |
| 10° | 3138.2 | 2807.3 | 2335.3 | 2160.6 | 2117.7 | 2120.8 | 2151.4 | 2175.9 | 2188.2 | 2197.4 | 2194.3 |
| 12.5° | 3257.8 | 2844.0 | 2326.1 | 2179.0 | 2160.6 | 2172.9 | 2203.5 | 2228.0 | 2240.3 | 2243.3 | 2243.3 |
| 15° | 3414.1 | 2920.6 | 2347.5 | 2218.8 | 2203.5 | 2212.7 | 2231.1 | 2240.3 | 2243.3 | 2240.3 | 2240.3 |
| 17.5° | 3585.7 | 3012.6 | 2378.2 | 2243.3 | 2218.8 | 2209.6 | 2203.5 | 2194.3 | 2175.9 | 2163.7 | 2163.7 |
| 20° | 3751.2 | 3095.3 | 2393.5 | 2240.3 | 2197.4 | 2160.6 | 2123.8 | 2077.9 | 2047.2 | 2022.7 | 2022.7 |
| 22.5° | 3916.7 | 3171.9 | 2393.5 | 2206.6 | 2139.1 | 2068.7 | 1992.0 | 1918.5 | 1872.5 | 1841.9 | 1841.9 |
| 25° | 4091.4 | 3245.5 | 2375.1 | 2148.3 | 2047.2 | 1946.1 | 1841.9 | 1749.9 | 1704.0 | 1673.3 | 1667.2 |
| 27.5° | 4238.5 | 3288.4 | 2326.1 | 2065.6 | 1933.8 | 1805.1 | 1685.6 | 1590.6 | 1556.9 | 1529.3 | 1529.3 |
| 30° | 4394.8 | 3316.0 | 2234.2 | 1958.3 | 1805.1 | 1658.0 | 1535.4 | 1458.8 | 1422.0 | 1382.2 | 1379.1 |
| 32.5° | 4569.4 | 3334.4 | 2130.0 | 1844.9 | 1673.3 | 1517.0 | 1412.8 | 1351.5 | 1271.8 | 1228.9 | 1222.8 |
| 35° | 4771.7 | 3358.9 | 2019.6 | 1716.2 | 1541.5 | 1400.6 | 1339.3 | 1238.1 | 1161.5 | 1124.7 | 1121.7 |
| 37.5° | 4986.2 | 3377.3 | 1900.1 | 1602.8 | 1422.0 | 1323.9 | 1262.7 | 1143.1 | 1075.7 | 1020.5 | 1014.4 |
| 40° | 5213.0 | 3377.3 | 1777.5 | 1492.5 | 1327.0 | 1290.2 | 1173.8 | 1066.5 | 953.1 | 925.5 | 919.4 |
| 42.5° | 5464.3 | 3371.2 | 1654.9 | 1385.2 | 1238.1 | 1213.6 | 1121.7 | 1008.3 | 950.1 | 925.5 | 919.4 |
| 45° | 5731.0 | 3349.7 | 1538.5 | 1262.7 | 1146.2 | 1097.2 | 1026.7 | 996.0 | 971.5 | 971.5 | 971.5 |
| 47.5° | 6034.4 | 3331.3 | 1406.7 | 1152.3 | 1078.8 | 1023.6 | 971.5 | 953.1 | 950.1 | 959.2 | 968.4 |
| 50° | 6423.6 | 3325.2 | 1296.4 | 1072.6 | 1026.7 | 962.3 | 956.2 | 940.9 | 943.9 | 943.9 | 943.9 |
| 52.5° | 6895.5 | 3270.0 | 1192.2 | 1014.4 | 974.6 | 898.0 | 916.3 | 931.7 | 937.8 | 934.7 | 931.7 |
| 55° | 7241.8 | 3171.9 | 1103.3 | 974.6 | 937.8 | 873.4 | 898.0 | 922.5 | 928.6 | 919.4 | 919.4 |
| 57.5° | 7554.4 | 3034.0 | 1032.8 | 943.9 | 913.3 | 858.1 | 885.7 | 910.2 | 904.1 | 901.0 | 898.0 |
| 60° | 7913.0 | 2902.3 | 977.6 | 928.6 | 888.8 | 852.0 | 876.5 | 891.8 | 882.6 | 876.5 | 873.4 |
| 62.5° | 8302.2 | 2773.5 | 937.8 | 928.6 | 870.4 | 848.9 | 867.3 | 873.4 | 855.0 | 848.9 | 848.9 |
| 65° | 8483.0 | 2571.3 | 894.9 | 928.6 | 861.2 | 842.8 | 848.9 | 842.8 | 824.4 | 824.4 | 821.3 |
| 67.5° | 8185.8 | 2237.2 | 839.7 | 916.3 | 873.4 | 833.6 | 821.3 | 812.1 | 790.7 | 790.7 | 784.6 |
| 70° | 7364.4 | 1838.8 | 760.0 | 876.5 | 876.5 | 830.5 | 784.6 | 763.1 | 738.6 | 747.8 | 735.5 |
| 72.5° | 6291.8 | 1458.8 | 662.0 | 809.1 | 858.1 | 827.5 | 744.7 | 711.0 | 689.6 | 698.7 | 680.4 |
| 75° | 5096.6 | 1130.9 | 545.5 | 701.8 | 812.1 | 812.1 | 704.9 | 658.9 | 634.4 | 634.4 | 612.9 |
| 77.5° | 3248.6 | 836.7 | 444.4 | 582.3 | 729.4 | 790.7 | 671.2 | 600.7 | 563.9 | 554.7 | 539.4 |
| 80° | 1609.0 | 588.4 | 364.7 | 462.8 | 622.1 | 741.7 | 646.6 | 533.3 | 481.2 | 462.8 | 435.2 |
| 82.5° | 855.0 | 407.6 | 291.1 | 361.6 | 496.5 | 668.1 | 616.0 | 459.7 | 395.3 | 367.8 | 337.1 |
| 85° | 383.1 | 251.3 | 232.9 | 275.8 | 377.0 | 548.6 | 554.7 | 377.0 | 303.4 | 361.6 | 266.6 |
| 87.5° | 141.0 | 113.4 | 113.4 | 141.0 | 217.6 | 229.9 | 392.3 | 242.1 | 193.1 | 131.8 | 104.2 |
| 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)