

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: P482950

Luminaire Tested: **IFLD-S-SA2C-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482950
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

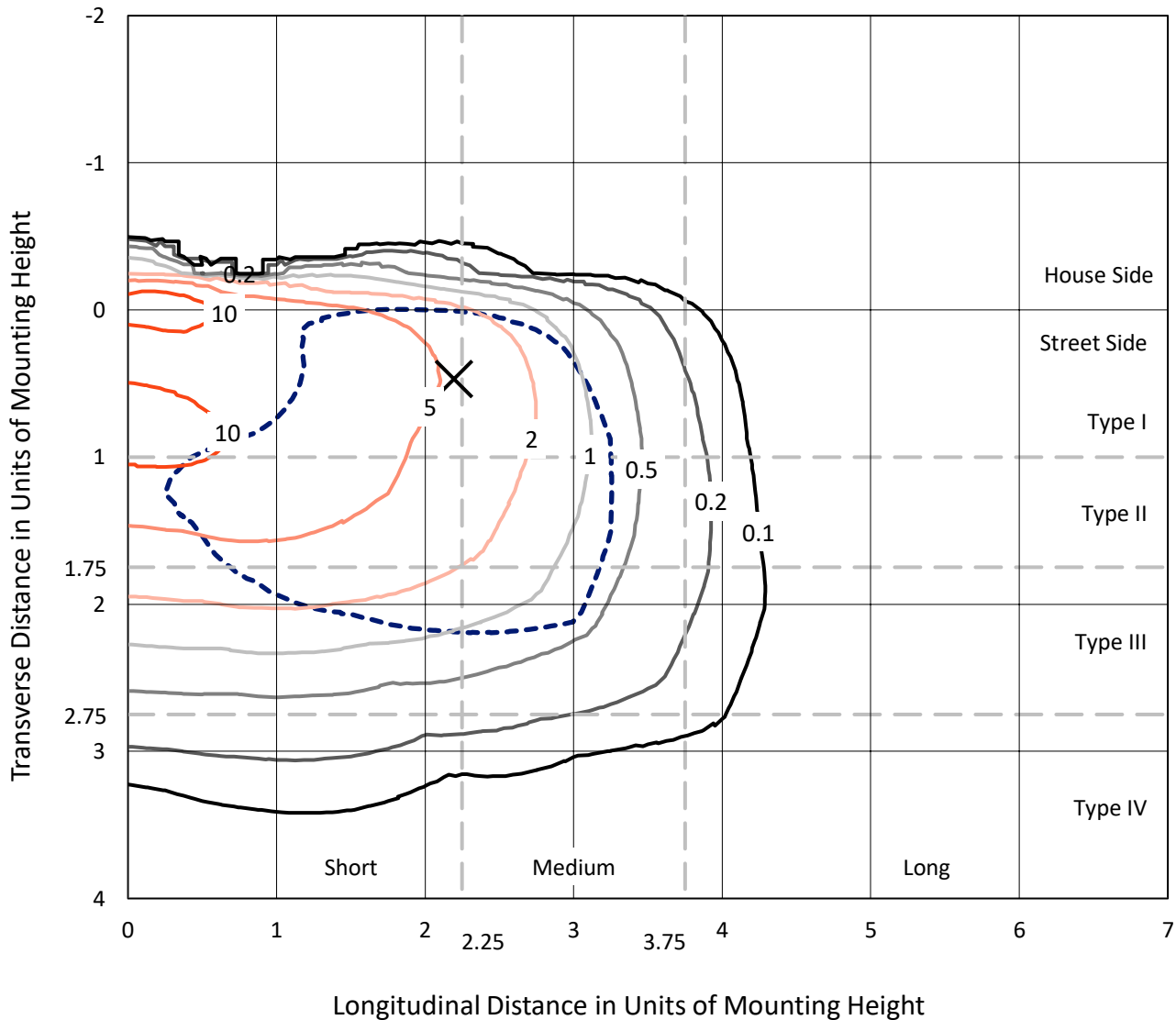
Lumens per Lamp: N/A
Luminaire Lumens: 7489.5 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (A_{in}): 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

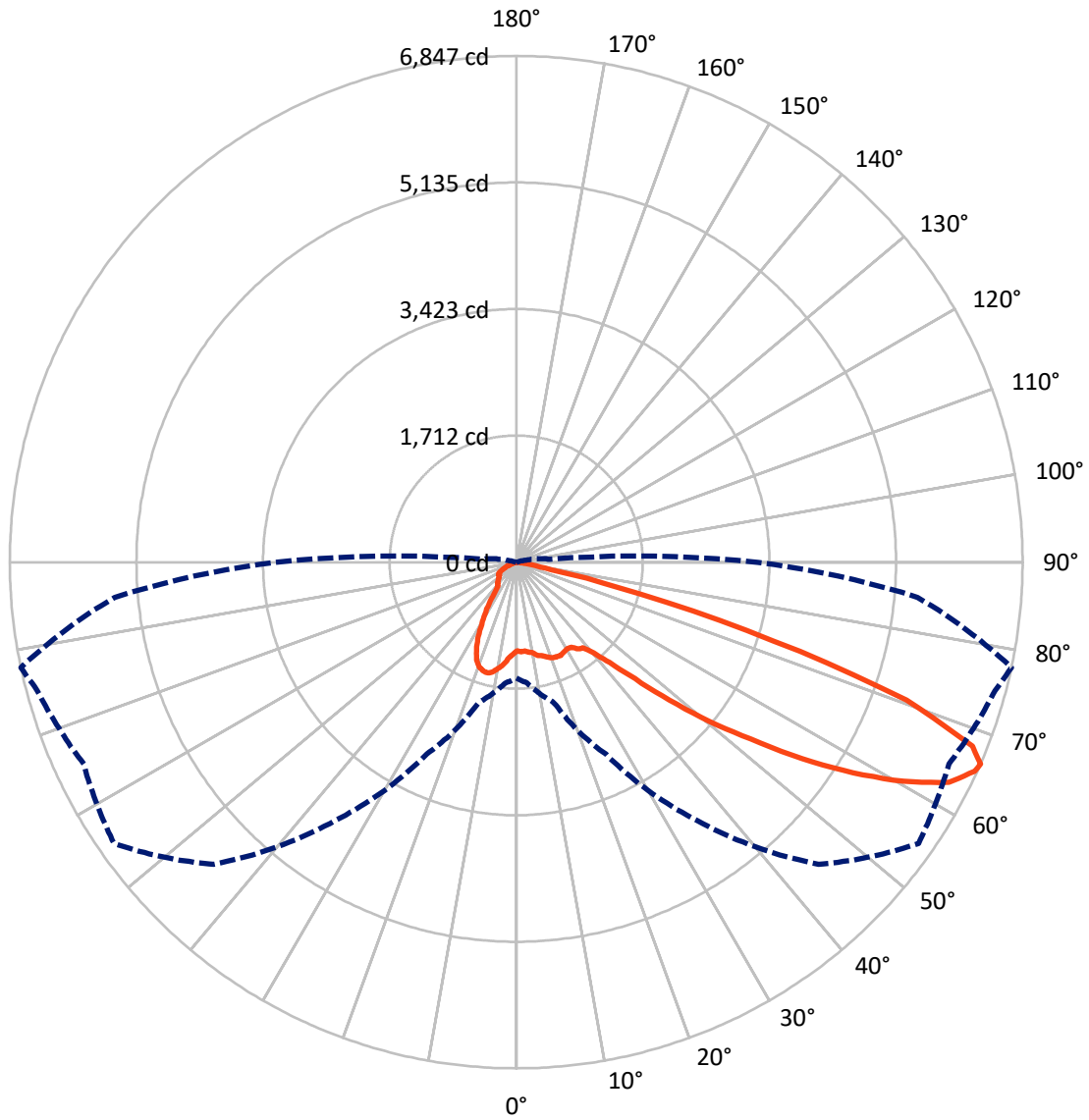
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 526.6 | 0.0 | 526.6 |
| | % Fixture | 7.0 | 0.0 | 7.0 |
| Street Side | Lumens | 6963.0 | 0.0 | 6963.0 |
| | % Fixture | 93.0 | 0.0 | 93.0 |
| Total | Lumens | 7489.5 | 0.0 | 7489.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 109.7 | 1.5 |
| 10°-20° | 247.7 | 3.3 |
| 20°-30° | 354.1 | 4.7 |
| 30°-40° | 606.1 | 8.1 |
| 40°-50° | 1093.9 | 14.6 |
| 50°-60° | 1870.8 | 25.0 |
| 60°-70° | 2302.6 | 30.7 |
| 70°-80° | 870.5 | 11.6 |
| 80°-90° | 34.0 | 0.5 |
| 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° | 7489.5 | 100.0 |
| 0°-180° | 7489.5 | 100.0 |

Coefficient of Utilization

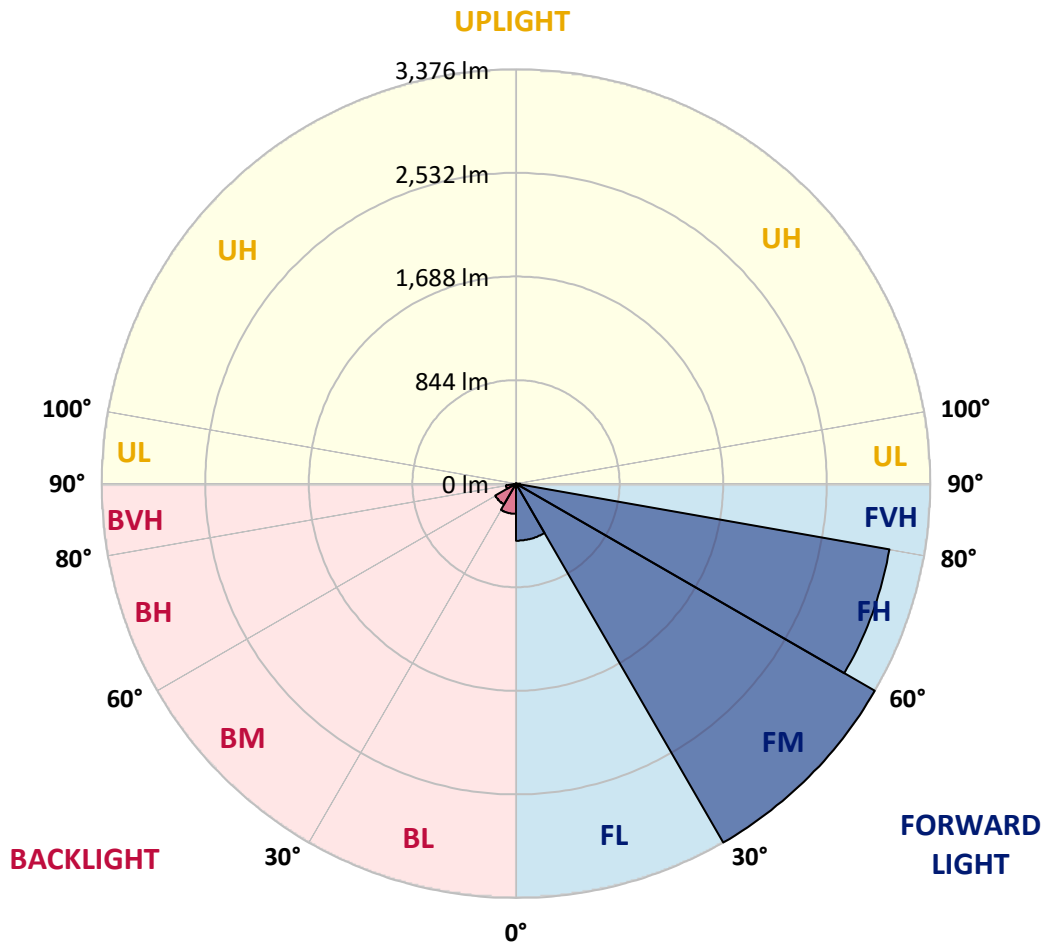


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 465.0 | 6.2 | | | |
| FM (30°-60°) | 3375.7 | 45.1 | | | |
| FH (60°-80°) | 3089.7 | 41.3 | | | G2/5000 |
| FVH (80°-90°) | 32.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 246.6 | 3.3 | B1/500 | | |
| BM (30°-60°) | 195.2 | 2.6 | B0/220 | | |
| BH (60°-80°) | 83.4 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 |
| 2.5° | 1103.4 | 1093.2 | 1103.4 | 1118.1 | 1126.0 | 1132.8 | 1156.6 | 1176.9 | 1198.4 | 1213.2 | 1208.6 |
| 5° | 1023.0 | 1042.3 | 1044.5 | 1049.1 | 1061.5 | 1102.3 | 1115.8 | 1150.9 | 1204.1 | 1208.6 | 1229.0 |
| 7.5° | 959.7 | 954.0 | 968.7 | 998.1 | 1029.8 | 1053.6 | 1093.2 | 1154.3 | 1209.8 | 1229.0 | 1268.6 |
| 10° | 868.0 | 879.3 | 895.2 | 924.6 | 963.1 | 1021.9 | 1092.1 | 1160.0 | 1239.2 | 1246.0 | 1319.5 |
| 12.5° | 818.2 | 806.9 | 831.8 | 862.3 | 928.0 | 982.3 | 1068.3 | 1149.8 | 1257.3 | 1294.6 | 1379.5 |
| 15° | 777.5 | 783.1 | 806.9 | 827.3 | 881.6 | 950.6 | 1051.3 | 1174.7 | 1287.8 | 1313.9 | 1442.9 |
| 17.5° | 760.5 | 757.1 | 775.2 | 795.6 | 862.3 | 940.4 | 1044.5 | 1175.8 | 1315.0 | 1349.0 | 1485.9 |
| 20° | 768.4 | 775.2 | 769.5 | 788.8 | 830.7 | 909.9 | 1054.7 | 1197.3 | 1335.4 | 1381.8 | 1532.3 |
| 22.5° | 892.9 | 883.8 | 838.6 | 802.4 | 804.6 | 897.4 | 1046.8 | 1210.9 | 1353.5 | 1390.8 | 1564.0 |
| 25° | 1217.7 | 1169.0 | 1057.0 | 917.8 | 826.1 | 863.5 | 1037.7 | 1206.4 | 1350.1 | 1396.5 | 1583.2 |
| 27.5° | 1544.7 | 1502.9 | 1393.1 | 1176.9 | 913.3 | 849.9 | 1006.1 | 1209.8 | 1333.1 | 1376.1 | 1551.5 |
| 30° | 1889.9 | 1912.5 | 1749.6 | 1492.7 | 1141.9 | 924.6 | 985.7 | 1191.7 | 1321.8 | 1358.0 | 1558.3 |
| 32.5° | 2244.1 | 2235.1 | 2136.6 | 1858.2 | 1468.9 | 1089.8 | 1018.5 | 1209.8 | 1336.5 | 1371.6 | 1597.9 |
| 35° | 2521.4 | 2489.7 | 2390.1 | 2138.9 | 1739.4 | 1338.8 | 1131.7 | 1295.8 | 1401.0 | 1442.9 | 1654.5 |
| 37.5° | 2658.3 | 2671.9 | 2614.2 | 2395.8 | 2035.9 | 1569.6 | 1273.1 | 1295.8 | 1421.4 | 1470.0 | 1746.2 |
| 40° | 2764.7 | 2805.4 | 2783.9 | 2713.8 | 2330.1 | 1829.9 | 1429.3 | 1376.1 | 1524.4 | 1616.0 | 1918.2 |
| 42.5° | 2892.6 | 2873.3 | 3000.1 | 2935.6 | 2714.9 | 2158.1 | 1703.2 | 1567.4 | 1767.7 | 1856.0 | 2176.2 |
| 45° | 2960.5 | 3034.0 | 3130.2 | 3212.8 | 3071.4 | 2567.8 | 2060.8 | 1905.7 | 2140.0 | 2252.0 | 2559.9 |
| 47.5° | 3134.7 | 3164.2 | 3320.3 | 3424.5 | 3361.1 | 3036.3 | 2604.0 | 2400.3 | 2608.5 | 2785.1 | 2998.9 |
| 50° | 3236.6 | 3197.0 | 3415.4 | 3573.8 | 3610.1 | 3424.5 | 3090.6 | 2932.2 | 3165.3 | 3390.5 | 3409.7 |
| 52.5° | 3147.2 | 3260.4 | 3478.8 | 3762.8 | 3863.5 | 3770.7 | 3662.1 | 3593.1 | 3757.2 | 3965.4 | 3872.6 |
| 55° | 2833.7 | 2910.7 | 3442.6 | 3969.9 | 4294.7 | 4251.7 | 4352.4 | 4307.2 | 4472.4 | 4693.1 | 4413.5 |
| 57.5° | 2581.4 | 2677.5 | 3144.9 | 4077.4 | 4696.5 | 4823.2 | 4950.0 | 4921.7 | 5120.8 | 5375.5 | 4871.9 |
| 60° | 2424.1 | 2479.5 | 2929.9 | 4050.3 | 4934.1 | 5413.9 | 5700.3 | 5501.1 | 5825.9 | 6020.5 | 5230.6 |
| 62.5° | 2151.3 | 2186.4 | 2616.4 | 3690.4 | 5005.4 | 5831.5 | 6317.0 | 6046.6 | 6328.3 | 6566.0 | 5488.6 |
| 65° | 1724.7 | 1819.7 | 2175.1 | 3151.7 | 4534.6 | 5908.5 | 6701.8 | 6383.8 | 6656.5 | 6812.7 | 5566.7 |
| 66° | 1569.6 | 1638.7 | 1964.6 | 2866.5 | 4266.4 | 5780.6 | 6637.3 | 6454.0 | 6704.1 | 6846.6 | 5446.8 |
| 67.5° | 1302.6 | 1362.5 | 1621.7 | 2460.3 | 3717.6 | 5498.8 | 6682.6 | 6406.4 | 6740.3 | 6653.1 | 5286.1 |
| 70° | 862.3 | 900.8 | 1109.0 | 1663.6 | 2589.3 | 4498.4 | 6198.2 | 6035.2 | 5925.5 | 5598.4 | 4132.9 |
| 72.5° | 402.9 | 458.3 | 692.6 | 1008.3 | 1518.7 | 3147.2 | 5054.1 | 4835.7 | 4155.5 | 3632.7 | 2607.4 |
| 75° | 182.2 | 207.1 | 380.2 | 578.3 | 681.3 | 1630.7 | 3260.4 | 2944.6 | 2068.7 | 1717.9 | 1141.9 |
| 77.5° | 98.5 | 112.0 | 185.6 | 275.0 | 247.8 | 571.5 | 1613.8 | 1342.2 | 651.8 | 477.6 | 331.6 |
| 80° | 75.8 | 89.4 | 155.0 | 157.3 | 91.7 | 148.2 | 599.8 | 415.3 | 163.0 | 123.4 | 79.2 |
| 82.5° | 39.6 | 56.6 | 122.2 | 101.9 | 46.4 | 60.0 | 185.6 | 115.4 | 50.9 | 40.7 | 34.0 |
| 85° | 15.8 | 24.9 | 69.0 | 67.9 | 27.2 | 20.4 | 52.1 | 35.1 | 20.4 | 17.0 | 15.8 |
| 87.5° | 1.1 | 1.1 | 37.3 | 26.0 | 17.0 | 5.7 | 7.9 | 7.9 | 10.2 | 9.1 | 11.3 |
| 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° | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 | 1199.6 |
| 2.5° | 1229.0 | 1242.6 | 1244.8 | 1282.2 | 1290.1 | 1282.2 | 1302.6 | 1299.2 | 1308.2 | 1301.4 | 1289.0 |
| 5° | 1257.3 | 1276.5 | 1313.9 | 1342.2 | 1342.2 | 1319.5 | 1301.4 | 1277.7 | 1242.6 | 1233.5 | 1226.7 |
| 7.5° | 1306.0 | 1367.1 | 1401.0 | 1382.9 | 1346.7 | 1261.8 | 1144.1 | 1058.1 | 985.7 | 958.5 | 946.1 |
| 10° | 1392.0 | 1425.9 | 1465.5 | 1392.0 | 1241.5 | 1061.5 | 863.5 | 733.3 | 631.5 | 608.8 | 591.9 |
| 12.5° | 1447.4 | 1501.7 | 1524.4 | 1342.2 | 1046.8 | 778.6 | 563.6 | 416.5 | 345.2 | 290.8 | 281.8 |
| 15° | 1519.8 | 1582.1 | 1535.7 | 1207.5 | 825.0 | 510.4 | 292.0 | 182.2 | 148.2 | 139.2 | 139.2 |
| 17.5° | 1569.6 | 1637.5 | 1489.3 | 1040.0 | 585.1 | 271.6 | 144.9 | 125.6 | 123.4 | 124.5 | 122.2 |
| 20° | 1656.8 | 1697.5 | 1419.1 | 845.4 | 349.7 | 139.2 | 116.6 | 112.0 | 109.8 | 113.2 | 110.9 |
| 22.5° | 1689.6 | 1726.9 | 1304.8 | 612.2 | 157.3 | 92.8 | 87.1 | 83.7 | 86.0 | 84.9 | 83.7 |
| 25° | 1687.3 | 1706.6 | 1117.0 | 350.8 | 46.4 | 36.2 | 32.8 | 32.8 | 30.6 | 31.7 | 30.6 |
| 27.5° | 1704.3 | 1656.8 | 906.5 | 104.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 1713.4 | 1576.4 | 645.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 1717.9 | 1534.6 | 415.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 1753.0 | 1450.8 | 177.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 1776.7 | 1343.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 1875.2 | 1309.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 2003.1 | 1246.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 2180.7 | 1152.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 2416.1 | 1096.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 2591.5 | 1009.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 2814.5 | 957.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 3079.3 | 959.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 3320.3 | 943.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 3443.7 | 806.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 3417.7 | 653.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 3327.1 | 512.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 3264.9 | 453.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3075.9 | 363.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2447.8 | 249.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1557.2 | 152.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 717.5 | 70.2 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 225.2 | 43.0 | 9.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 58.8 | 27.2 | 9.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 30.6 | 19.2 | 7.9 | 3.4 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 19.2 | 7.9 | 3.4 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.0 | 4.5 | 2.3 | 2.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 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)