

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: P482758

Luminaire Tested: **IFLD-S-SA3A-730-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482758
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

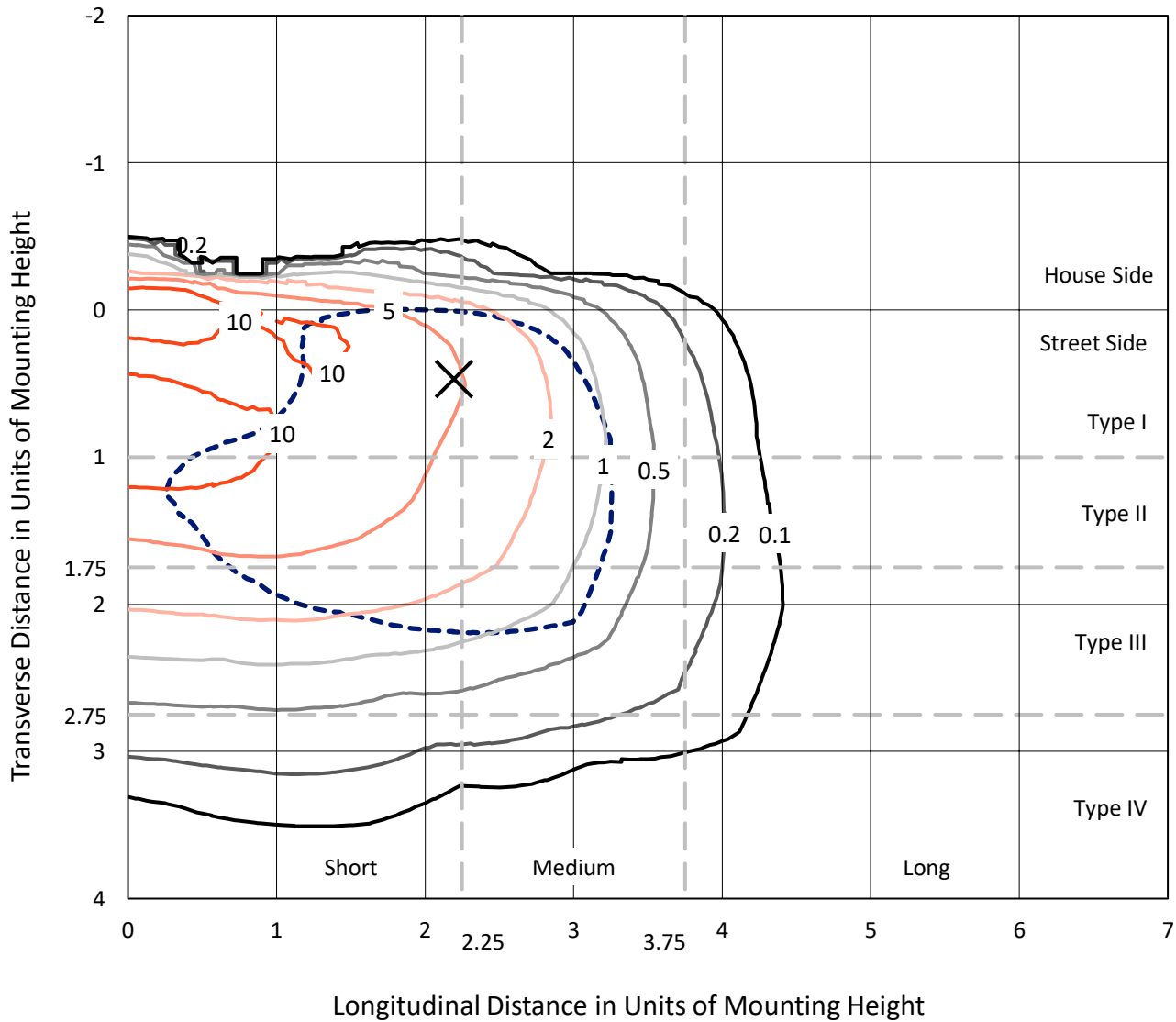
Lumens per Lamp: N/A
Luminaire Lumens: 8980.7 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
Input Voltage (V): 120
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

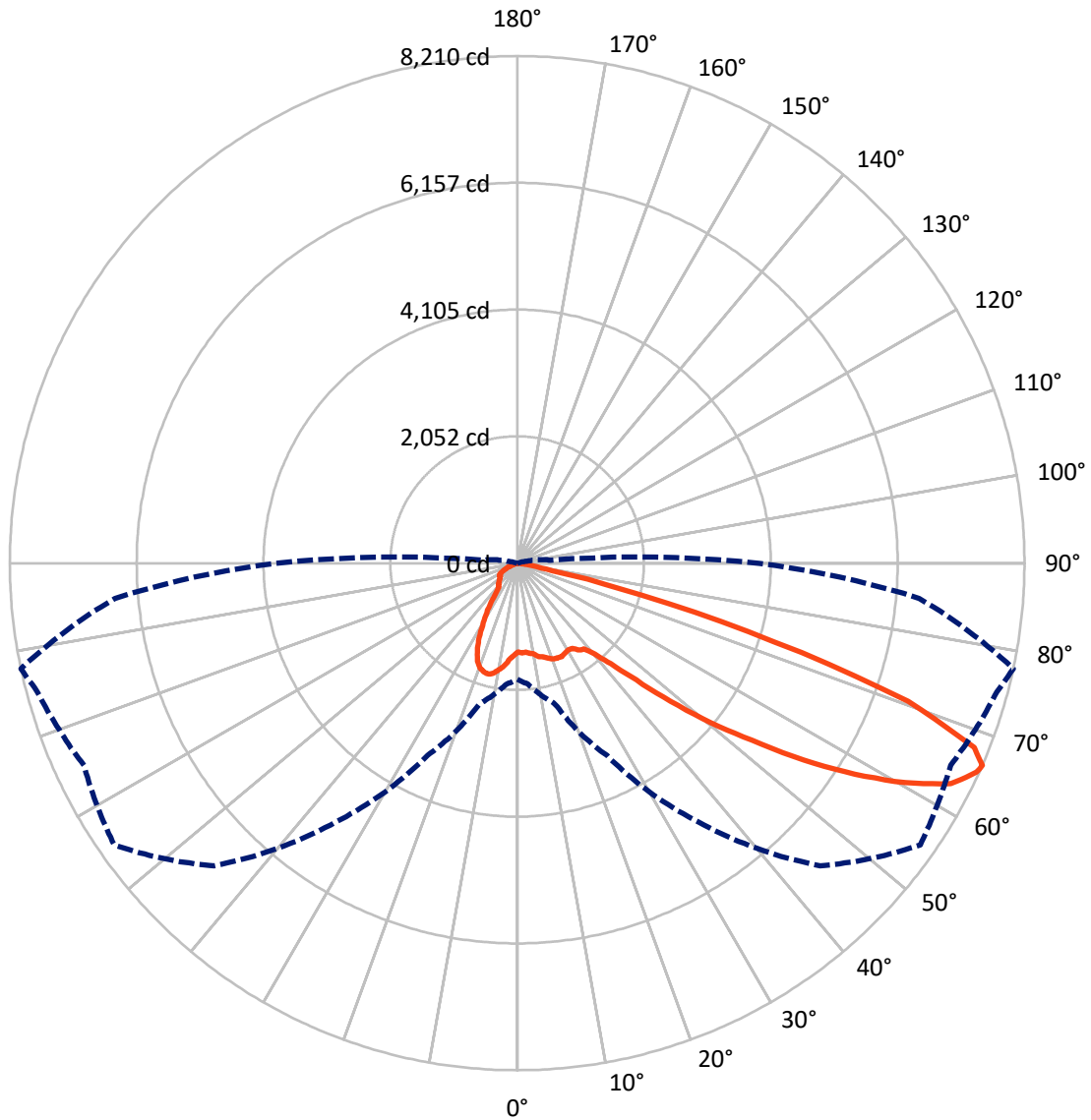
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 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 | 631.4 | 0.0 | 631.4 |
| | % Fixture | 7.0 | 0.0 | 7.0 |
| Street Side | Lumens | 8349.3 | 0.0 | 8349.3 |
| | % Fixture | 93.0 | 0.0 | 93.0 |
| Total | Lumens | 8980.7 | 0.0 | 8980.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 131.6 | 1.5 |
| 10°-20° | 297.1 | 3.3 |
| 20°-30° | 424.6 | 4.7 |
| 30°-40° | 726.8 | 8.1 |
| 40°-50° | 1311.7 | 14.6 |
| 50°-60° | 2243.3 | 25.0 |
| 60°-70° | 2761.1 | 30.7 |
| 70°-80° | 1043.8 | 11.6 |
| 80°-90° | 40.8 | 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° | 8980.7 | 100.0 |
| 0°-180° | 8980.7 | 100.0 |

Coefficient of Utilization

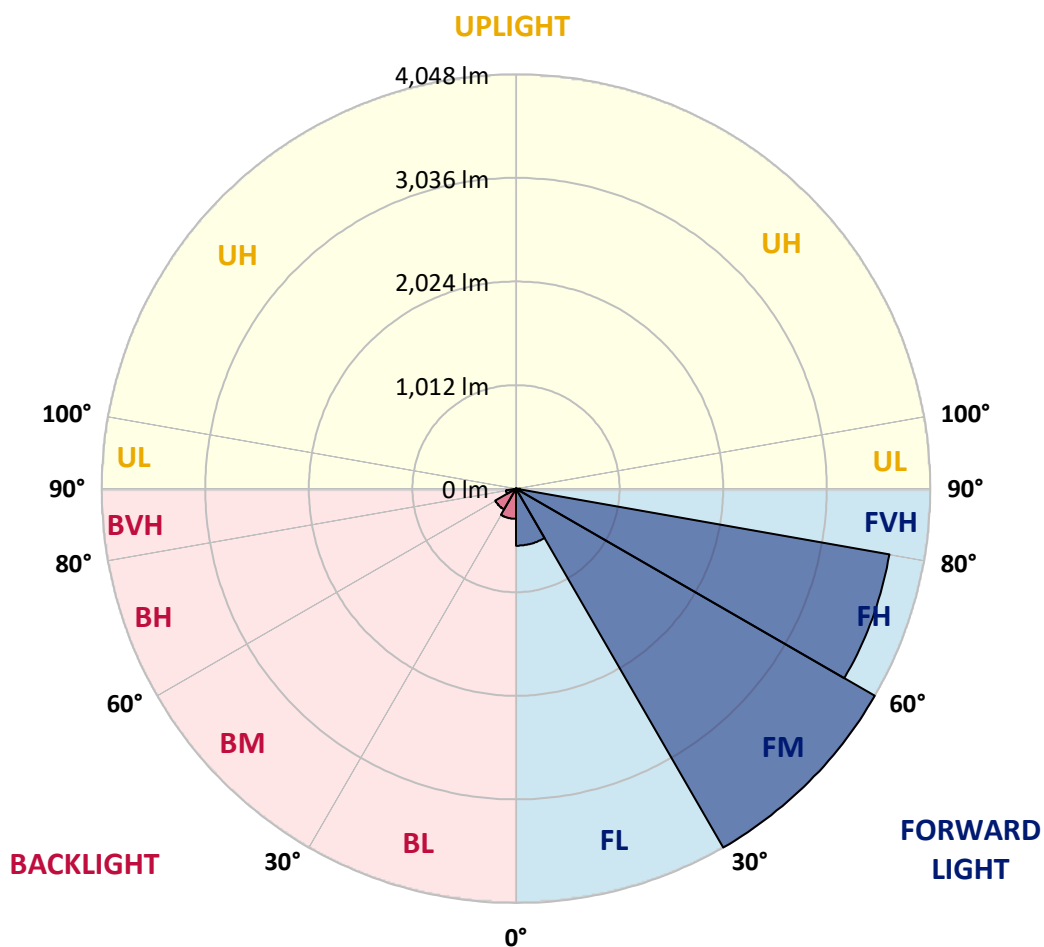


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 557.5 | 6.2 | | | |
| FM (30°-60°) | 4047.8 | 45.1 | | | |
| FH (60°-80°) | 3704.9 | 41.3 | | | G2/5000 |
| FVH (80°-90°) | 39.1 | 0.4 | | | G1/100 |
| BL (0°-30°) | 295.7 | 3.3 | B1/500 | | |
| BM (30°-60°) | 234.0 | 2.6 | B1/1000 | | |
| BH (60°-80°) | 100.0 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.6 | 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° | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 |
| 2.5° | 1323.1 | 1310.9 | 1323.1 | 1340.7 | 1350.2 | 1358.4 | 1386.8 | 1411.3 | 1437.1 | 1454.7 | 1449.3 |
| 5° | 1226.7 | 1249.8 | 1252.5 | 1257.9 | 1272.9 | 1321.7 | 1338.0 | 1380.1 | 1443.8 | 1449.3 | 1473.7 |
| 7.5° | 1150.7 | 1143.9 | 1161.6 | 1196.9 | 1234.9 | 1263.4 | 1310.9 | 1384.1 | 1450.6 | 1473.7 | 1521.2 |
| 10° | 1040.8 | 1054.4 | 1073.4 | 1108.7 | 1154.8 | 1225.4 | 1309.5 | 1390.9 | 1485.9 | 1494.1 | 1582.3 |
| 12.5° | 981.1 | 967.5 | 997.4 | 1034.0 | 1112.7 | 1177.9 | 1281.0 | 1378.7 | 1507.6 | 1552.4 | 1654.2 |
| 15° | 932.3 | 939.0 | 967.5 | 992.0 | 1057.1 | 1139.9 | 1260.6 | 1408.6 | 1544.3 | 1575.5 | 1730.2 |
| 17.5° | 911.9 | 907.8 | 929.5 | 954.0 | 1034.0 | 1127.7 | 1252.5 | 1409.9 | 1576.8 | 1617.5 | 1781.7 |
| 20° | 921.4 | 929.5 | 922.8 | 945.8 | 996.0 | 1091.0 | 1264.7 | 1435.7 | 1601.3 | 1656.9 | 1837.4 |
| 22.5° | 1070.7 | 1059.8 | 1005.5 | 962.1 | 964.8 | 1076.1 | 1255.2 | 1452.0 | 1623.0 | 1667.7 | 1875.4 |
| 25° | 1460.1 | 1401.8 | 1267.4 | 1100.5 | 990.6 | 1035.4 | 1244.4 | 1446.6 | 1618.9 | 1674.5 | 1898.4 |
| 27.5° | 1852.3 | 1802.1 | 1670.5 | 1411.3 | 1095.1 | 1019.1 | 1206.4 | 1450.6 | 1598.5 | 1650.1 | 1860.4 |
| 30° | 2266.2 | 2293.3 | 2097.9 | 1789.9 | 1369.2 | 1108.7 | 1181.9 | 1428.9 | 1585.0 | 1628.4 | 1868.6 |
| 32.5° | 2690.9 | 2680.1 | 2562.0 | 2228.2 | 1761.4 | 1306.8 | 1221.3 | 1450.6 | 1602.6 | 1644.7 | 1916.1 |
| 35° | 3023.4 | 2985.4 | 2866.0 | 2564.7 | 2085.7 | 1605.3 | 1357.0 | 1553.8 | 1680.0 | 1730.2 | 1983.9 |
| 37.5° | 3187.6 | 3203.9 | 3134.7 | 2872.8 | 2441.2 | 1882.2 | 1526.6 | 1553.8 | 1704.4 | 1762.7 | 2093.8 |
| 40° | 3315.1 | 3364.0 | 3338.2 | 3254.1 | 2794.1 | 2194.3 | 1713.9 | 1650.1 | 1827.9 | 1937.8 | 2300.1 |
| 42.5° | 3468.5 | 3445.4 | 3597.4 | 3520.0 | 3255.4 | 2587.8 | 2042.3 | 1879.4 | 2119.6 | 2225.5 | 2609.5 |
| 45° | 3549.9 | 3638.1 | 3753.4 | 3852.5 | 3682.9 | 3079.0 | 2471.1 | 2285.2 | 2566.1 | 2700.4 | 3069.5 |
| 47.5° | 3758.9 | 3794.2 | 3981.4 | 4106.3 | 4030.3 | 3640.8 | 3122.4 | 2878.2 | 3127.9 | 3339.6 | 3596.0 |
| 50° | 3881.0 | 3833.5 | 4095.4 | 4285.4 | 4328.8 | 4106.3 | 3705.9 | 3516.0 | 3795.5 | 4065.6 | 4088.6 |
| 52.5° | 3773.8 | 3909.5 | 4171.4 | 4512.0 | 4632.8 | 4521.5 | 4391.2 | 4308.5 | 4505.2 | 4754.9 | 4643.6 |
| 55° | 3397.9 | 3490.2 | 4128.0 | 4760.3 | 5149.8 | 5098.2 | 5219.0 | 5164.7 | 5362.8 | 5627.5 | 5292.3 |
| 57.5° | 3095.3 | 3210.6 | 3771.1 | 4889.2 | 5631.5 | 5783.5 | 5935.5 | 5901.6 | 6140.4 | 6445.7 | 5841.9 |
| 60° | 2906.7 | 2973.2 | 3513.3 | 4856.7 | 5916.5 | 6491.9 | 6835.2 | 6596.3 | 6985.8 | 7219.2 | 6272.0 |
| 62.5° | 2579.6 | 2621.7 | 3137.4 | 4425.2 | 6002.0 | 6992.6 | 7574.7 | 7250.4 | 7588.3 | 7873.3 | 6581.4 |
| 65° | 2068.1 | 2182.0 | 2608.1 | 3779.2 | 5437.5 | 7084.9 | 8036.1 | 7654.8 | 7981.8 | 8169.1 | 6675.1 |
| 66° | 1882.2 | 1964.9 | 2355.7 | 3437.3 | 5115.9 | 6931.5 | 7958.8 | 7738.9 | 8038.8 | 8209.8 | 6531.2 |
| 67.5° | 1561.9 | 1633.8 | 1944.6 | 2950.1 | 4457.7 | 6593.6 | 8013.0 | 7681.9 | 8082.3 | 7977.8 | 6338.5 |
| 70° | 1034.0 | 1080.2 | 1329.9 | 1994.8 | 3104.8 | 5394.1 | 7432.3 | 7236.8 | 7105.2 | 6713.0 | 4955.7 |
| 72.5° | 483.1 | 549.6 | 830.5 | 1209.1 | 1821.1 | 3773.8 | 6060.3 | 5798.4 | 4982.9 | 4355.9 | 3126.5 |
| 75° | 218.5 | 248.3 | 455.9 | 693.4 | 816.9 | 1955.4 | 3909.5 | 3530.9 | 2480.6 | 2059.9 | 1369.2 |
| 77.5° | 118.1 | 134.3 | 222.5 | 329.7 | 297.2 | 685.3 | 1935.1 | 1609.4 | 781.6 | 572.7 | 397.6 |
| 80° | 90.9 | 107.2 | 185.9 | 188.6 | 109.9 | 177.8 | 719.2 | 498.0 | 195.4 | 147.9 | 95.0 |
| 82.5° | 47.5 | 67.8 | 146.6 | 122.1 | 55.6 | 71.9 | 222.5 | 138.4 | 61.1 | 48.9 | 40.7 |
| 85° | 19.0 | 29.9 | 82.8 | 81.4 | 32.6 | 24.4 | 62.4 | 42.1 | 24.4 | 20.4 | 19.0 |
| 87.5° | 1.4 | 1.4 | 44.8 | 31.2 | 20.4 | 6.8 | 9.5 | 9.5 | 12.2 | 10.9 | 13.6 |
| 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° | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 | 1438.4 |
| 2.5° | 1473.7 | 1490.0 | 1492.7 | 1537.5 | 1547.0 | 1537.5 | 1561.9 | 1557.8 | 1568.7 | 1560.5 | 1545.6 |
| 5° | 1507.6 | 1530.7 | 1575.5 | 1609.4 | 1609.4 | 1582.3 | 1560.5 | 1532.0 | 1490.0 | 1479.1 | 1471.0 |
| 7.5° | 1566.0 | 1639.2 | 1680.0 | 1658.2 | 1614.8 | 1513.0 | 1371.9 | 1268.8 | 1181.9 | 1149.4 | 1134.4 |
| 10° | 1669.1 | 1709.8 | 1757.3 | 1669.1 | 1488.6 | 1272.9 | 1035.4 | 879.3 | 757.2 | 730.1 | 709.7 |
| 12.5° | 1735.6 | 1800.7 | 1827.9 | 1609.4 | 1255.2 | 933.6 | 675.8 | 499.4 | 413.9 | 348.7 | 337.9 |
| 15° | 1822.4 | 1897.1 | 1841.4 | 1447.9 | 989.2 | 612.0 | 350.1 | 218.5 | 177.8 | 166.9 | 166.9 |
| 17.5° | 1882.2 | 1963.6 | 1785.8 | 1247.1 | 701.6 | 325.7 | 173.7 | 150.6 | 147.9 | 149.3 | 146.6 |
| 20° | 1986.6 | 2035.5 | 1701.7 | 1013.7 | 419.3 | 166.9 | 139.8 | 134.3 | 131.6 | 135.7 | 133.0 |
| 22.5° | 2026.0 | 2070.8 | 1564.6 | 734.1 | 188.6 | 111.3 | 104.5 | 100.4 | 103.1 | 101.8 | 100.4 |
| 25° | 2023.3 | 2046.3 | 1339.4 | 420.7 | 55.6 | 43.4 | 39.4 | 39.4 | 36.6 | 38.0 | 36.6 |
| 27.5° | 2043.6 | 1986.6 | 1087.0 | 124.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 2054.5 | 1890.3 | 773.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 2059.9 | 1840.1 | 498.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 2102.0 | 1739.7 | 213.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 2130.5 | 1610.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 2248.5 | 1570.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 2401.9 | 1494.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 2614.9 | 1381.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 2897.2 | 1314.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 3107.5 | 1210.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 3374.8 | 1148.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 3692.4 | 1150.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 3981.4 | 1131.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 4129.3 | 967.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 4098.1 | 783.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 3989.6 | 614.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 3914.9 | 544.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3688.3 | 435.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2935.2 | 298.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1867.2 | 183.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 860.3 | 84.1 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 270.0 | 51.6 | 10.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 70.6 | 32.6 | 10.9 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 36.6 | 23.1 | 9.5 | 4.1 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 23.1 | 9.5 | 4.1 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 20.4 | 5.4 | 2.7 | 2.7 | 1.4 | 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)