

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: P482565

Luminaire Tested: **IFLD-S-SA3C-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482565
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

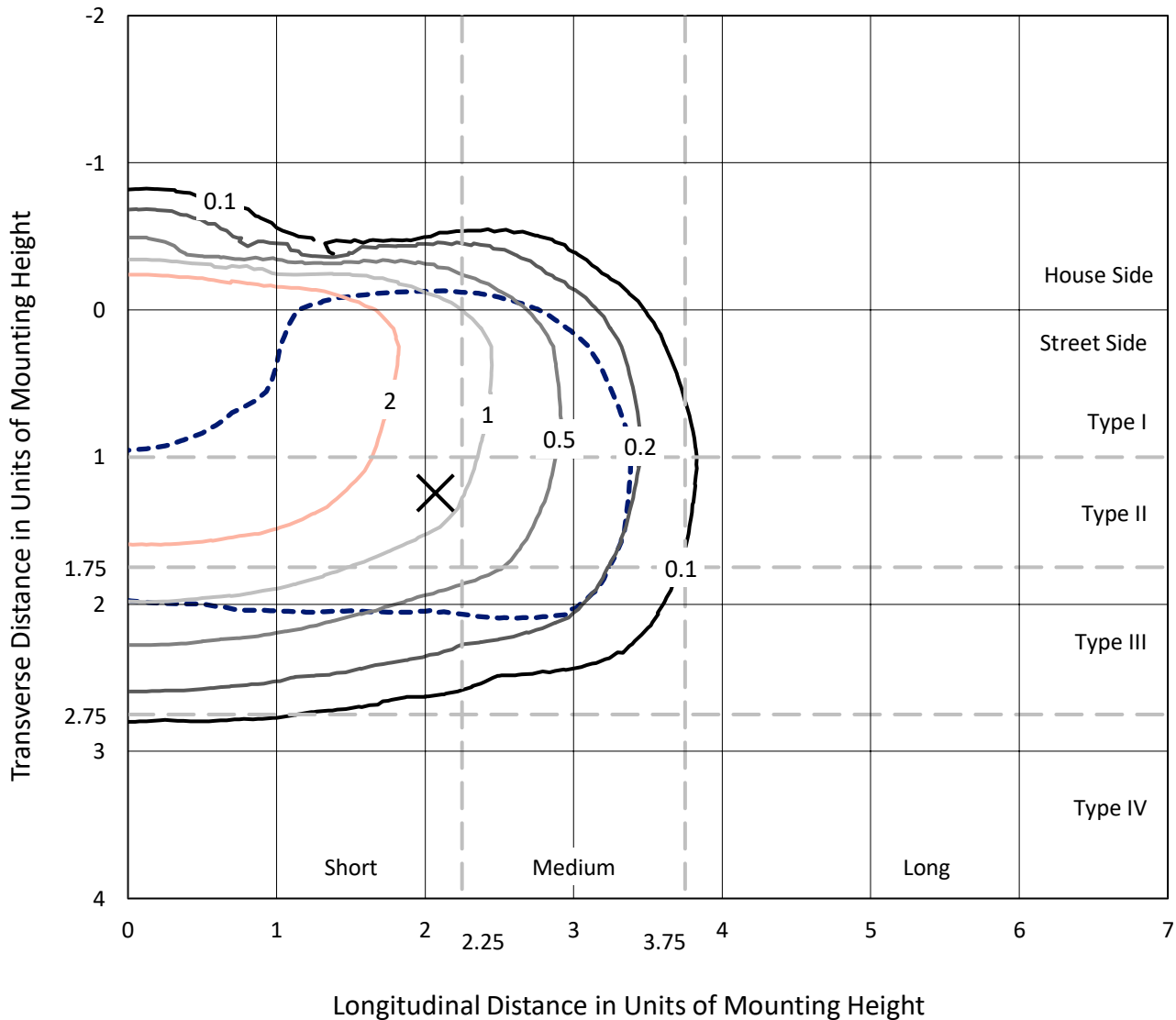
Lumens per Lamp: N/A
Luminaire Lumens: 11554 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
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

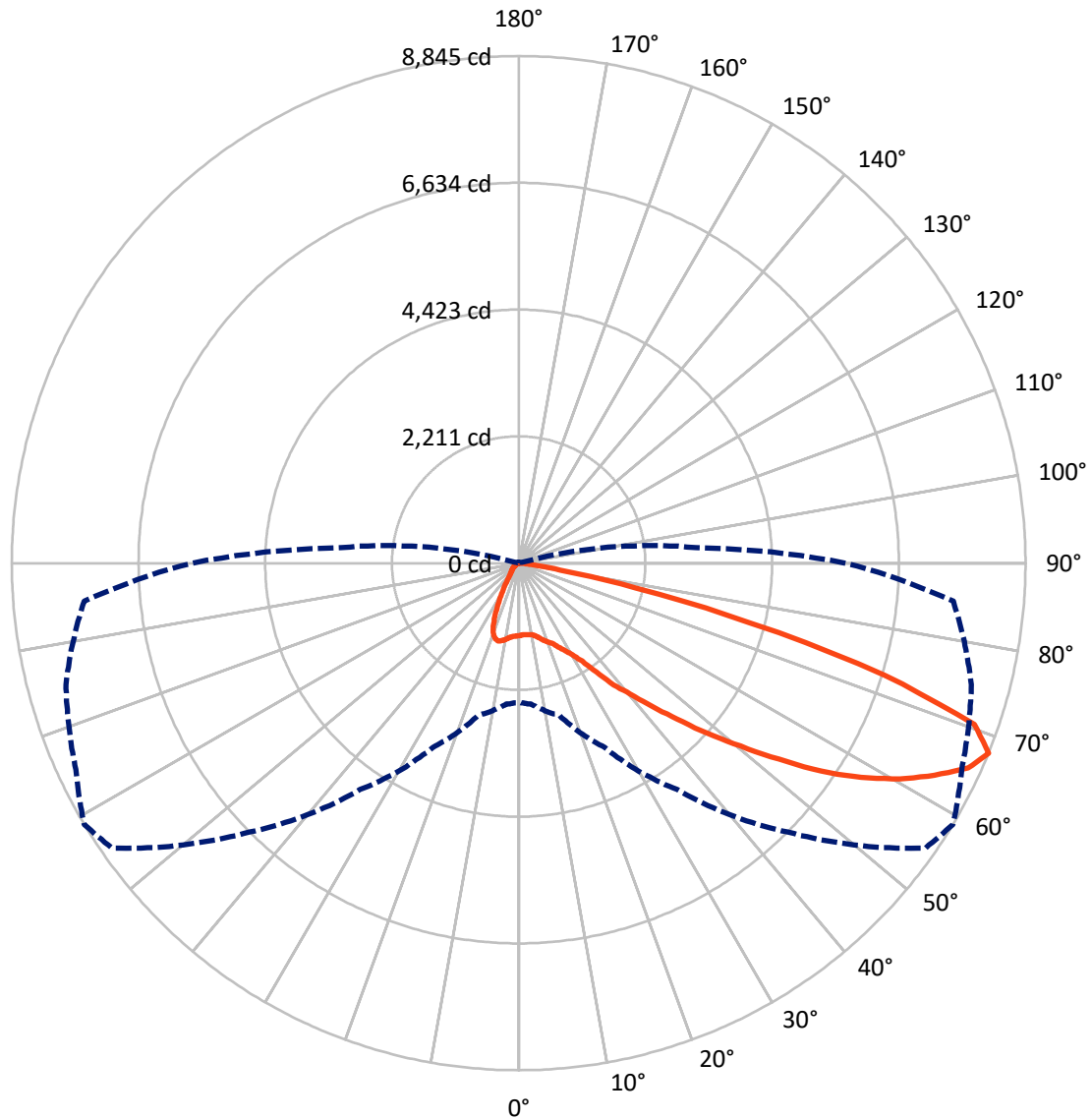
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1357.2 | 0.0 | 1357.2 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 10196.8 | 0.0 | 10196.8 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 11554.0 | 0.0 | 11554.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 120.4 | 1.0 |
| 10°-20° | 347.7 | 3.0 |
| 20°-30° | 607.7 | 5.3 |
| 30°-40° | 1070.0 | 9.3 |
| 40°-50° | 1891.4 | 16.4 |
| 50°-60° | 2994.7 | 25.9 |
| 60°-70° | 3322.0 | 28.8 |
| 70°-80° | 1152.7 | 10.0 |
| 80°-90° | 47.5 | 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° | 11554.0 | 100.0 |
| 0°-180° | 11554.0 | 100.0 |

Coefficient of Utilization

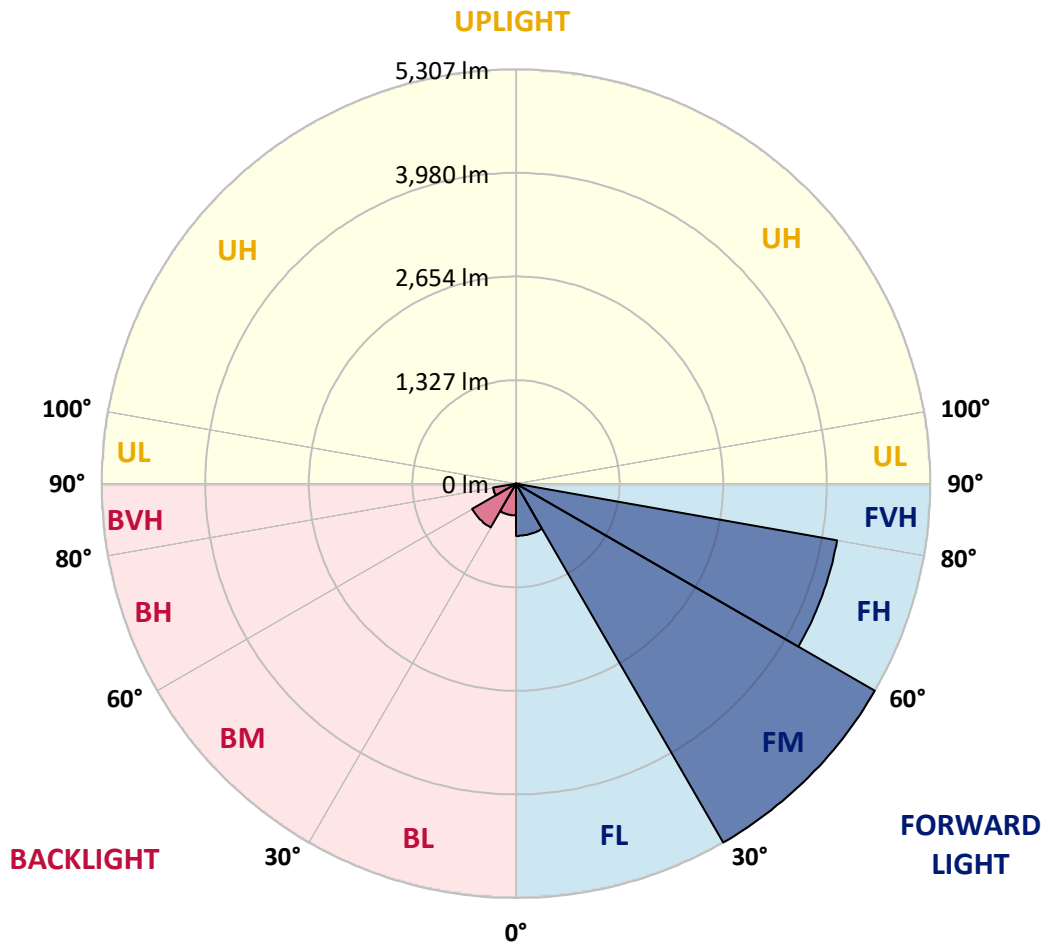


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 669.1 | 5.8 | | | |
| FM (30°-60°) | 5307.2 | 45.9 | | | |
| FH (60°-80°) | 4176.1 | 36.1 | | | G2/5000 |
| FVH (80°-90°) | 44.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 406.8 | 3.5 | B1/500 | | |
| BM (30°-60°) | 648.9 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 298.5 | 2.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.1 | 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° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 |
| 2.5° | 1230.6 | 1213.0 | 1229.0 | 1230.6 | 1232.1 | 1246.5 | 1262.5 | 1251.3 | 1249.7 | 1262.5 | 1273.6 |
| 5° | 1181.1 | 1173.1 | 1192.2 | 1201.8 | 1217.8 | 1230.6 | 1256.1 | 1257.7 | 1259.3 | 1273.6 | 1292.8 |
| 7.5° | 1160.3 | 1141.2 | 1163.5 | 1174.7 | 1185.9 | 1216.2 | 1246.5 | 1262.5 | 1284.8 | 1302.4 | 1321.5 |
| 10° | 1118.8 | 1133.2 | 1139.6 | 1158.7 | 1190.7 | 1225.8 | 1262.5 | 1270.5 | 1319.9 | 1334.3 | 1380.6 |
| 12.5° | 1133.2 | 1142.8 | 1155.5 | 1160.3 | 1195.4 | 1248.1 | 1297.6 | 1300.8 | 1351.9 | 1414.1 | 1438.0 |
| 15° | 1169.9 | 1163.5 | 1168.3 | 1174.7 | 1216.2 | 1259.3 | 1339.1 | 1353.4 | 1401.3 | 1471.6 | 1530.6 |
| 17.5° | 1248.1 | 1236.9 | 1229.0 | 1227.4 | 1236.9 | 1276.8 | 1371.0 | 1414.1 | 1458.8 | 1554.6 | 1584.9 |
| 20° | 1444.4 | 1434.8 | 1402.9 | 1319.9 | 1291.2 | 1307.2 | 1409.3 | 1470.0 | 1532.2 | 1639.1 | 1688.6 |
| 22.5° | 1742.9 | 1752.5 | 1677.4 | 1560.9 | 1441.2 | 1379.0 | 1470.0 | 1522.6 | 1621.6 | 1757.2 | 1801.9 |
| 25° | 2095.6 | 2076.5 | 1985.5 | 1849.8 | 1661.5 | 1514.6 | 1567.3 | 1626.4 | 1747.7 | 1859.4 | 1877.0 |
| 27.5° | 2371.7 | 2349.4 | 2279.2 | 2114.8 | 1952.0 | 1714.2 | 1695.0 | 1731.7 | 1875.4 | 1975.9 | 1956.8 |
| 30° | 2644.7 | 2652.6 | 2604.8 | 2410.0 | 2208.9 | 1958.4 | 1837.1 | 1853.0 | 1963.1 | 2092.4 | 2049.3 |
| 32.5° | 2992.6 | 2973.4 | 2946.3 | 2775.5 | 2537.7 | 2269.6 | 2062.1 | 2036.6 | 2084.4 | 2255.2 | 2204.1 |
| 35° | 3316.6 | 3305.4 | 3268.7 | 3096.3 | 2888.8 | 2596.8 | 2394.1 | 2336.6 | 2325.4 | 2515.4 | 2426.0 |
| 37.5° | 3599.1 | 3579.9 | 3524.1 | 3413.9 | 3212.8 | 2967.1 | 2745.2 | 2694.1 | 2692.5 | 2823.4 | 2651.0 |
| 40° | 3836.9 | 3851.3 | 3844.9 | 3723.6 | 3613.5 | 3417.1 | 3077.2 | 2995.8 | 2989.4 | 3059.6 | 2959.1 |
| 42.5° | 4144.9 | 4178.5 | 4160.9 | 4137.0 | 4004.5 | 3927.9 | 3543.2 | 3418.7 | 3362.9 | 3506.5 | 3415.5 |
| 45° | 4611.0 | 4623.8 | 4634.9 | 4575.9 | 4443.4 | 4459.4 | 4025.2 | 3876.8 | 3862.4 | 4076.3 | 3872.0 |
| 47.5° | 5046.7 | 5013.2 | 5091.4 | 5094.6 | 5088.2 | 5014.8 | 4545.5 | 4435.4 | 4454.6 | 4617.4 | 4406.7 |
| 50° | 5155.2 | 5241.4 | 5456.9 | 5496.8 | 5600.5 | 5667.6 | 5123.3 | 5013.2 | 5045.1 | 5230.3 | 4989.2 |
| 52.5° | 5239.8 | 5370.7 | 5586.2 | 5878.2 | 6157.6 | 6317.2 | 5769.7 | 5680.3 | 5678.7 | 5792.1 | 5460.1 |
| 55° | 5388.3 | 5468.1 | 5654.8 | 6057.0 | 6588.5 | 6850.2 | 6548.6 | 6404.9 | 6275.7 | 6355.5 | 5948.5 |
| 57.5° | 5373.9 | 5404.2 | 5694.7 | 6191.1 | 6930.0 | 7405.7 | 7188.6 | 7051.3 | 6885.4 | 6839.1 | 6510.3 |
| 60° | 5121.7 | 5193.5 | 5519.1 | 6100.1 | 7140.7 | 7838.2 | 7785.5 | 7645.1 | 7359.4 | 7250.8 | 6941.2 |
| 62.5° | 4622.2 | 4717.9 | 4973.3 | 5780.9 | 6834.3 | 7860.5 | 8197.3 | 8144.6 | 7825.4 | 7630.7 | 7503.0 |
| 65° | 3745.9 | 3790.6 | 4084.3 | 4970.1 | 6141.6 | 7517.4 | 8684.1 | 8618.7 | 8325.0 | 8034.5 | 7791.9 |
| 67.5° | 2426.0 | 2469.1 | 2751.6 | 3548.0 | 4823.3 | 6631.6 | 8664.9 | 8845.3 | 8527.7 | 8178.2 | 7611.6 |
| 70° | 1146.0 | 1134.8 | 1398.1 | 1971.1 | 3089.9 | 5064.3 | 8079.2 | 8435.1 | 8165.4 | 7413.6 | 6321.9 |
| 72.5° | 349.5 | 379.9 | 581.0 | 873.0 | 1586.5 | 3158.6 | 6333.1 | 6666.7 | 6582.1 | 5922.9 | 4220.0 |
| 75° | 154.8 | 167.6 | 228.2 | 357.5 | 643.2 | 1296.0 | 3911.9 | 4208.8 | 4172.1 | 3493.8 | 1926.4 |
| 77.5° | 99.0 | 108.5 | 143.6 | 204.3 | 292.1 | 411.8 | 1801.9 | 2090.8 | 2027.0 | 1227.4 | 504.4 |
| 80° | 70.2 | 75.0 | 102.1 | 140.5 | 183.5 | 169.2 | 620.9 | 737.4 | 707.0 | 333.6 | 135.7 |
| 82.5° | 38.3 | 41.5 | 75.0 | 103.7 | 122.9 | 86.2 | 174.0 | 217.1 | 226.6 | 148.4 | 65.4 |
| 85° | 14.4 | 17.6 | 46.3 | 73.4 | 63.8 | 39.9 | 51.1 | 62.2 | 81.4 | 81.4 | 30.3 |
| 87.5° | 0.0 | 1.6 | 19.2 | 31.9 | 16.0 | 11.2 | 14.4 | 17.6 | 22.3 | 38.3 | 11.2 |
| 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° | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 | 1267.3 |
| 2.5° | 1281.6 | 1270.5 | 1275.2 | 1283.2 | 1265.7 | 1275.2 | 1256.1 | 1270.5 | 1275.2 | 1256.1 | 1265.7 |
| 5° | 1297.6 | 1308.8 | 1302.4 | 1289.6 | 1278.4 | 1281.6 | 1276.8 | 1265.7 | 1275.2 | 1278.4 | 1272.1 |
| 7.5° | 1343.9 | 1331.1 | 1334.3 | 1319.9 | 1297.6 | 1296.0 | 1265.7 | 1257.7 | 1260.9 | 1264.1 | 1252.9 |
| 10° | 1387.0 | 1394.9 | 1379.0 | 1367.8 | 1331.1 | 1307.2 | 1265.7 | 1221.0 | 1216.2 | 1197.0 | 1213.0 |
| 12.5° | 1463.6 | 1444.4 | 1438.0 | 1401.3 | 1364.6 | 1284.8 | 1195.4 | 1126.8 | 1069.4 | 1048.6 | 1027.9 |
| 15° | 1527.4 | 1524.2 | 1513.1 | 1457.2 | 1372.6 | 1227.4 | 1058.2 | 898.6 | 788.4 | 719.8 | 710.2 |
| 17.5° | 1615.2 | 1600.8 | 1580.1 | 1492.3 | 1313.5 | 1077.3 | 788.4 | 587.3 | 477.2 | 434.1 | 418.2 |
| 20° | 1682.2 | 1671.1 | 1642.3 | 1484.3 | 1206.6 | 802.8 | 488.4 | 373.5 | 346.3 | 338.4 | 340.0 |
| 22.5° | 1779.6 | 1744.5 | 1690.2 | 1444.4 | 1011.9 | 534.7 | 351.1 | 333.6 | 328.8 | 322.4 | 324.0 |
| 25° | 1864.2 | 1832.3 | 1718.9 | 1375.8 | 721.4 | 354.3 | 325.6 | 316.0 | 308.0 | 300.1 | 298.5 |
| 27.5° | 1939.2 | 1899.3 | 1749.3 | 1235.3 | 451.7 | 304.8 | 301.7 | 290.5 | 274.5 | 261.8 | 257.0 |
| 30° | 2012.6 | 1966.3 | 1757.2 | 972.0 | 304.8 | 276.1 | 268.1 | 250.6 | 229.8 | 212.3 | 209.1 |
| 32.5° | 2135.5 | 2079.7 | 1746.1 | 694.3 | 263.3 | 245.8 | 228.2 | 207.5 | 177.2 | 162.8 | 159.6 |
| 35° | 2327.0 | 2242.4 | 1731.7 | 408.6 | 236.2 | 217.1 | 189.9 | 162.8 | 140.5 | 126.1 | 122.9 |
| 37.5° | 2547.3 | 2400.5 | 1690.2 | 272.9 | 217.1 | 191.5 | 156.4 | 129.3 | 110.1 | 99.0 | 95.8 |
| 40° | 2874.5 | 2631.9 | 1530.6 | 223.4 | 193.1 | 162.8 | 126.1 | 102.1 | 87.8 | 79.8 | 76.6 |
| 42.5° | 3235.2 | 2896.8 | 1284.8 | 201.1 | 170.8 | 138.9 | 100.6 | 83.0 | 71.8 | 63.8 | 63.8 |
| 45° | 3667.7 | 3172.9 | 991.1 | 183.5 | 151.6 | 114.9 | 83.0 | 67.0 | 57.5 | 51.1 | 47.9 |
| 47.5° | 4149.7 | 3423.5 | 668.7 | 166.0 | 127.7 | 94.2 | 68.6 | 51.1 | 41.5 | 36.7 | 36.7 |
| 50° | 4580.7 | 3645.4 | 426.1 | 145.2 | 111.7 | 78.2 | 55.9 | 41.5 | 33.5 | 27.1 | 25.5 |
| 52.5° | 4971.7 | 3814.6 | 293.7 | 127.7 | 95.8 | 63.8 | 46.3 | 33.5 | 25.5 | 20.7 | 20.7 |
| 55° | 5372.3 | 3900.7 | 217.1 | 110.1 | 83.0 | 54.3 | 38.3 | 30.3 | 22.3 | 17.6 | 16.0 |
| 57.5° | 5701.1 | 3937.5 | 166.0 | 95.8 | 70.2 | 43.1 | 33.5 | 25.5 | 19.2 | 14.4 | 12.8 |
| 60° | 5982.0 | 3919.9 | 129.3 | 79.8 | 55.9 | 36.7 | 28.7 | 20.7 | 16.0 | 11.2 | 9.6 |
| 62.5° | 6146.4 | 3814.6 | 102.1 | 68.6 | 44.7 | 31.9 | 23.9 | 17.6 | 11.2 | 8.0 | 6.4 |
| 65° | 6149.6 | 3591.1 | 79.8 | 51.1 | 33.5 | 27.1 | 20.7 | 14.4 | 8.0 | 3.2 | 1.6 |
| 67.5° | 5709.1 | 3107.5 | 63.8 | 39.9 | 27.1 | 20.7 | 16.0 | 11.2 | 3.2 | 0.0 | 0.0 |
| 70° | 4465.7 | 2351.0 | 52.7 | 31.9 | 22.3 | 17.6 | 11.2 | 6.4 | 1.6 | 0.0 | 0.0 |
| 72.5° | 2845.8 | 1407.7 | 43.1 | 25.5 | 19.2 | 12.8 | 8.0 | 4.8 | 0.0 | 0.0 | 0.0 |
| 75° | 1190.7 | 434.1 | 33.5 | 22.3 | 14.4 | 9.6 | 6.4 | 1.6 | 0.0 | 0.0 | 0.0 |
| 77.5° | 306.4 | 137.3 | 27.1 | 19.2 | 14.4 | 8.0 | 4.8 | 1.6 | 0.0 | 0.0 | 0.0 |
| 80° | 91.0 | 51.1 | 22.3 | 16.0 | 11.2 | 6.4 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 41.5 | 30.3 | 19.2 | 14.4 | 9.6 | 6.4 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 16.0 | 9.6 | 9.6 | 8.0 | 8.0 | 4.8 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.4 | 3.2 | 3.2 | 3.2 | 1.6 | 1.6 | 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)