

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: P482560

Luminaire Tested: **IFLD-S-SA2C-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482560
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-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

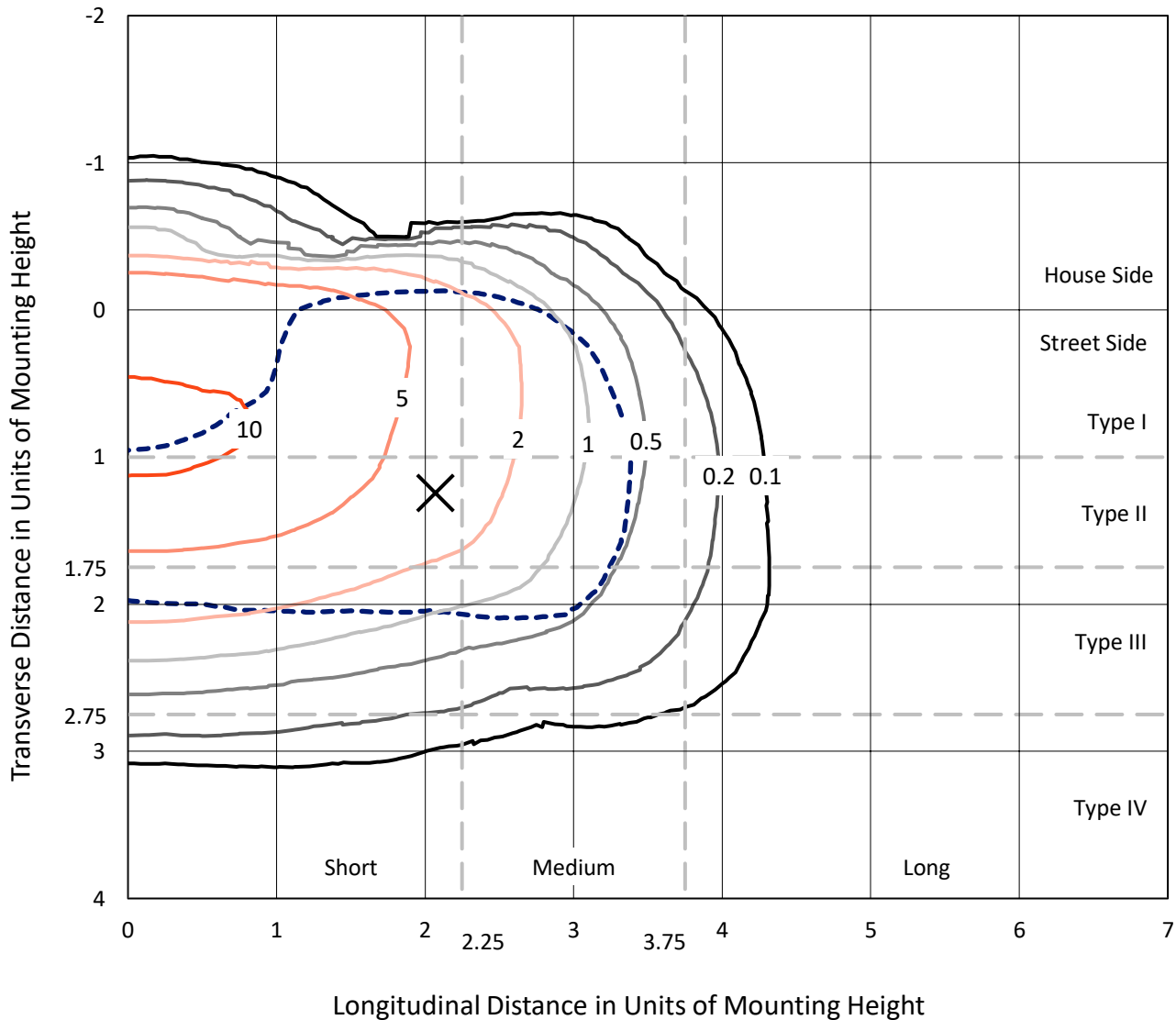
Lumens per Lamp: N/A
Luminaire Lumens: 7752.9 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

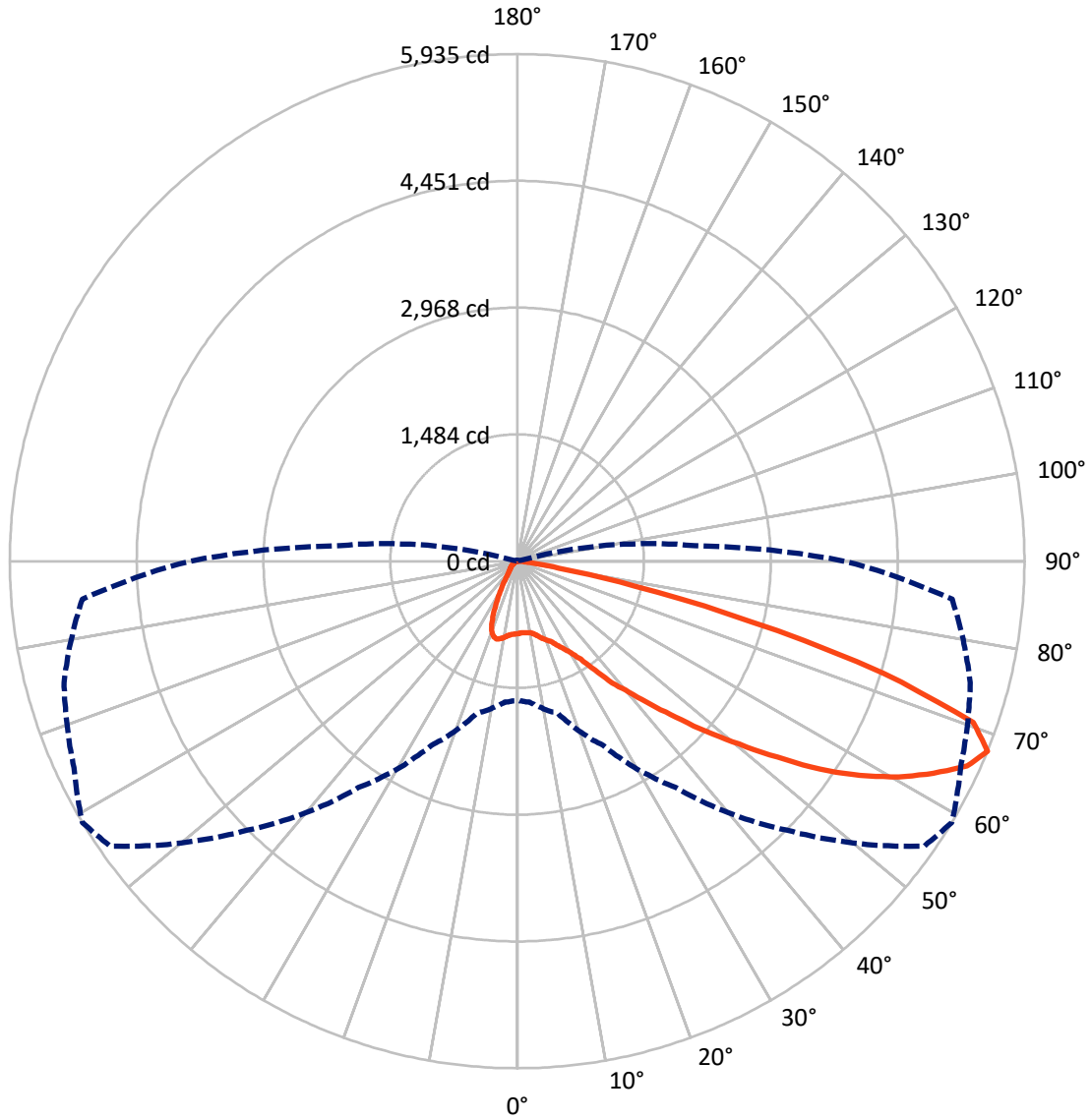
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 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 | 910.7 | 0.0 | 910.7 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 6842.2 | 0.0 | 6842.2 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 7752.9 | 0.0 | 7752.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.8 | 1.0 |
| 10°-20° | 233.3 | 3.0 |
| 20°-30° | 407.8 | 5.3 |
| 30°-40° | 718.0 | 9.3 |
| 40°-50° | 1269.1 | 16.4 |
| 50°-60° | 2009.5 | 25.9 |
| 60°-70° | 2229.1 | 28.8 |
| 70°-80° | 773.4 | 10.0 |
| 80°-90° | 31.8 | 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° | 7752.9 | 100.0 |
| 0°-180° | 7752.9 | 100.0 |

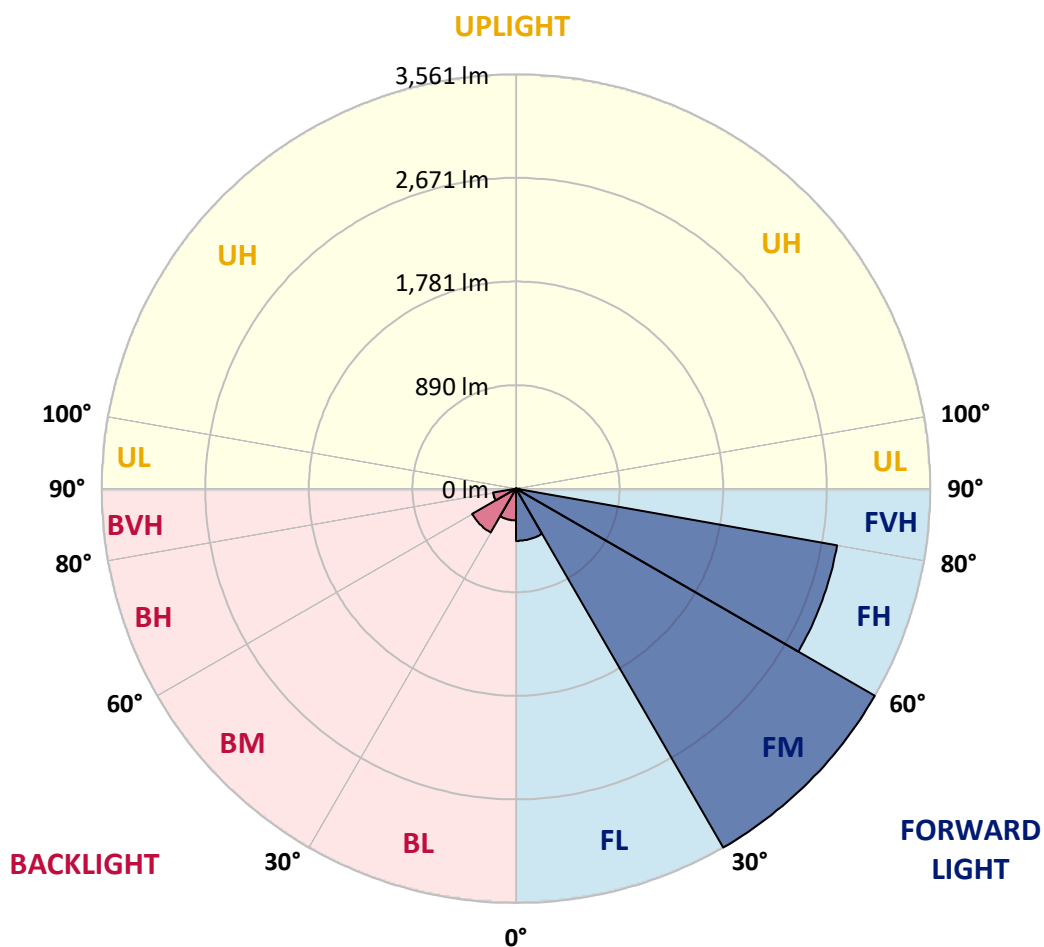


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 448.9 | 5.8 | | | |
| FM (30°-60°) | 3561.2 | 45.9 | | | |
| FH (60°-80°) | 2802.2 | 36.1 | | | G2/5000 |
| FVH (80°-90°) | 29.8 | 0.4 | | | G1/100 |
| BL (0°-30°) | 272.9 | 3.5 | B1/500 | | |
| BM (30°-60°) | 435.4 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 200.3 | 2.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.1 | 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° | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 |
| 2.5° | 825.7 | 813.9 | 824.6 | 825.7 | 826.8 | 836.4 | 847.1 | 839.6 | 838.6 | 847.1 | 854.6 |
| 5° | 792.5 | 787.2 | 800.0 | 806.4 | 817.2 | 825.7 | 842.9 | 843.9 | 845.0 | 854.6 | 867.5 |
| 7.5° | 778.6 | 765.7 | 780.7 | 788.2 | 795.7 | 816.1 | 836.4 | 847.1 | 862.1 | 873.9 | 886.8 |
| 10° | 750.8 | 760.4 | 764.7 | 777.5 | 798.9 | 822.5 | 847.1 | 852.5 | 885.7 | 895.3 | 926.4 |
| 12.5° | 760.4 | 766.8 | 775.4 | 778.6 | 802.2 | 837.5 | 870.7 | 872.8 | 907.1 | 948.9 | 964.9 |
| 15° | 785.0 | 780.7 | 784.0 | 788.2 | 816.1 | 845.0 | 898.5 | 908.2 | 940.3 | 987.4 | 1027.1 |
| 17.5° | 837.5 | 830.0 | 824.6 | 823.6 | 830.0 | 856.8 | 920.0 | 948.9 | 978.9 | 1043.1 | 1063.5 |
| 20° | 969.2 | 962.8 | 941.4 | 885.7 | 866.4 | 877.1 | 945.7 | 986.4 | 1028.1 | 1099.9 | 1133.1 |
| 22.5° | 1169.5 | 1175.9 | 1125.6 | 1047.4 | 967.1 | 925.3 | 986.4 | 1021.7 | 1088.1 | 1179.1 | 1209.1 |
| 25° | 1406.2 | 1393.3 | 1332.3 | 1241.3 | 1114.9 | 1016.4 | 1051.7 | 1091.3 | 1172.7 | 1247.7 | 1259.5 |
| 27.5° | 1591.5 | 1576.5 | 1529.3 | 1419.0 | 1309.8 | 1150.2 | 1137.4 | 1162.0 | 1258.4 | 1325.9 | 1313.0 |
| 30° | 1774.6 | 1780.0 | 1747.8 | 1617.2 | 1482.2 | 1314.1 | 1232.7 | 1243.4 | 1317.3 | 1404.0 | 1375.1 |
| 32.5° | 2008.1 | 1995.2 | 1977.0 | 1862.4 | 1702.8 | 1522.9 | 1383.7 | 1366.6 | 1398.7 | 1513.3 | 1479.0 |
| 35° | 2225.5 | 2218.0 | 2193.3 | 2077.7 | 1938.5 | 1742.5 | 1606.5 | 1567.9 | 1560.4 | 1687.8 | 1627.9 |
| 37.5° | 2415.0 | 2402.2 | 2364.7 | 2290.8 | 2155.9 | 1990.9 | 1842.1 | 1807.8 | 1806.7 | 1894.5 | 1778.9 |
| 40° | 2574.6 | 2584.3 | 2580.0 | 2498.6 | 2424.7 | 2292.9 | 2064.8 | 2010.2 | 2005.9 | 2053.1 | 1985.6 |
| 42.5° | 2781.3 | 2803.8 | 2792.0 | 2776.0 | 2687.1 | 2635.7 | 2377.6 | 2294.0 | 2256.5 | 2352.9 | 2291.9 |
| 45° | 3094.0 | 3102.6 | 3110.1 | 3070.5 | 2981.6 | 2992.3 | 2701.0 | 2601.4 | 2591.7 | 2735.3 | 2598.2 |
| 47.5° | 3386.4 | 3363.9 | 3416.4 | 3418.5 | 3414.3 | 3365.0 | 3050.1 | 2976.2 | 2989.1 | 3098.3 | 2956.9 |
| 50° | 3459.2 | 3517.1 | 3661.6 | 3688.4 | 3758.0 | 3803.0 | 3437.8 | 3363.9 | 3385.3 | 3509.6 | 3347.9 |
| 52.5° | 3516.0 | 3603.8 | 3748.4 | 3944.4 | 4131.8 | 4238.9 | 3871.6 | 3811.6 | 3810.5 | 3886.6 | 3663.8 |
| 55° | 3615.6 | 3669.1 | 3794.4 | 4064.3 | 4421.0 | 4596.6 | 4394.2 | 4297.8 | 4211.1 | 4264.6 | 3991.5 |
| 57.5° | 3606.0 | 3626.3 | 3821.2 | 4154.3 | 4650.2 | 4969.3 | 4823.7 | 4731.5 | 4620.2 | 4589.1 | 4368.5 |
| 60° | 3436.7 | 3484.9 | 3703.4 | 4093.2 | 4791.5 | 5259.5 | 5224.2 | 5129.9 | 4938.2 | 4865.4 | 4657.7 |
| 62.5° | 3101.5 | 3165.8 | 3337.1 | 3879.1 | 4585.9 | 5274.5 | 5500.5 | 5465.2 | 5251.0 | 5120.3 | 5034.6 |
| 65° | 2513.6 | 2543.6 | 2740.6 | 3335.0 | 4121.1 | 5044.3 | 5827.2 | 5783.2 | 5586.2 | 5391.3 | 5228.5 |
| 67.5° | 1627.9 | 1656.8 | 1846.4 | 2380.8 | 3236.5 | 4449.9 | 5814.3 | 5935.3 | 5722.2 | 5487.7 | 5107.5 |
| 70° | 769.0 | 761.5 | 938.2 | 1322.6 | 2073.4 | 3398.2 | 5421.3 | 5660.1 | 5479.1 | 4974.7 | 4242.1 |
| 72.5° | 234.5 | 254.9 | 389.8 | 585.8 | 1064.5 | 2119.5 | 4249.6 | 4473.4 | 4416.7 | 3974.4 | 2831.6 |
| 75° | 103.9 | 112.5 | 153.1 | 239.9 | 431.6 | 869.6 | 2624.9 | 2824.1 | 2799.5 | 2344.4 | 1292.7 |
| 77.5° | 66.4 | 72.8 | 96.4 | 137.1 | 196.0 | 276.3 | 1209.1 | 1403.0 | 1360.1 | 823.6 | 338.4 |
| 80° | 47.1 | 50.3 | 68.5 | 94.2 | 123.2 | 113.5 | 416.6 | 494.8 | 474.4 | 223.8 | 91.0 |
| 82.5° | 25.7 | 27.8 | 50.3 | 69.6 | 82.5 | 57.8 | 116.7 | 145.7 | 152.1 | 99.6 | 43.9 |
| 85° | 9.6 | 11.8 | 31.1 | 49.3 | 42.8 | 26.8 | 34.3 | 41.8 | 54.6 | 54.6 | 20.3 |
| 87.5° | 0.0 | 1.1 | 12.9 | 21.4 | 10.7 | 7.5 | 9.6 | 11.8 | 15.0 | 25.7 | 7.5 |
| 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° | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 | 850.4 |
| 2.5° | 860.0 | 852.5 | 855.7 | 861.1 | 849.3 | 855.7 | 842.9 | 852.5 | 855.7 | 842.9 | 849.3 |
| 5° | 870.7 | 878.2 | 873.9 | 865.3 | 857.8 | 860.0 | 856.8 | 849.3 | 855.7 | 857.8 | 853.6 |
| 7.5° | 901.8 | 893.2 | 895.3 | 885.7 | 870.7 | 869.6 | 849.3 | 843.9 | 846.1 | 848.2 | 840.7 |
| 10° | 930.7 | 936.0 | 925.3 | 917.8 | 893.2 | 877.1 | 849.3 | 819.3 | 816.1 | 803.2 | 813.9 |
| 12.5° | 982.1 | 969.2 | 964.9 | 940.3 | 915.7 | 862.1 | 802.2 | 756.1 | 717.6 | 703.6 | 689.7 |
| 15° | 1024.9 | 1022.8 | 1015.3 | 977.8 | 921.0 | 823.6 | 710.1 | 603.0 | 529.1 | 483.0 | 476.6 |
| 17.5° | 1083.8 | 1074.2 | 1060.3 | 1001.4 | 881.4 | 722.9 | 529.1 | 394.1 | 320.2 | 291.3 | 280.6 |
| 20° | 1128.8 | 1121.3 | 1102.0 | 996.0 | 809.7 | 538.7 | 327.7 | 250.6 | 232.4 | 227.0 | 228.1 |
| 22.5° | 1194.1 | 1170.6 | 1134.2 | 969.2 | 679.0 | 358.8 | 235.6 | 223.8 | 220.6 | 216.3 | 217.4 |
| 25° | 1250.9 | 1229.5 | 1153.4 | 923.2 | 484.1 | 237.8 | 218.5 | 212.1 | 206.7 | 201.3 | 200.3 |
| 27.5° | 1301.2 | 1274.5 | 1173.8 | 828.9 | 303.1 | 204.6 | 202.4 | 194.9 | 184.2 | 175.6 | 172.4 |
| 30° | 1350.5 | 1319.4 | 1179.1 | 652.2 | 204.6 | 185.3 | 179.9 | 168.1 | 154.2 | 142.4 | 140.3 |
| 32.5° | 1433.0 | 1395.5 | 1171.6 | 465.9 | 176.7 | 164.9 | 153.1 | 139.2 | 118.9 | 109.2 | 107.1 |
| 35° | 1561.5 | 1504.7 | 1162.0 | 274.2 | 158.5 | 145.7 | 127.4 | 109.2 | 94.2 | 84.6 | 82.5 |
| 37.5° | 1709.3 | 1610.7 | 1134.2 | 183.1 | 145.7 | 128.5 | 105.0 | 86.7 | 73.9 | 66.4 | 64.3 |
| 40° | 1928.8 | 1766.0 | 1027.1 | 149.9 | 129.6 | 109.2 | 84.6 | 68.5 | 58.9 | 53.5 | 51.4 |
| 42.5° | 2170.9 | 1943.8 | 862.1 | 134.9 | 114.6 | 93.2 | 67.5 | 55.7 | 48.2 | 42.8 | 42.8 |
| 45° | 2461.1 | 2129.1 | 665.1 | 123.2 | 101.7 | 77.1 | 55.7 | 45.0 | 38.6 | 34.3 | 32.1 |
| 47.5° | 2784.5 | 2297.2 | 448.7 | 111.4 | 85.7 | 63.2 | 46.1 | 34.3 | 27.8 | 24.6 | 24.6 |
| 50° | 3073.7 | 2446.1 | 285.9 | 97.5 | 75.0 | 52.5 | 37.5 | 27.8 | 22.5 | 18.2 | 17.1 |
| 52.5° | 3336.1 | 2559.6 | 197.1 | 85.7 | 64.3 | 42.8 | 31.1 | 22.5 | 17.1 | 13.9 | 13.9 |
| 55° | 3604.9 | 2617.5 | 145.7 | 73.9 | 55.7 | 36.4 | 25.7 | 20.3 | 15.0 | 11.8 | 10.7 |
| 57.5° | 3825.5 | 2642.1 | 111.4 | 64.3 | 47.1 | 28.9 | 22.5 | 17.1 | 12.9 | 9.6 | 8.6 |
| 60° | 4014.0 | 2630.3 | 86.7 | 53.5 | 37.5 | 24.6 | 19.3 | 13.9 | 10.7 | 7.5 | 6.4 |
| 62.5° | 4124.3 | 2559.6 | 68.5 | 46.1 | 30.0 | 21.4 | 16.1 | 11.8 | 7.5 | 5.4 | 4.3 |
| 65° | 4126.4 | 2409.7 | 53.5 | 34.3 | 22.5 | 18.2 | 13.9 | 9.6 | 5.4 | 2.1 | 1.1 |
| 67.5° | 3830.9 | 2085.2 | 42.8 | 26.8 | 18.2 | 13.9 | 10.7 | 7.5 | 2.1 | 0.0 | 0.0 |
| 70° | 2996.6 | 1577.5 | 35.3 | 21.4 | 15.0 | 11.8 | 7.5 | 4.3 | 1.1 | 0.0 | 0.0 |
| 72.5° | 1909.5 | 944.6 | 28.9 | 17.1 | 12.9 | 8.6 | 5.4 | 3.2 | 0.0 | 0.0 | 0.0 |
| 75° | 798.9 | 291.3 | 22.5 | 15.0 | 9.6 | 6.4 | 4.3 | 1.1 | 0.0 | 0.0 | 0.0 |
| 77.5° | 205.6 | 92.1 | 18.2 | 12.9 | 9.6 | 5.4 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 80° | 61.0 | 34.3 | 15.0 | 10.7 | 7.5 | 4.3 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| 82.5° | 27.8 | 20.3 | 12.9 | 9.6 | 6.4 | 4.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 10.7 | 6.4 | 6.4 | 5.4 | 5.4 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.3 | 2.1 | 2.1 | 2.1 | 1.1 | 1.1 | 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)