

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: P482423

Luminaire Tested: **IFLD-S-SA6B-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482423
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

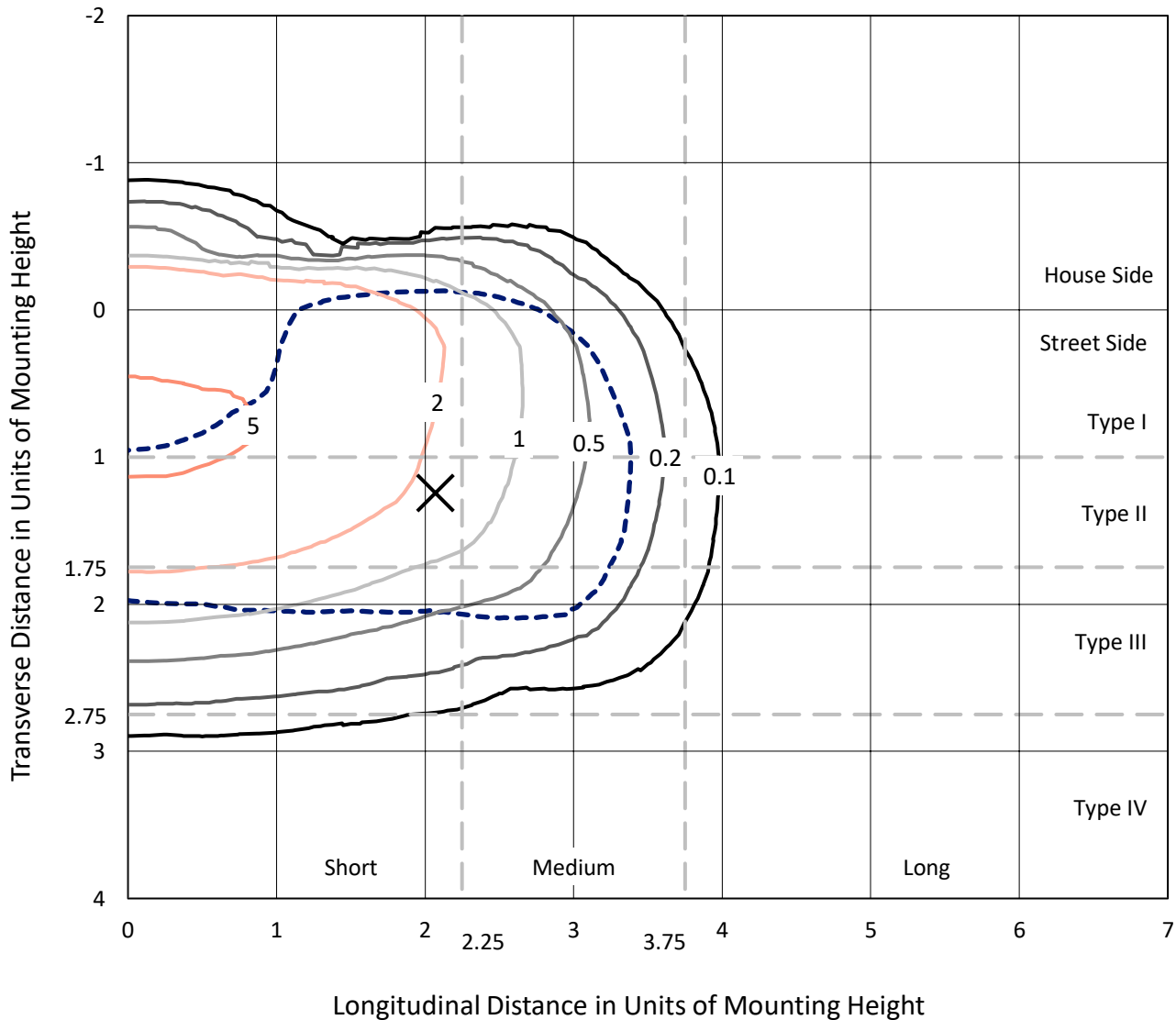
Lumens per Lamp: N/A
Luminaire Lumens: 24429.2 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

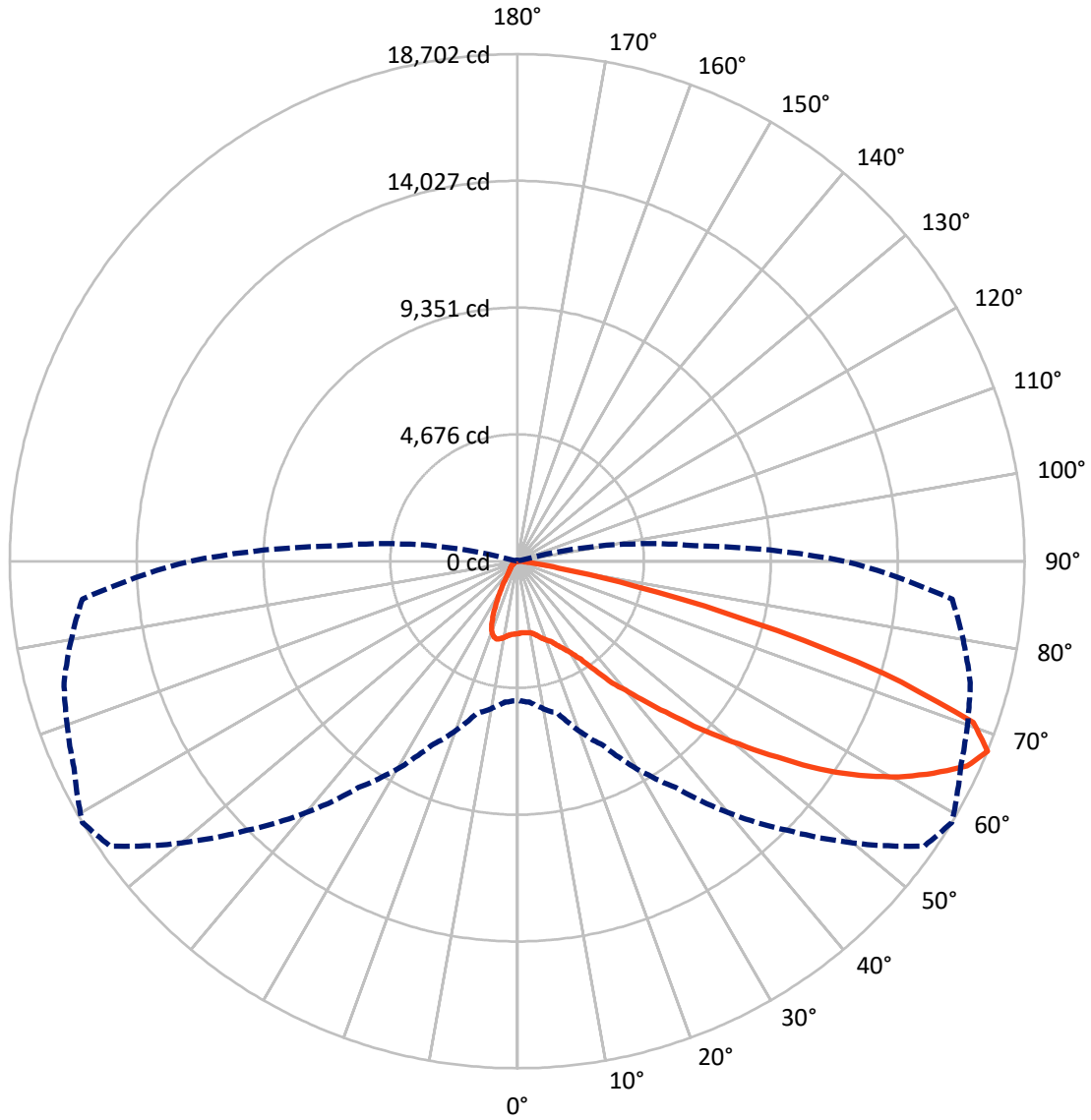
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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 | 2869.6 | 0.0 | 2869.6 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 21559.6 | 0.0 | 21559.6 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 24429.2 | 0.0 | 24429.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 254.5 | 1.0 |
| 10°-20° | 735.2 | 3.0 |
| 20°-30° | 1285.0 | 5.3 |
| 30°-40° | 2262.3 | 9.3 |
| 40°-50° | 3999.0 | 16.4 |
| 50°-60° | 6331.9 | 25.9 |
| 60°-70° | 7023.8 | 28.8 |
| 70°-80° | 2437.1 | 10.0 |
| 80°-90° | 100.4 | 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° | 24429.2 | 100.0 |
| 0°-180° | 24429.2 | 100.0 |

Coefficient of Utilization

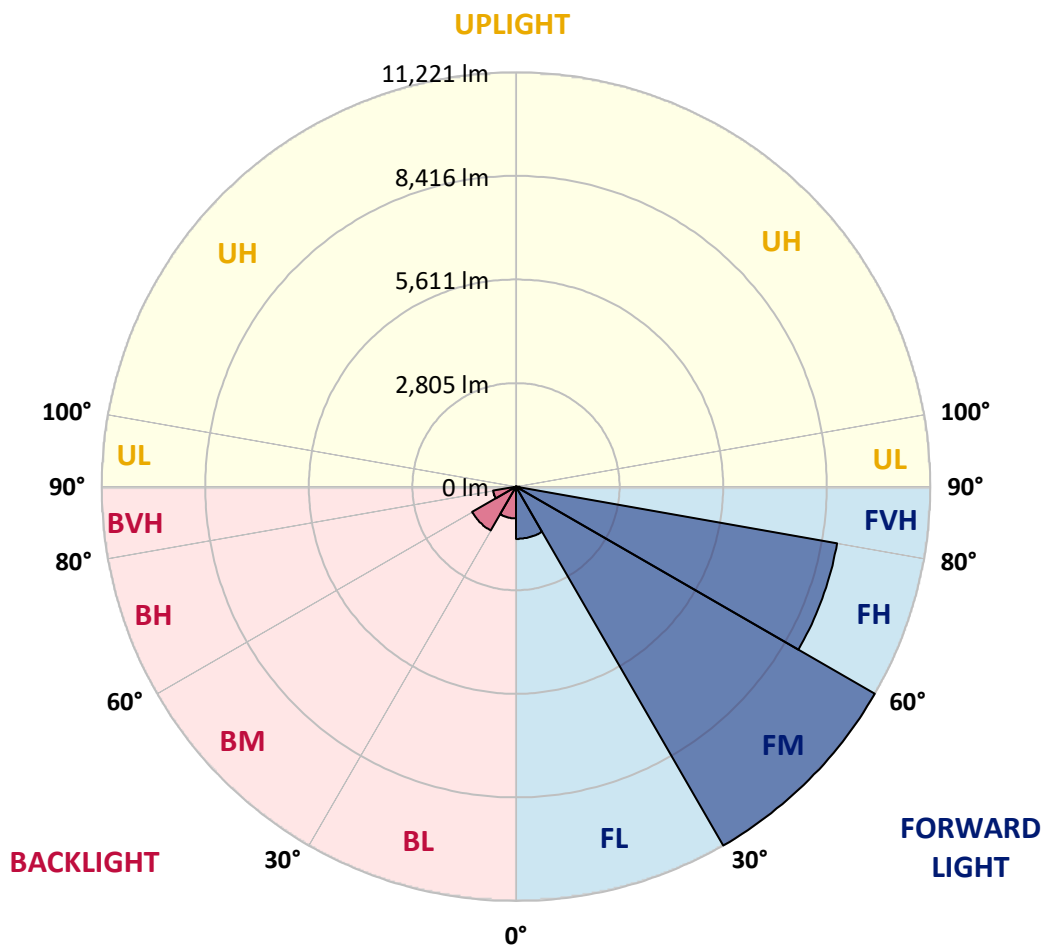


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1414.6 | 5.8 | | | |
| FM (30°-60°) | 11221.2 | 45.9 | | | |
| FH (60°-80°) | 8829.8 | 36.1 | | | G4/12000 |
| FVH (80°-90°) | 93.9 | 0.4 | | | G1/100 |
| BL (0°-30°) | 860.0 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1372.0 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 631.1 | 2.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 6.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 |
| 2.5° | 2601.8 | 2564.7 | 2598.5 | 2601.8 | 2605.2 | 2635.6 | 2669.3 | 2645.7 | 2642.3 | 2669.3 | 2692.9 |
| 5° | 2497.2 | 2480.3 | 2520.8 | 2541.1 | 2574.8 | 2601.8 | 2655.8 | 2659.2 | 2662.6 | 2692.9 | 2733.4 |
| 7.5° | 2453.3 | 2412.8 | 2460.1 | 2483.7 | 2507.3 | 2571.5 | 2635.6 | 2669.3 | 2716.6 | 2753.7 | 2794.2 |
| 10° | 2365.6 | 2396.0 | 2409.5 | 2450.0 | 2517.5 | 2591.7 | 2669.3 | 2686.2 | 2790.8 | 2821.2 | 2919.0 |
| 12.5° | 2396.0 | 2416.2 | 2443.2 | 2453.3 | 2527.6 | 2638.9 | 2743.6 | 2750.3 | 2858.3 | 2989.9 | 3040.5 |
| 15° | 2473.6 | 2460.1 | 2470.2 | 2483.7 | 2571.5 | 2662.6 | 2831.3 | 2861.7 | 2962.9 | 3111.4 | 3236.3 |
| 17.5° | 2638.9 | 2615.3 | 2598.5 | 2595.1 | 2615.3 | 2699.7 | 2898.8 | 2989.9 | 3084.4 | 3286.9 | 3351.0 |
| 20° | 3054.0 | 3033.8 | 2966.3 | 2790.8 | 2730.1 | 2763.8 | 2979.8 | 3108.0 | 3239.6 | 3465.7 | 3570.3 |
| 22.5° | 3685.1 | 3705.3 | 3546.7 | 3300.4 | 3047.3 | 2915.7 | 3108.0 | 3219.4 | 3428.6 | 3715.5 | 3809.9 |
| 25° | 4430.9 | 4390.4 | 4198.0 | 3911.2 | 3513.0 | 3202.5 | 3313.9 | 3438.7 | 3695.2 | 3931.4 | 3968.5 |
| 27.5° | 5014.7 | 4967.4 | 4819.0 | 4471.4 | 4127.2 | 3624.3 | 3583.8 | 3661.5 | 3965.2 | 4177.8 | 4137.3 |
| 30° | 5591.7 | 5608.6 | 5507.4 | 5095.7 | 4670.5 | 4140.7 | 3884.2 | 3917.9 | 4150.8 | 4424.1 | 4333.0 |
| 32.5° | 6327.4 | 6286.9 | 6229.5 | 5868.5 | 5365.6 | 4798.7 | 4360.0 | 4306.0 | 4407.2 | 4768.3 | 4660.3 |
| 35° | 7012.5 | 6988.8 | 6911.2 | 6546.8 | 6108.1 | 5490.5 | 5061.9 | 4940.4 | 4916.8 | 5318.4 | 5129.4 |
| 37.5° | 7609.8 | 7569.3 | 7451.2 | 7218.3 | 6793.1 | 6273.4 | 5804.3 | 5696.4 | 5693.0 | 5969.7 | 5605.2 |
| 40° | 8112.6 | 8142.9 | 8129.4 | 7873.0 | 7640.1 | 7225.1 | 6506.3 | 6334.2 | 6320.7 | 6469.1 | 6256.5 |
| 42.5° | 8763.9 | 8834.7 | 8797.6 | 8747.0 | 8466.9 | 8304.9 | 7491.6 | 7228.4 | 7110.3 | 7414.0 | 7221.7 |
| 45° | 9749.3 | 9776.3 | 9799.9 | 9675.0 | 9394.9 | 9428.7 | 8510.8 | 8196.9 | 8166.6 | 8618.8 | 8186.8 |
| 47.5° | 10670.5 | 10599.7 | 10765.0 | 10771.8 | 10758.3 | 10603.0 | 9610.9 | 9378.1 | 9418.6 | 9762.8 | 9317.3 |
| 50° | 10900.0 | 11082.2 | 11537.8 | 11622.2 | 11841.5 | 11983.3 | 10832.5 | 10599.7 | 10667.2 | 11058.6 | 10549.0 |
| 52.5° | 11078.9 | 11355.6 | 11811.2 | 12428.7 | 13019.3 | 13356.7 | 12199.2 | 12010.3 | 12006.9 | 12246.5 | 11544.6 |
| 55° | 11392.7 | 11561.4 | 11956.3 | 12806.7 | 13930.4 | 14483.8 | 13846.0 | 13542.3 | 13269.0 | 13437.7 | 12577.2 |
| 57.5° | 11362.3 | 11426.4 | 12040.6 | 13090.1 | 14652.6 | 15658.2 | 15199.3 | 14909.0 | 14558.1 | 14460.2 | 13765.1 |
| 60° | 10829.1 | 10981.0 | 11669.4 | 12897.8 | 15098.0 | 16572.7 | 16461.4 | 16164.4 | 15560.4 | 15330.9 | 14676.2 |
| 62.5° | 9772.9 | 9975.4 | 10515.3 | 12222.9 | 14450.1 | 16620.0 | 17332.0 | 17220.7 | 16545.7 | 16134.0 | 15864.1 |
| 65° | 7920.2 | 8014.7 | 8635.6 | 10508.6 | 12985.5 | 15894.4 | 18361.3 | 18222.9 | 17602.0 | 16987.8 | 16474.9 |
| 67.5° | 5129.4 | 5220.5 | 5817.8 | 7501.8 | 10198.1 | 14021.5 | 18320.8 | 18702.1 | 18030.6 | 17291.5 | 16093.5 |
| 70° | 2423.0 | 2399.4 | 2956.2 | 4167.6 | 6533.3 | 10707.7 | 17082.3 | 17834.8 | 17264.5 | 15675.1 | 13366.9 |
| 72.5° | 739.0 | 803.2 | 1228.4 | 1845.9 | 3354.4 | 6678.4 | 13390.5 | 14095.8 | 13916.9 | 12523.2 | 8922.5 |
| 75° | 327.3 | 354.3 | 482.6 | 755.9 | 1360.0 | 2740.2 | 8271.2 | 8898.9 | 8821.2 | 7387.0 | 4073.2 |
| 77.5° | 209.2 | 229.5 | 303.7 | 432.0 | 617.6 | 870.7 | 3809.9 | 4420.7 | 4285.8 | 2595.1 | 1066.4 |
| 80° | 148.5 | 158.6 | 216.0 | 297.0 | 388.1 | 357.7 | 1312.7 | 1559.1 | 1495.0 | 705.3 | 286.8 |
| 82.5° | 81.0 | 87.7 | 158.6 | 219.3 | 259.8 | 182.2 | 367.8 | 458.9 | 479.2 | 313.8 | 138.4 |
| 85° | 30.4 | 37.1 | 97.9 | 155.2 | 135.0 | 84.4 | 108.0 | 131.6 | 172.1 | 172.1 | 64.1 |
| 87.5° | 0.0 | 3.4 | 40.5 | 67.5 | 33.7 | 23.6 | 30.4 | 37.1 | 47.2 | 81.0 | 23.6 |
| 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° | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 | 2679.4 |
| 2.5° | 2709.8 | 2686.2 | 2696.3 | 2713.2 | 2676.1 | 2696.3 | 2655.8 | 2686.2 | 2696.3 | 2655.8 | 2676.1 |
| 5° | 2743.6 | 2767.2 | 2753.7 | 2726.7 | 2703.1 | 2709.8 | 2699.7 | 2676.1 | 2696.3 | 2703.1 | 2689.6 |
| 7.5° | 2841.4 | 2814.4 | 2821.2 | 2790.8 | 2743.6 | 2740.2 | 2676.1 | 2659.2 | 2665.9 | 2672.7 | 2649.1 |
| 10° | 2932.5 | 2949.4 | 2915.7 | 2892.0 | 2814.4 | 2763.8 | 2676.1 | 2581.6 | 2571.5 | 2531.0 | 2564.7 |
| 12.5° | 3094.5 | 3054.0 | 3040.5 | 2962.9 | 2885.3 | 2716.6 | 2527.6 | 2382.5 | 2261.0 | 2217.1 | 2173.3 |
| 15° | 3229.5 | 3222.8 | 3199.1 | 3081.0 | 2902.2 | 2595.1 | 2237.4 | 1899.9 | 1667.1 | 1522.0 | 1501.7 |
| 17.5° | 3415.1 | 3384.7 | 3340.9 | 3155.3 | 2777.3 | 2277.9 | 1667.1 | 1241.9 | 1009.0 | 917.9 | 884.1 |
| 20° | 3556.8 | 3533.2 | 3472.5 | 3138.4 | 2551.2 | 1697.4 | 1032.6 | 789.7 | 732.3 | 715.4 | 718.8 |
| 22.5° | 3762.7 | 3688.5 | 3573.7 | 3054.0 | 2139.5 | 1130.5 | 742.4 | 705.3 | 695.2 | 681.7 | 685.0 |
| 25° | 3941.6 | 3874.1 | 3634.5 | 2908.9 | 1525.3 | 749.2 | 688.4 | 668.2 | 651.3 | 634.4 | 631.1 |
| 27.5° | 4100.2 | 4015.8 | 3698.6 | 2612.0 | 955.0 | 644.6 | 637.8 | 614.2 | 580.4 | 553.4 | 543.3 |
| 30° | 4255.4 | 4157.5 | 3715.5 | 2055.1 | 644.6 | 583.8 | 566.9 | 529.8 | 485.9 | 448.8 | 442.1 |
| 32.5° | 4515.2 | 4397.1 | 3691.8 | 1468.0 | 556.8 | 519.7 | 482.6 | 438.7 | 374.6 | 344.2 | 337.5 |
| 35° | 4920.2 | 4741.3 | 3661.5 | 863.9 | 499.4 | 458.9 | 401.6 | 344.2 | 297.0 | 266.6 | 259.8 |
| 37.5° | 5385.9 | 5075.4 | 3573.7 | 577.1 | 458.9 | 405.0 | 330.7 | 273.3 | 232.8 | 209.2 | 202.5 |
| 40° | 6077.7 | 5564.7 | 3236.3 | 472.4 | 408.3 | 344.2 | 266.6 | 216.0 | 185.6 | 168.7 | 162.0 |
| 42.5° | 6840.3 | 6124.9 | 2716.6 | 425.2 | 361.1 | 293.6 | 212.6 | 175.5 | 151.9 | 135.0 | 135.0 |
| 45° | 7754.9 | 6708.7 | 2095.6 | 388.1 | 320.6 | 243.0 | 175.5 | 141.7 | 121.5 | 108.0 | 101.2 |
| 47.5° | 8774.0 | 7238.5 | 1414.0 | 351.0 | 270.0 | 199.1 | 145.1 | 108.0 | 87.7 | 77.6 | 77.6 |
| 50° | 9685.1 | 7707.6 | 901.0 | 307.1 | 236.2 | 165.4 | 118.1 | 87.7 | 70.9 | 57.4 | 54.0 |
| 52.5° | 10511.9 | 8065.3 | 620.9 | 270.0 | 202.5 | 135.0 | 97.9 | 70.9 | 54.0 | 43.9 | 43.9 |
| 55° | 11359.0 | 8247.6 | 458.9 | 232.8 | 175.5 | 114.7 | 81.0 | 64.1 | 47.2 | 37.1 | 33.7 |
| 57.5° | 12054.1 | 8325.2 | 351.0 | 202.5 | 148.5 | 91.1 | 70.9 | 54.0 | 40.5 | 30.4 | 27.0 |
| 60° | 12648.1 | 8288.1 | 273.3 | 168.7 | 118.1 | 77.6 | 60.7 | 43.9 | 33.7 | 23.6 | 20.2 |
| 62.5° | 12995.6 | 8065.3 | 216.0 | 145.1 | 94.5 | 67.5 | 50.6 | 37.1 | 23.6 | 16.9 | 13.5 |
| 65° | 13002.4 | 7592.9 | 168.7 | 108.0 | 70.9 | 57.4 | 43.9 | 30.4 | 16.9 | 6.7 | 3.4 |
| 67.5° | 12071.0 | 6570.4 | 135.0 | 84.4 | 57.4 | 43.9 | 33.7 | 23.6 | 6.7 | 0.0 | 0.0 |
| 70° | 9442.2 | 4970.8 | 111.4 | 67.5 | 47.2 | 37.1 | 23.6 | 13.5 | 3.4 | 0.0 | 0.0 |
| 72.5° | 6016.9 | 2976.4 | 91.1 | 54.0 | 40.5 | 27.0 | 16.9 | 10.1 | 0.0 | 0.0 | 0.0 |
| 75° | 2517.5 | 917.9 | 70.9 | 47.2 | 30.4 | 20.2 | 13.5 | 3.4 | 0.0 | 0.0 | 0.0 |
| 77.5° | 647.9 | 290.2 | 57.4 | 40.5 | 30.4 | 16.9 | 10.1 | 3.4 | 0.0 | 0.0 | 0.0 |
| 80° | 192.4 | 108.0 | 47.2 | 33.7 | 23.6 | 13.5 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 |
| 82.5° | 87.7 | 64.1 | 40.5 | 30.4 | 20.2 | 13.5 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 33.7 | 20.2 | 20.2 | 16.9 | 16.9 | 10.1 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 13.5 | 6.7 | 6.7 | 6.7 | 3.4 | 3.4 | 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)