

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: P482619

Luminaire Tested: **IFLD-S-SA6C-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482619
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

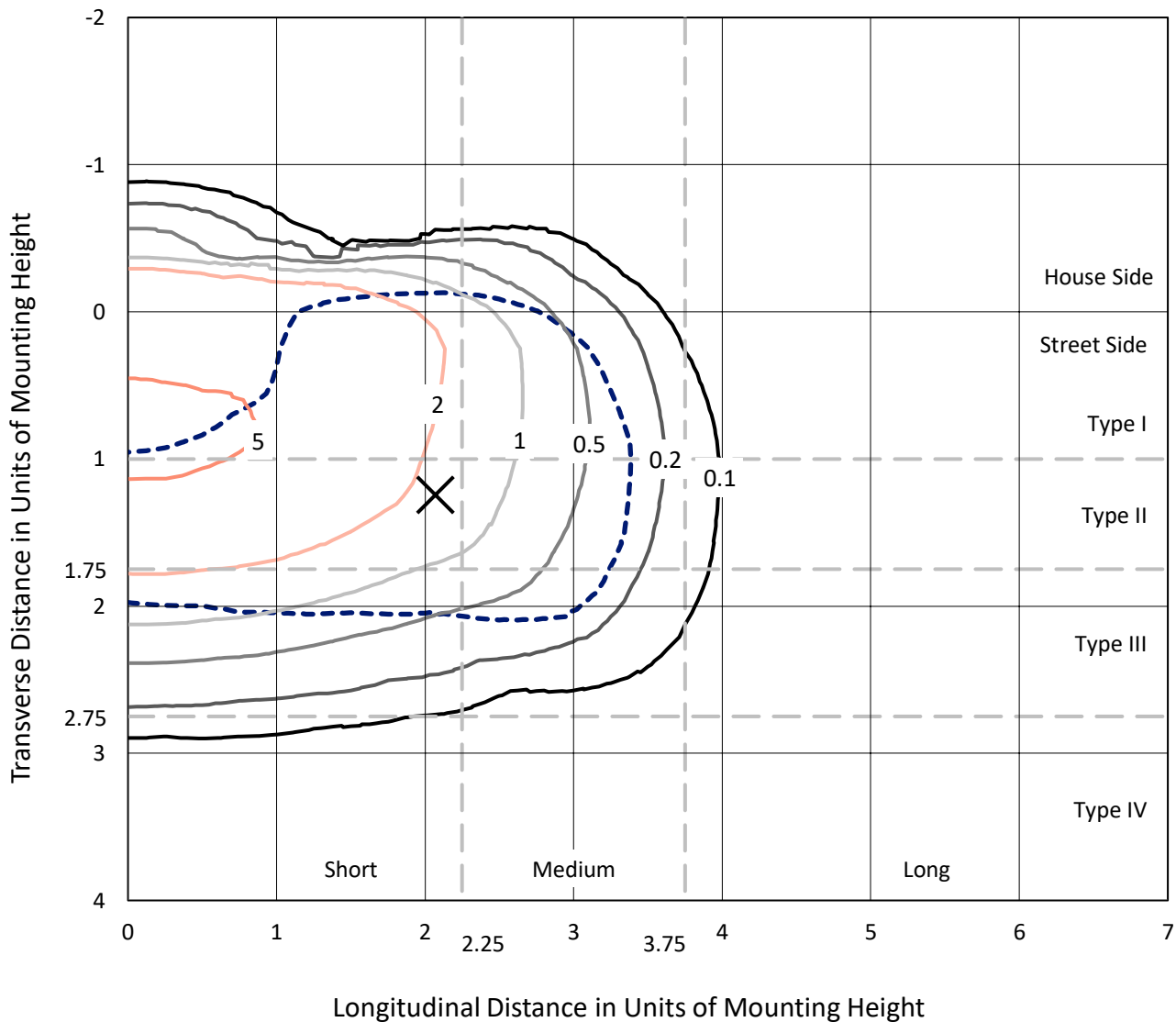
Lumens per Lamp: N/A
Luminaire Lumens: 24499.5 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5
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

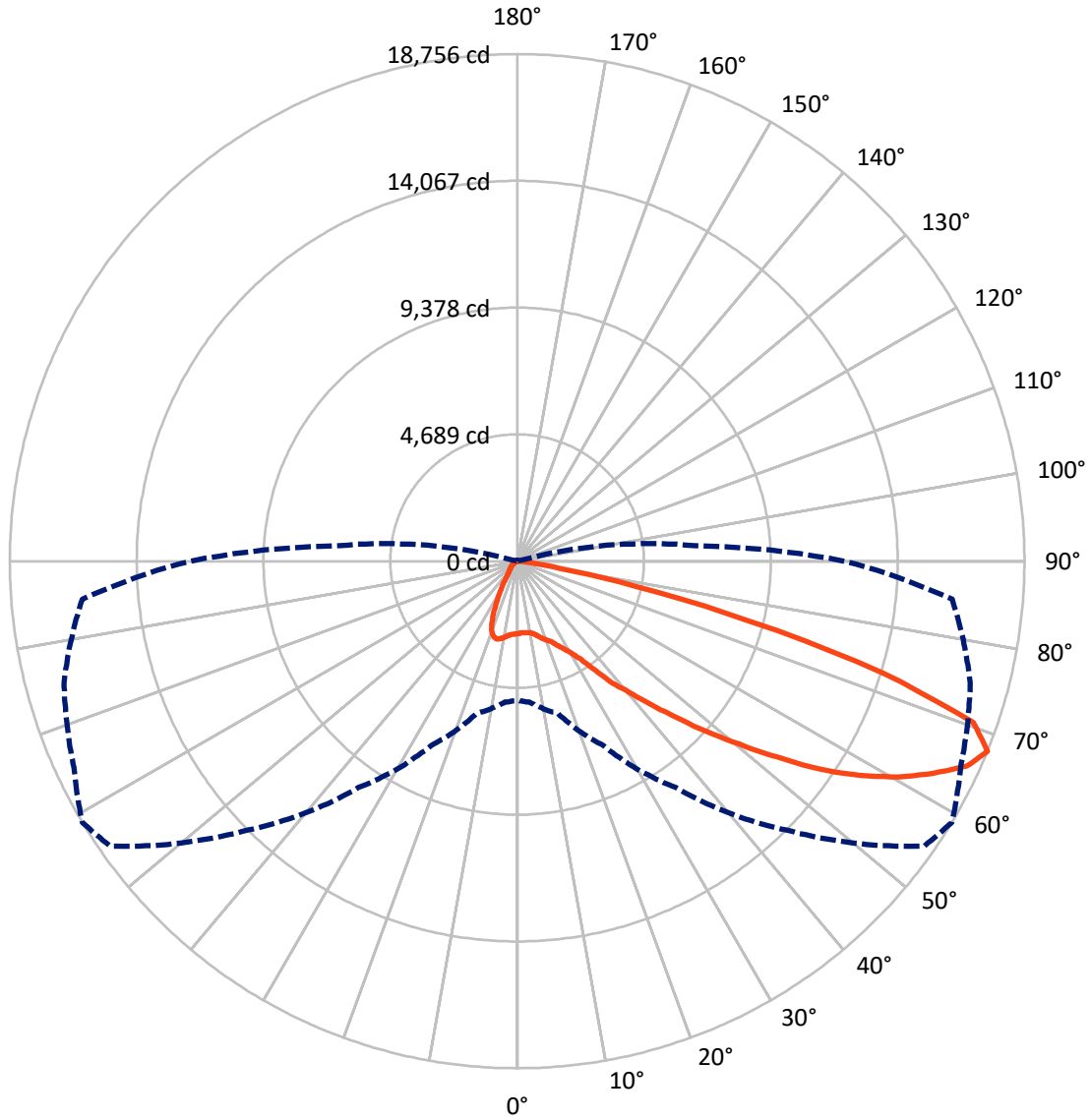
✕ Max cd
 - - - 1/2 Max cd



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 | 2877.9 | 0.0 | 2877.9 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 21621.6 | 0.0 | 21621.6 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 24499.5 | 0.0 | 24499.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 255.3 | 1.0 |
| 10°-20° | 737.3 | 3.0 |
| 20°-30° | 1288.6 | 5.3 |
| 30°-40° | 2268.8 | 9.3 |
| 40°-50° | 4010.5 | 16.4 |
| 50°-60° | 6350.1 | 25.9 |
| 60°-70° | 7044.0 | 28.8 |
| 70°-80° | 2444.1 | 10.0 |
| 80°-90° | 100.7 | 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° | 24499.5 | 100.0 |
| 0°-180° | 24499.5 | 100.0 |

Coefficient of Utilization

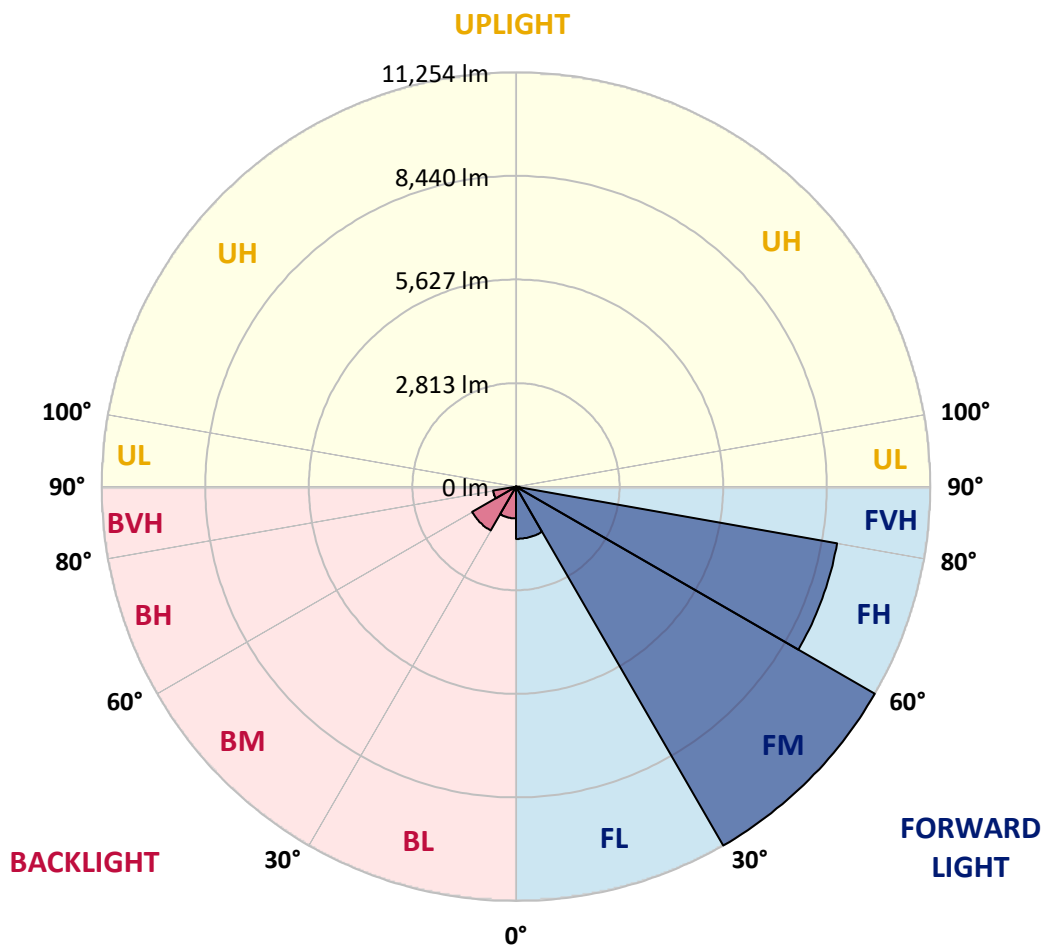


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1418.7 | 5.8 | | | |
| FM (30°-60°) | 11253.5 | 45.9 | | | |
| FH (60°-80°) | 8855.2 | 36.1 | | | G4/12000 |
| FVH (80°-90°) | 94.1 | 0.4 | | | G1/100 |
| BL (0°-30°) | 862.5 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1376.0 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 632.9 | 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° | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 |
| 2.5° | 2609.3 | 2572.1 | 2605.9 | 2609.3 | 2612.7 | 2643.2 | 2677.0 | 2653.3 | 2649.9 | 2677.0 | 2700.7 |
| 5° | 2504.4 | 2487.5 | 2528.1 | 2548.4 | 2582.2 | 2609.3 | 2663.5 | 2666.8 | 2670.2 | 2700.7 | 2741.3 |
| 7.5° | 2460.4 | 2419.8 | 2467.2 | 2490.9 | 2514.6 | 2578.9 | 2643.2 | 2677.0 | 2724.4 | 2761.6 | 2802.2 |
| 10° | 2372.4 | 2402.9 | 2416.4 | 2457.0 | 2524.7 | 2599.2 | 2677.0 | 2693.9 | 2798.8 | 2829.3 | 2927.4 |
| 12.5° | 2402.9 | 2423.2 | 2450.2 | 2460.4 | 2534.9 | 2646.5 | 2751.5 | 2758.2 | 2866.5 | 2998.5 | 3049.3 |
| 15° | 2480.7 | 2467.2 | 2477.3 | 2490.9 | 2578.9 | 2670.2 | 2839.4 | 2869.9 | 2971.4 | 3120.3 | 3245.6 |
| 17.5° | 2646.5 | 2622.8 | 2605.9 | 2602.5 | 2622.8 | 2707.5 | 2907.1 | 2998.5 | 3093.3 | 3296.3 | 3360.6 |
| 20° | 3062.8 | 3042.5 | 2974.8 | 2798.8 | 2737.9 | 2771.8 | 2988.4 | 3117.0 | 3248.9 | 3475.7 | 3580.6 |
| 22.5° | 3695.7 | 3716.0 | 3556.9 | 3309.9 | 3056.0 | 2924.1 | 3117.0 | 3228.6 | 3438.5 | 3726.1 | 3820.9 |
| 25° | 4443.6 | 4403.0 | 4210.1 | 3922.4 | 3523.1 | 3211.7 | 3323.4 | 3448.6 | 3705.8 | 3942.7 | 3980.0 |
| 27.5° | 5029.1 | 4981.7 | 4832.8 | 4484.2 | 4139.0 | 3634.8 | 3594.2 | 3672.0 | 3976.6 | 4189.8 | 4149.2 |
| 30° | 5607.8 | 5624.7 | 5523.2 | 5110.3 | 4683.9 | 4152.6 | 3895.4 | 3929.2 | 4162.7 | 4436.8 | 4345.5 |
| 32.5° | 6345.6 | 6305.0 | 6247.5 | 5885.3 | 5381.1 | 4812.5 | 4372.5 | 4318.4 | 4419.9 | 4782.0 | 4673.7 |
| 35° | 7032.6 | 7008.9 | 6931.1 | 6565.6 | 6125.6 | 5506.3 | 5076.5 | 4954.6 | 4931.0 | 5333.7 | 5144.2 |
| 37.5° | 7631.6 | 7591.0 | 7472.6 | 7239.1 | 6812.6 | 6291.5 | 5821.0 | 5712.7 | 5709.4 | 5986.9 | 5621.4 |
| 40° | 8135.9 | 8166.4 | 8152.8 | 7895.6 | 7662.1 | 7245.8 | 6525.0 | 6352.4 | 6338.8 | 6487.7 | 6274.5 |
| 42.5° | 8789.1 | 8860.2 | 8822.9 | 8772.2 | 8491.3 | 8328.8 | 7513.2 | 7249.2 | 7130.8 | 7435.4 | 7242.4 |
| 45° | 9777.3 | 9804.4 | 9828.1 | 9702.9 | 9422.0 | 9455.8 | 8535.3 | 8220.5 | 8190.1 | 8643.6 | 8210.4 |
| 47.5° | 10701.2 | 10630.2 | 10796.0 | 10802.8 | 10789.2 | 10633.5 | 9638.5 | 9405.0 | 9445.6 | 9790.8 | 9344.1 |
| 50° | 10931.4 | 11114.1 | 11571.0 | 11655.6 | 11875.6 | 12017.7 | 10863.7 | 10630.2 | 10697.8 | 11090.4 | 10579.4 |
| 52.5° | 11110.7 | 11388.2 | 11845.1 | 12464.5 | 13056.7 | 13395.1 | 12234.3 | 12044.8 | 12041.4 | 12281.7 | 11577.8 |
| 55° | 11425.5 | 11594.7 | 11990.7 | 12843.5 | 13970.5 | 14525.5 | 13885.9 | 13581.3 | 13307.2 | 13476.4 | 12613.4 |
| 57.5° | 11395.0 | 11459.3 | 12075.3 | 13127.8 | 14694.7 | 15703.3 | 15243.0 | 14951.9 | 14600.0 | 14501.8 | 13804.7 |
| 60° | 10860.3 | 11012.6 | 11703.0 | 12934.9 | 15141.5 | 16620.4 | 16508.7 | 16210.9 | 15605.1 | 15375.0 | 14718.4 |
| 62.5° | 9801.0 | 10004.1 | 10545.5 | 12258.0 | 14491.7 | 16667.8 | 17381.9 | 17270.2 | 16593.3 | 16180.4 | 15909.7 |
| 65° | 7943.0 | 8037.8 | 8660.5 | 10538.8 | 13022.9 | 15940.2 | 18414.1 | 18275.3 | 17652.6 | 17036.7 | 16522.3 |
| 67.5° | 5144.2 | 5235.5 | 5834.6 | 7523.3 | 10227.4 | 14061.9 | 18373.5 | 18755.9 | 18082.4 | 17341.3 | 16139.8 |
| 70° | 2429.9 | 2406.3 | 2964.7 | 4179.6 | 6552.0 | 10738.5 | 17131.4 | 17886.1 | 17314.2 | 15720.2 | 13405.3 |
| 72.5° | 741.2 | 805.5 | 1231.9 | 1851.2 | 3364.0 | 6697.6 | 13429.0 | 14136.3 | 13956.9 | 12559.2 | 8948.1 |
| 75° | 328.3 | 355.4 | 484.0 | 758.1 | 1363.9 | 2748.1 | 8295.0 | 8924.5 | 8846.6 | 7408.3 | 4084.9 |
| 77.5° | 209.8 | 230.1 | 304.6 | 433.2 | 619.3 | 873.2 | 3820.9 | 4433.5 | 4298.1 | 2602.5 | 1069.4 |
| 80° | 148.9 | 159.1 | 216.6 | 297.8 | 389.2 | 358.7 | 1316.5 | 1563.6 | 1499.3 | 707.3 | 287.7 |
| 82.5° | 81.2 | 88.0 | 159.1 | 220.0 | 260.6 | 182.8 | 368.9 | 460.3 | 480.6 | 314.7 | 138.8 |
| 85° | 30.5 | 37.2 | 98.1 | 155.7 | 135.4 | 84.6 | 108.3 | 132.0 | 172.6 | 172.6 | 64.3 |
| 87.5° | 0.0 | 3.4 | 40.6 | 67.7 | 33.8 | 23.7 | 30.5 | 37.2 | 47.4 | 81.2 | 23.7 |
| 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° | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 | 2687.2 |
| 2.5° | 2717.6 | 2693.9 | 2704.1 | 2721.0 | 2683.8 | 2704.1 | 2663.5 | 2693.9 | 2704.1 | 2663.5 | 2683.8 |
| 5° | 2751.5 | 2775.1 | 2761.6 | 2734.5 | 2710.8 | 2717.6 | 2707.5 | 2683.8 | 2704.1 | 2710.8 | 2697.3 |
| 7.5° | 2849.6 | 2822.5 | 2829.3 | 2798.8 | 2751.5 | 2748.1 | 2683.8 | 2666.8 | 2673.6 | 2680.4 | 2656.7 |
| 10° | 2941.0 | 2957.9 | 2924.1 | 2900.4 | 2822.5 | 2771.8 | 2683.8 | 2589.0 | 2578.9 | 2538.2 | 2572.1 |
| 12.5° | 3103.4 | 3062.8 | 3049.3 | 2971.4 | 2893.6 | 2724.4 | 2534.9 | 2389.3 | 2267.5 | 2223.5 | 2179.5 |
| 15° | 3238.8 | 3232.0 | 3208.3 | 3089.9 | 2910.5 | 2602.5 | 2243.8 | 1905.4 | 1671.9 | 1526.3 | 1506.0 |
| 17.5° | 3424.9 | 3394.5 | 3350.5 | 3164.3 | 2785.3 | 2284.4 | 1671.9 | 1245.4 | 1011.9 | 920.5 | 886.7 |
| 20° | 3567.1 | 3543.4 | 3482.5 | 3147.4 | 2558.5 | 1702.3 | 1035.6 | 791.9 | 734.4 | 717.5 | 720.9 |
| 22.5° | 3773.5 | 3699.1 | 3584.0 | 3062.8 | 2145.7 | 1133.7 | 744.6 | 707.3 | 697.2 | 683.6 | 687.0 |
| 25° | 3952.9 | 3885.2 | 3644.9 | 2917.3 | 1529.7 | 751.3 | 690.4 | 670.1 | 653.2 | 636.3 | 632.9 |
| 27.5° | 4112.0 | 4027.3 | 3709.2 | 2619.5 | 957.8 | 646.4 | 639.6 | 615.9 | 582.1 | 555.0 | 544.9 |
| 30° | 4267.6 | 4169.5 | 3726.1 | 2061.1 | 646.4 | 585.5 | 568.6 | 531.3 | 487.3 | 450.1 | 443.3 |
| 32.5° | 4528.2 | 4409.8 | 3702.4 | 1472.2 | 558.4 | 521.2 | 484.0 | 440.0 | 375.7 | 345.2 | 338.4 |
| 35° | 4934.3 | 4755.0 | 3672.0 | 866.4 | 500.9 | 460.3 | 402.7 | 345.2 | 297.8 | 267.4 | 260.6 |
| 37.5° | 5401.4 | 5090.0 | 3584.0 | 578.7 | 460.3 | 406.1 | 331.7 | 274.1 | 233.5 | 209.8 | 203.1 |
| 40° | 6095.2 | 5580.7 | 3245.6 | 473.8 | 409.5 | 345.2 | 267.4 | 216.6 | 186.1 | 169.2 | 162.4 |
| 42.5° | 6860.0 | 6142.5 | 2724.4 | 426.4 | 362.1 | 294.4 | 213.2 | 176.0 | 152.3 | 135.4 | 135.4 |
| 45° | 7777.2 | 6728.0 | 2101.7 | 389.2 | 321.5 | 243.7 | 176.0 | 142.1 | 121.8 | 108.3 | 101.5 |
| 47.5° | 8799.2 | 7259.4 | 1418.0 | 352.0 | 270.7 | 199.7 | 145.5 | 108.3 | 88.0 | 77.8 | 77.8 |
| 50° | 9713.0 | 7729.8 | 903.6 | 308.0 | 236.9 | 165.8 | 118.5 | 88.0 | 71.1 | 57.5 | 54.1 |
| 52.5° | 10542.2 | 8088.5 | 622.7 | 270.7 | 203.1 | 135.4 | 98.1 | 71.1 | 54.1 | 44.0 | 44.0 |
| 55° | 11391.6 | 8271.3 | 460.3 | 233.5 | 176.0 | 115.1 | 81.2 | 64.3 | 47.4 | 37.2 | 33.8 |
| 57.5° | 12088.8 | 8349.1 | 352.0 | 203.1 | 148.9 | 91.4 | 71.1 | 54.1 | 40.6 | 30.5 | 27.1 |
| 60° | 12684.4 | 8311.9 | 274.1 | 169.2 | 118.5 | 77.8 | 60.9 | 44.0 | 33.8 | 23.7 | 20.3 |
| 62.5° | 13033.0 | 8088.5 | 216.6 | 145.5 | 94.8 | 67.7 | 50.8 | 37.2 | 23.7 | 16.9 | 13.5 |
| 65° | 13039.8 | 7614.7 | 169.2 | 108.3 | 71.1 | 57.5 | 44.0 | 30.5 | 16.9 | 6.8 | 3.4 |
| 67.5° | 12105.7 | 6589.3 | 135.4 | 84.6 | 57.5 | 44.0 | 33.8 | 23.7 | 6.8 | 0.0 | 0.0 |
| 70° | 9469.3 | 4985.1 | 111.7 | 67.7 | 47.4 | 37.2 | 23.7 | 13.5 | 3.4 | 0.0 | 0.0 |
| 72.5° | 6034.2 | 2985.0 | 91.4 | 54.1 | 40.6 | 27.1 | 16.9 | 10.2 | 0.0 | 0.0 | 0.0 |
| 75° | 2524.7 | 920.5 | 71.1 | 47.4 | 30.5 | 20.3 | 13.5 | 3.4 | 0.0 | 0.0 | 0.0 |
| 77.5° | 649.8 | 291.1 | 57.5 | 40.6 | 30.5 | 16.9 | 10.2 | 3.4 | 0.0 | 0.0 | 0.0 |
| 80° | 192.9 | 108.3 | 47.4 | 33.8 | 23.7 | 13.5 | 6.8 | 3.4 | 0.0 | 0.0 | 0.0 |
| 82.5° | 88.0 | 64.3 | 40.6 | 30.5 | 20.3 | 13.5 | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 33.8 | 20.3 | 20.3 | 16.9 | 16.9 | 10.2 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 13.5 | 6.8 | 6.8 | 6.8 | 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)