

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: P479263

Luminaire Tested: **IFLD-S-SA6A-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479263
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

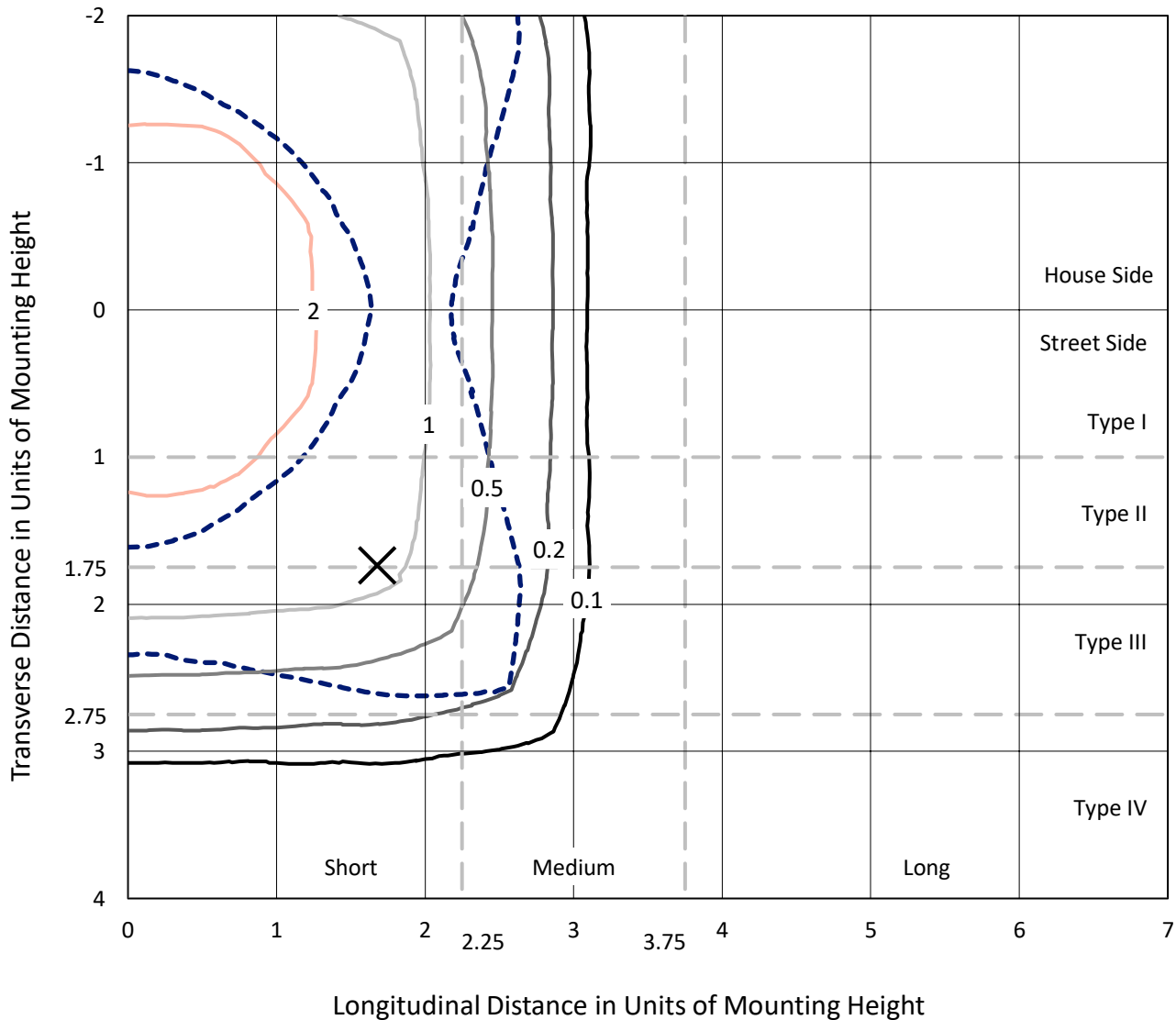
Lumens per Lamp: N/A
Luminaire Lumens: 24808.3 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 189.6
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

REPORT NUMBER: P479263
 CATALOG NUMBER: IFLD-S-SA6A-730-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

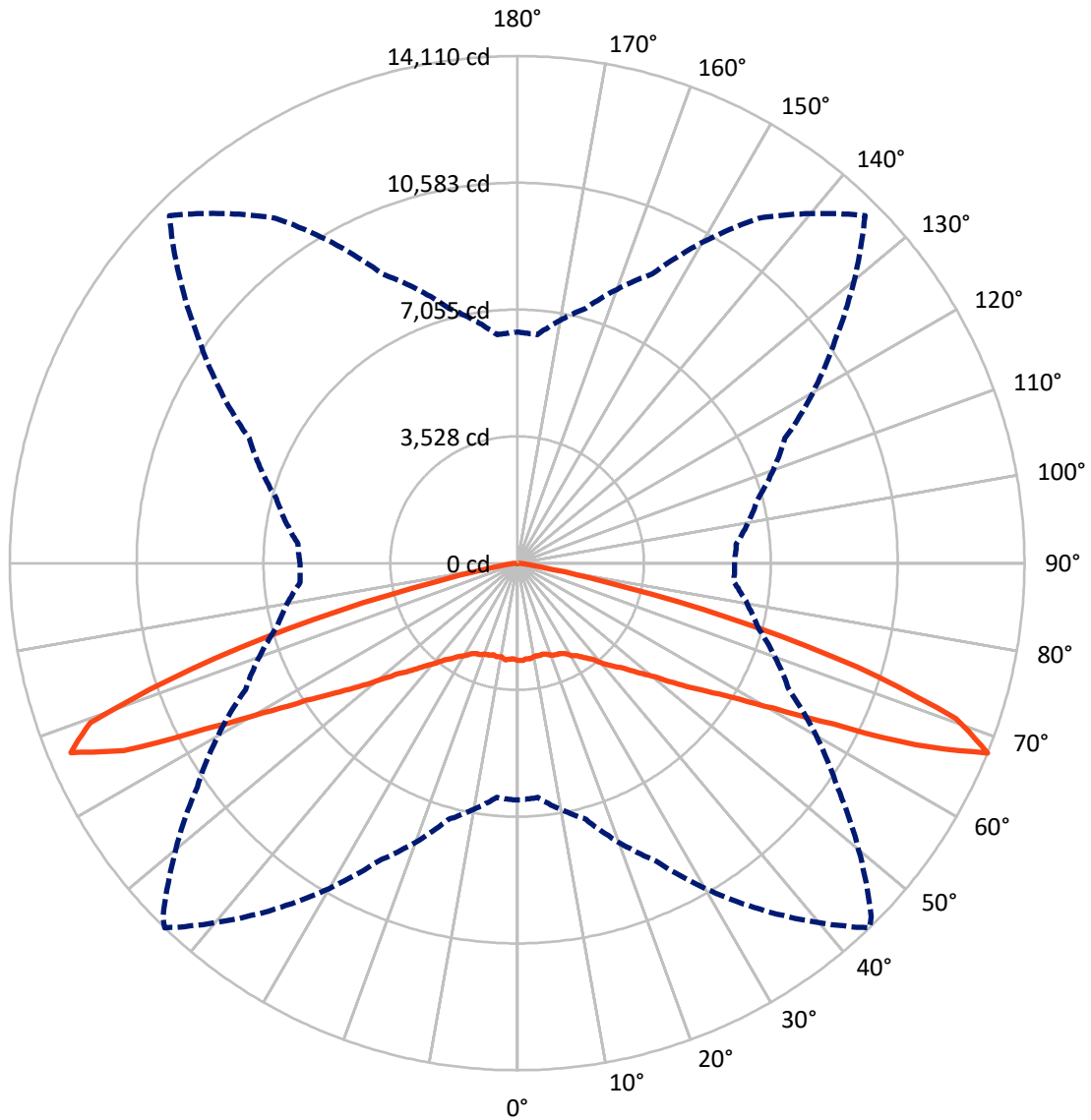
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

REPORT NUMBER: P479263
CATALOG NUMBER: IFLD-S-SA6A-730-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479263
 CATALOG NUMBER: IFLD-S-SA6A-730-U-5MQ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12372.4 | 0.0 | 12372.4 |
| | % Fixture | 49.9 | 0.0 | 49.9 |
| Street Side | Lumens | 12435.9 | 0.0 | 12435.9 |
| | % Fixture | 50.1 | 0.0 | 50.1 |
| Total | Lumens | 24808.3 | 0.0 | 24808.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 256.4 | 1.0 |
| 10°-20° | 749.2 | 3.0 |
| 20°-30° | 1274.0 | 5.1 |
| 30°-40° | 2020.0 | 8.1 |
| 40°-50° | 3293.8 | 13.3 |
| 50°-60° | 5625.3 | 22.7 |
| 60°-70° | 8556.0 | 34.5 |
| 70°-80° | 2883.9 | 11.6 |
| 80°-90° | 149.7 | 0.6 |
| 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° | 24808.3 | 100.0 |
| 0°-180° | 24808.3 | 100.0 |

Coefficient of Utilization

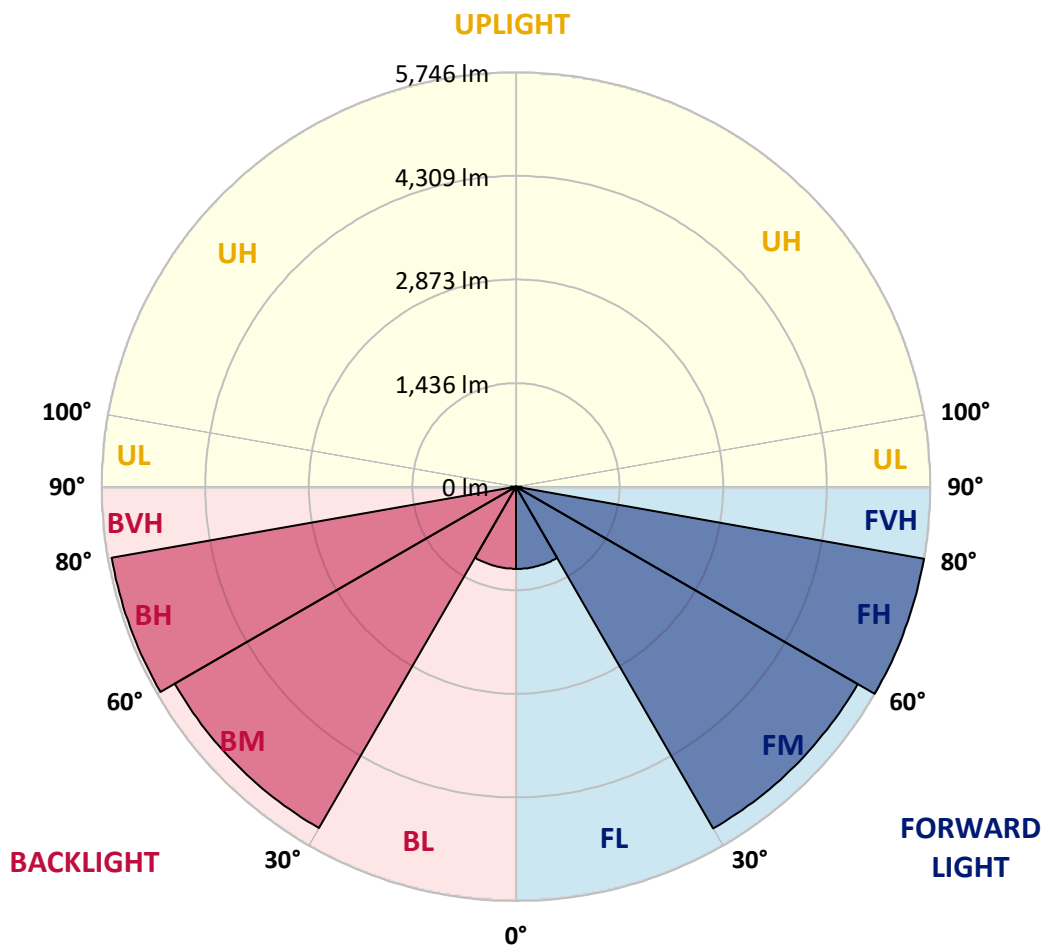


REPORT NUMBER: P479263
 CATALOG NUMBER: IFLD-S-SA6A-730-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1141.0 | 4.6 | | | |
| FM (30°-60°) | 5472.5 | 22.1 | | | |
| FH (60°-80°) | 5745.9 | 23.2 | | | G3/7500 |
| FVH (80°-90°) | 76.6 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1138.6 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 5466.6 | 22.0 | B4/8500 | | |
| BH (60°-80°) | 5694.0 | 23.0 | B5 | | G3/7500 |
| BVH (80°-90°) | 73.1 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3
 Type V Short





REPORT NUMBER: P479263
 CATALOG NUMBER: IFLD-S-SA6A-730-U-5MQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 |
| 2.5° | 2647.6 | 2678.7 | 2701.4 | 2698.6 | 2707.0 | 2715.5 | 2704.2 | 2721.2 | 2709.9 | 2729.7 | 2741.0 |
| 5° | 2698.6 | 2690.1 | 2692.9 | 2675.9 | 2715.5 | 2670.2 | 2670.2 | 2692.9 | 2721.2 | 2687.2 | 2707.0 |
| 7.5° | 2667.4 | 2661.7 | 2647.6 | 2673.1 | 2681.6 | 2681.6 | 2704.2 | 2661.7 | 2709.9 | 2721.2 | 2724.0 |
| 10° | 2633.4 | 2602.3 | 2644.7 | 2670.2 | 2675.9 | 2630.6 | 2650.4 | 2661.7 | 2647.6 | 2661.7 | 2670.2 |
| 12.5° | 2605.1 | 2622.1 | 2622.1 | 2622.1 | 2613.6 | 2644.7 | 2664.6 | 2661.7 | 2633.4 | 2658.9 | 2613.6 |
| 15° | 2602.3 | 2593.8 | 2619.3 | 2641.9 | 2627.8 | 2633.4 | 2641.9 | 2667.4 | 2613.6 | 2624.9 | 2624.9 |
| 17.5° | 2599.4 | 2610.8 | 2619.3 | 2616.4 | 2664.6 | 2664.6 | 2656.1 | 2639.1 | 2681.6 | 2658.9 | 2627.8 |
| 20° | 2610.8 | 2602.3 | 2624.9 | 2633.4 | 2667.4 | 2735.4 | 2709.9 | 2695.7 | 2673.1 | 2644.7 | 2644.7 |
| 22.5° | 2624.9 | 2619.3 | 2650.4 | 2687.2 | 2752.4 | 2769.3 | 2766.5 | 2749.5 | 2709.9 | 2675.9 | 2670.2 |
| 25° | 2675.9 | 2624.9 | 2658.9 | 2729.7 | 2752.4 | 2786.3 | 2809.0 | 2786.3 | 2732.5 | 2741.0 | 2690.1 |
| 27.5° | 2752.4 | 2743.9 | 2789.2 | 2837.3 | 2817.5 | 2848.6 | 2828.8 | 2845.8 | 2848.6 | 2806.2 | 2755.2 |
| 30° | 2843.0 | 2817.5 | 2845.8 | 2939.2 | 2947.7 | 2981.7 | 2947.7 | 2902.4 | 2916.6 | 2879.8 | 2854.3 |
| 32.5° | 2973.2 | 2964.7 | 3018.5 | 3080.8 | 3092.1 | 3075.2 | 3058.2 | 3083.7 | 3024.2 | 2995.9 | 2950.6 |
| 35° | 3058.2 | 3095.0 | 3160.1 | 3208.2 | 3245.1 | 3228.1 | 3236.6 | 3211.1 | 3225.2 | 3165.8 | 3145.9 |
| 37.5° | 3310.2 | 3296.0 | 3310.2 | 3392.3 | 3400.8 | 3392.3 | 3400.8 | 3429.1 | 3409.3 | 3358.3 | 3307.4 |
| 40° | 3548.0 | 3525.4 | 3559.4 | 3652.8 | 3647.1 | 3675.5 | 3618.8 | 3650.0 | 3650.0 | 3553.7 | 3533.9 |
| 42.5° | 3726.4 | 3802.9 | 3842.5 | 3919.0 | 3947.3 | 3921.8 | 3910.5 | 3916.2 | 3978.5 | 3865.2 | 3822.7 |
| 45° | 4094.5 | 4091.7 | 4210.6 | 4253.1 | 4173.8 | 4168.2 | 4145.5 | 4213.5 | 4256.0 | 4190.8 | 4173.8 |
| 47.5° | 4493.8 | 4513.6 | 4581.6 | 4598.6 | 4646.7 | 4558.9 | 4558.9 | 4567.4 | 4717.5 | 4564.6 | 4485.3 |
| 50° | 4853.4 | 4878.9 | 5014.8 | 5147.9 | 5057.3 | 4963.9 | 5000.7 | 5046.0 | 5128.1 | 4983.7 | 4915.7 |
| 52.5° | 5289.5 | 5428.2 | 5518.9 | 5589.7 | 5654.8 | 5589.7 | 5504.7 | 5555.7 | 5717.1 | 5524.5 | 5439.6 |
| 55° | 5918.1 | 6028.6 | 6113.5 | 6243.8 | 6297.6 | 6209.8 | 6201.3 | 6195.6 | 6286.2 | 6082.4 | 5966.3 |
| 57.5° | 6620.4 | 6575.1 | 6711.0 | 6912.0 | 7107.4 | 7022.5 | 6997.0 | 7002.6 | 7025.3 | 6736.5 | 6648.7 |
| 60° | 7492.5 | 7543.5 | 7704.9 | 7880.4 | 8087.2 | 8206.1 | 8039.0 | 7942.7 | 7962.6 | 7569.0 | 7433.0 |
| 62.5° | 7990.9 | 8104.1 | 8469.4 | 9072.6 | 9488.8 | 9859.8 | 9885.2 | 9259.5 | 8840.4 | 8075.8 | 7498.2 |
| 65° | 7750.2 | 7733.2 | 8421.3 | 9537.0 | 11114.2 | 12193.0 | 12031.6 | 10513.9 | 9049.9 | 7835.1 | 7059.3 |
| 67.5° | 6592.1 | 6546.7 | 7379.2 | 9149.0 | 11754.1 | 14110.0 | 13926.0 | 10867.8 | 8342.0 | 6931.8 | 6054.0 |
| 70° | 4247.5 | 4236.1 | 5139.4 | 6974.3 | 10494.0 | 12954.7 | 13022.7 | 9871.1 | 6790.3 | 5077.1 | 4207.8 |
| 72.5° | 1543.2 | 1636.7 | 2160.5 | 3749.1 | 7127.2 | 9910.7 | 9953.2 | 7308.5 | 3904.8 | 2347.4 | 1730.1 |
| 75° | 569.2 | 586.1 | 682.4 | 1217.6 | 3247.9 | 6085.2 | 6243.8 | 3545.2 | 1387.5 | 764.5 | 623.0 |
| 77.5° | 328.5 | 331.3 | 365.3 | 453.1 | 962.8 | 2375.7 | 2472.0 | 1076.0 | 538.0 | 407.8 | 376.6 |
| 80° | 223.7 | 220.9 | 257.7 | 294.5 | 385.1 | 673.9 | 716.4 | 450.2 | 339.8 | 283.2 | 237.9 |
| 82.5° | 130.3 | 138.8 | 189.7 | 209.5 | 235.0 | 297.3 | 303.0 | 280.3 | 254.8 | 209.5 | 155.7 |
| 85° | 79.3 | 65.1 | 104.8 | 116.1 | 135.9 | 133.1 | 133.1 | 152.9 | 164.2 | 147.2 | 87.8 |
| 87.5° | 19.8 | 19.8 | 25.5 | 28.3 | 36.8 | 28.3 | 31.1 | 59.5 | 79.3 | 73.6 | 45.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P479263
 CATALOG NUMBER: IFLD-S-SA6A-730-U-5MQ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 | 2709.9 |
| 2.5° | 2715.5 | 2707.0 | 2712.7 | 2743.9 | 2724.0 | 2664.6 | 2678.7 | 2709.9 | 2684.4 | 2670.2 | 2667.4 |
| 5° | 2704.2 | 2721.2 | 2701.4 | 2707.0 | 2726.9 | 2678.7 | 2687.2 | 2726.9 | 2709.9 | 2715.5 | 2684.4 |
| 7.5° | 2707.0 | 2715.5 | 2698.6 | 2673.1 | 2673.1 | 2712.7 | 2690.1 | 2695.7 | 2670.2 | 2712.7 | 2656.1 |
| 10° | 2690.1 | 2667.4 | 2647.6 | 2661.7 | 2656.1 | 2644.7 | 2636.3 | 2653.2 | 2627.8 | 2664.6 | 2624.9 |
| 12.5° | 2639.1 | 2644.7 | 2639.1 | 2633.4 | 2644.7 | 2673.1 | 2627.8 | 2633.4 | 2593.8 | 2599.4 | 2619.3 |
| 15° | 2619.3 | 2636.3 | 2630.6 | 2661.7 | 2675.9 | 2633.4 | 2667.4 | 2633.4 | 2602.3 | 2585.3 | 2616.4 |
| 17.5° | 2627.8 | 2653.2 | 2644.7 | 2667.4 | 2641.9 | 2673.1 | 2678.7 | 2664.6 | 2627.8 | 2613.6 | 2627.8 |
| 20° | 2636.3 | 2627.8 | 2639.1 | 2678.7 | 2715.5 | 2684.4 | 2684.4 | 2675.9 | 2641.9 | 2622.1 | 2622.1 |
| 22.5° | 2656.1 | 2641.9 | 2658.9 | 2690.1 | 2701.4 | 2749.5 | 2707.0 | 2687.2 | 2630.6 | 2579.6 | 2627.8 |
| 25° | 2695.7 | 2704.2 | 2715.5 | 2704.2 | 2766.5 | 2760.8 | 2755.2 | 2741.0 | 2653.2 | 2656.1 | 2647.6 |
| 27.5° | 2772.2 | 2724.0 | 2738.2 | 2806.2 | 2814.6 | 2837.3 | 2809.0 | 2834.5 | 2741.0 | 2743.9 | 2687.2 |
| 30° | 2865.6 | 2814.6 | 2860.0 | 2919.4 | 2916.6 | 2959.1 | 2944.9 | 2950.6 | 2885.4 | 2848.6 | 2772.2 |
| 32.5° | 2967.6 | 2961.9 | 2990.2 | 3027.0 | 3041.2 | 3063.8 | 3061.0 | 3061.0 | 3021.4 | 2925.1 | 2939.2 |
| 35° | 3080.8 | 3120.5 | 3154.4 | 3194.1 | 3199.7 | 3228.1 | 3188.4 | 3194.1 | 3154.4 | 3083.7 | 3106.3 |
| 37.5° | 3304.5 | 3301.7 | 3338.5 | 3386.6 | 3392.3 | 3369.6 | 3400.8 | 3386.6 | 3332.8 | 3284.7 | 3247.9 |
| 40° | 3565.0 | 3508.4 | 3542.4 | 3655.6 | 3664.1 | 3624.5 | 3621.7 | 3618.8 | 3579.2 | 3474.4 | 3451.8 |
| 42.5° | 3791.6 | 3865.2 | 3859.5 | 3896.3 | 3870.8 | 3851.0 | 3921.8 | 3882.2 | 3851.0 | 3740.6 | 3720.8 |
| 45° | 4083.2 | 4105.9 | 4179.5 | 4298.4 | 4176.7 | 4176.7 | 4224.8 | 4193.7 | 4176.7 | 4094.5 | 4018.1 |
| 47.5° | 4445.7 | 4465.5 | 4612.7 | 4621.2 | 4541.9 | 4488.1 | 4638.2 | 4643.9 | 4573.1 | 4510.8 | 4417.4 |
| 50° | 4870.4 | 4878.9 | 5012.0 | 5147.9 | 5060.1 | 4958.2 | 5111.1 | 5170.6 | 5012.0 | 4927.0 | 4811.0 |
| 52.5° | 5337.6 | 5312.2 | 5422.6 | 5677.4 | 5592.5 | 5561.3 | 5725.6 | 5739.7 | 5524.5 | 5391.4 | 5422.6 |
| 55° | 5875.6 | 5841.7 | 6141.8 | 6314.6 | 6260.7 | 6204.1 | 6277.7 | 6311.7 | 6139.0 | 5921.0 | 5997.4 |
| 57.5° | 6572.2 | 6589.2 | 6739.3 | 6909.2 | 6997.0 | 7011.1 | 7045.1 | 7011.1 | 6835.6 | 6614.7 | 6543.9 |
| 60° | 7268.8 | 7319.8 | 7611.4 | 7931.4 | 7959.7 | 8208.9 | 8163.6 | 7993.7 | 7744.5 | 7430.2 | 7444.4 |
| 62.5° | 7526.5 | 7484.0 | 7954.1 | 8735.6 | 9401.0 | 9856.9 | 9655.9 | 9052.7 | 8475.1 | 7903.1 | 7945.6 |
| 65° | 7008.3 | 7113.1 | 7753.0 | 8976.3 | 10420.4 | 12224.2 | 11153.8 | 9486.0 | 8319.3 | 7580.3 | 7498.2 |
| 67.5° | 6039.9 | 6119.2 | 6931.8 | 8223.1 | 10785.7 | 13679.6 | 11720.1 | 8874.4 | 7336.8 | 6379.7 | 6430.6 |
| 70° | 4207.8 | 4247.5 | 5043.1 | 6736.5 | 9780.5 | 12909.4 | 10573.3 | 6815.8 | 5065.8 | 4037.9 | 4094.5 |
| 72.5° | 1693.3 | 1789.6 | 2313.4 | 4057.7 | 7220.7 | 9808.8 | 7118.7 | 3576.4 | 2101.1 | 1563.1 | 1418.7 |
| 75° | 625.8 | 628.6 | 739.1 | 1396.0 | 3429.1 | 6164.5 | 3211.1 | 1149.6 | 671.1 | 549.3 | 523.9 |
| 77.5° | 362.4 | 359.6 | 385.1 | 504.0 | 993.9 | 2406.9 | 911.8 | 450.2 | 365.3 | 328.5 | 314.3 |
| 80° | 226.5 | 223.7 | 263.3 | 334.1 | 436.1 | 659.8 | 385.1 | 280.3 | 246.4 | 212.4 | 212.4 |
| 82.5° | 144.4 | 147.2 | 206.7 | 246.4 | 266.2 | 291.7 | 223.7 | 198.2 | 184.1 | 121.8 | 118.9 |
| 85° | 93.4 | 84.9 | 144.4 | 164.2 | 147.2 | 130.3 | 124.6 | 104.8 | 96.3 | 59.5 | 65.1 |
| 87.5° | 42.5 | 45.3 | 73.6 | 82.1 | 53.8 | 31.1 | 31.1 | 22.7 | 22.7 | 14.2 | 14.2 |
| 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)