

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: P479498

Luminaire Tested: **IFLD-S-SA6B-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479498
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

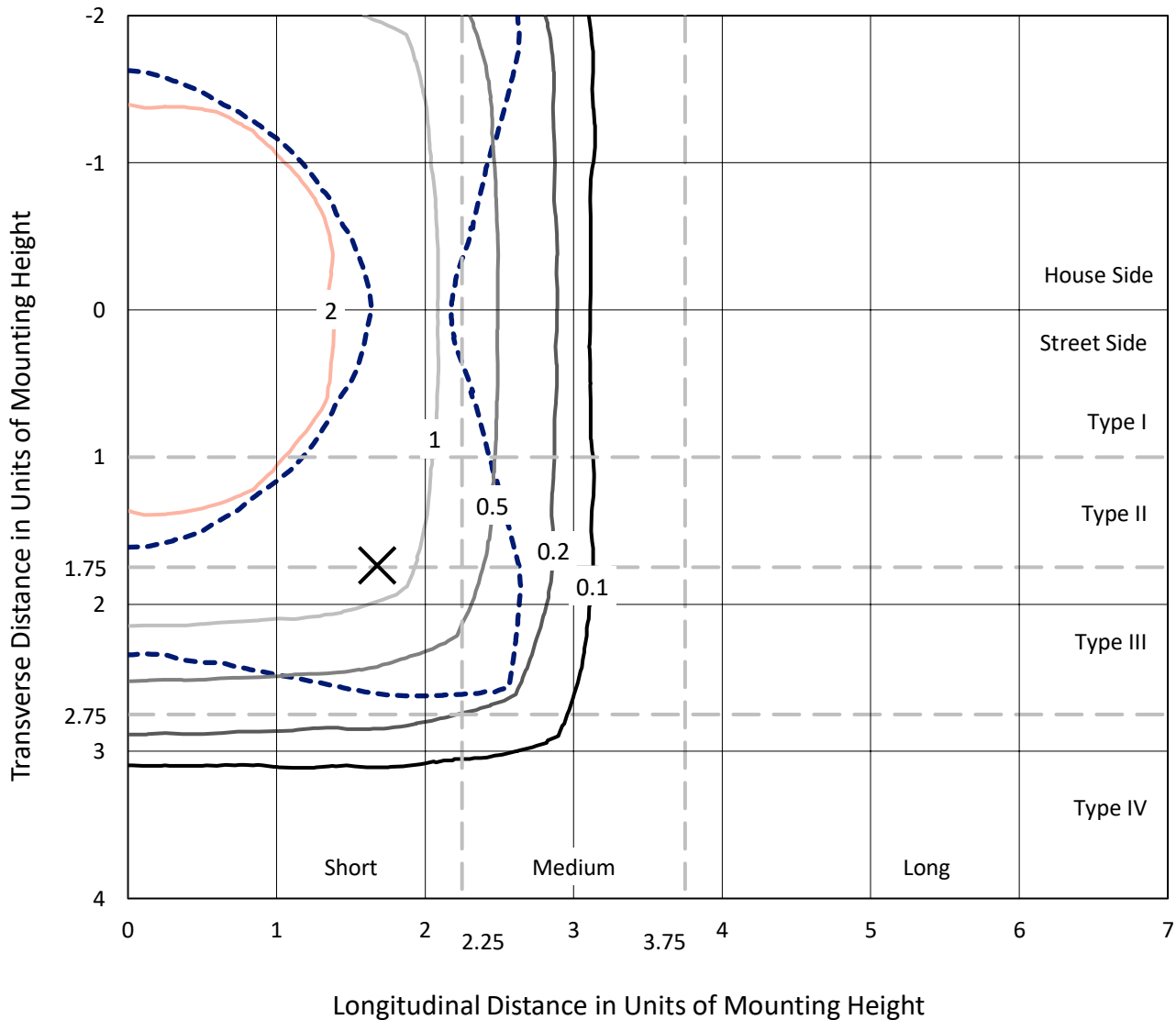
Lumens per Lamp: N/A
Luminaire Lumens: 26773 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 244.9
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: P479498
 CATALOG NUMBER: IFLD-S-SA6B-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

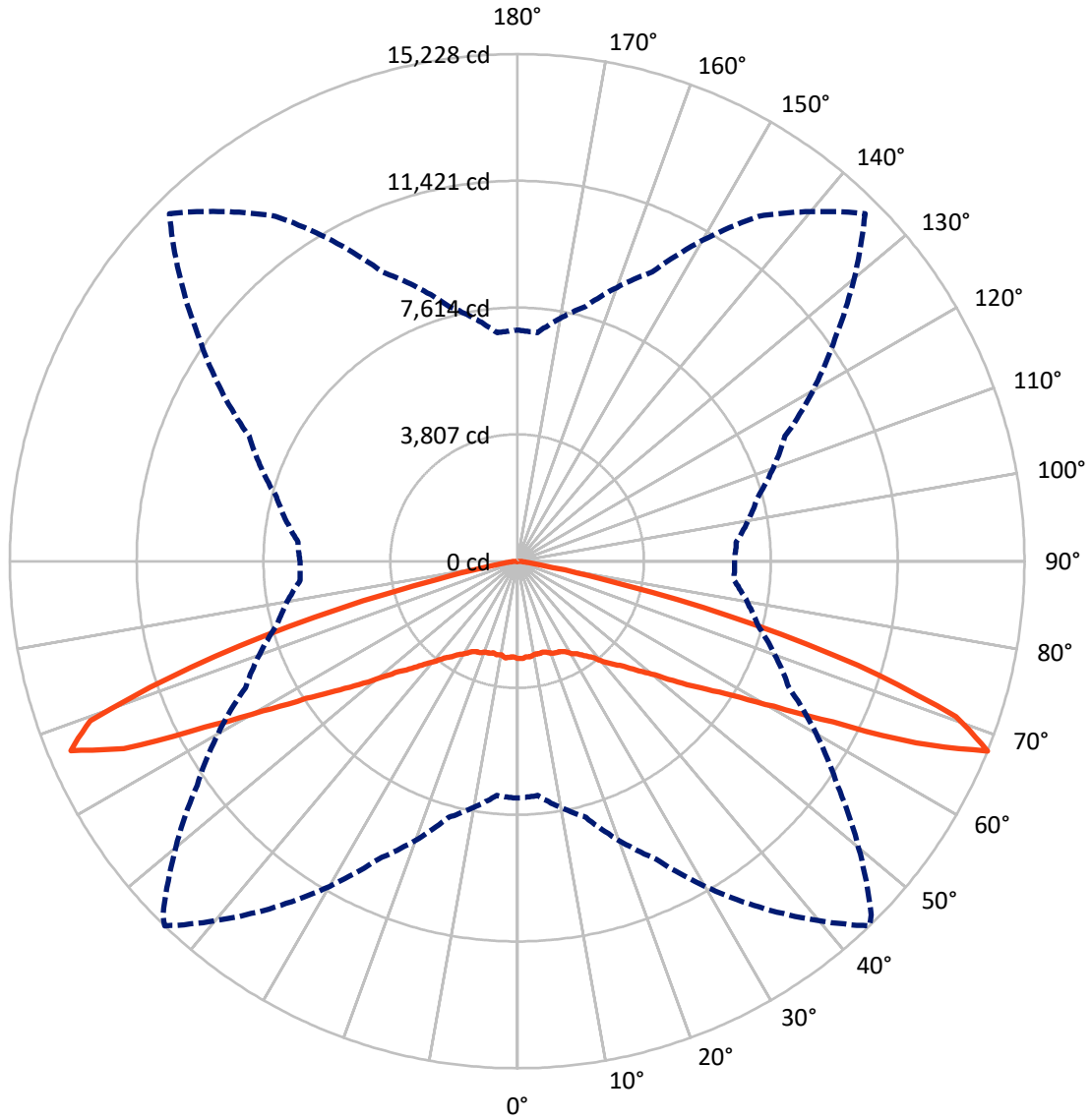
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

REPORT NUMBER: P479498
CATALOG NUMBER: IFLD-S-SA6B-830-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479498
 CATALOG NUMBER: IFLD-S-SA6B-830-U-5MQ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13352.2 | 0.0 | 13352.2 |
| | % Fixture | 49.9 | 0.0 | 49.9 |
| Street Side | Lumens | 13420.8 | 0.0 | 13420.8 |
| | % Fixture | 50.1 | 0.0 | 50.1 |
| Total | Lumens | 26773.0 | 0.0 | 26773.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 276.7 | 1.0 |
| 10°-20° | 808.5 | 3.0 |
| 20°-30° | 1374.9 | 5.1 |
| 30°-40° | 2180.0 | 8.1 |
| 40°-50° | 3554.6 | 13.3 |
| 50°-60° | 6070.8 | 22.7 |
| 60°-70° | 9233.6 | 34.5 |
| 70°-80° | 3112.3 | 11.6 |
| 80°-90° | 161.6 | 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° | 26773.0 | 100.0 |
| 0°-180° | 26773.0 | 100.0 |

Coefficient of Utilization

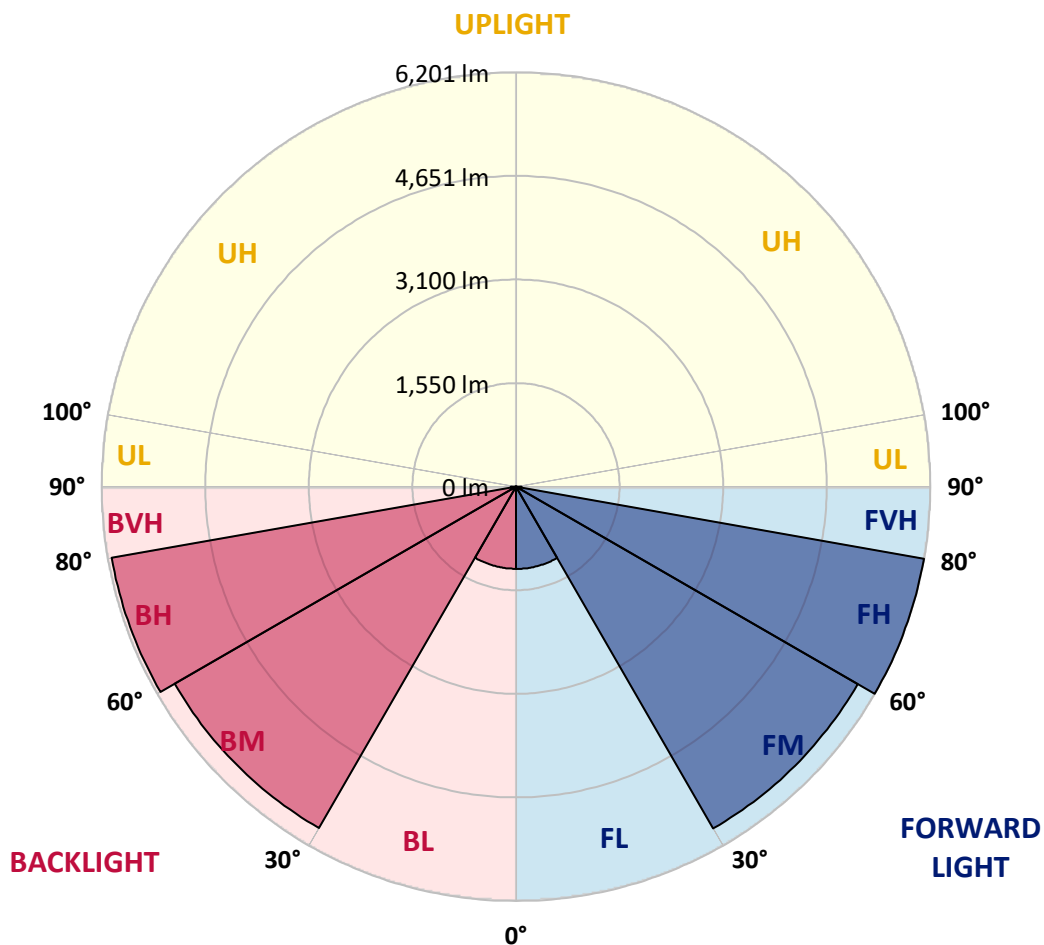


REPORT NUMBER: P479498
 CATALOG NUMBER: IFLD-S-SA6B-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1231.3 | 4.6 | | | |
| FM (30°-60°) | 5905.9 | 22.1 | | | |
| FH (60°-80°) | 6200.9 | 23.2 | | | G3/7500 |
| FVH (80°-90°) | 82.7 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1228.8 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 5899.5 | 22.0 | B4/8500 | | |
| BH (60°-80°) | 6145.0 | 23.0 | B5 | | G3/7500 |
| BVH (80°-90°) | 78.9 | 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: P479498
 CATALOG NUMBER: IFLD-S-SA6B-830-U-5MQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 |
| 2.5° | 2857.3 | 2890.9 | 2915.3 | 2912.3 | 2921.4 | 2930.6 | 2918.4 | 2936.7 | 2924.5 | 2945.9 | 2958.1 |
| 5° | 2912.3 | 2903.1 | 2906.2 | 2887.8 | 2930.6 | 2881.7 | 2881.7 | 2906.2 | 2936.7 | 2900.0 | 2921.4 |
| 7.5° | 2878.7 | 2872.5 | 2857.3 | 2884.8 | 2893.9 | 2893.9 | 2918.4 | 2872.5 | 2924.5 | 2936.7 | 2939.8 |
| 10° | 2842.0 | 2808.4 | 2854.2 | 2881.7 | 2887.8 | 2838.9 | 2860.3 | 2872.5 | 2857.3 | 2872.5 | 2881.7 |
| 12.5° | 2811.4 | 2829.8 | 2829.8 | 2829.8 | 2820.6 | 2854.2 | 2875.6 | 2872.5 | 2842.0 | 2869.5 | 2820.6 |
| 15° | 2808.4 | 2799.2 | 2826.7 | 2851.2 | 2835.9 | 2842.0 | 2851.2 | 2878.7 | 2820.6 | 2832.8 | 2832.8 |
| 17.5° | 2805.3 | 2817.5 | 2826.7 | 2823.6 | 2875.6 | 2875.6 | 2866.4 | 2848.1 | 2893.9 | 2869.5 | 2835.9 |
| 20° | 2817.5 | 2808.4 | 2832.8 | 2842.0 | 2878.7 | 2952.0 | 2924.5 | 2909.2 | 2884.8 | 2854.2 | 2854.2 |
| 22.5° | 2832.8 | 2826.7 | 2860.3 | 2900.0 | 2970.3 | 2988.7 | 2985.6 | 2967.3 | 2924.5 | 2887.8 | 2881.7 |
| 25° | 2887.8 | 2832.8 | 2869.5 | 2945.9 | 2970.3 | 3007.0 | 3031.4 | 3007.0 | 2948.9 | 2958.1 | 2903.1 |
| 27.5° | 2970.3 | 2961.2 | 3010.1 | 3062.0 | 3040.6 | 3074.2 | 3052.8 | 3071.2 | 3074.2 | 3028.4 | 2973.4 |
| 30° | 3068.1 | 3040.6 | 3071.2 | 3172.0 | 3181.2 | 3217.9 | 3181.2 | 3132.3 | 3147.6 | 3107.8 | 3080.3 |
| 32.5° | 3208.7 | 3199.5 | 3257.6 | 3324.8 | 3337.0 | 3318.7 | 3300.4 | 3327.9 | 3263.7 | 3233.1 | 3184.2 |
| 35° | 3300.4 | 3340.1 | 3410.4 | 3462.3 | 3502.1 | 3483.7 | 3492.9 | 3465.4 | 3480.7 | 3416.5 | 3395.1 |
| 37.5° | 3572.3 | 3557.1 | 3572.3 | 3661.0 | 3670.1 | 3661.0 | 3670.1 | 3700.7 | 3679.3 | 3624.3 | 3569.3 |
| 40° | 3829.0 | 3804.6 | 3841.3 | 3942.1 | 3936.0 | 3966.6 | 3905.4 | 3939.1 | 3939.1 | 3835.2 | 3813.8 |
| 42.5° | 4021.6 | 4104.1 | 4146.9 | 4229.4 | 4259.9 | 4232.4 | 4220.2 | 4226.3 | 4293.5 | 4171.3 | 4125.5 |
| 45° | 4418.8 | 4415.8 | 4544.1 | 4590.0 | 4504.4 | 4498.3 | 4473.8 | 4547.2 | 4593.0 | 4522.7 | 4504.4 |
| 47.5° | 4849.7 | 4871.1 | 4944.4 | 4962.8 | 5014.7 | 4920.0 | 4920.0 | 4929.2 | 5091.1 | 4926.1 | 4840.5 |
| 50° | 5237.8 | 5265.3 | 5412.0 | 5555.6 | 5457.8 | 5357.0 | 5396.7 | 5445.6 | 5534.2 | 5378.4 | 5305.0 |
| 52.5° | 5708.4 | 5858.2 | 5955.9 | 6032.3 | 6102.6 | 6032.3 | 5940.7 | 5995.7 | 6169.9 | 5962.1 | 5870.4 |
| 55° | 6386.8 | 6506.0 | 6597.7 | 6738.3 | 6796.3 | 6701.6 | 6692.4 | 6686.3 | 6784.1 | 6564.1 | 6438.8 |
| 57.5° | 7144.7 | 7095.8 | 7242.5 | 7459.4 | 7670.3 | 7578.6 | 7551.1 | 7557.2 | 7581.7 | 7270.0 | 7175.2 |
| 60° | 8085.9 | 8140.9 | 8315.1 | 8504.6 | 8727.6 | 8856.0 | 8675.7 | 8571.8 | 8593.2 | 8168.4 | 8021.7 |
| 62.5° | 8623.7 | 8746.0 | 9140.2 | 9791.1 | 10240.3 | 10640.6 | 10668.1 | 9992.8 | 9540.5 | 8715.4 | 8092.0 |
| 65° | 8364.0 | 8345.7 | 9088.2 | 10292.3 | 11994.4 | 13158.7 | 12984.5 | 11346.5 | 9766.6 | 8455.7 | 7618.4 |
| 67.5° | 7114.1 | 7065.2 | 7963.7 | 9873.6 | 12685.0 | 15227.5 | 15028.9 | 11728.5 | 9002.7 | 7480.8 | 6533.5 |
| 70° | 4583.8 | 4571.6 | 5546.5 | 7526.7 | 11325.2 | 13980.7 | 14054.1 | 10652.9 | 7328.0 | 5479.2 | 4541.1 |
| 72.5° | 1665.5 | 1766.3 | 2331.6 | 4046.0 | 7691.7 | 10695.6 | 10741.5 | 7887.3 | 4214.1 | 2533.3 | 1867.2 |
| 75° | 614.2 | 632.6 | 736.5 | 1314.0 | 3505.1 | 6567.1 | 6738.3 | 3826.0 | 1497.4 | 825.1 | 672.3 |
| 77.5° | 354.5 | 357.5 | 394.2 | 488.9 | 1039.0 | 2563.9 | 2667.8 | 1161.2 | 580.6 | 440.0 | 406.4 |
| 80° | 241.4 | 238.4 | 278.1 | 317.8 | 415.6 | 727.3 | 773.1 | 485.9 | 366.7 | 305.6 | 256.7 |
| 82.5° | 140.6 | 149.7 | 204.7 | 226.1 | 253.6 | 320.9 | 327.0 | 302.5 | 275.0 | 226.1 | 168.1 |
| 85° | 85.6 | 70.3 | 113.1 | 125.3 | 146.7 | 143.6 | 143.6 | 165.0 | 177.2 | 158.9 | 94.7 |
| 87.5° | 21.4 | 21.4 | 27.5 | 30.6 | 39.7 | 30.6 | 33.6 | 64.2 | 85.6 | 79.5 | 48.9 |
| 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: P479498
 CATALOG NUMBER: IFLD-S-SA6B-830-U-5MQ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 | 2924.5 |
| 2.5° | 2930.6 | 2921.4 | 2927.5 | 2961.2 | 2939.8 | 2875.6 | 2890.9 | 2924.5 | 2897.0 | 2881.7 | 2878.7 |
| 5° | 2918.4 | 2936.7 | 2915.3 | 2921.4 | 2942.8 | 2890.9 | 2900.0 | 2942.8 | 2924.5 | 2930.6 | 2897.0 |
| 7.5° | 2921.4 | 2930.6 | 2912.3 | 2884.8 | 2884.8 | 2927.5 | 2903.1 | 2909.2 | 2881.7 | 2927.5 | 2866.4 |
| 10° | 2903.1 | 2878.7 | 2857.3 | 2872.5 | 2866.4 | 2854.2 | 2845.0 | 2863.4 | 2835.9 | 2875.6 | 2832.8 |
| 12.5° | 2848.1 | 2854.2 | 2848.1 | 2842.0 | 2854.2 | 2884.8 | 2835.9 | 2842.0 | 2799.2 | 2805.3 | 2826.7 |
| 15° | 2826.7 | 2845.0 | 2838.9 | 2872.5 | 2887.8 | 2842.0 | 2878.7 | 2842.0 | 2808.4 | 2790.0 | 2823.6 |
| 17.5° | 2835.9 | 2863.4 | 2854.2 | 2878.7 | 2851.2 | 2884.8 | 2890.9 | 2875.6 | 2835.9 | 2820.6 | 2835.9 |
| 20° | 2845.0 | 2835.9 | 2848.1 | 2890.9 | 2930.6 | 2897.0 | 2897.0 | 2887.8 | 2851.2 | 2829.8 | 2829.8 |
| 22.5° | 2866.4 | 2851.2 | 2869.5 | 2903.1 | 2915.3 | 2967.3 | 2921.4 | 2900.0 | 2838.9 | 2783.9 | 2835.9 |
| 25° | 2909.2 | 2918.4 | 2930.6 | 2918.4 | 2985.6 | 2979.5 | 2973.4 | 2958.1 | 2863.4 | 2866.4 | 2857.3 |
| 27.5° | 2991.7 | 2939.8 | 2955.1 | 3028.4 | 3037.6 | 3062.0 | 3031.4 | 3059.0 | 2958.1 | 2961.2 | 2900.0 |
| 30° | 3092.6 | 3037.6 | 3086.5 | 3150.6 | 3147.6 | 3193.4 | 3178.1 | 3184.2 | 3114.0 | 3074.2 | 2991.7 |
| 32.5° | 3202.6 | 3196.5 | 3227.0 | 3266.8 | 3282.0 | 3306.5 | 3303.4 | 3303.4 | 3260.6 | 3156.7 | 3172.0 |
| 35° | 3324.8 | 3367.6 | 3404.3 | 3447.1 | 3453.2 | 3483.7 | 3440.9 | 3447.1 | 3404.3 | 3327.9 | 3352.3 |
| 37.5° | 3566.2 | 3563.2 | 3602.9 | 3654.9 | 3661.0 | 3636.5 | 3670.1 | 3654.9 | 3596.8 | 3544.8 | 3505.1 |
| 40° | 3847.4 | 3786.3 | 3822.9 | 3945.2 | 3954.3 | 3911.5 | 3908.5 | 3905.4 | 3862.7 | 3749.6 | 3725.1 |
| 42.5° | 4091.8 | 4171.3 | 4165.2 | 4204.9 | 4177.4 | 4156.0 | 4232.4 | 4189.6 | 4156.0 | 4036.8 | 4015.4 |
| 45° | 4406.6 | 4431.1 | 4510.5 | 4638.9 | 4507.4 | 4507.4 | 4559.4 | 4525.8 | 4507.4 | 4418.8 | 4336.3 |
| 47.5° | 4797.8 | 4819.1 | 4978.1 | 4987.2 | 4901.7 | 4843.6 | 5005.6 | 5011.7 | 4935.3 | 4868.0 | 4767.2 |
| 50° | 5256.1 | 5265.3 | 5408.9 | 5555.6 | 5460.9 | 5350.9 | 5515.9 | 5580.1 | 5408.9 | 5317.3 | 5192.0 |
| 52.5° | 5760.4 | 5732.9 | 5852.0 | 6127.1 | 6035.4 | 6001.8 | 6179.0 | 6194.3 | 5962.1 | 5818.4 | 5852.0 |
| 55° | 6341.0 | 6304.3 | 6628.2 | 6814.6 | 6756.6 | 6695.5 | 6774.9 | 6811.6 | 6625.2 | 6389.9 | 6472.4 |
| 57.5° | 7092.7 | 7111.1 | 7273.0 | 7456.4 | 7551.1 | 7566.4 | 7603.1 | 7566.4 | 7376.9 | 7138.6 | 7062.2 |
| 60° | 7844.5 | 7899.5 | 8214.3 | 8559.6 | 8590.1 | 8859.0 | 8810.2 | 8626.8 | 8357.9 | 8018.7 | 8034.0 |
| 62.5° | 8122.6 | 8076.7 | 8584.0 | 9427.4 | 10145.6 | 10637.6 | 10420.6 | 9769.7 | 9146.3 | 8529.0 | 8574.8 |
| 65° | 7563.3 | 7676.4 | 8367.0 | 9687.2 | 11245.7 | 13192.3 | 12037.2 | 10237.3 | 8978.2 | 8180.6 | 8092.0 |
| 67.5° | 6518.2 | 6603.8 | 7480.8 | 8874.3 | 11639.9 | 14763.0 | 12648.4 | 9577.2 | 7917.8 | 6884.9 | 6939.9 |
| 70° | 4541.1 | 4583.8 | 5442.6 | 7270.0 | 10555.1 | 13931.8 | 11410.7 | 7355.5 | 5467.0 | 4357.7 | 4418.8 |
| 72.5° | 1827.4 | 1931.3 | 2496.7 | 4379.1 | 7792.5 | 10585.6 | 7682.5 | 3859.6 | 2267.5 | 1686.9 | 1531.0 |
| 75° | 675.4 | 678.4 | 797.6 | 1506.6 | 3700.7 | 6652.7 | 3465.4 | 1240.7 | 724.2 | 592.8 | 565.3 |
| 77.5° | 391.2 | 388.1 | 415.6 | 543.9 | 1072.6 | 2597.5 | 984.0 | 485.9 | 394.2 | 354.5 | 339.2 |
| 80° | 244.5 | 241.4 | 284.2 | 360.6 | 470.6 | 712.0 | 415.6 | 302.5 | 265.9 | 229.2 | 229.2 |
| 82.5° | 155.9 | 158.9 | 223.1 | 265.9 | 287.3 | 314.8 | 241.4 | 213.9 | 198.6 | 131.4 | 128.3 |
| 85° | 100.8 | 91.7 | 155.9 | 177.2 | 158.9 | 140.6 | 134.5 | 113.1 | 103.9 | 64.2 | 70.3 |
| 87.5° | 45.8 | 48.9 | 79.5 | 88.6 | 58.1 | 33.6 | 33.6 | 24.4 | 24.4 | 15.3 | 15.3 |
| 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)