

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: P482345

Luminaire Tested: **IFLD-S-SA6B-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482345
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

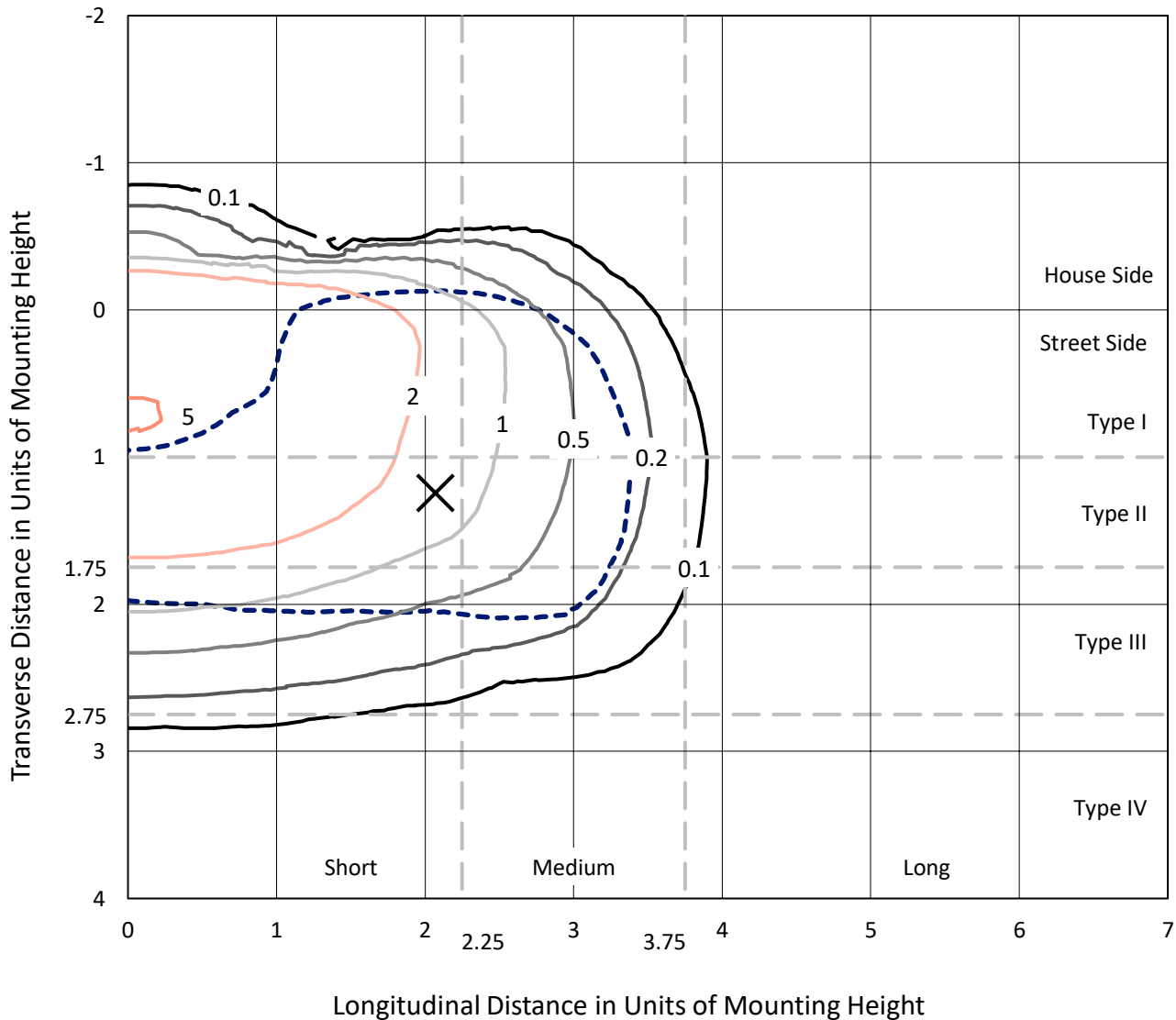
Lumens per Lamp: N/A
Luminaire Lumens: 20713.9 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

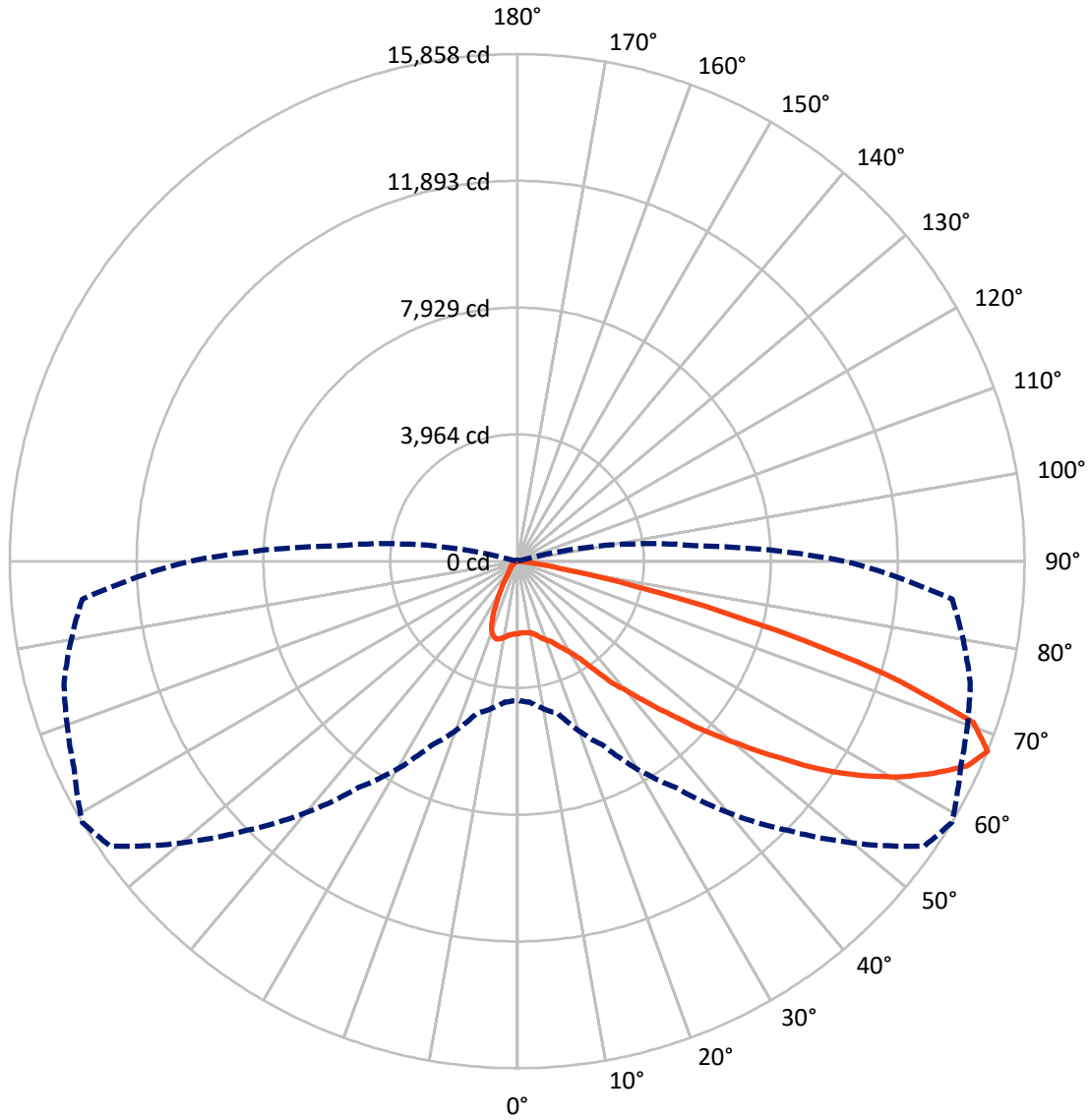
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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 | 2433.2 | 0.0 | 2433.2 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 18280.7 | 0.0 | 18280.7 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 20713.9 | 0.0 | 20713.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 215.8 | 1.0 |
| 10°-20° | 623.4 | 3.0 |
| 20°-30° | 1089.5 | 5.3 |
| 30°-40° | 1918.2 | 9.3 |
| 40°-50° | 3390.8 | 16.4 |
| 50°-60° | 5368.9 | 25.9 |
| 60°-70° | 5955.6 | 28.8 |
| 70°-80° | 2066.5 | 10.0 |
| 80°-90° | 85.1 | 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° | 20713.9 | 100.0 |
| 0°-180° | 20713.9 | 100.0 |

Coefficient of Utilization

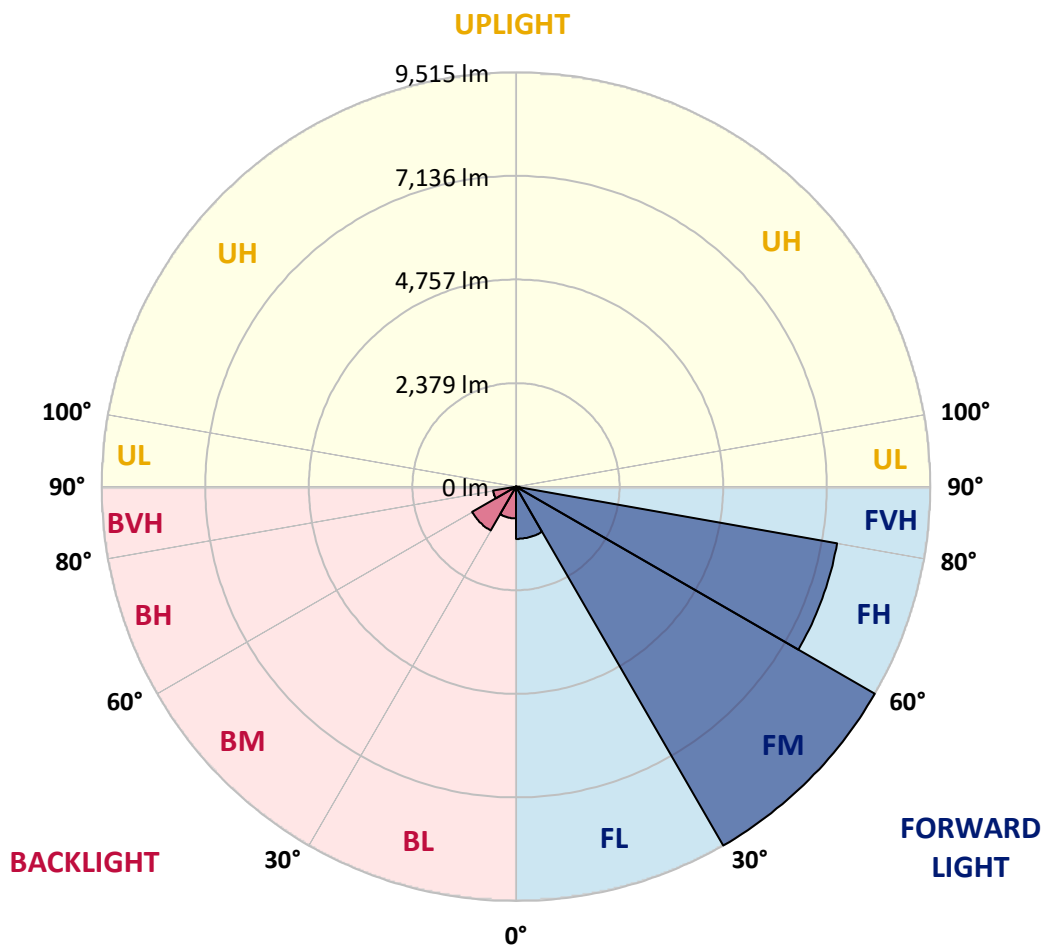


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1199.5 | 5.8 | | | |
| FM (30°-60°) | 9514.7 | 45.9 | | | |
| FH (60°-80°) | 7487.0 | 36.1 | | | G3/7500 |
| FVH (80°-90°) | 79.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 729.2 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1163.3 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 535.1 | 2.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.5 | 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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 |
| 2.5° | 2206.1 | 2174.7 | 2203.3 | 2206.1 | 2209.0 | 2234.7 | 2263.4 | 2243.3 | 2240.5 | 2263.4 | 2283.4 |
| 5° | 2117.4 | 2103.1 | 2137.5 | 2154.6 | 2183.2 | 2206.1 | 2251.9 | 2254.8 | 2257.6 | 2283.4 | 2317.7 |
| 7.5° | 2080.2 | 2045.9 | 2086.0 | 2106.0 | 2126.0 | 2180.4 | 2234.7 | 2263.4 | 2303.4 | 2334.9 | 2369.2 |
| 10° | 2005.8 | 2031.6 | 2043.0 | 2077.4 | 2134.6 | 2197.5 | 2263.4 | 2277.7 | 2366.4 | 2392.1 | 2475.1 |
| 12.5° | 2031.6 | 2048.8 | 2071.6 | 2080.2 | 2143.2 | 2237.6 | 2326.3 | 2332.0 | 2423.6 | 2535.2 | 2578.1 |
| 15° | 2097.4 | 2086.0 | 2094.5 | 2106.0 | 2180.4 | 2257.6 | 2400.7 | 2426.5 | 2512.3 | 2638.2 | 2744.1 |
| 17.5° | 2237.6 | 2217.6 | 2203.3 | 2200.4 | 2217.6 | 2289.1 | 2457.9 | 2535.2 | 2615.3 | 2787.0 | 2841.4 |
| 20° | 2589.6 | 2572.4 | 2515.2 | 2366.4 | 2314.9 | 2343.5 | 2526.6 | 2635.3 | 2746.9 | 2938.6 | 3027.4 |
| 22.5° | 3124.6 | 3141.8 | 3007.3 | 2798.4 | 2583.8 | 2472.2 | 2635.3 | 2729.8 | 2907.2 | 3150.4 | 3230.5 |
| 25° | 3757.0 | 3722.7 | 3559.6 | 3316.4 | 2978.7 | 2715.5 | 2809.9 | 2915.8 | 3133.2 | 3333.5 | 3365.0 |
| 27.5° | 4252.0 | 4212.0 | 4086.1 | 3791.3 | 3499.5 | 3073.1 | 3038.8 | 3104.6 | 3362.1 | 3542.4 | 3508.1 |
| 30° | 4741.3 | 4755.6 | 4669.8 | 4320.7 | 3960.2 | 3510.9 | 3293.5 | 3322.1 | 3519.5 | 3751.3 | 3674.0 |
| 32.5° | 5365.1 | 5330.8 | 5282.1 | 4976.0 | 4549.6 | 4068.9 | 3696.9 | 3651.1 | 3737.0 | 4043.1 | 3951.6 |
| 35° | 5946.0 | 5925.9 | 5860.1 | 5551.1 | 5179.1 | 4655.5 | 4292.1 | 4189.1 | 4169.0 | 4509.6 | 4349.3 |
| 37.5° | 6452.4 | 6418.1 | 6318.0 | 6120.5 | 5760.0 | 5319.3 | 4921.6 | 4830.0 | 4827.2 | 5061.8 | 4752.8 |
| 40° | 6878.8 | 6904.5 | 6893.1 | 6675.6 | 6478.2 | 6126.2 | 5516.8 | 5370.8 | 5359.4 | 5485.3 | 5305.0 |
| 42.5° | 7431.0 | 7491.1 | 7459.6 | 7416.7 | 7179.2 | 7041.9 | 6352.3 | 6129.1 | 6029.0 | 6286.5 | 6123.4 |
| 45° | 8266.6 | 8289.5 | 8309.5 | 8203.6 | 7966.1 | 7994.7 | 7216.4 | 6950.3 | 6924.6 | 7308.0 | 6941.7 |
| 47.5° | 9047.7 | 8987.6 | 9127.8 | 9133.6 | 9122.1 | 8990.5 | 8149.2 | 7951.8 | 7986.1 | 8278.0 | 7900.3 |
| 50° | 9242.3 | 9396.8 | 9783.1 | 9854.6 | 10040.6 | 10160.8 | 9185.1 | 8987.6 | 9044.9 | 9376.8 | 8944.7 |
| 52.5° | 9393.9 | 9628.6 | 10014.9 | 10538.5 | 11039.2 | 11325.4 | 10343.9 | 10183.7 | 10180.8 | 10384.0 | 9788.8 |
| 55° | 9660.1 | 9803.1 | 10137.9 | 10859.0 | 11811.8 | 12281.1 | 11740.3 | 11482.8 | 11251.0 | 11394.1 | 10664.4 |
| 57.5° | 9634.3 | 9688.7 | 10209.4 | 11099.3 | 12424.2 | 13276.9 | 12887.7 | 12641.6 | 12344.0 | 12261.1 | 11671.6 |
| 60° | 9182.2 | 9311.0 | 9894.7 | 10936.2 | 12801.9 | 14052.3 | 13957.9 | 13706.1 | 13193.9 | 12999.3 | 12444.2 |
| 62.5° | 8286.6 | 8458.3 | 8916.1 | 10364.0 | 12252.5 | 14092.4 | 14696.1 | 14601.7 | 14029.4 | 13680.3 | 13451.4 |
| 65° | 6715.7 | 6795.8 | 7322.3 | 8910.4 | 11010.6 | 13477.2 | 15568.8 | 15451.5 | 14925.0 | 14404.2 | 13969.3 |
| 67.5° | 4349.3 | 4426.6 | 4933.0 | 6360.9 | 8647.1 | 11889.1 | 15534.5 | 15857.8 | 15288.4 | 14661.8 | 13646.0 |
| 70° | 2054.5 | 2034.4 | 2506.6 | 3533.8 | 5539.7 | 9079.2 | 14484.4 | 15122.5 | 14638.9 | 13291.2 | 11334.0 |
| 72.5° | 626.6 | 681.0 | 1041.5 | 1565.2 | 2844.2 | 5662.7 | 11354.0 | 11952.0 | 11800.4 | 10618.6 | 7565.5 |
| 75° | 277.6 | 300.4 | 409.2 | 641.0 | 1153.1 | 2323.5 | 7013.3 | 7545.5 | 7479.7 | 6263.6 | 3453.7 |
| 77.5° | 177.4 | 194.6 | 257.5 | 366.3 | 523.6 | 738.2 | 3230.5 | 3748.4 | 3634.0 | 2200.4 | 904.2 |
| 80° | 125.9 | 134.5 | 183.1 | 251.8 | 329.1 | 303.3 | 1113.1 | 1322.0 | 1267.6 | 598.0 | 243.2 |
| 82.5° | 68.7 | 74.4 | 134.5 | 186.0 | 220.3 | 154.5 | 311.9 | 389.1 | 406.3 | 266.1 | 117.3 |
| 85° | 25.8 | 31.5 | 83.0 | 131.6 | 114.5 | 71.5 | 91.6 | 111.6 | 145.9 | 145.9 | 54.4 |
| 87.5° | 0.0 | 2.9 | 34.3 | 57.2 | 28.6 | 20.0 | 25.8 | 31.5 | 40.1 | 68.7 | 20.0 |
| 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° | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 |
| 2.5° | 2297.7 | 2277.7 | 2286.3 | 2300.6 | 2269.1 | 2286.3 | 2251.9 | 2277.7 | 2286.3 | 2251.9 | 2269.1 |
| 5° | 2326.3 | 2346.3 | 2334.9 | 2312.0 | 2292.0 | 2297.7 | 2289.1 | 2269.1 | 2286.3 | 2292.0 | 2280.5 |
| 7.5° | 2409.3 | 2386.4 | 2392.1 | 2366.4 | 2326.3 | 2323.5 | 2269.1 | 2254.8 | 2260.5 | 2266.2 | 2246.2 |
| 10° | 2486.5 | 2500.9 | 2472.2 | 2452.2 | 2386.4 | 2343.5 | 2269.1 | 2189.0 | 2180.4 | 2146.0 | 2174.7 |
| 12.5° | 2623.9 | 2589.6 | 2578.1 | 2512.3 | 2446.5 | 2303.4 | 2143.2 | 2020.1 | 1917.1 | 1879.9 | 1842.7 |
| 15° | 2738.4 | 2732.6 | 2712.6 | 2612.5 | 2460.8 | 2200.4 | 1897.1 | 1611.0 | 1413.5 | 1290.5 | 1273.3 |
| 17.5° | 2895.7 | 2870.0 | 2832.8 | 2675.4 | 2354.9 | 1931.4 | 1413.5 | 1053.0 | 855.6 | 778.3 | 749.7 |
| 20° | 3015.9 | 2995.9 | 2944.4 | 2661.1 | 2163.2 | 1439.3 | 875.6 | 669.6 | 620.9 | 606.6 | 609.5 |
| 22.5° | 3190.5 | 3127.5 | 3030.2 | 2589.6 | 1814.1 | 958.6 | 629.5 | 598.0 | 589.4 | 578.0 | 580.9 |
| 25° | 3342.1 | 3284.9 | 3081.7 | 2466.5 | 1293.3 | 635.2 | 583.7 | 566.6 | 552.2 | 537.9 | 535.1 |
| 27.5° | 3476.6 | 3405.1 | 3136.1 | 2214.7 | 809.8 | 546.5 | 540.8 | 520.8 | 492.2 | 469.3 | 460.7 |
| 30° | 3608.2 | 3525.2 | 3150.4 | 1742.6 | 546.5 | 495.0 | 480.7 | 449.2 | 412.0 | 380.6 | 374.8 |
| 32.5° | 3828.5 | 3728.4 | 3130.4 | 1244.7 | 472.1 | 440.7 | 409.2 | 372.0 | 317.6 | 291.9 | 286.1 |
| 35° | 4171.9 | 4020.3 | 3104.6 | 732.5 | 423.5 | 389.1 | 340.5 | 291.9 | 251.8 | 226.0 | 220.3 |
| 37.5° | 4566.8 | 4303.5 | 3030.2 | 489.3 | 389.1 | 343.4 | 280.4 | 231.8 | 197.4 | 177.4 | 171.7 |
| 40° | 5153.4 | 4718.4 | 2744.1 | 400.6 | 346.2 | 291.9 | 226.0 | 183.1 | 157.4 | 143.1 | 137.3 |
| 42.5° | 5800.0 | 5193.4 | 2303.4 | 360.5 | 306.2 | 248.9 | 180.3 | 148.8 | 128.8 | 114.5 | 114.5 |
| 45° | 6575.5 | 5688.4 | 1776.9 | 329.1 | 271.8 | 206.0 | 148.8 | 120.2 | 103.0 | 91.6 | 85.8 |
| 47.5° | 7439.6 | 6137.7 | 1198.9 | 297.6 | 228.9 | 168.8 | 123.0 | 91.6 | 74.4 | 65.8 | 65.8 |
| 50° | 8212.2 | 6535.4 | 764.0 | 260.4 | 200.3 | 140.2 | 100.1 | 74.4 | 60.1 | 48.6 | 45.8 |
| 52.5° | 8913.2 | 6838.7 | 526.5 | 228.9 | 171.7 | 114.5 | 83.0 | 60.1 | 45.8 | 37.2 | 37.2 |
| 55° | 9631.4 | 6993.2 | 389.1 | 197.4 | 148.8 | 97.3 | 68.7 | 54.4 | 40.1 | 31.5 | 28.6 |
| 57.5° | 10220.9 | 7059.1 | 297.6 | 171.7 | 125.9 | 77.3 | 60.1 | 45.8 | 34.3 | 25.8 | 22.9 |
| 60° | 10724.5 | 7027.6 | 231.8 | 143.1 | 100.1 | 65.8 | 51.5 | 37.2 | 28.6 | 20.0 | 17.2 |
| 62.5° | 11019.2 | 6838.7 | 183.1 | 123.0 | 80.1 | 57.2 | 42.9 | 31.5 | 20.0 | 14.3 | 11.4 |
| 65° | 11024.9 | 6438.1 | 143.1 | 91.6 | 60.1 | 48.6 | 37.2 | 25.8 | 14.3 | 5.7 | 2.9 |
| 67.5° | 10235.2 | 5571.1 | 114.5 | 71.5 | 48.6 | 37.2 | 28.6 | 20.0 | 5.7 | 0.0 | 0.0 |
| 70° | 8006.2 | 4214.8 | 94.4 | 57.2 | 40.1 | 31.5 | 20.0 | 11.4 | 2.9 | 0.0 | 0.0 |
| 72.5° | 5101.9 | 2523.7 | 77.3 | 45.8 | 34.3 | 22.9 | 14.3 | 8.6 | 0.0 | 0.0 | 0.0 |
| 75° | 2134.6 | 778.3 | 60.1 | 40.1 | 25.8 | 17.2 | 11.4 | 2.9 | 0.0 | 0.0 | 0.0 |
| 77.5° | 549.4 | 246.1 | 48.6 | 34.3 | 25.8 | 14.3 | 8.6 | 2.9 | 0.0 | 0.0 | 0.0 |
| 80° | 163.1 | 91.6 | 40.1 | 28.6 | 20.0 | 11.4 | 5.7 | 2.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 74.4 | 54.4 | 34.3 | 25.8 | 17.2 | 11.4 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 28.6 | 17.2 | 17.2 | 14.3 | 14.3 | 8.6 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.4 | 5.7 | 5.7 | 5.7 | 2.9 | 2.9 | 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)