

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: P482354

Luminaire Tested: **IFLD-L-SA7A-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482354
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

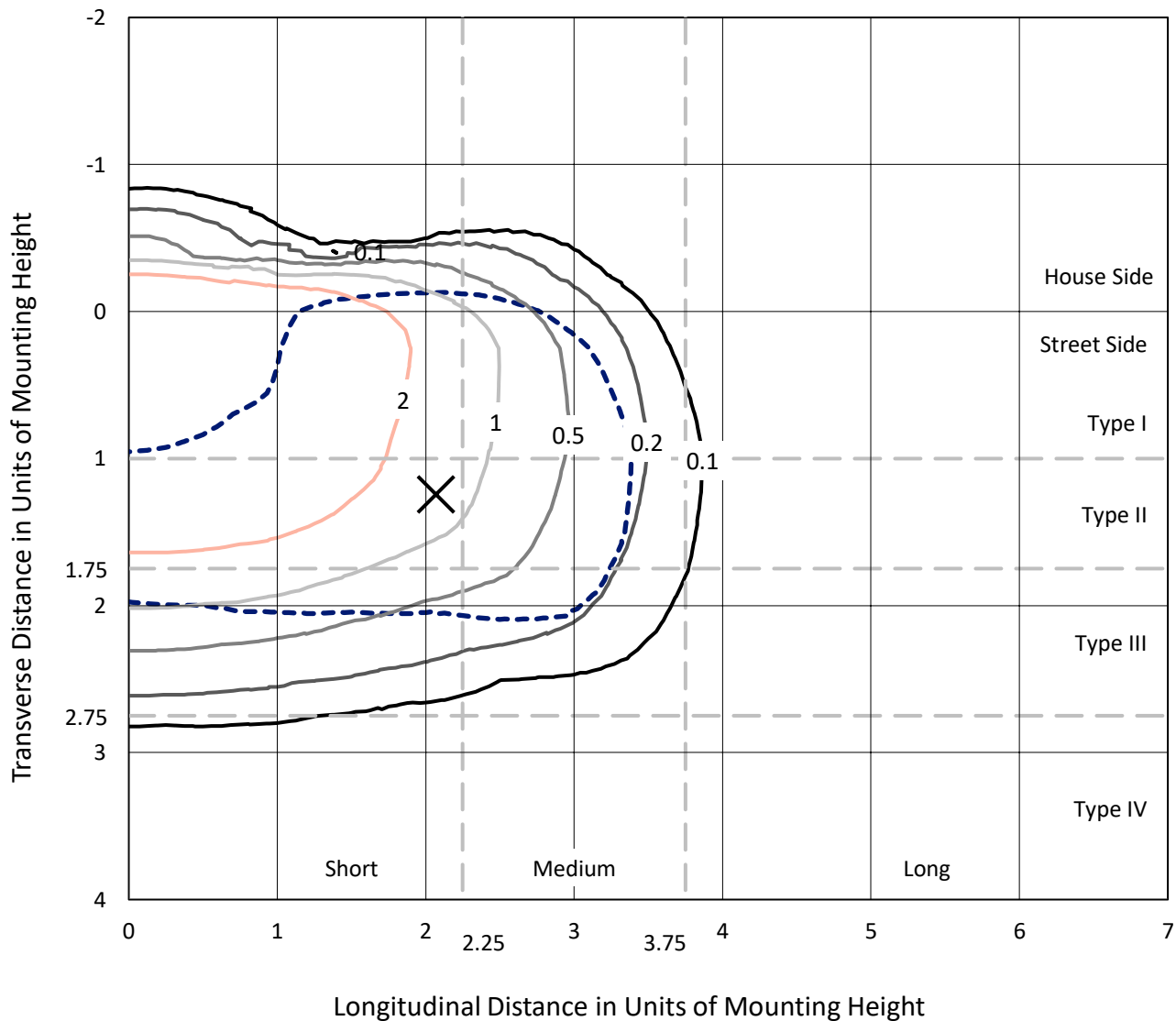
Lumens per Lamp: N/A
Luminaire Lumens: 19423.7 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 217.6
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

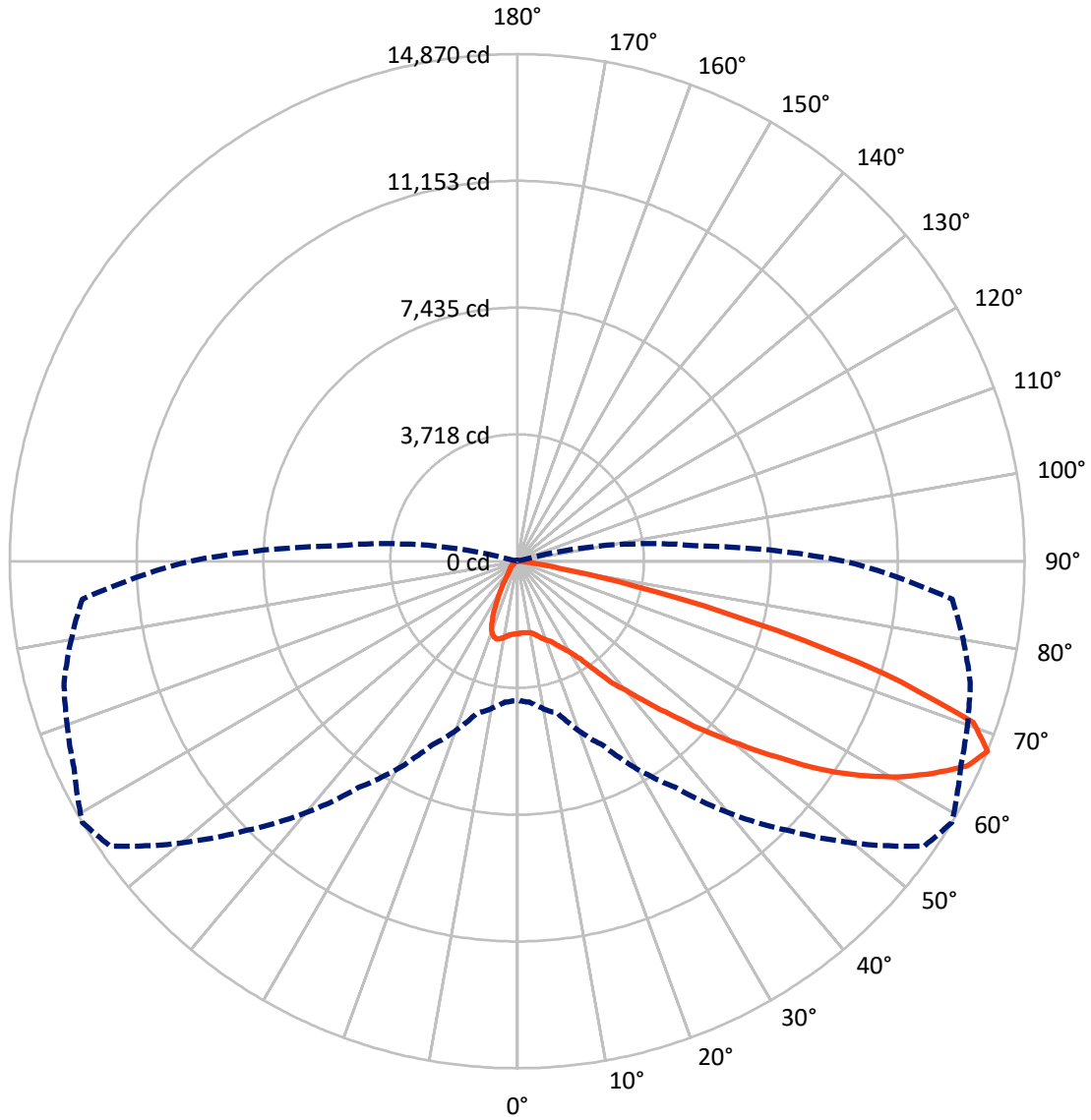
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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 | 2281.6 | 0.0 | 2281.6 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 17142.0 | 0.0 | 17142.0 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 19423.7 | 0.0 | 19423.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 202.4 | 1.0 |
| 10°-20° | 584.6 | 3.0 |
| 20°-30° | 1021.7 | 5.3 |
| 30°-40° | 1798.8 | 9.3 |
| 40°-50° | 3179.6 | 16.4 |
| 50°-60° | 5034.5 | 25.9 |
| 60°-70° | 5584.7 | 28.8 |
| 70°-80° | 1937.7 | 10.0 |
| 80°-90° | 79.8 | 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° | 19423.7 | 100.0 |
| 0°-180° | 19423.7 | 100.0 |

Coefficient of Utilization

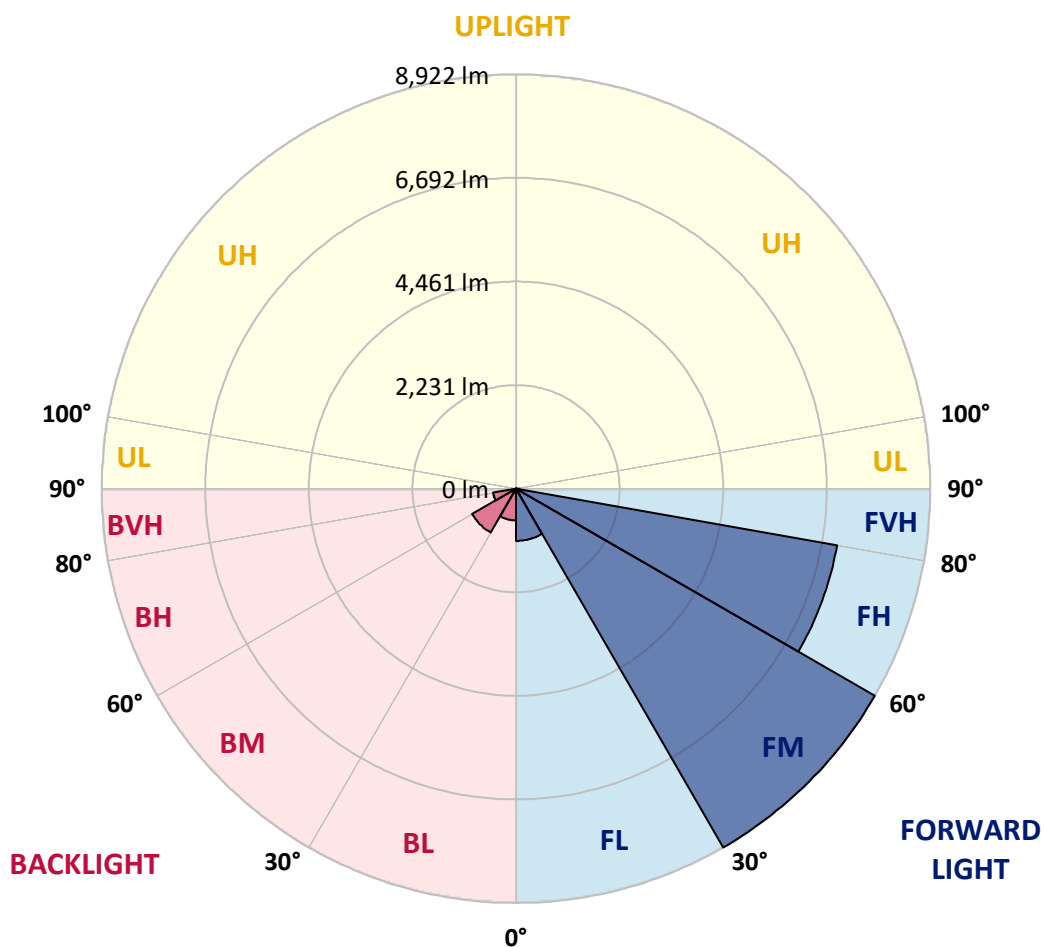


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1124.8 | 5.8 | | | |
| FM (30°-60°) | 8922.0 | 45.9 | | | |
| FH (60°-80°) | 7020.6 | 36.1 | | | G3/7500 |
| FVH (80°-90°) | 74.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 683.8 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1090.9 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 501.8 | 2.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.2 | 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° | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 |
| 2.5° | 2068.7 | 2039.2 | 2066.0 | 2068.7 | 2071.4 | 2095.5 | 2122.4 | 2103.6 | 2100.9 | 2122.4 | 2141.2 |
| 5° | 1985.5 | 1972.1 | 2004.3 | 2020.4 | 2047.3 | 2068.7 | 2111.6 | 2114.3 | 2117.0 | 2141.2 | 2173.4 |
| 7.5° | 1950.7 | 1918.5 | 1956.0 | 1974.8 | 1993.6 | 2044.6 | 2095.5 | 2122.4 | 2159.9 | 2189.5 | 2221.7 |
| 10° | 1880.9 | 1905.0 | 1915.8 | 1948.0 | 2001.6 | 2060.7 | 2122.4 | 2135.8 | 2219.0 | 2243.1 | 2320.9 |
| 12.5° | 1905.0 | 1921.1 | 1942.6 | 1950.7 | 2009.7 | 2098.2 | 2181.4 | 2186.8 | 2272.6 | 2377.3 | 2417.5 |
| 15° | 1966.8 | 1956.0 | 1964.1 | 1974.8 | 2044.6 | 2117.0 | 2251.2 | 2275.3 | 2355.8 | 2473.9 | 2573.2 |
| 17.5° | 2098.2 | 2079.5 | 2066.0 | 2063.4 | 2079.5 | 2146.5 | 2304.8 | 2377.3 | 2452.4 | 2613.4 | 2664.4 |
| 20° | 2428.3 | 2412.2 | 2358.5 | 2219.0 | 2170.7 | 2197.5 | 2369.2 | 2471.2 | 2575.8 | 2755.6 | 2838.8 |
| 22.5° | 2930.0 | 2946.1 | 2820.0 | 2624.1 | 2422.9 | 2318.3 | 2471.2 | 2559.7 | 2726.1 | 2954.2 | 3029.3 |
| 25° | 3523.0 | 3490.8 | 3337.9 | 3109.8 | 2793.2 | 2546.3 | 2634.9 | 2734.1 | 2938.1 | 3125.9 | 3155.4 |
| 27.5° | 3987.2 | 3949.6 | 3831.6 | 3555.2 | 3281.5 | 2881.7 | 2849.5 | 2911.2 | 3152.7 | 3321.8 | 3289.6 |
| 30° | 4446.0 | 4459.4 | 4378.9 | 4051.6 | 3713.5 | 3292.2 | 3088.3 | 3115.2 | 3300.3 | 3517.6 | 3445.2 |
| 32.5° | 5030.9 | 4998.7 | 4953.1 | 4666.0 | 4266.2 | 3815.5 | 3466.6 | 3423.7 | 3504.2 | 3791.3 | 3705.4 |
| 35° | 5575.6 | 5556.8 | 5495.1 | 5205.3 | 4856.5 | 4365.5 | 4024.7 | 3928.1 | 3909.4 | 4228.7 | 4078.4 |
| 37.5° | 6050.5 | 6018.3 | 5924.4 | 5739.3 | 5401.2 | 4988.0 | 4615.0 | 4529.2 | 4526.5 | 4746.5 | 4456.7 |
| 40° | 6450.3 | 6474.5 | 6463.7 | 6259.8 | 6074.7 | 5744.6 | 5173.1 | 5036.3 | 5025.6 | 5143.6 | 4974.6 |
| 42.5° | 6968.2 | 7024.5 | 6995.0 | 6954.8 | 6732.1 | 6603.3 | 5956.6 | 5747.3 | 5653.4 | 5894.9 | 5742.0 |
| 45° | 7751.7 | 7773.1 | 7791.9 | 7692.6 | 7469.9 | 7496.8 | 6766.9 | 6517.4 | 6493.3 | 6852.8 | 6509.3 |
| 47.5° | 8484.2 | 8427.8 | 8559.3 | 8564.7 | 8553.9 | 8430.5 | 7641.6 | 7456.5 | 7488.7 | 7762.4 | 7408.2 |
| 50° | 8666.6 | 8811.5 | 9173.7 | 9240.8 | 9415.2 | 9527.9 | 8612.9 | 8427.8 | 8481.5 | 8792.7 | 8387.6 |
| 52.5° | 8808.8 | 9028.8 | 9391.1 | 9882.1 | 10351.6 | 10620.0 | 9699.6 | 9549.4 | 9546.7 | 9737.2 | 9179.1 |
| 55° | 9058.4 | 9192.5 | 9506.4 | 10182.6 | 11076.1 | 11516.1 | 11009.0 | 10767.5 | 10550.2 | 10684.3 | 10000.1 |
| 57.5° | 9034.2 | 9085.2 | 9573.5 | 10408.0 | 11650.3 | 12449.9 | 12085.0 | 11854.2 | 11575.2 | 11497.3 | 10944.6 |
| 60° | 8610.3 | 8731.0 | 9278.4 | 10255.0 | 12004.5 | 13177.0 | 13088.5 | 12852.3 | 12372.1 | 12189.6 | 11669.1 |
| 62.5° | 7770.4 | 7931.4 | 8360.7 | 9718.4 | 11489.3 | 13214.6 | 13780.7 | 13692.2 | 13155.5 | 12828.2 | 12613.5 |
| 65° | 6297.4 | 6372.5 | 6866.2 | 8355.4 | 10324.8 | 12637.7 | 14599.1 | 14489.1 | 13995.4 | 13507.0 | 13099.2 |
| 67.5° | 4078.4 | 4150.9 | 4625.8 | 5964.7 | 8108.5 | 11148.5 | 14566.9 | 14870.1 | 14336.1 | 13748.5 | 12796.0 |
| 70° | 1926.5 | 1907.7 | 2350.4 | 3313.7 | 5194.6 | 8513.7 | 13582.2 | 14180.5 | 13727.1 | 12463.3 | 10628.0 |
| 72.5° | 587.6 | 638.6 | 976.7 | 1467.7 | 2667.1 | 5310.0 | 10646.8 | 11207.6 | 11065.4 | 9957.2 | 7094.3 |
| 75° | 260.3 | 281.7 | 383.7 | 601.0 | 1081.3 | 2178.7 | 6576.4 | 7075.5 | 7013.8 | 5873.4 | 3238.6 |
| 77.5° | 166.4 | 182.5 | 241.5 | 343.4 | 491.0 | 692.3 | 3029.3 | 3514.9 | 3407.6 | 2063.4 | 847.9 |
| 80° | 118.1 | 126.1 | 171.7 | 236.1 | 308.6 | 284.4 | 1043.7 | 1239.6 | 1188.6 | 560.8 | 228.1 |
| 82.5° | 64.4 | 69.8 | 126.1 | 174.4 | 206.6 | 144.9 | 292.5 | 364.9 | 381.0 | 249.5 | 110.0 |
| 85° | 24.1 | 29.5 | 77.8 | 123.4 | 107.3 | 67.1 | 85.9 | 104.6 | 136.8 | 136.8 | 51.0 |
| 87.5° | 0.0 | 2.7 | 32.2 | 53.7 | 26.8 | 18.8 | 24.1 | 29.5 | 37.6 | 64.4 | 18.8 |
| 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° | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 | 2130.4 |
| 2.5° | 2154.6 | 2135.8 | 2143.8 | 2157.3 | 2127.7 | 2143.8 | 2111.6 | 2135.8 | 2143.8 | 2111.6 | 2127.7 |
| 5° | 2181.4 | 2200.2 | 2189.5 | 2168.0 | 2149.2 | 2154.6 | 2146.5 | 2127.7 | 2143.8 | 2149.2 | 2138.5 |
| 7.5° | 2259.2 | 2237.8 | 2243.1 | 2219.0 | 2181.4 | 2178.7 | 2127.7 | 2114.3 | 2119.7 | 2125.1 | 2106.3 |
| 10° | 2331.7 | 2345.1 | 2318.3 | 2299.5 | 2237.8 | 2197.5 | 2127.7 | 2052.6 | 2044.6 | 2012.4 | 2039.2 |
| 12.5° | 2460.5 | 2428.3 | 2417.5 | 2355.8 | 2294.1 | 2159.9 | 2009.7 | 1894.3 | 1797.7 | 1762.8 | 1728.0 |
| 15° | 2567.8 | 2562.4 | 2543.6 | 2449.7 | 2307.5 | 2063.4 | 1778.9 | 1510.6 | 1325.5 | 1210.1 | 1194.0 |
| 17.5° | 2715.4 | 2691.2 | 2656.3 | 2508.8 | 2208.2 | 1811.1 | 1325.5 | 987.4 | 802.3 | 729.8 | 703.0 |
| 20° | 2828.1 | 2809.3 | 2761.0 | 2495.3 | 2028.5 | 1349.6 | 821.0 | 627.9 | 582.2 | 568.8 | 571.5 |
| 22.5° | 2991.7 | 2932.7 | 2841.5 | 2428.3 | 1701.1 | 898.9 | 590.3 | 560.8 | 552.7 | 542.0 | 544.7 |
| 25° | 3133.9 | 3080.3 | 2889.8 | 2312.9 | 1212.8 | 595.7 | 547.4 | 531.3 | 517.9 | 504.4 | 501.8 |
| 27.5° | 3260.0 | 3193.0 | 2940.7 | 2076.8 | 759.3 | 512.5 | 507.1 | 488.3 | 461.5 | 440.0 | 432.0 |
| 30° | 3383.5 | 3305.7 | 2954.2 | 1634.0 | 512.5 | 464.2 | 450.8 | 421.3 | 386.4 | 356.9 | 351.5 |
| 32.5° | 3590.1 | 3496.2 | 2935.4 | 1167.2 | 442.7 | 413.2 | 383.7 | 348.8 | 297.8 | 273.7 | 268.3 |
| 35° | 3912.0 | 3769.8 | 2911.2 | 686.9 | 397.1 | 364.9 | 319.3 | 273.7 | 236.1 | 212.0 | 206.6 |
| 37.5° | 4282.3 | 4035.5 | 2841.5 | 458.8 | 364.9 | 322.0 | 262.9 | 217.3 | 185.1 | 166.4 | 161.0 |
| 40° | 4832.4 | 4424.5 | 2573.2 | 375.6 | 324.7 | 273.7 | 212.0 | 171.7 | 147.6 | 134.2 | 128.8 |
| 42.5° | 5438.8 | 4869.9 | 2159.9 | 338.1 | 287.1 | 233.4 | 169.0 | 139.5 | 120.7 | 107.3 | 107.3 |
| 45° | 6165.9 | 5334.1 | 1666.2 | 308.6 | 254.9 | 193.2 | 139.5 | 112.7 | 96.6 | 85.9 | 80.5 |
| 47.5° | 6976.2 | 5755.4 | 1124.2 | 279.0 | 214.7 | 158.3 | 115.4 | 85.9 | 69.8 | 61.7 | 61.7 |
| 50° | 7700.7 | 6128.3 | 716.4 | 244.2 | 187.8 | 131.5 | 93.9 | 69.8 | 56.3 | 45.6 | 42.9 |
| 52.5° | 8358.0 | 6412.8 | 493.7 | 214.7 | 161.0 | 107.3 | 77.8 | 56.3 | 42.9 | 34.9 | 34.9 |
| 55° | 9031.5 | 6557.6 | 364.9 | 185.1 | 139.5 | 91.2 | 64.4 | 51.0 | 37.6 | 29.5 | 26.8 |
| 57.5° | 9584.3 | 6619.4 | 279.0 | 161.0 | 118.1 | 72.4 | 56.3 | 42.9 | 32.2 | 24.1 | 21.5 |
| 60° | 10056.5 | 6589.8 | 217.3 | 134.2 | 93.9 | 61.7 | 48.3 | 34.9 | 26.8 | 18.8 | 16.1 |
| 62.5° | 10332.9 | 6412.8 | 171.7 | 115.4 | 75.1 | 53.7 | 40.2 | 29.5 | 18.8 | 13.4 | 10.7 |
| 65° | 10338.2 | 6037.1 | 134.2 | 85.9 | 56.3 | 45.6 | 34.9 | 24.1 | 13.4 | 5.4 | 2.7 |
| 67.5° | 9597.7 | 5224.1 | 107.3 | 67.1 | 45.6 | 34.9 | 26.8 | 18.8 | 5.4 | 0.0 | 0.0 |
| 70° | 7507.5 | 3952.3 | 88.5 | 53.7 | 37.6 | 29.5 | 18.8 | 10.7 | 2.7 | 0.0 | 0.0 |
| 72.5° | 4784.1 | 2366.5 | 72.4 | 42.9 | 32.2 | 21.5 | 13.4 | 8.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2001.6 | 729.8 | 56.3 | 37.6 | 24.1 | 16.1 | 10.7 | 2.7 | 0.0 | 0.0 | 0.0 |
| 77.5° | 515.2 | 230.8 | 45.6 | 32.2 | 24.1 | 13.4 | 8.0 | 2.7 | 0.0 | 0.0 | 0.0 |
| 80° | 152.9 | 85.9 | 37.6 | 26.8 | 18.8 | 10.7 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 69.8 | 51.0 | 32.2 | 24.1 | 16.1 | 10.7 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 26.8 | 16.1 | 16.1 | 13.4 | 13.4 | 8.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.7 | 5.4 | 5.4 | 5.4 | 2.7 | 2.7 | 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)