

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: P368343

Luminaire Tested: **PMM-SA4B-730-U-SL3-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-19)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4B-730-U-SL3-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14530 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

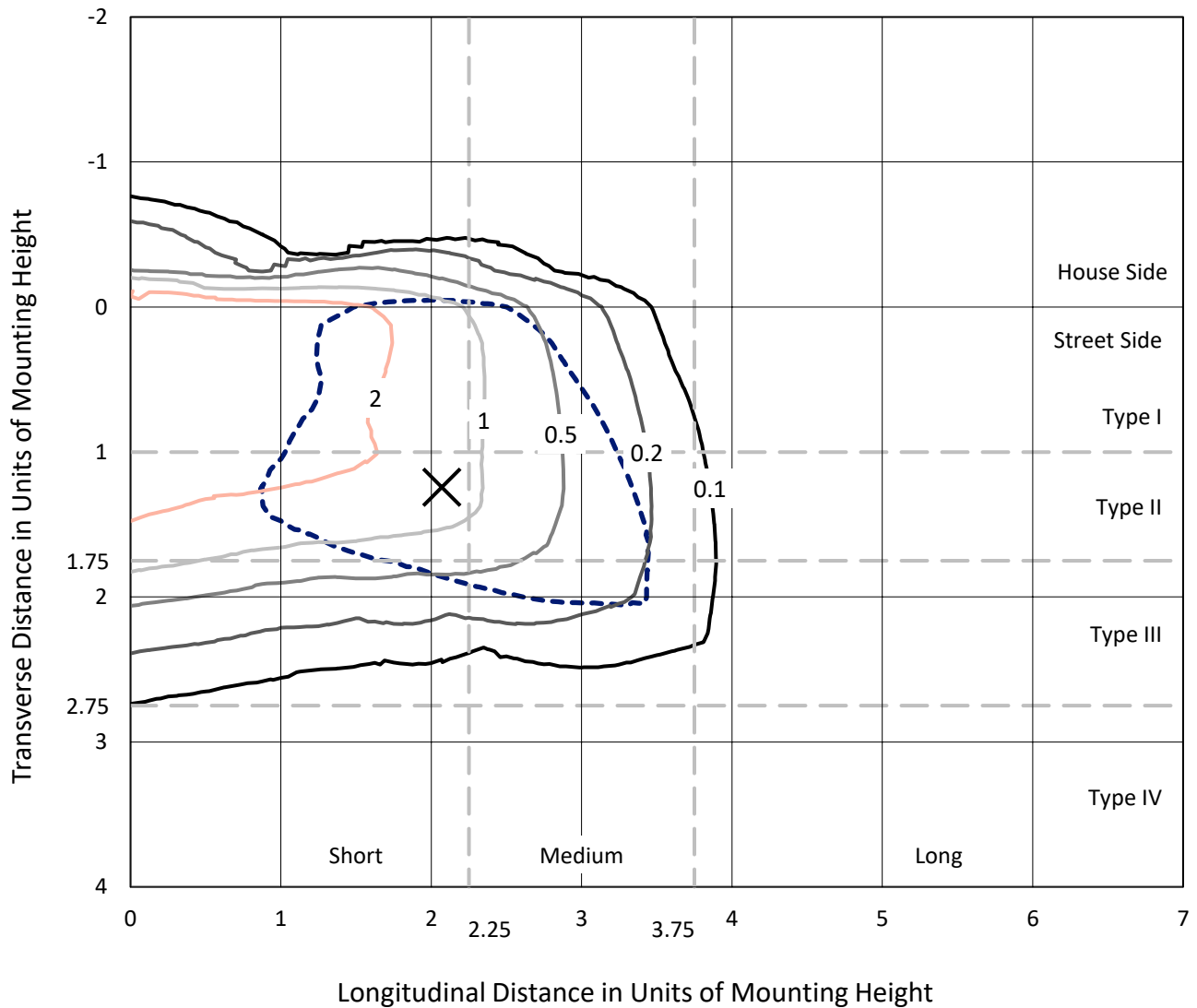
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

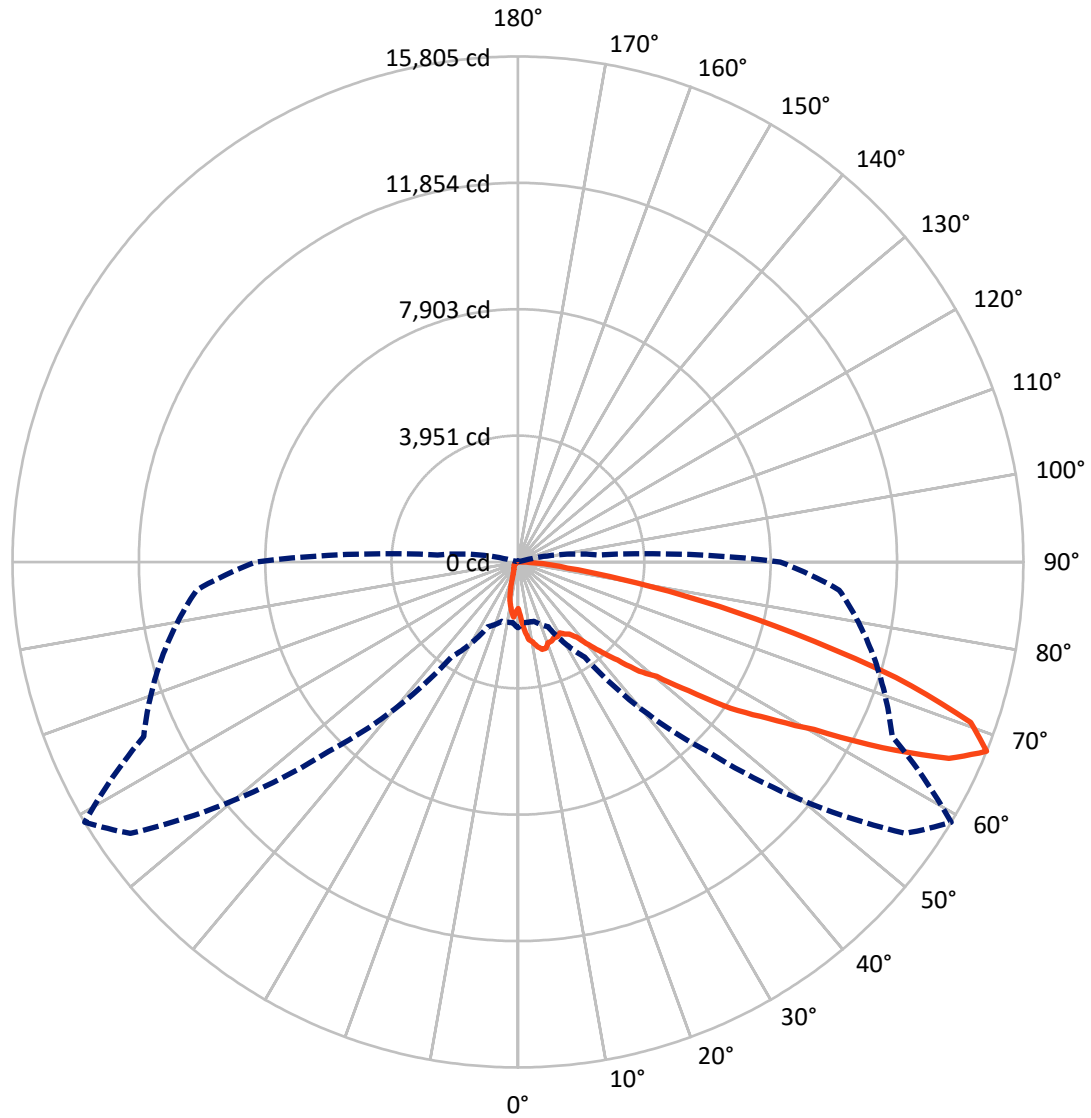
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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 | 1235.7 | 0.0 | 1235.7 |
| | % Fixture | 8.5 | 0.0 | 8.5 |
| Street Side | Lumens | 13294.3 | 0.0 | 13294.3 |
| | % Fixture | 91.5 | 0.0 | 91.5 |
| Total | Lumens | 14530.0 | 0.0 | 14530.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 176.8 | 1.2 |
| 10°-20° | 497.7 | 3.4 |
| 20°-30° | 740.3 | 5.1 |
| 30°-40° | 1142.2 | 7.9 |
| 40°-50° | 2038.4 | 14.0 |
| 50°-60° | 3627.3 | 25.0 |
| 60°-70° | 4224.6 | 29.1 |
| 70°-80° | 1878.7 | 12.9 |
| 80°-90° | 204.0 | 1.4 |
| 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° | 14530.0 | 100.0 |
| 0°-180° | 14530.0 | 100.0 |

Coefficient of Utilization

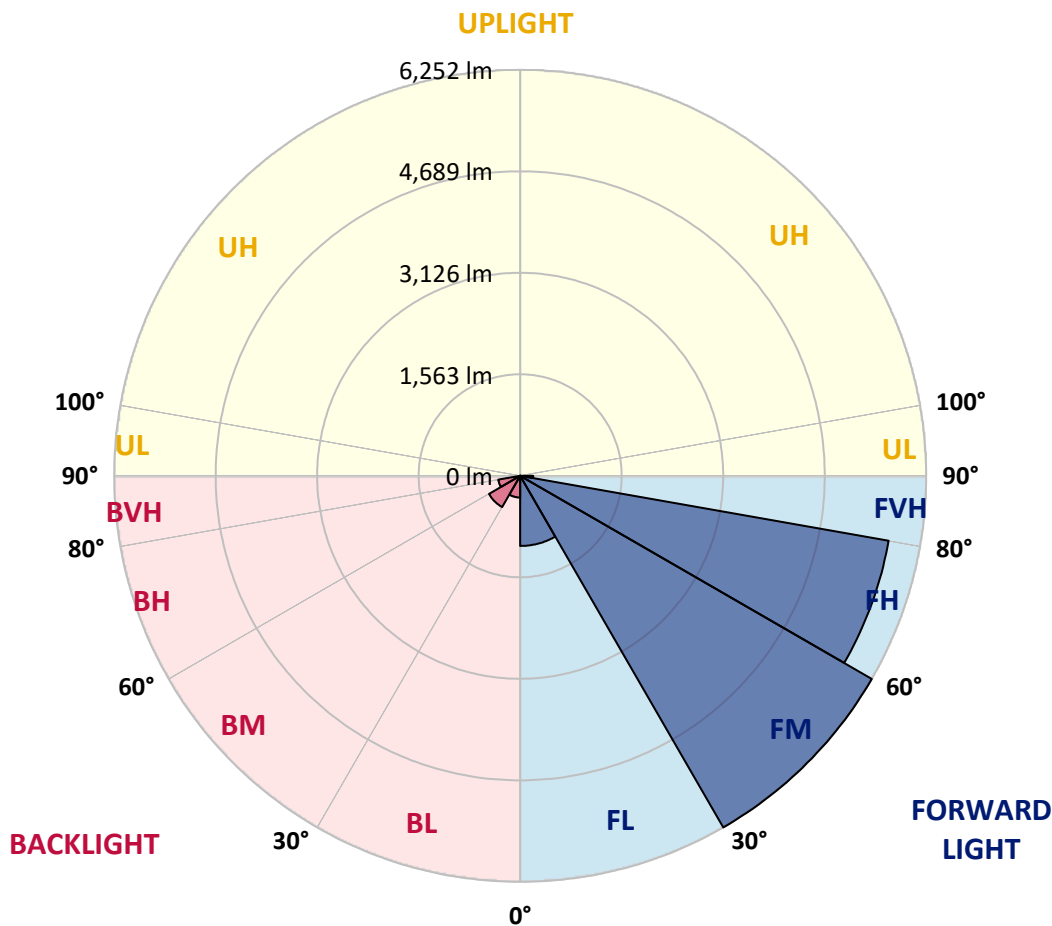


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1080.6 | 7.4 | | | |
| FM (30°-60°) | 6252.3 | 43.0 | | | |
| FH (60°-80°) | 5761.0 | 39.6 | | | G3/7500 |
| FVH (80°-90°) | 200.4 | 1.4 | | | G2/225 |
| BL (0°-30°) | 334.2 | 2.3 | B1/500 | | |
| BM (30°-60°) | 555.6 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 342.3 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 |
| 2.5° | 1895.2 | 1823.8 | 1722.3 | 1752.5 | 1779.7 | 1805.4 | 1762.8 | 1738.5 | 1726.7 | 1622.3 | 1753.2 |
| 5° | 2327.1 | 2238.0 | 2191.7 | 2179.9 | 2150.5 | 2085.0 | 2193.9 | 2145.3 | 2161.5 | 2182.1 | 2224.8 |
| 7.5° | 2458.8 | 2418.3 | 2351.3 | 2376.4 | 2264.5 | 2255.0 | 2405.8 | 2447.7 | 2502.9 | 2465.4 | 2516.9 |
| 10° | 2391.1 | 2321.2 | 2352.8 | 2344.0 | 2339.6 | 2438.2 | 2544.1 | 2546.3 | 2628.7 | 2668.4 | 2494.1 |
| 12.5° | 2257.2 | 2265.3 | 2378.6 | 2369.7 | 2516.9 | 2714.1 | 2738.3 | 2712.6 | 2847.2 | 2778.1 | 2751.6 |
| 15° | 2346.2 | 2412.4 | 2349.9 | 2371.2 | 2423.4 | 2669.9 | 2756.0 | 2835.4 | 2962.7 | 3003.9 | 2825.1 |
| 17.5° | 2453.6 | 2460.2 | 2346.2 | 2319.7 | 2451.4 | 2566.2 | 2769.2 | 2834.7 | 2847.2 | 3208.5 | 2990.7 |
| 20° | 2395.5 | 2452.1 | 2316.0 | 2149.0 | 2353.6 | 2509.5 | 2715.5 | 2694.9 | 2778.8 | 3268.8 | 3028.2 |
| 22.5° | 2550.0 | 2469.1 | 2294.7 | 2168.9 | 2238.0 | 2380.0 | 2554.4 | 2689.0 | 2814.8 | 3124.6 | 3076.8 |
| 25° | 2564.7 | 2535.3 | 2380.0 | 2268.2 | 2256.4 | 2292.5 | 2535.3 | 2622.1 | 2819.3 | 3254.1 | 3035.6 |
| 27.5° | 2730.2 | 2696.4 | 2378.6 | 2389.6 | 2279.2 | 2168.2 | 2442.6 | 2646.4 | 2899.5 | 3175.3 | 3123.1 |
| 30° | 2943.6 | 2946.5 | 2536.7 | 2571.3 | 2413.9 | 2235.1 | 2518.4 | 2574.3 | 2953.9 | 3301.2 | 3187.9 |
| 32.5° | 3159.9 | 3248.9 | 2849.4 | 2666.2 | 2616.9 | 2488.9 | 2424.2 | 2682.4 | 2894.3 | 3516.0 | 3349.7 |
| 35° | 3488.8 | 3549.1 | 3106.9 | 2942.9 | 2749.4 | 2603.7 | 2680.2 | 2772.9 | 3108.4 | 3800.7 | 3562.3 |
| 37.5° | 4045.7 | 3936.8 | 3569.0 | 3283.5 | 3237.1 | 3022.3 | 3060.6 | 2977.4 | 3326.9 | 4136.2 | 3983.2 |
| 40° | 4359.1 | 4260.5 | 3878.0 | 3738.9 | 3443.1 | 3476.3 | 3355.6 | 3404.2 | 3644.0 | 4485.7 | 4366.5 |
| 42.5° | 4685.8 | 4591.6 | 4256.1 | 4157.5 | 3875.7 | 3738.9 | 3684.5 | 3858.8 | 4130.3 | 5067.6 | 4916.0 |
| 45° | 5013.9 | 4774.8 | 4632.8 | 4682.1 | 4555.5 | 4284.8 | 4221.5 | 4376.8 | 4661.5 | 5782.7 | 5495.8 |
| 47.5° | 5290.5 | 5088.9 | 4982.3 | 4959.5 | 4910.2 | 5286.1 | 5028.6 | 5097.0 | 5222.8 | 6415.4 | 6218.3 |
| 50° | 5789.3 | 5590.7 | 5423.7 | 5377.3 | 5617.2 | 6150.6 | 5753.3 | 5620.9 | 5872.5 | 7179.8 | 7055.5 |
| 52.5° | 6509.6 | 6256.5 | 5990.9 | 5991.7 | 6444.1 | 6736.9 | 6925.3 | 6692.8 | 6739.9 | 8020.8 | 7965.6 |
| 55° | 7088.6 | 6767.1 | 6547.1 | 6720.8 | 7395.4 | 7559.5 | 8278.3 | 8074.5 | 8013.4 | 8800.6 | 8732.9 |
| 57.5° | 7168.1 | 6782.6 | 6678.1 | 6982.7 | 7906.0 | 8953.7 | 9726.9 | 9217.8 | 9124.3 | 9453.2 | 9587.8 |
| 60° | 6426.5 | 6017.4 | 6096.1 | 6586.1 | 8072.3 | 9803.4 | 11057.1 | 10641.4 | 10047.7 | 10217.6 | 10310.3 |
| 62.5° | 4793.2 | 4466.5 | 4687.2 | 5336.1 | 7431.5 | 10372.8 | 12596.9 | 12789.7 | 11118.9 | 10791.5 | 10771.6 |
| 65° | 3109.9 | 2905.3 | 3050.3 | 3582.2 | 5623.8 | 10308.1 | 13972.7 | 14808.5 | 11962.7 | 11259.4 | 10916.5 |
| 67.5° | 2057.1 | 1901.8 | 1922.4 | 2237.3 | 3636.6 | 8383.5 | 14795.2 | 15805.4 | 12911.8 | 11525.0 | 10085.9 |
| 70° | 1533.2 | 1411.1 | 1418.5 | 1589.1 | 2158.6 | 5528.9 | 13648.3 | 15018.9 | 13258.3 | 10604.6 | 8140.7 |
| 72.5° | 1105.8 | 1024.1 | 1092.5 | 1282.4 | 1720.1 | 2923.7 | 10172.7 | 12368.8 | 11561.0 | 8364.3 | 5484.8 |
| 75° | 765.9 | 712.2 | 824.0 | 1072.7 | 1570.0 | 1815.0 | 6722.2 | 8903.6 | 8103.2 | 5247.9 | 2479.4 |
| 77.5° | 424.5 | 408.3 | 569.4 | 874.0 | 1425.1 | 1487.6 | 4117.8 | 5850.4 | 4494.5 | 1881.2 | 590.0 |
| 80° | 185.4 | 179.5 | 275.9 | 656.3 | 1197.7 | 1344.2 | 2318.2 | 3243.8 | 1767.9 | 335.5 | 190.6 |
| 82.5° | 79.5 | 76.5 | 117.7 | 395.1 | 870.4 | 1124.2 | 1429.5 | 1561.2 | 608.4 | 103.7 | 108.2 |
| 85° | 14.0 | 15.5 | 47.1 | 208.2 | 529.7 | 570.9 | 1035.2 | 924.1 | 306.1 | 49.3 | 77.3 |
| 87.5° | 0.0 | 0.0 | 7.4 | 40.5 | 99.3 | 163.3 | 448.8 | 323.7 | 58.1 | 16.2 | 13.2 |
| 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° | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 | 1453.8 |
| 2.5° | 1771.6 | 1730.4 | 1573.7 | 1553.8 | 1532.5 | 1500.9 | 1489.1 | 1421.4 | 1412.6 | 1499.4 | 1499.4 |
| 5° | 2204.9 | 2057.8 | 1908.4 | 1790.7 | 1685.5 | 1539.9 | 1498.7 | 1456.0 | 1421.4 | 1412.6 | 1439.8 |
| 7.5° | 2433.7 | 2254.2 | 2019.5 | 1720.1 | 1477.3 | 1266.2 | 1177.9 | 1116.1 | 1046.9 | 1067.5 | 1078.6 |
| 10° | 2421.2 | 2230.7 | 1931.3 | 1546.5 | 1277.2 | 1044.0 | 819.6 | 688.6 | 615.8 | 579.7 | 575.3 |
| 12.5° | 2544.1 | 2364.6 | 1871.7 | 1408.2 | 1064.6 | 742.3 | 515.7 | 422.3 | 368.6 | 369.3 | 364.9 |
| 15° | 2615.5 | 2419.8 | 1802.5 | 1233.1 | 749.7 | 477.5 | 357.6 | 337.0 | 329.6 | 337.7 | 333.3 |
| 17.5° | 2741.3 | 2477.9 | 1645.8 | 971.9 | 515.7 | 360.5 | 328.9 | 320.8 | 330.3 | 347.3 | 342.8 |
| 20° | 2731.7 | 2377.1 | 1422.9 | 685.0 | 381.1 | 324.5 | 311.2 | 298.7 | 318.6 | 336.2 | 333.3 |
| 22.5° | 2722.9 | 2278.5 | 1213.2 | 505.4 | 318.6 | 295.8 | 284.7 | 279.6 | 289.9 | 310.5 | 314.9 |
| 25° | 2644.9 | 2230.0 | 1000.6 | 379.6 | 288.4 | 268.5 | 263.4 | 259.0 | 262.7 | 279.6 | 278.8 |
| 27.5° | 2740.5 | 2107.1 | 772.5 | 318.6 | 267.1 | 243.5 | 239.1 | 231.8 | 224.4 | 239.1 | 241.3 |
| 30° | 2720.7 | 2124.0 | 605.5 | 280.3 | 245.7 | 214.1 | 215.6 | 200.1 | 186.9 | 200.1 | 200.1 |
| 32.5° | 2792.8 | 2000.4 | 484.8 | 254.6 | 224.4 | 201.6 | 183.2 | 167.0 | 157.4 | 165.5 | 167.0 |
| 35° | 2898.0 | 2005.6 | 379.6 | 238.4 | 206.0 | 179.5 | 157.4 | 141.3 | 132.4 | 136.1 | 138.3 |
| 37.5° | 3250.4 | 1970.2 | 317.1 | 225.9 | 199.4 | 166.3 | 143.5 | 122.1 | 116.2 | 120.7 | 122.9 |
| 40° | 3479.9 | 2064.4 | 279.6 | 219.2 | 182.5 | 153.0 | 122.9 | 107.4 | 102.3 | 104.5 | 108.2 |
| 42.5° | 3912.5 | 2116.7 | 261.2 | 211.9 | 167.0 | 131.0 | 105.2 | 96.4 | 89.0 | 92.0 | 94.9 |
| 45° | 4375.3 | 2205.7 | 247.2 | 203.8 | 155.2 | 114.8 | 92.7 | 85.3 | 75.8 | 76.5 | 79.5 |
| 47.5° | 4944.0 | 2417.6 | 231.0 | 189.8 | 139.1 | 104.5 | 82.4 | 71.4 | 62.5 | 61.8 | 65.5 |
| 50° | 5707.7 | 2700.8 | 216.3 | 172.2 | 128.8 | 95.6 | 72.1 | 58.1 | 50.8 | 48.6 | 51.5 |
| 52.5° | 6522.9 | 3067.2 | 200.9 | 159.7 | 116.2 | 83.9 | 61.8 | 47.1 | 40.5 | 39.0 | 41.2 |
| 55° | 7330.7 | 3418.9 | 186.1 | 151.6 | 103.0 | 72.1 | 52.2 | 39.0 | 33.1 | 31.6 | 33.1 |
| 57.5° | 8251.0 | 3799.2 | 167.0 | 135.4 | 90.5 | 62.5 | 43.4 | 32.4 | 27.2 | 25.8 | 26.5 |
| 60° | 8944.1 | 3933.1 | 150.8 | 117.7 | 78.7 | 55.2 | 36.8 | 25.8 | 22.1 | 20.6 | 21.3 |
| 62.5° | 9273.0 | 3714.6 | 135.4 | 102.3 | 69.2 | 47.8 | 30.9 | 21.3 | 18.4 | 16.9 | 16.9 |
| 65° | 9187.6 | 3230.5 | 119.9 | 87.6 | 59.6 | 39.7 | 24.3 | 18.4 | 16.2 | 14.0 | 13.2 |
| 67.5° | 8201.8 | 2527.9 | 102.3 | 73.6 | 50.0 | 32.4 | 20.6 | 17.7 | 14.7 | 13.2 | 11.0 |
| 70° | 6504.5 | 1830.5 | 83.1 | 61.1 | 41.9 | 26.5 | 16.2 | 16.2 | 14.0 | 13.2 | 10.3 |
| 72.5° | 4263.5 | 1152.1 | 67.7 | 49.3 | 34.6 | 20.6 | 12.5 | 14.7 | 13.2 | 13.2 | 9.6 |
| 75° | 1847.4 | 412.0 | 54.4 | 39.7 | 28.7 | 14.0 | 11.0 | 13.2 | 14.0 | 13.2 | 11.0 |
| 77.5° | 432.6 | 128.0 | 42.7 | 31.6 | 23.5 | 9.6 | 11.0 | 13.2 | 14.0 | 12.5 | 9.6 |
| 80° | 162.6 | 54.4 | 28.0 | 20.6 | 18.4 | 5.9 | 9.6 | 8.1 | 7.4 | 5.2 | 1.5 |
| 82.5° | 98.6 | 22.8 | 14.7 | 10.3 | 8.8 | 1.5 | 4.4 | 2.9 | 1.5 | 1.5 | 0.0 |
| 85° | 69.9 | 11.0 | 8.1 | 7.4 | 4.4 | 0.0 | 0.7 | 0.0 | 0.0 | 0.7 | 0.0 |
| 87.5° | 9.6 | 2.9 | 3.7 | 3.7 | 2.9 | 0.0 | 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)