

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: McGRAW-EDISON

Report Number: P532843

Luminaire Tested: **GALN-SA8B-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25414 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

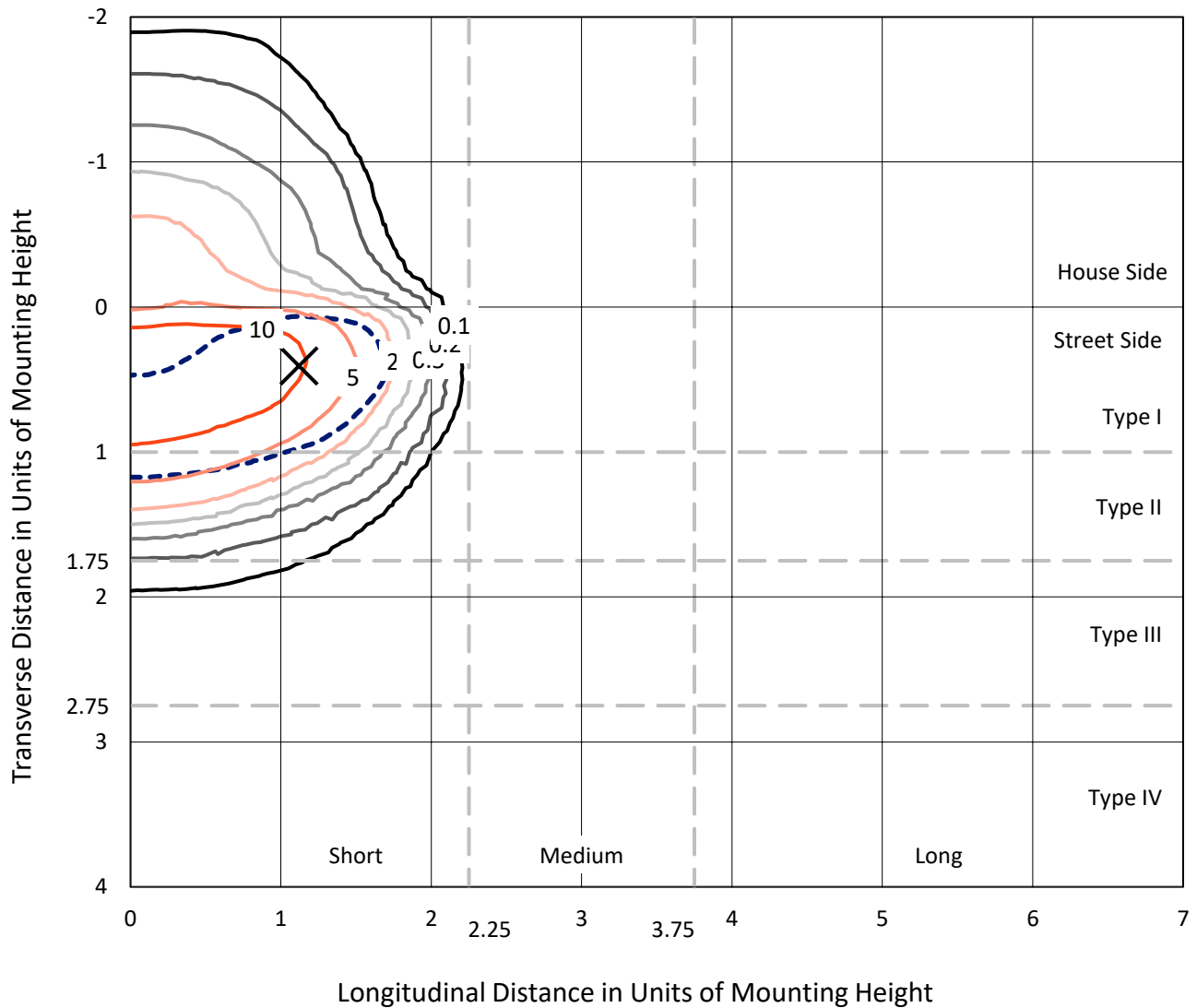
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532843
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Iso-Footcandle Lines of Horizontal Illumination

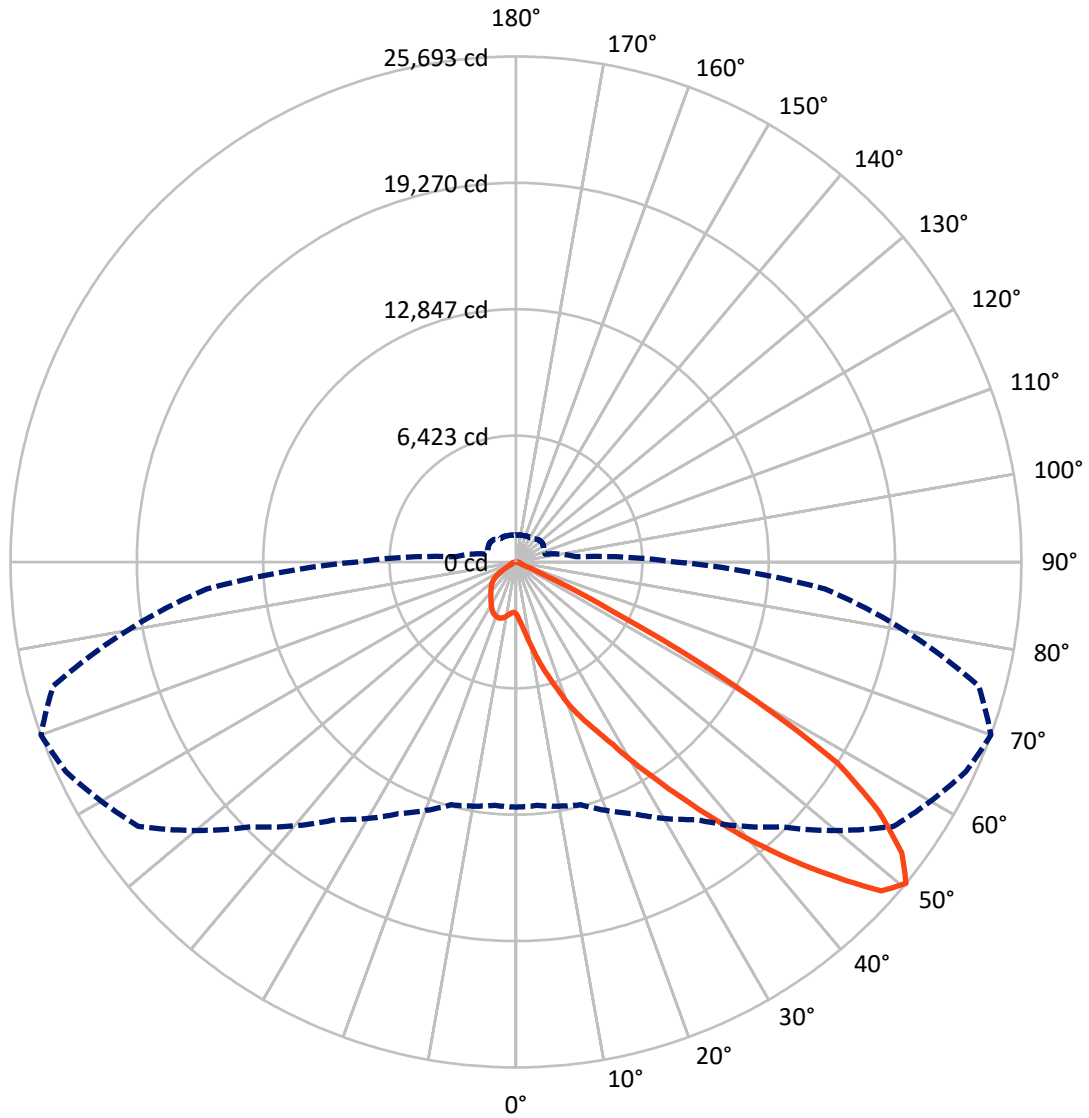
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type I - Short - N/A

REPORT NUMBER: P532843
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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3549.2 | 0.0 | 3549.2 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 21864.8 | 0.0 | 21864.8 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 25414.0 | 0.0 | 25414.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 342.3 | 1.3 |
| 10°-20° | 1480.7 | 5.8 |
| 20°-30° | 3106.3 | 12.2 |
| 30°-40° | 5354.1 | 21.1 |
| 40°-50° | 7825.0 | 30.8 |
| 50°-60° | 6094.4 | 24.0 |
| 60°-70° | 1032.6 | 4.1 |
| 70°-80° | 141.9 | 0.6 |
| 80°-90° | 36.8 | 0.1 |
| 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° | 25414.0 | 100.0 |
| 0°-180° | 25414.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P532843

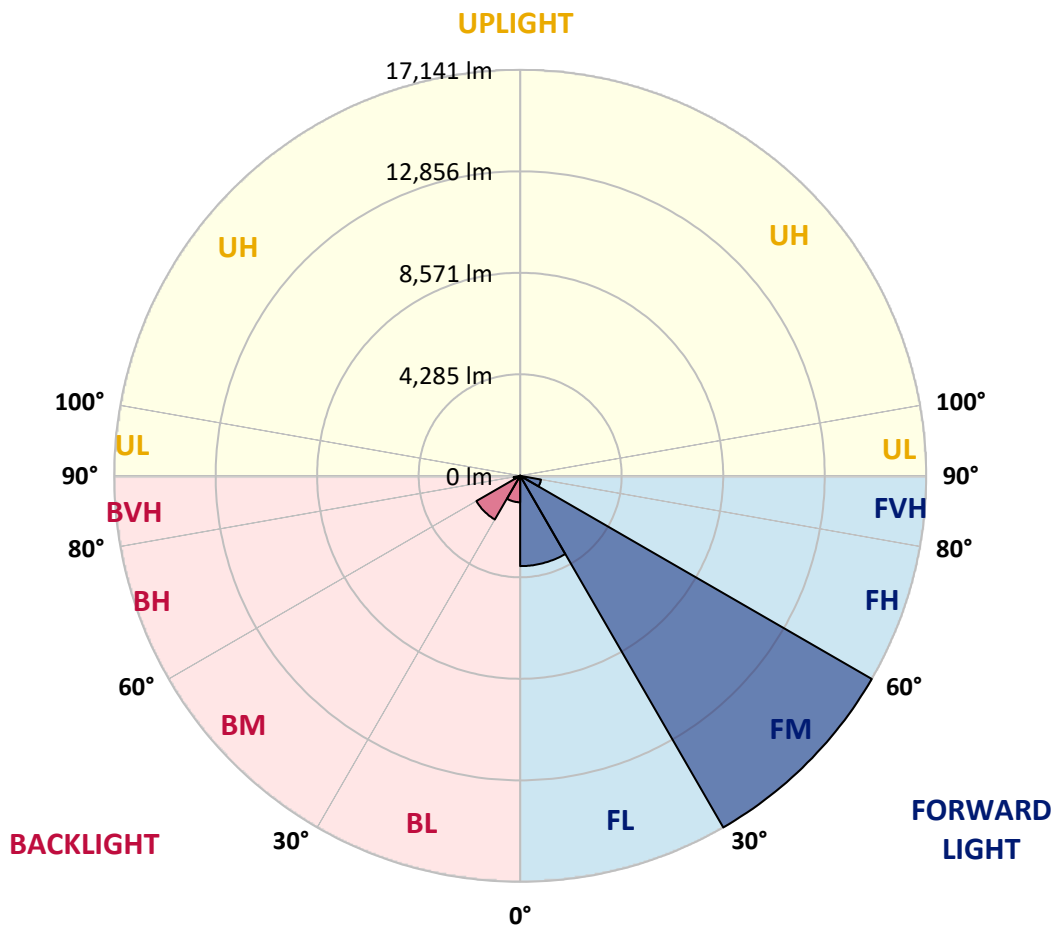
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3812.4 | 15.0 | | | |
| FM (30°-60°) | 17141.3 | 67.4 | | | |
| FH (60°-80°) | 894.1 | 3.5 | | | G1/1800 |
| FVH (80°-90°) | 17.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1116.9 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 2132.3 | 8.4 | B2/2500 | | |
| BH (60°-80°) | 280.4 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.8 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type I Short





REPORT NUMBER: P532843

CATALOG NUMBER: GALN-SA8B-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 |
| 2.5° | 3447.2 | 3422.1 | 3367.8 | 3267.5 | 3225.7 | 3125.4 | 3066.9 | 2954.1 | 2883.1 | 2803.7 | 2716.0 |
| 5° | 4855.3 | 4725.8 | 4646.4 | 4533.6 | 4203.5 | 3998.7 | 3660.3 | 3372.0 | 3238.3 | 3092.0 | 2891.5 |
| 7.5° | 6309.4 | 6225.8 | 6117.2 | 5874.8 | 5649.2 | 5223.0 | 4642.2 | 4007.1 | 3735.5 | 3484.8 | 3087.8 |
| 10° | 7512.8 | 7278.8 | 7266.2 | 7086.6 | 6840.0 | 6330.3 | 5632.5 | 4842.8 | 4358.1 | 3990.4 | 3367.8 |
| 12.5° | 8352.6 | 8139.5 | 8235.6 | 8214.7 | 7984.9 | 7516.9 | 6710.5 | 5665.9 | 5160.3 | 4587.9 | 3656.1 |
| 15° | 9117.3 | 9029.5 | 9000.3 | 8975.2 | 8883.3 | 8536.5 | 7813.6 | 6668.7 | 5937.5 | 5248.1 | 3982.0 |
| 17.5° | 9865.2 | 9639.6 | 9748.2 | 9769.1 | 9760.7 | 9447.4 | 8770.5 | 7621.4 | 6760.6 | 5945.9 | 4324.6 |
| 20° | 10529.6 | 10550.5 | 10404.2 | 10375.0 | 10349.9 | 10337.4 | 9677.2 | 8565.7 | 7771.8 | 6677.1 | 4771.7 |
| 22.5° | 11382.0 | 11235.7 | 11365.2 | 11281.7 | 11118.7 | 11018.4 | 10512.8 | 9401.4 | 8649.3 | 7558.7 | 5227.2 |
| 25° | 12388.9 | 12505.9 | 12200.9 | 12167.5 | 11987.8 | 11641.0 | 11185.6 | 10337.4 | 9493.3 | 8377.7 | 5720.2 |
| 27.5° | 13629.9 | 13425.2 | 13345.8 | 13161.9 | 12836.0 | 12689.8 | 12155.0 | 11302.6 | 10512.8 | 9238.4 | 6196.6 |
| 30° | 14695.4 | 14641.1 | 14244.2 | 14026.9 | 13742.7 | 13738.6 | 12990.6 | 12610.4 | 11841.6 | 10588.1 | 6852.6 |
| 32.5° | 15564.5 | 15326.4 | 15180.1 | 15029.7 | 14799.9 | 14862.6 | 14231.6 | 14031.1 | 13258.1 | 11841.6 | 7625.6 |
| 35° | 16145.3 | 15974.0 | 15886.3 | 15656.5 | 15589.6 | 15869.6 | 15606.3 | 15522.7 | 14887.6 | 13604.9 | 8532.3 |
| 37.5° | 16329.2 | 16383.5 | 16366.8 | 16078.5 | 16220.5 | 16976.8 | 17315.3 | 17098.0 | 16763.7 | 15464.2 | 9514.2 |
| 40° | 16492.1 | 16529.7 | 16446.2 | 16784.6 | 17189.9 | 18050.7 | 19274.9 | 18915.6 | 18790.3 | 17348.7 | 10880.5 |
| 42.5° | 16584.1 | 16554.8 | 16554.8 | 17139.8 | 17754.0 | 19483.9 | 21167.8 | 20929.6 | 20833.5 | 19354.3 | 12460.0 |
| 45° | 16187.1 | 15903.0 | 16208.0 | 17001.9 | 18238.7 | 20190.0 | 22680.3 | 23010.4 | 22872.5 | 21740.2 | 14306.8 |
| 47.5° | 14703.8 | 14879.3 | 15050.6 | 16111.9 | 17649.5 | 19972.7 | 23607.9 | 24731.9 | 24986.8 | 23745.8 | 15518.6 |
| 50° | 12460.0 | 12422.4 | 12777.5 | 14114.6 | 15982.4 | 19036.8 | 23428.3 | 25229.2 | 25693.0 | 24347.5 | 15773.4 |
| 52.5° | 9062.9 | 9338.7 | 9723.1 | 11051.9 | 13266.4 | 16613.3 | 21109.3 | 23946.4 | 24564.8 | 23607.9 | 15606.3 |
| 55° | 5277.3 | 4972.3 | 5837.2 | 6961.2 | 9050.4 | 12531.0 | 17845.9 | 21226.3 | 22371.1 | 22262.5 | 14762.3 |
| 57.5° | 2114.3 | 2047.4 | 2344.1 | 3158.9 | 4721.6 | 7767.6 | 12978.1 | 17440.6 | 19274.9 | 20390.6 | 12973.9 |
| 60° | 927.6 | 906.7 | 1065.5 | 1286.9 | 1930.4 | 3580.9 | 7099.1 | 10847.1 | 12760.8 | 14248.3 | 8929.2 |
| 62.5° | 668.5 | 660.2 | 739.6 | 819.0 | 1019.5 | 1558.5 | 2983.4 | 4370.6 | 5448.6 | 6581.0 | 3998.7 |
| 65° | 539.0 | 559.9 | 614.2 | 656.0 | 752.1 | 864.9 | 1053.0 | 1215.9 | 1491.7 | 1546.0 | 881.6 |
| 67.5° | 438.7 | 455.4 | 505.6 | 551.5 | 568.3 | 468.0 | 484.7 | 426.2 | 426.2 | 380.2 | 305.0 |
| 70° | 321.7 | 325.9 | 384.4 | 438.7 | 351.0 | 188.0 | 330.1 | 330.1 | 296.7 | 284.1 | 259.1 |
| 72.5° | 238.2 | 242.3 | 288.3 | 271.6 | 137.9 | 117.0 | 242.3 | 267.4 | 242.3 | 229.8 | 208.9 |
| 75° | 175.5 | 179.7 | 150.4 | 62.7 | 58.5 | 75.2 | 142.1 | 183.8 | 175.5 | 171.3 | 158.8 |
| 77.5° | 33.4 | 25.1 | 20.9 | 29.2 | 41.8 | 62.7 | 91.9 | 112.8 | 117.0 | 125.4 | 117.0 |
| 80° | 4.2 | 4.2 | 12.5 | 25.1 | 46.0 | 66.9 | 96.1 | 108.6 | 112.8 | 117.0 | 108.6 |
| 82.5° | 0.0 | 4.2 | 12.5 | 25.1 | 46.0 | 62.7 | 83.6 | 96.1 | 104.5 | 108.6 | 104.5 |
| 85° | 0.0 | 4.2 | 8.4 | 20.9 | 37.6 | 46.0 | 41.8 | 29.2 | 25.1 | 29.2 | 20.9 |
| 87.5° | 0.0 | 0.0 | 4.2 | 4.2 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 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: P532843

CATALOG NUMBER: GALN-SA8B-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 | 2632.4 |
| 2.5° | 2665.8 | 2649.1 | 2590.6 | 2527.9 | 2473.6 | 2498.7 | 2473.6 | 2452.7 | 2461.1 | 2452.7 | 2444.4 |
| 5° | 2812.1 | 2736.8 | 2611.5 | 2557.2 | 2511.2 | 2507.0 | 2494.5 | 2490.3 | 2494.5 | 2494.5 | 2456.9 |
| 7.5° | 2949.9 | 2828.8 | 2695.1 | 2636.6 | 2582.2 | 2586.4 | 2557.2 | 2557.2 | 2553.0 | 2532.1 | 2523.8 |
| 10° | 3158.9 | 2995.9 | 2824.6 | 2720.1 | 2653.3 | 2640.7 | 2611.5 | 2582.2 | 2582.2 | 2582.2 | 2540.5 |
| 12.5° | 3388.7 | 3183.9 | 2949.9 | 2828.8 | 2749.4 | 2686.7 | 2640.7 | 2632.4 | 2586.4 | 2578.1 | 2557.2 |
| 15° | 3589.2 | 3330.2 | 3033.5 | 2866.4 | 2766.1 | 2682.5 | 2611.5 | 2565.5 | 2544.6 | 2532.1 | 2515.4 |
| 17.5° | 3785.6 | 3455.5 | 3079.5 | 2866.4 | 2757.7 | 2661.6 | 2586.4 | 2544.6 | 2494.5 | 2502.9 | 2469.4 |
| 20° | 4048.9 | 3589.2 | 3092.0 | 2812.1 | 2678.4 | 2586.4 | 2486.1 | 2465.3 | 2436.0 | 2410.9 | 2419.3 |
| 22.5° | 4303.7 | 3685.3 | 3054.4 | 2745.2 | 2553.0 | 2444.4 | 2394.2 | 2369.2 | 2356.6 | 2335.7 | 2306.5 |
| 25° | 4533.6 | 3789.8 | 2995.9 | 2624.0 | 2419.3 | 2339.9 | 2293.9 | 2289.8 | 2260.5 | 2260.5 | 2206.2 |
| 27.5° | 4767.6 | 3827.4 | 2895.6 | 2482.0 | 2302.3 | 2256.3 | 2235.4 | 2227.1 | 2214.6 | 2185.3 | 2147.7 |
| 30° | 5035.0 | 3839.9 | 2749.4 | 2335.7 | 2197.8 | 2147.7 | 2176.9 | 2197.8 | 2143.5 | 2089.2 | 2105.9 |
| 32.5° | 5256.4 | 3810.7 | 2573.9 | 2197.8 | 2122.6 | 2097.6 | 2156.1 | 2176.9 | 2114.3 | 2055.8 | 2026.5 |
| 35° | 5523.8 | 3739.7 | 2402.6 | 2089.2 | 2047.4 | 2097.6 | 2147.7 | 2147.7 | 2022.3 | 1951.3 | 1934.6 |
| 37.5° | 5929.1 | 3660.3 | 2243.8 | 1997.3 | 1968.0 | 2072.5 | 2139.3 | 2093.4 | 1897.0 | 1809.2 | 1788.4 |
| 40° | 6363.7 | 3610.1 | 2089.2 | 1905.3 | 1926.2 | 2030.7 | 2068.3 | 1926.2 | 1725.7 | 1671.4 | 1654.6 |
| 42.5° | 6994.6 | 3509.9 | 1951.3 | 1826.0 | 1888.6 | 1972.2 | 1972.2 | 1717.3 | 1642.1 | 1612.9 | 1608.7 |
| 45° | 7780.2 | 3438.8 | 1830.1 | 1759.1 | 1834.3 | 1855.2 | 1788.4 | 1608.7 | 1554.4 | 1546.0 | 1550.2 |
| 47.5° | 8164.6 | 3300.9 | 1704.8 | 1679.7 | 1734.0 | 1738.2 | 1562.7 | 1520.9 | 1475.0 | 1462.4 | 1454.1 |
| 50° | 8106.1 | 3054.4 | 1541.8 | 1575.3 | 1650.5 | 1608.7 | 1424.8 | 1433.2 | 1391.4 | 1387.2 | 1366.3 |
| 52.5° | 7696.6 | 2665.8 | 1378.9 | 1458.3 | 1541.8 | 1420.7 | 1312.0 | 1303.7 | 1303.7 | 1249.3 | 1228.4 |
| 55° | 6823.3 | 2147.7 | 1182.5 | 1282.8 | 1383.0 | 1195.0 | 1165.8 | 1157.4 | 1136.5 | 1086.4 | 1073.8 |
| 57.5° | 5402.7 | 1575.3 | 890.0 | 998.6 | 1174.1 | 1015.4 | 1011.2 | 973.6 | 919.2 | 881.6 | 881.6 |
| 60° | 3213.2 | 906.7 | 559.9 | 610.0 | 777.2 | 823.1 | 915.1 | 898.4 | 806.4 | 747.9 | 731.2 |
| 62.5° | 1466.6 | 468.0 | 355.2 | 363.5 | 417.8 | 534.8 | 718.7 | 831.5 | 702.0 | 601.7 | 593.3 |
| 65° | 493.1 | 346.8 | 292.5 | 280.0 | 288.3 | 321.7 | 430.4 | 589.2 | 559.9 | 463.8 | 447.1 |
| 67.5° | 300.8 | 309.2 | 275.8 | 254.9 | 254.9 | 250.7 | 246.5 | 267.4 | 330.1 | 321.7 | 325.9 |
| 70° | 259.1 | 284.1 | 254.9 | 229.8 | 221.5 | 208.9 | 175.5 | 146.2 | 125.4 | 146.2 | 154.6 |
| 72.5° | 208.9 | 225.6 | 217.3 | 196.4 | 175.5 | 158.8 | 125.4 | 96.1 | 71.0 | 62.7 | 62.7 |
| 75° | 154.6 | 167.1 | 175.5 | 150.4 | 133.7 | 112.8 | 91.9 | 62.7 | 37.6 | 25.1 | 25.1 |
| 77.5° | 112.8 | 125.4 | 129.5 | 117.0 | 100.3 | 79.4 | 58.5 | 41.8 | 20.9 | 8.4 | 8.4 |
| 80° | 96.1 | 112.8 | 125.4 | 117.0 | 104.5 | 75.2 | 54.3 | 29.2 | 16.7 | 4.2 | 4.2 |
| 82.5° | 91.9 | 112.8 | 125.4 | 112.8 | 100.3 | 71.0 | 54.3 | 33.4 | 12.5 | 4.2 | 4.2 |
| 85° | 20.9 | 29.2 | 37.6 | 46.0 | 54.3 | 54.3 | 41.8 | 25.1 | 12.5 | 4.2 | 4.2 |
| 87.5° | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 4.2 | 4.2 | 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)