

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: P533751

Luminaire Tested: **GALN-SA9B-722-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-722-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22369 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

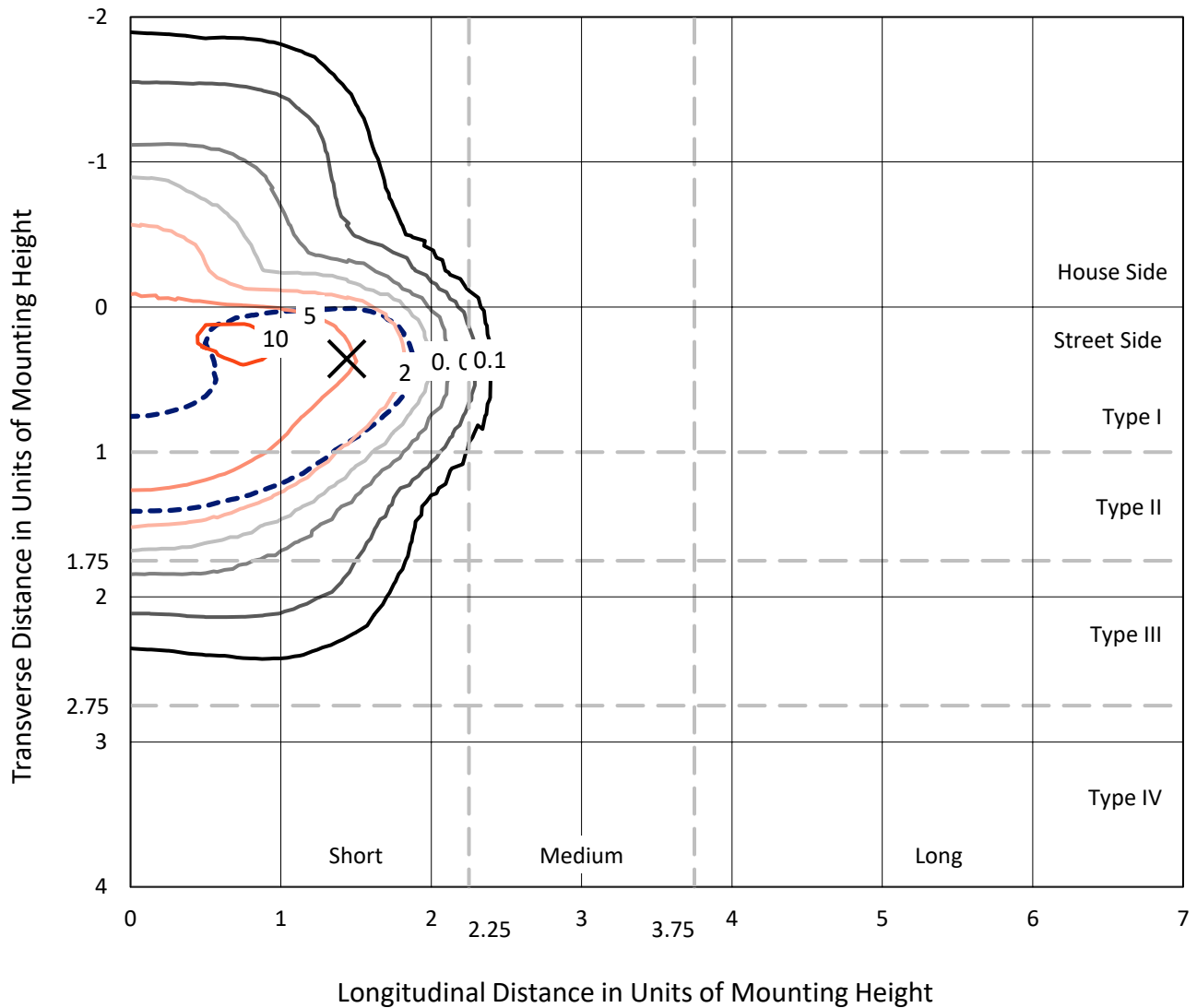
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

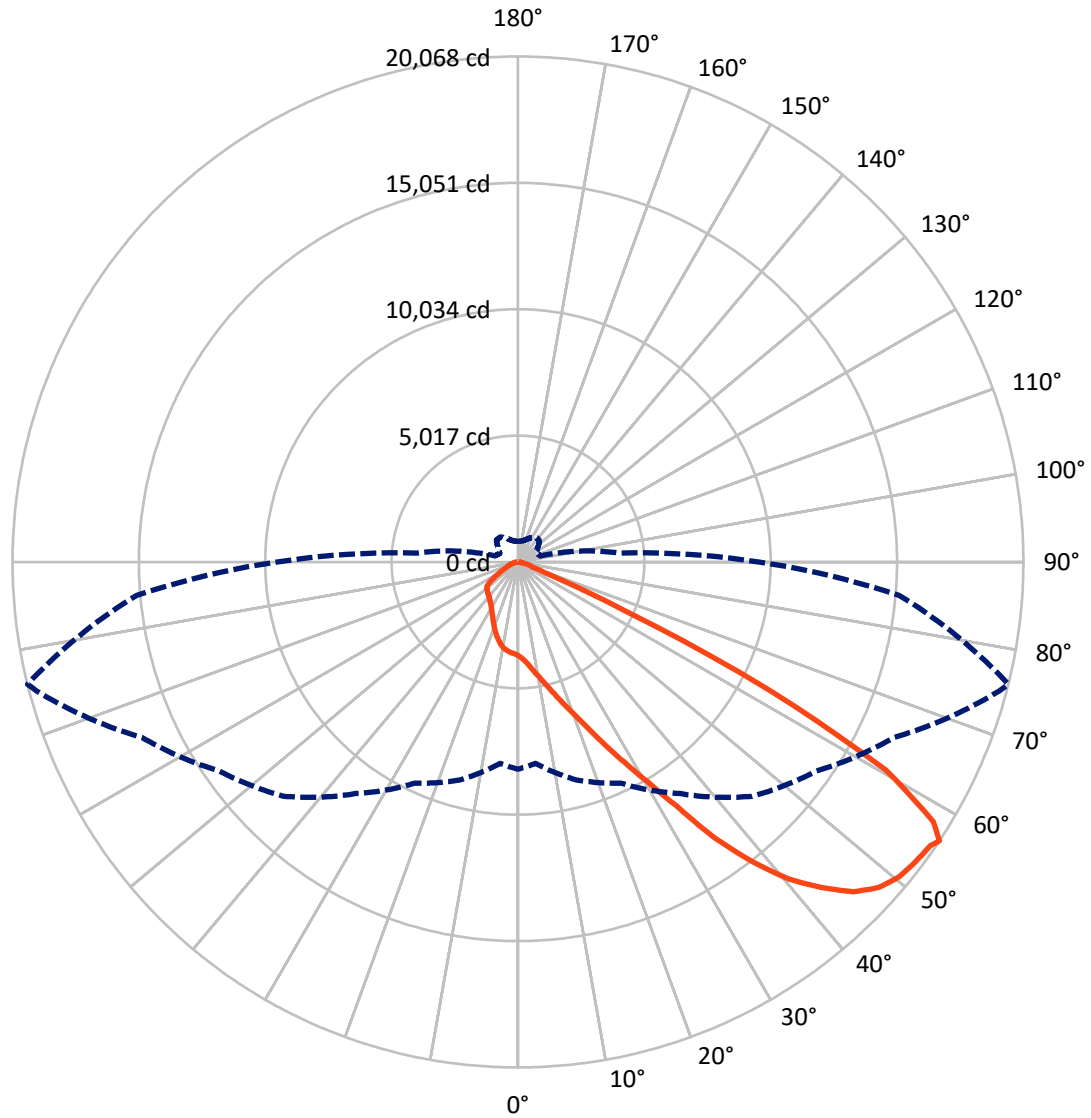
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3514.0 | 0.0 | 3514.0 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 18854.9 | 0.0 | 18854.9 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 22369.0 | 0.0 | 22369.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 375.1 | 1.7 |
| 10°-20° | 1205.0 | 5.4 |
| 20°-30° | 2184.9 | 9.8 |
| 30°-40° | 3768.1 | 16.8 |
| 40°-50° | 6121.3 | 27.4 |
| 50°-60° | 6452.1 | 28.8 |
| 60°-70° | 1971.4 | 8.8 |
| 70°-80° | 252.7 | 1.1 |
| 80°-90° | 38.4 | 0.2 |
| 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° | 22369.0 | 100.0 |
| 0°-180° | 22369.0 | 100.0 |

Coefficient of Utilization



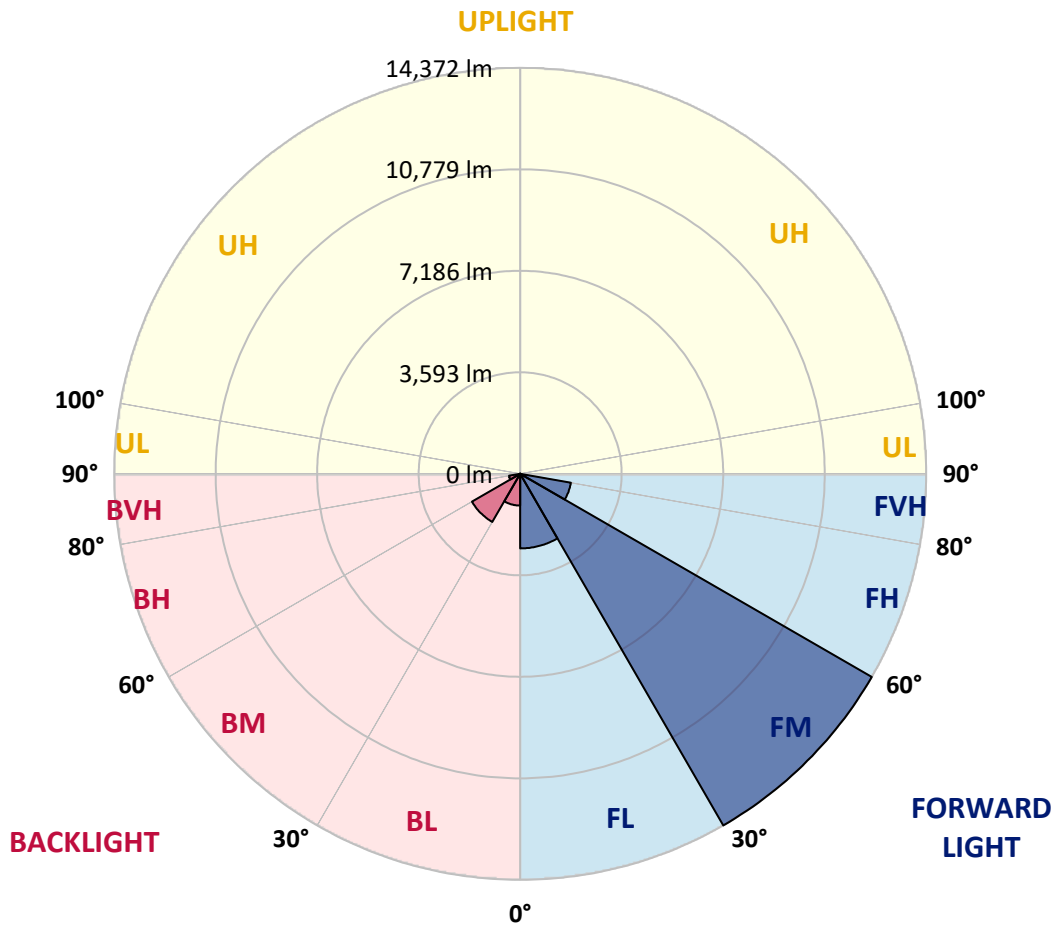
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2640.9 | 11.8 | | | |
| FM (30°-60°) | 14372.1 | 64.2 | | | |
| FH (60°-80°) | 1823.2 | 8.2 | | | G2/5000 |
| FVH (80°-90°) | 18.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1124.1 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 1969.4 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 400.9 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.6 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 |
| 2.5° | 4288.2 | 4189.3 | 4193.4 | 4185.2 | 4172.8 | 4127.4 | 3991.4 | 3970.8 | 3880.0 | 3855.3 | 3772.8 |
| 5° | 4803.7 | 4717.1 | 4766.6 | 4692.3 | 4622.2 | 4581.0 | 4358.3 | 4255.3 | 4110.9 | 4057.3 | 3941.9 |
| 7.5° | 5125.3 | 5084.0 | 5067.6 | 5071.7 | 5005.7 | 4902.6 | 4803.7 | 4576.9 | 4383.1 | 4341.9 | 4098.6 |
| 10° | 5282.0 | 5257.2 | 5282.0 | 5269.6 | 5298.5 | 5310.8 | 5137.7 | 5001.6 | 4717.1 | 4647.0 | 4267.6 |
| 12.5° | 5319.1 | 5368.6 | 5389.2 | 5442.8 | 5512.9 | 5632.4 | 5620.1 | 5434.5 | 5055.2 | 5009.8 | 4527.4 |
| 15° | 5409.8 | 5451.0 | 5430.4 | 5517.0 | 5648.9 | 5851.0 | 5958.2 | 5929.3 | 5521.1 | 5438.7 | 4828.4 |
| 17.5° | 5492.3 | 5418.0 | 5488.1 | 5661.3 | 5793.3 | 6102.5 | 6362.3 | 6481.9 | 6028.3 | 5933.5 | 5104.7 |
| 20° | 5603.6 | 5583.0 | 5570.6 | 5657.2 | 5892.2 | 6304.5 | 6820.0 | 7038.5 | 6597.3 | 6498.3 | 5500.5 |
| 22.5° | 5941.7 | 5945.8 | 5937.6 | 5809.8 | 5978.8 | 6444.7 | 7219.9 | 7760.1 | 7277.7 | 7195.2 | 5949.9 |
| 25° | 6387.0 | 6333.4 | 6292.2 | 6189.1 | 6168.5 | 6572.6 | 7624.0 | 8642.5 | 8094.1 | 8036.3 | 6436.5 |
| 27.5° | 6857.1 | 6857.1 | 6733.4 | 6638.5 | 6506.6 | 6890.1 | 7995.1 | 9500.1 | 9079.5 | 9001.2 | 6861.2 |
| 30° | 7368.4 | 7397.2 | 7380.7 | 7178.7 | 7096.2 | 7236.4 | 8374.5 | 10596.9 | 10209.3 | 10110.4 | 7562.2 |
| 32.5° | 8122.9 | 8061.1 | 8131.2 | 7962.1 | 7718.8 | 7842.5 | 8972.3 | 11578.3 | 11677.2 | 11537.0 | 8481.7 |
| 35° | 9120.8 | 9083.7 | 9038.3 | 8762.0 | 8473.4 | 8572.4 | 9817.6 | 12786.4 | 13520.4 | 13450.3 | 9409.4 |
| 37.5° | 10015.5 | 9994.9 | 9957.8 | 9768.1 | 9434.1 | 9553.7 | 10778.3 | 14044.0 | 15318.1 | 15087.2 | 10720.6 |
| 40° | 10955.6 | 11067.0 | 10947.4 | 10778.3 | 10473.2 | 10737.1 | 11908.1 | 14790.3 | 16831.4 | 16551.0 | 11722.6 |
| 42.5° | 12229.8 | 12143.2 | 12196.8 | 11887.5 | 11722.6 | 12011.2 | 13042.0 | 15536.7 | 18006.5 | 17672.5 | 12786.4 |
| 45° | 13586.3 | 13590.4 | 13446.1 | 13347.2 | 12918.3 | 13231.7 | 13738.9 | 15949.0 | 18942.5 | 18682.7 | 13590.4 |
| 47.5° | 14456.3 | 14452.2 | 14608.9 | 14765.6 | 14324.4 | 14015.1 | 14213.1 | 16340.7 | 19424.9 | 19305.4 | 13883.2 |
| 50° | 14320.3 | 14361.5 | 14563.5 | 15149.1 | 15380.0 | 14963.5 | 14658.4 | 16225.2 | 19643.5 | 19631.1 | 14134.7 |
| 52.5° | 12456.5 | 12592.6 | 12930.7 | 13776.0 | 14938.8 | 15454.2 | 15124.3 | 16439.7 | 19750.7 | 19771.3 | 14509.9 |
| 55° | 9483.6 | 9557.8 | 10201.1 | 11227.8 | 12514.3 | 14279.0 | 14938.8 | 16608.7 | 19833.1 | 19870.3 | 14963.5 |
| 56° | 8226.0 | 8028.1 | 8955.8 | 9685.7 | 11223.7 | 13153.4 | 14468.7 | 16476.8 | 19783.7 | 20068.2 | 15190.3 |
| 57.5° | 6209.7 | 6077.8 | 6828.2 | 7739.5 | 9219.7 | 11256.7 | 13009.1 | 15854.1 | 19449.7 | 19445.6 | 14864.6 |
| 60° | 3777.0 | 3645.0 | 4222.3 | 4758.3 | 5587.1 | 6931.3 | 8790.9 | 12625.6 | 16443.8 | 16790.1 | 12036.0 |
| 62.5° | 2247.2 | 2329.7 | 2898.7 | 3224.4 | 3492.4 | 3632.6 | 4548.0 | 7504.4 | 10972.1 | 11219.5 | 7467.3 |
| 65° | 1496.8 | 1525.6 | 1954.5 | 2490.5 | 2610.1 | 2078.2 | 1851.4 | 3038.9 | 4758.3 | 4605.7 | 3080.1 |
| 67.5° | 923.6 | 989.6 | 1311.2 | 1872.0 | 2074.0 | 1517.4 | 878.3 | 1133.9 | 1311.2 | 1311.2 | 890.6 |
| 70° | 560.8 | 593.8 | 874.1 | 1274.1 | 1422.5 | 977.2 | 639.1 | 639.1 | 630.9 | 618.5 | 531.9 |
| 72.5° | 268.0 | 288.6 | 445.3 | 655.6 | 668.0 | 515.4 | 494.8 | 540.2 | 527.8 | 523.7 | 441.2 |
| 75° | 115.5 | 123.7 | 156.7 | 206.2 | 235.0 | 218.5 | 301.0 | 387.6 | 400.0 | 387.6 | 317.5 |
| 77.5° | 37.1 | 41.2 | 57.7 | 74.2 | 78.3 | 94.8 | 127.8 | 160.8 | 185.5 | 173.2 | 156.7 |
| 80° | 4.1 | 8.2 | 16.5 | 37.1 | 57.7 | 74.2 | 94.8 | 107.2 | 119.6 | 119.6 | 111.3 |
| 82.5° | 4.1 | 4.1 | 16.5 | 33.0 | 53.6 | 70.1 | 90.7 | 103.1 | 119.6 | 123.7 | 115.5 |
| 85° | 0.0 | 4.1 | 12.4 | 28.9 | 45.4 | 45.4 | 41.2 | 41.2 | 28.9 | 28.9 | 28.9 |
| 87.5° | 0.0 | 0.0 | 4.1 | 4.1 | 4.1 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 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° | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 | 3723.4 |
| 2.5° | 3756.3 | 3748.1 | 3636.8 | 3566.7 | 3529.6 | 3455.3 | 3410.0 | 3377.0 | 3352.3 | 3323.4 | 3327.5 |
| 5° | 3805.8 | 3777.0 | 3591.4 | 3463.6 | 3311.0 | 3228.6 | 3158.5 | 3100.7 | 3063.6 | 3055.4 | 3038.9 |
| 7.5° | 3946.0 | 3793.5 | 3513.1 | 3282.2 | 3088.4 | 3005.9 | 2944.0 | 2906.9 | 2923.4 | 2886.3 | 2915.2 |
| 10° | 4053.2 | 3826.4 | 3418.2 | 3084.2 | 2890.4 | 2828.6 | 2795.6 | 2824.5 | 2865.7 | 2849.2 | 2828.6 |
| 12.5° | 4185.2 | 3859.4 | 3265.7 | 2894.6 | 2713.1 | 2667.8 | 2725.5 | 2779.1 | 2861.6 | 2894.6 | 2853.3 |
| 15° | 4333.6 | 3896.5 | 3071.9 | 2676.0 | 2560.6 | 2597.7 | 2696.6 | 2791.5 | 2874.0 | 2915.2 | 2939.9 |
| 17.5° | 4515.0 | 3884.2 | 2882.2 | 2502.9 | 2416.3 | 2523.5 | 2643.0 | 2729.6 | 2853.3 | 2915.2 | 2898.7 |
| 20° | 4684.1 | 3842.9 | 2671.9 | 2329.7 | 2333.8 | 2432.8 | 2531.7 | 2671.9 | 2737.9 | 2820.3 | 2791.5 |
| 22.5° | 4844.9 | 3768.7 | 2453.4 | 2210.1 | 2210.1 | 2362.7 | 2412.1 | 2502.9 | 2560.6 | 2601.8 | 2597.7 |
| 25° | 5071.7 | 3628.5 | 2271.9 | 2094.6 | 2144.1 | 2243.1 | 2284.3 | 2313.2 | 2288.4 | 2321.4 | 2325.5 |
| 27.5° | 5232.5 | 3484.2 | 2123.5 | 1991.6 | 2082.3 | 2156.5 | 2144.1 | 2127.6 | 2069.9 | 2024.5 | 2053.4 |
| 30° | 5405.7 | 3315.1 | 1995.7 | 1921.5 | 1970.9 | 2036.9 | 1987.4 | 1938.0 | 1847.2 | 1773.0 | 1777.1 |
| 32.5° | 5653.1 | 3236.8 | 1884.4 | 1839.0 | 1905.0 | 1913.2 | 1859.6 | 1785.4 | 1694.7 | 1624.6 | 1620.5 |
| 35° | 6114.9 | 3187.3 | 1789.5 | 1785.4 | 1797.8 | 1801.9 | 1748.3 | 1657.6 | 1620.5 | 1562.7 | 1583.4 |
| 37.5° | 6576.7 | 3162.6 | 1723.5 | 1707.1 | 1702.9 | 1707.1 | 1645.2 | 1558.6 | 1628.7 | 1624.6 | 1632.8 |
| 40° | 7166.3 | 3273.9 | 1628.7 | 1608.1 | 1612.2 | 1612.2 | 1533.9 | 1509.1 | 1632.8 | 1645.2 | 1649.3 |
| 42.5° | 7764.2 | 3414.1 | 1566.9 | 1500.9 | 1517.4 | 1517.4 | 1476.1 | 1447.3 | 1533.9 | 1451.4 | 1439.0 |
| 45° | 8283.7 | 3620.3 | 1500.9 | 1393.7 | 1434.9 | 1455.5 | 1443.2 | 1393.7 | 1340.1 | 1199.9 | 1199.9 |
| 47.5° | 8452.8 | 3801.7 | 1422.5 | 1290.6 | 1323.6 | 1414.3 | 1377.2 | 1274.1 | 1179.3 | 1063.8 | 1055.6 |
| 50° | 8749.7 | 3999.6 | 1360.7 | 1171.0 | 1241.1 | 1352.4 | 1315.3 | 1212.3 | 1105.0 | 1022.6 | 1026.7 |
| 52.5° | 9054.8 | 4226.4 | 1245.2 | 1030.8 | 1117.4 | 1303.0 | 1303.0 | 1187.5 | 1022.6 | 964.9 | 956.6 |
| 55° | 9512.5 | 4218.2 | 1039.1 | 845.3 | 997.8 | 1228.7 | 1249.4 | 1063.8 | 915.4 | 870.0 | 870.0 |
| 56° | 9578.5 | 4028.5 | 936.0 | 791.7 | 944.2 | 1208.1 | 1212.3 | 1030.8 | 874.1 | 824.7 | 824.7 |
| 57.5° | 9083.7 | 3636.8 | 820.5 | 725.7 | 878.3 | 1171.0 | 1175.1 | 1002.0 | 841.2 | 771.1 | 762.8 |
| 60° | 6989.0 | 2461.6 | 684.5 | 647.4 | 795.8 | 1055.6 | 1076.2 | 911.3 | 738.1 | 684.5 | 680.3 |
| 62.5° | 3946.0 | 1364.8 | 602.0 | 585.5 | 684.5 | 898.9 | 960.7 | 795.8 | 626.7 | 597.9 | 606.1 |
| 65° | 1801.9 | 750.4 | 507.2 | 474.2 | 552.5 | 692.7 | 775.2 | 655.6 | 515.4 | 482.4 | 482.4 |
| 67.5° | 659.7 | 511.3 | 432.9 | 375.2 | 387.6 | 449.4 | 503.0 | 424.7 | 342.2 | 292.8 | 305.1 |
| 70° | 470.1 | 428.8 | 379.3 | 325.7 | 301.0 | 292.8 | 288.6 | 239.2 | 169.1 | 131.9 | 140.2 |
| 72.5° | 379.3 | 354.6 | 317.5 | 276.3 | 235.0 | 197.9 | 169.1 | 123.7 | 78.3 | 53.6 | 49.5 |
| 75° | 272.1 | 259.8 | 230.9 | 197.9 | 164.9 | 140.2 | 115.5 | 78.3 | 41.2 | 20.6 | 20.6 |
| 77.5° | 140.2 | 140.2 | 136.1 | 123.7 | 103.1 | 82.5 | 66.0 | 45.4 | 24.7 | 8.2 | 8.2 |
| 80° | 107.2 | 115.5 | 119.6 | 107.2 | 94.8 | 74.2 | 53.6 | 33.0 | 16.5 | 4.1 | 4.1 |
| 82.5° | 103.1 | 119.6 | 127.8 | 111.3 | 94.8 | 70.1 | 53.6 | 33.0 | 16.5 | 4.1 | 4.1 |
| 85° | 24.7 | 24.7 | 37.1 | 41.2 | 53.6 | 57.7 | 45.4 | 28.9 | 12.4 | 4.1 | 4.1 |
| 87.5° | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 4.1 | 4.1 | 4.1 | 4.1 | 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)