

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: P534011

Luminaire Tested: **GALN-SA9C-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534011
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-SA9C-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA 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: 31443 lumens
Efficiency: N/A
Efficacy: 65.4 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

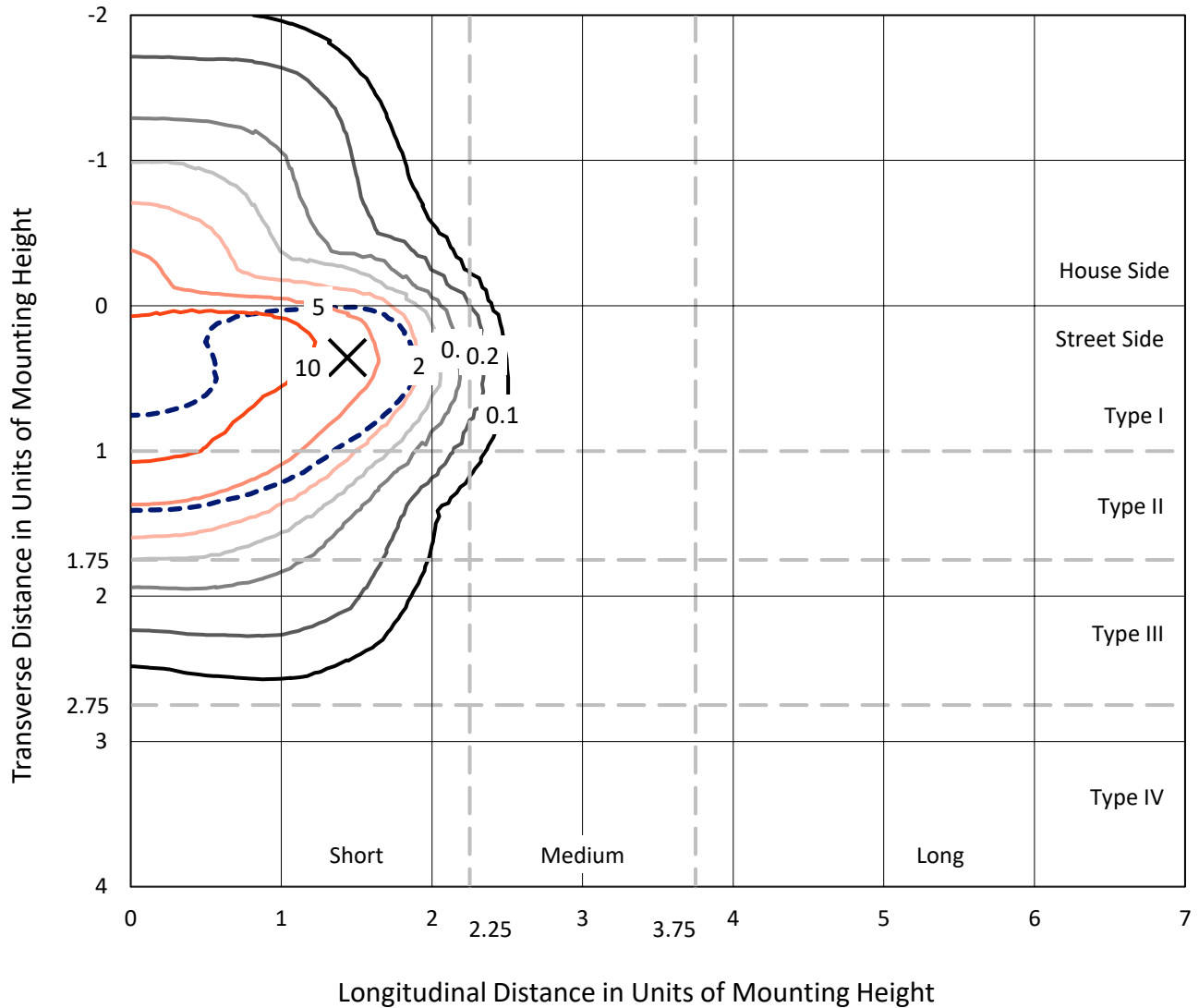
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

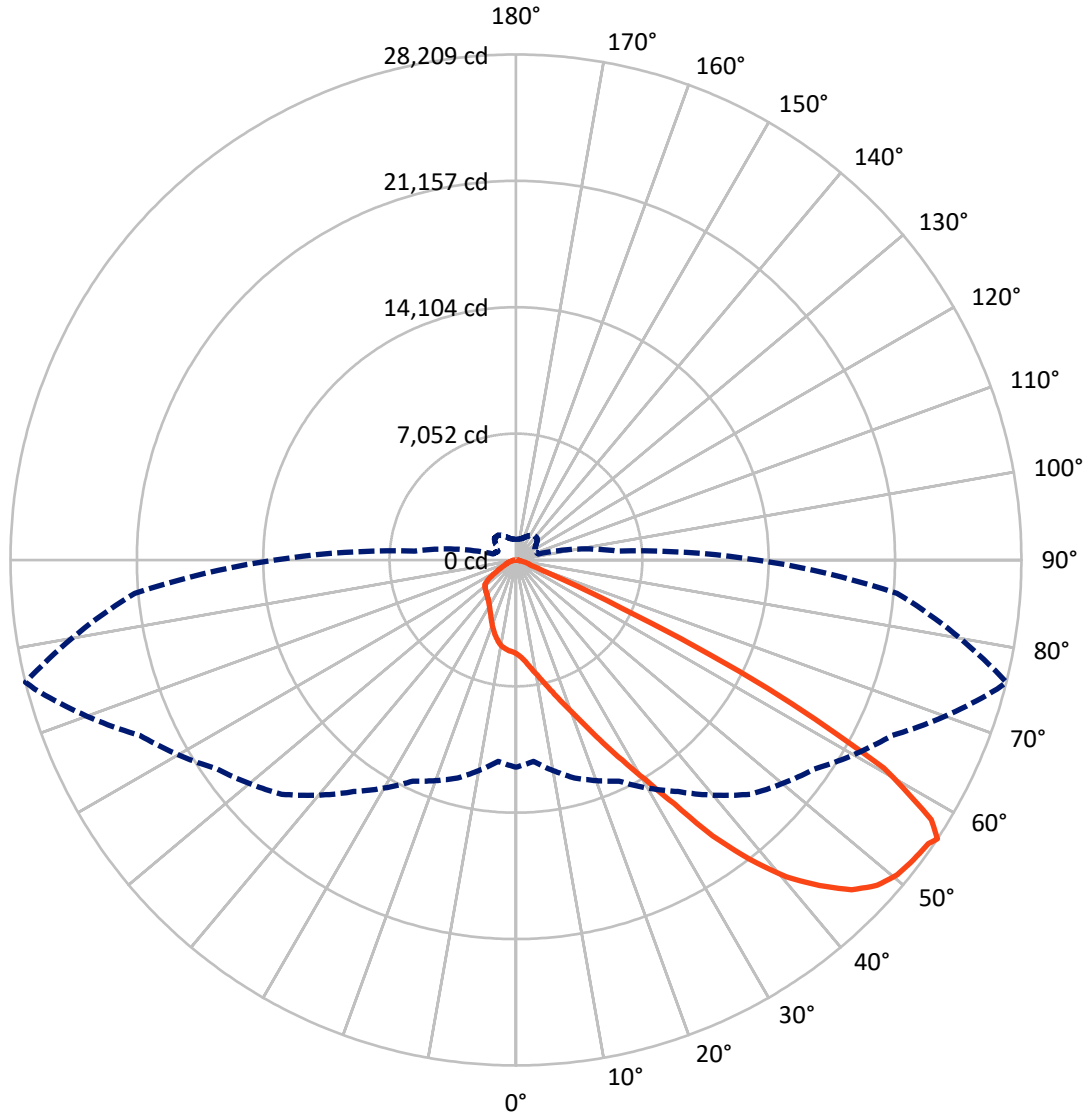
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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 | 4939.5 | 0.0 | 4939.5 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 26503.5 | 0.0 | 26503.5 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 31443.0 | 0.0 | 31443.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 527.2 | 1.7 |
| 10°-20° | 1693.8 | 5.4 |
| 20°-30° | 3071.3 | 9.8 |
| 30°-40° | 5296.6 | 16.8 |
| 40°-50° | 8604.4 | 27.4 |
| 50°-60° | 9069.4 | 28.8 |
| 60°-70° | 2771.1 | 8.8 |
| 70°-80° | 355.2 | 1.1 |
| 80°-90° | 54.0 | 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° | 31443.0 | 100.0 |
| 0°-180° | 31443.0 | 100.0 |

Coefficient of Utilization

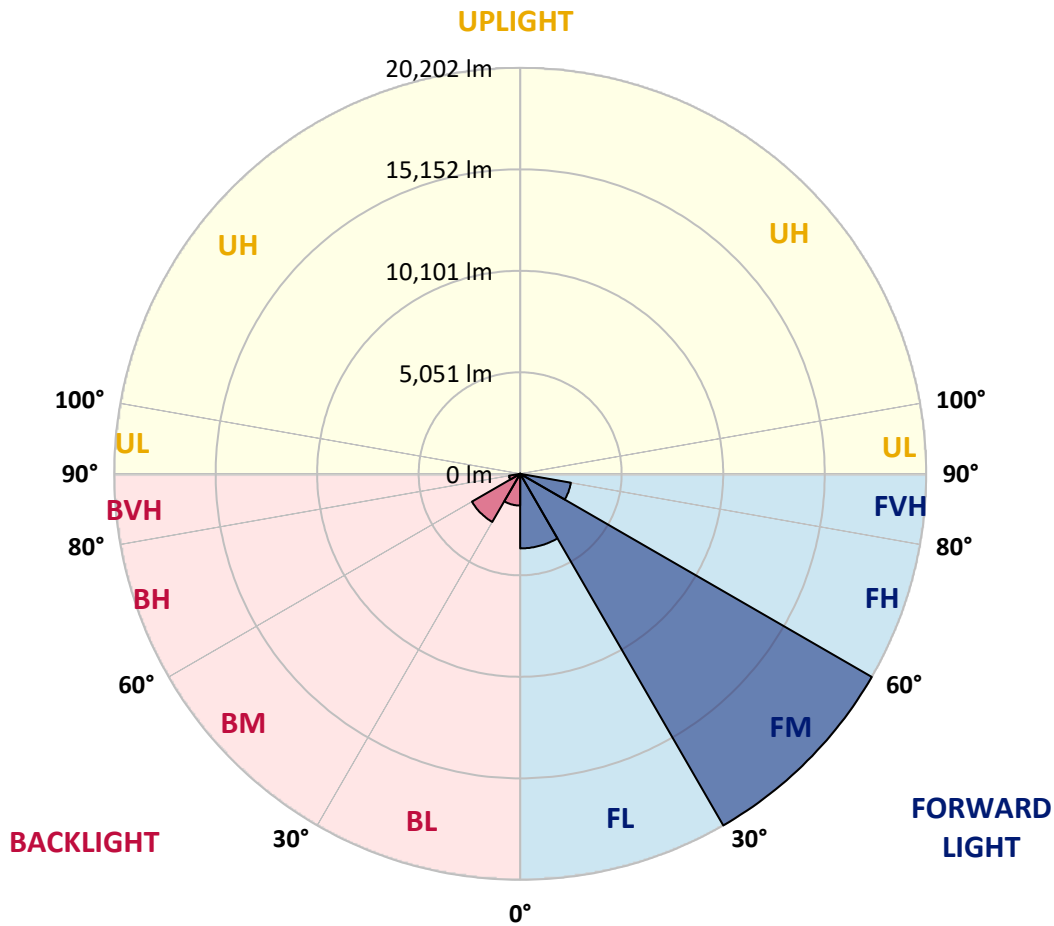


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3712.1 | 11.8 | | | |
| FM (30°-60°) | 20202.1 | 64.2 | | | |
| FH (60°-80°) | 2562.8 | 8.2 | | | G2/5000 |
| FVH (80°-90°) | 26.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1580.2 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 2768.3 | 8.8 | B3/5000 | | |
| BH (60°-80°) | 563.5 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 27.5 | 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° | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 |
| 2.5° | 6027.8 | 5888.7 | 5894.5 | 5882.9 | 5865.5 | 5801.7 | 5610.5 | 5581.5 | 5454.0 | 5419.2 | 5303.3 |
| 5° | 6752.3 | 6630.6 | 6700.1 | 6595.8 | 6497.2 | 6439.3 | 6126.3 | 5981.4 | 5778.6 | 5703.2 | 5540.9 |
| 7.5° | 7204.4 | 7146.4 | 7123.2 | 7129.0 | 7036.3 | 6891.4 | 6752.3 | 6433.5 | 6161.1 | 6103.1 | 5761.2 |
| 10° | 7424.6 | 7389.8 | 7424.6 | 7407.2 | 7447.8 | 7465.2 | 7221.7 | 7030.5 | 6630.6 | 6532.0 | 5998.8 |
| 12.5° | 7476.8 | 7546.3 | 7575.3 | 7650.6 | 7749.2 | 7917.3 | 7899.9 | 7639.1 | 7105.8 | 7042.1 | 6363.9 |
| 15° | 7604.3 | 7662.2 | 7633.3 | 7755.0 | 7940.4 | 8224.4 | 8375.1 | 8334.6 | 7760.8 | 7644.8 | 6787.0 |
| 17.5° | 7720.2 | 7615.9 | 7714.4 | 7957.8 | 8143.3 | 8578.0 | 8943.1 | 9111.2 | 8473.7 | 8340.4 | 7175.4 |
| 20° | 7876.7 | 7847.7 | 7830.3 | 7952.0 | 8282.4 | 8862.0 | 9586.5 | 9893.7 | 9273.5 | 9134.4 | 7731.8 |
| 22.5° | 8352.0 | 8357.7 | 8346.2 | 8166.5 | 8404.1 | 9059.1 | 10148.7 | 10908.0 | 10229.8 | 10113.9 | 8363.5 |
| 25° | 8977.9 | 8902.6 | 8844.6 | 8699.7 | 8670.7 | 9238.7 | 10716.7 | 12148.3 | 11377.4 | 11296.3 | 9047.5 |
| 27.5° | 9638.6 | 9638.6 | 9464.8 | 9331.5 | 9146.0 | 9685.0 | 11238.3 | 13353.8 | 12762.7 | 12652.5 | 9644.4 |
| 30° | 10357.3 | 10397.9 | 10374.7 | 10090.7 | 9974.8 | 10171.9 | 11771.6 | 14895.6 | 14350.7 | 14211.6 | 10629.8 |
| 32.5° | 11418.0 | 11331.1 | 11429.6 | 11192.0 | 10850.0 | 11023.9 | 12612.0 | 16275.0 | 16414.1 | 16217.0 | 11922.3 |
| 35° | 12820.6 | 12768.5 | 12704.7 | 12316.4 | 11910.7 | 12049.8 | 13800.1 | 17973.2 | 19004.9 | 18906.4 | 13226.3 |
| 37.5° | 14078.3 | 14049.4 | 13997.2 | 13730.6 | 13261.1 | 13429.2 | 15150.6 | 19741.0 | 21531.9 | 21207.3 | 15069.4 |
| 40° | 15399.8 | 15556.3 | 15388.2 | 15150.6 | 14721.7 | 15092.6 | 16738.7 | 20790.0 | 23659.0 | 23264.9 | 16477.9 |
| 42.5° | 17190.8 | 17069.0 | 17144.4 | 16709.7 | 16477.9 | 16883.6 | 18332.6 | 21839.1 | 25310.9 | 24841.4 | 17973.2 |
| 45° | 19097.6 | 19103.4 | 18900.6 | 18761.5 | 18158.7 | 18599.2 | 19312.1 | 22418.7 | 26626.6 | 26261.4 | 19103.4 |
| 47.5° | 20320.6 | 20314.8 | 20535.0 | 20755.3 | 20135.1 | 19700.4 | 19978.6 | 22969.3 | 27304.7 | 27136.6 | 19514.9 |
| 50° | 20129.3 | 20187.3 | 20471.3 | 21294.3 | 21618.9 | 21033.5 | 20604.6 | 22807.0 | 27611.9 | 27594.5 | 19868.5 |
| 52.5° | 17509.5 | 17700.8 | 18176.1 | 19364.2 | 20998.7 | 21723.2 | 21259.5 | 23108.4 | 27762.6 | 27791.5 | 20395.9 |
| 55° | 13330.7 | 13435.0 | 14339.2 | 15782.3 | 17590.7 | 20071.3 | 20998.7 | 23346.0 | 27878.5 | 27930.6 | 21033.5 |
| 56° | 11562.9 | 11284.7 | 12588.8 | 13614.7 | 15776.6 | 18489.1 | 20338.0 | 23160.6 | 27808.9 | 28208.8 | 21352.2 |
| 57.5° | 8728.7 | 8543.2 | 9598.1 | 10879.0 | 12959.7 | 15822.9 | 18286.2 | 22285.4 | 27339.5 | 27333.7 | 20894.4 |
| 60° | 5309.1 | 5123.6 | 5935.0 | 6688.5 | 7853.5 | 9743.0 | 12356.9 | 17747.2 | 23114.2 | 23601.1 | 16918.4 |
| 62.5° | 3158.8 | 3274.7 | 4074.5 | 4532.4 | 4909.2 | 5106.2 | 6392.9 | 10548.6 | 15423.0 | 15770.8 | 10496.4 |
| 65° | 2103.9 | 2144.5 | 2747.3 | 3500.7 | 3668.8 | 2921.2 | 2602.4 | 4271.6 | 6688.5 | 6474.1 | 4329.6 |
| 67.5° | 1298.3 | 1391.0 | 1843.1 | 2631.4 | 2915.4 | 2132.9 | 1234.5 | 1593.9 | 1843.1 | 1843.1 | 1251.9 |
| 70° | 788.2 | 834.6 | 1228.7 | 1790.9 | 1999.6 | 1373.6 | 898.4 | 898.4 | 886.8 | 869.4 | 747.7 |
| 72.5° | 376.7 | 405.7 | 626.0 | 921.6 | 938.9 | 724.5 | 695.5 | 759.3 | 741.9 | 736.1 | 620.2 |
| 75° | 162.3 | 173.9 | 220.2 | 289.8 | 330.4 | 307.2 | 423.1 | 544.8 | 562.2 | 544.8 | 446.3 |
| 77.5° | 52.2 | 58.0 | 81.1 | 104.3 | 110.1 | 133.3 | 179.7 | 226.0 | 260.8 | 243.4 | 220.2 |
| 80° | 5.8 | 11.6 | 23.2 | 52.2 | 81.1 | 104.3 | 133.3 | 150.7 | 168.1 | 168.1 | 156.5 |
| 82.5° | 5.8 | 5.8 | 23.2 | 46.4 | 75.3 | 98.5 | 127.5 | 144.9 | 168.1 | 173.9 | 162.3 |
| 85° | 0.0 | 5.8 | 17.4 | 40.6 | 63.8 | 63.8 | 58.0 | 58.0 | 40.6 | 40.6 | 40.6 |
| 87.5° | 0.0 | 0.0 | 5.8 | 5.8 | 5.8 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 |
| 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° | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 | 5233.7 |
| 2.5° | 5280.1 | 5268.5 | 5112.0 | 5013.5 | 4961.3 | 4857.0 | 4793.2 | 4746.9 | 4712.1 | 4671.5 | 4677.3 |
| 5° | 5349.7 | 5309.1 | 5048.3 | 4868.6 | 4654.1 | 4538.2 | 4439.7 | 4358.5 | 4306.4 | 4294.8 | 4271.6 |
| 7.5° | 5546.7 | 5332.3 | 4938.1 | 4613.6 | 4341.2 | 4225.2 | 4138.3 | 4086.1 | 4109.3 | 4057.2 | 4097.7 |
| 10° | 5697.4 | 5378.6 | 4804.8 | 4335.4 | 4063.0 | 3976.0 | 3929.6 | 3970.2 | 4028.2 | 4005.0 | 3976.0 |
| 12.5° | 5882.9 | 5425.0 | 4590.4 | 4068.8 | 3813.7 | 3750.0 | 3831.1 | 3906.5 | 4022.4 | 4068.8 | 4010.8 |
| 15° | 6091.5 | 5477.2 | 4318.0 | 3761.6 | 3599.3 | 3651.4 | 3790.5 | 3923.9 | 4039.8 | 4097.7 | 4132.5 |
| 17.5° | 6346.6 | 5459.8 | 4051.4 | 3518.1 | 3396.4 | 3547.1 | 3715.2 | 3836.9 | 4010.8 | 4097.7 | 4074.5 |
| 20° | 6584.2 | 5401.8 | 3755.8 | 3274.7 | 3280.5 | 3419.6 | 3558.7 | 3755.8 | 3848.5 | 3964.4 | 3923.9 |
| 22.5° | 6810.2 | 5297.5 | 3448.6 | 3106.6 | 3106.6 | 3321.1 | 3390.6 | 3518.1 | 3599.3 | 3657.2 | 3651.4 |
| 25° | 7129.0 | 5100.4 | 3193.6 | 2944.3 | 3013.9 | 3153.0 | 3211.0 | 3251.5 | 3216.7 | 3263.1 | 3268.9 |
| 27.5° | 7355.0 | 4897.6 | 2984.9 | 2799.4 | 2927.0 | 3031.3 | 3013.9 | 2990.7 | 2909.6 | 2845.8 | 2886.4 |
| 30° | 7598.5 | 4659.9 | 2805.2 | 2700.9 | 2770.5 | 2863.2 | 2793.6 | 2724.1 | 2596.6 | 2492.3 | 2498.1 |
| 32.5° | 7946.2 | 4549.8 | 2648.7 | 2585.0 | 2677.7 | 2689.3 | 2614.0 | 2509.6 | 2382.1 | 2283.6 | 2277.8 |
| 35° | 8595.4 | 4480.3 | 2515.4 | 2509.6 | 2527.0 | 2532.8 | 2457.5 | 2330.0 | 2277.8 | 2196.7 | 2225.6 |
| 37.5° | 9244.5 | 4445.5 | 2422.7 | 2399.5 | 2393.7 | 2399.5 | 2312.6 | 2190.9 | 2289.4 | 2283.6 | 2295.2 |
| 40° | 10073.3 | 4602.0 | 2289.4 | 2260.4 | 2266.2 | 2266.2 | 2156.1 | 2121.3 | 2295.2 | 2312.6 | 2318.4 |
| 42.5° | 10913.8 | 4799.0 | 2202.5 | 2109.7 | 2132.9 | 2132.9 | 2074.9 | 2034.4 | 2156.1 | 2040.2 | 2022.8 |
| 45° | 11644.0 | 5088.8 | 2109.7 | 1959.0 | 2017.0 | 2046.0 | 2028.6 | 1959.0 | 1883.7 | 1686.6 | 1686.6 |
| 47.5° | 11881.7 | 5343.9 | 1999.6 | 1814.1 | 1860.5 | 1988.0 | 1935.8 | 1790.9 | 1657.6 | 1495.4 | 1483.8 |
| 50° | 12299.0 | 5622.1 | 1912.7 | 1646.0 | 1744.6 | 1901.1 | 1848.9 | 1704.0 | 1553.3 | 1437.4 | 1443.2 |
| 52.5° | 12727.9 | 5940.8 | 1750.4 | 1449.0 | 1570.7 | 1831.5 | 1831.5 | 1669.2 | 1437.4 | 1356.3 | 1344.7 |
| 55° | 13371.2 | 5929.2 | 1460.6 | 1188.2 | 1402.6 | 1727.2 | 1756.2 | 1495.4 | 1286.7 | 1222.9 | 1222.9 |
| 56° | 13464.0 | 5662.6 | 1315.7 | 1112.8 | 1327.3 | 1698.2 | 1704.0 | 1449.0 | 1228.7 | 1159.2 | 1159.2 |
| 57.5° | 12768.5 | 5112.0 | 1153.4 | 1020.1 | 1234.5 | 1646.0 | 1651.8 | 1408.4 | 1182.4 | 1083.8 | 1072.2 |
| 60° | 9824.1 | 3460.2 | 962.1 | 910.0 | 1118.6 | 1483.8 | 1512.7 | 1280.9 | 1037.5 | 962.1 | 956.3 |
| 62.5° | 5546.7 | 1918.5 | 846.2 | 823.0 | 962.1 | 1263.5 | 1350.5 | 1118.6 | 881.0 | 840.4 | 852.0 |
| 65° | 2532.8 | 1054.9 | 712.9 | 666.5 | 776.7 | 973.7 | 1089.6 | 921.6 | 724.5 | 678.1 | 678.1 |
| 67.5° | 927.4 | 718.7 | 608.6 | 527.4 | 544.8 | 631.8 | 707.1 | 597.0 | 481.1 | 411.5 | 428.9 |
| 70° | 660.7 | 602.8 | 533.2 | 457.9 | 423.1 | 411.5 | 405.7 | 336.2 | 237.6 | 185.5 | 197.1 |
| 72.5° | 533.2 | 498.5 | 446.3 | 388.3 | 330.4 | 278.2 | 237.6 | 173.9 | 110.1 | 75.3 | 69.6 |
| 75° | 382.5 | 365.1 | 324.6 | 278.2 | 231.8 | 197.1 | 162.3 | 110.1 | 58.0 | 29.0 | 29.0 |
| 77.5° | 197.1 | 197.1 | 191.3 | 173.9 | 144.9 | 115.9 | 92.7 | 63.8 | 34.8 | 11.6 | 11.6 |
| 80° | 150.7 | 162.3 | 168.1 | 150.7 | 133.3 | 104.3 | 75.3 | 46.4 | 23.2 | 5.8 | 5.8 |
| 82.5° | 144.9 | 168.1 | 179.7 | 156.5 | 133.3 | 98.5 | 75.3 | 46.4 | 23.2 | 5.8 | 5.8 |
| 85° | 34.8 | 34.8 | 52.2 | 58.0 | 75.3 | 81.1 | 63.8 | 40.6 | 17.4 | 5.8 | 5.8 |
| 87.5° | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 5.8 | 5.8 | 5.8 | 5.8 | 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)