

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: P532379

Luminaire Tested: **GALN-SA7D-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27406.1 lumens
Efficiency: N/A
Efficacy: 63.3 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

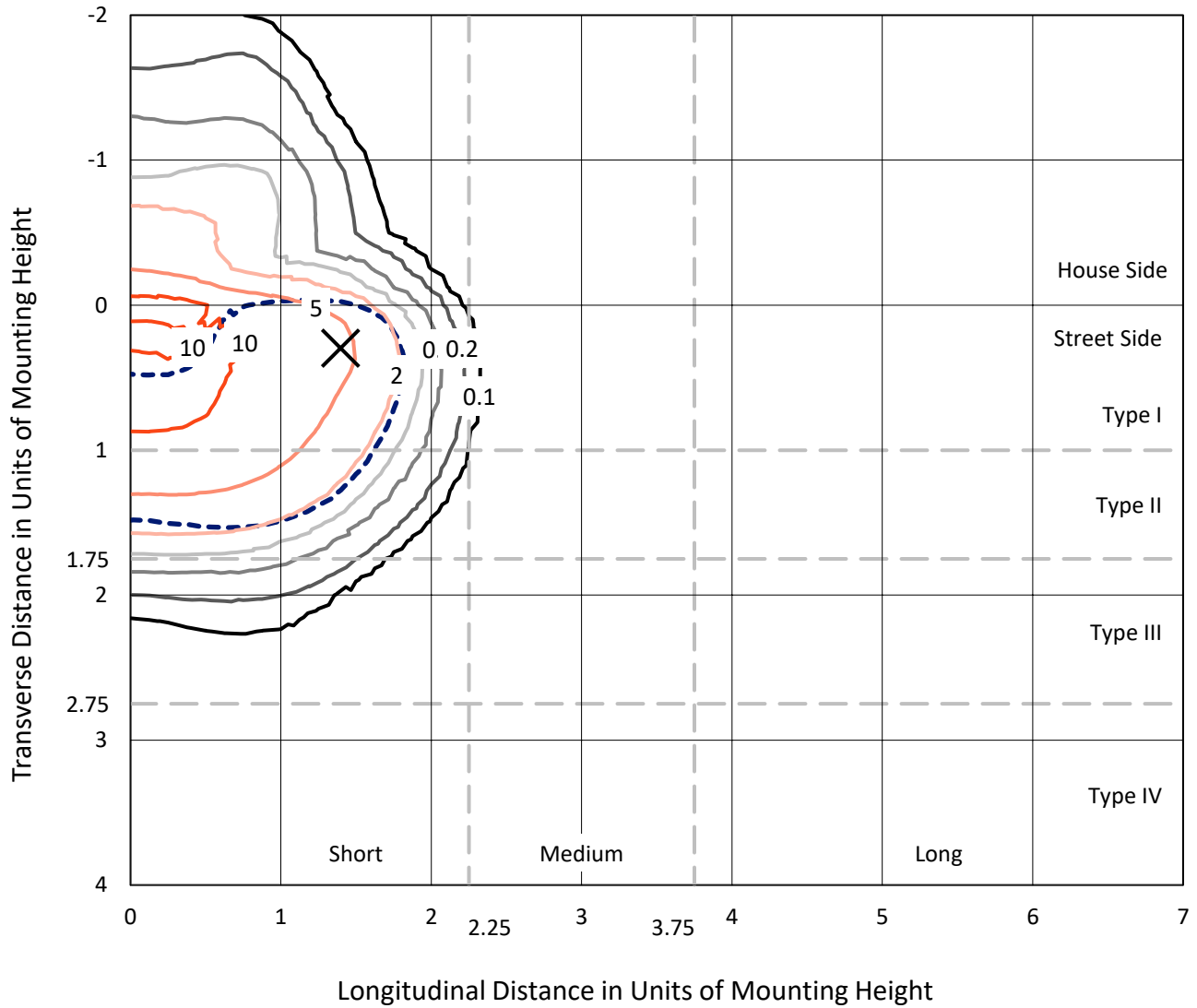
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

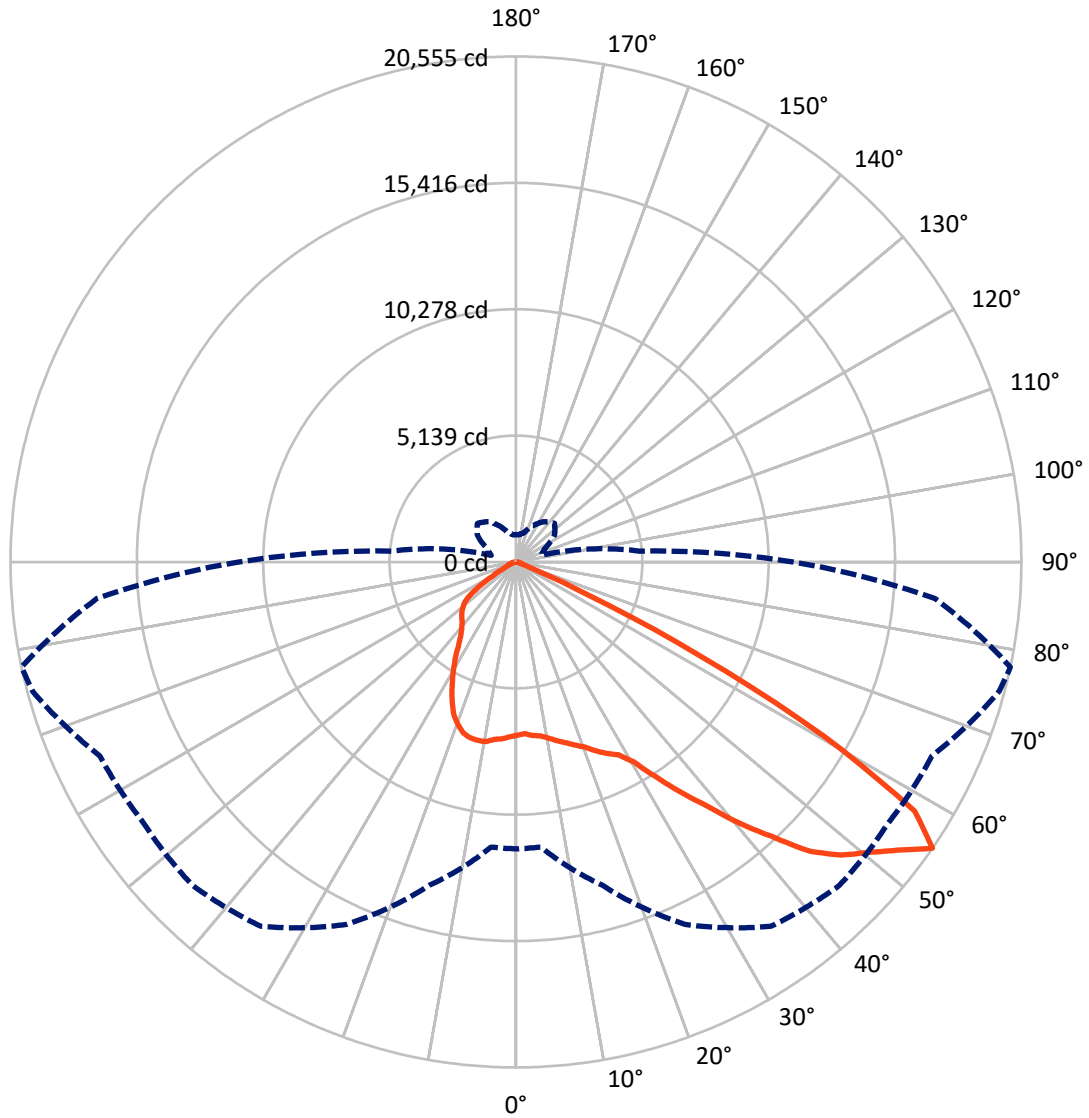
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5090.4 | 0.0 | 5090.4 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 22315.6 | 0.0 | 22315.6 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 27406.1 | 0.0 | 27406.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 628.3 | 2.3 |
| 10°-20° | 1662.8 | 6.1 |
| 20°-30° | 2914.6 | 10.6 |
| 30°-40° | 4805.7 | 17.5 |
| 40°-50° | 6992.9 | 25.5 |
| 50°-60° | 7923.7 | 28.9 |
| 60°-70° | 2265.5 | 8.3 |
| 70°-80° | 175.9 | 0.6 |
| 80°-90° | 36.6 | 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° | 27406.1 | 100.0 |
| 0°-180° | 27406.1 | 100.0 |

Coefficient of Utilization



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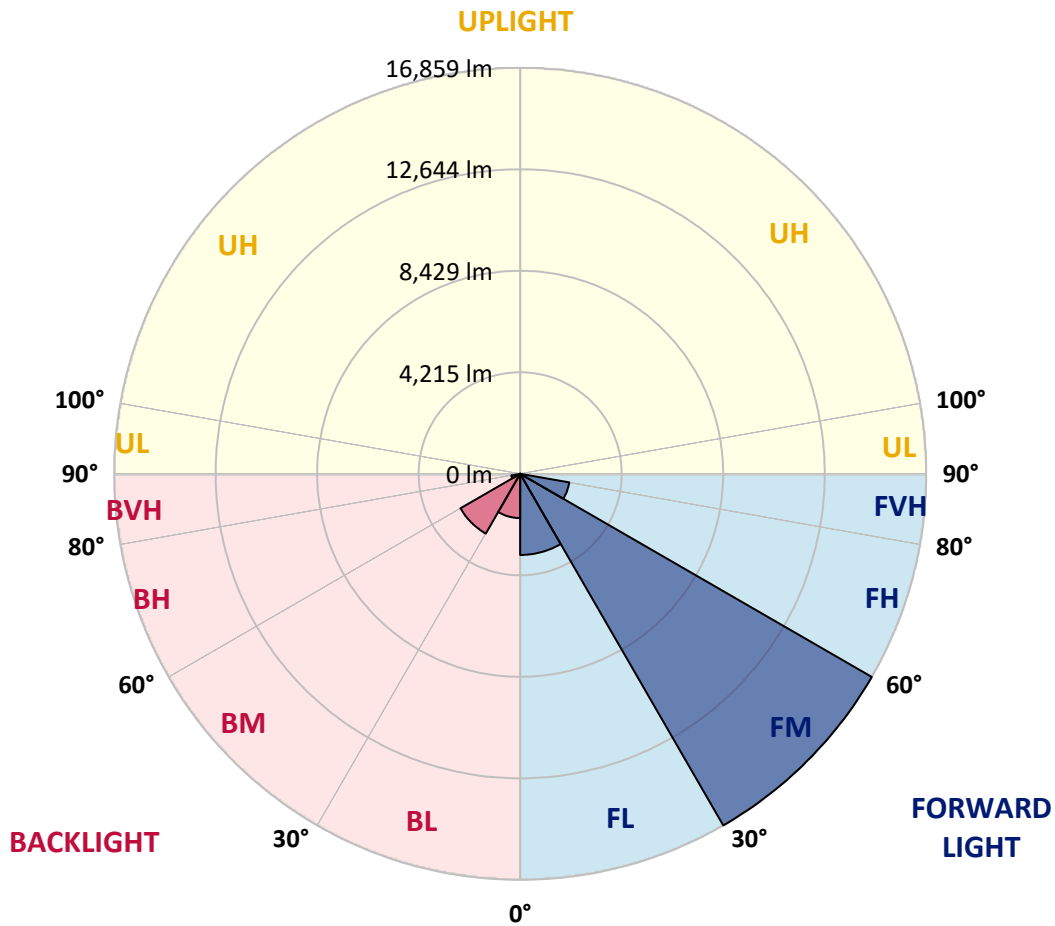
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3369.0 | 12.3 | | | |
| FM (30°-60°) | 16859.0 | 61.5 | | | |
| FH (60°-80°) | 2069.9 | 7.6 | | | G2/5000 |
| FVH (80°-90°) | 17.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1836.6 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 2863.4 | 10.4 | B3/5000 | | |
| BH (60°-80°) | 371.6 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 18.8 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 |
| 2.5° | 6624.7 | 6688.4 | 6698.2 | 6776.6 | 6771.7 | 6904.0 | 6943.2 | 6948.1 | 7036.3 | 6992.2 | 7104.9 |
| 5° | 6438.5 | 6404.2 | 6389.5 | 6526.7 | 6565.9 | 6683.5 | 6781.5 | 6840.3 | 7021.6 | 7085.3 | 7202.9 |
| 7.5° | 6271.9 | 6271.9 | 6281.7 | 6404.2 | 6389.5 | 6541.4 | 6644.3 | 6825.6 | 7090.2 | 7144.1 | 7286.2 |
| 10° | 6110.2 | 6051.4 | 6124.9 | 6252.3 | 6360.1 | 6428.7 | 6644.3 | 6815.8 | 7124.5 | 7281.3 | 7477.3 |
| 12.5° | 6026.9 | 6056.3 | 6066.1 | 6159.2 | 6276.8 | 6482.6 | 6600.2 | 6884.4 | 7369.5 | 7462.6 | 7673.3 |
| 15° | 6551.2 | 6492.4 | 6350.3 | 6267.0 | 6365.0 | 6463.0 | 6757.0 | 7046.1 | 7496.9 | 7629.2 | 7864.4 |
| 17.5° | 7158.8 | 7109.8 | 6992.2 | 6766.8 | 6546.3 | 6727.6 | 6957.9 | 7222.5 | 7634.1 | 7830.1 | 8178.0 |
| 20° | 7952.6 | 7874.2 | 7756.6 | 7315.6 | 7124.5 | 6928.5 | 7173.5 | 7487.1 | 7859.5 | 8035.9 | 8393.6 |
| 22.5° | 8898.3 | 8898.3 | 8633.7 | 8099.6 | 7702.7 | 7516.5 | 7619.4 | 7800.7 | 8109.4 | 8349.5 | 8702.3 |
| 25° | 9883.2 | 9853.8 | 9613.7 | 9060.0 | 8388.7 | 8168.2 | 8285.8 | 8413.2 | 8496.5 | 8628.8 | 8864.0 |
| 27.5° | 11010.1 | 10838.6 | 10534.8 | 9922.4 | 9329.5 | 8903.2 | 9030.6 | 8917.9 | 8815.0 | 8883.6 | 9221.7 |
| 30° | 11774.5 | 11882.3 | 11495.2 | 10907.2 | 10348.7 | 9873.4 | 9897.9 | 9799.9 | 9329.5 | 9427.5 | 9628.4 |
| 32.5° | 12568.3 | 12636.9 | 12421.3 | 12097.9 | 11539.3 | 10985.6 | 10784.7 | 10701.4 | 10348.7 | 10392.8 | 10196.8 |
| 35° | 13229.8 | 13362.1 | 13171.0 | 13028.9 | 12867.2 | 12421.3 | 11867.6 | 12137.1 | 11568.7 | 11460.9 | 10951.3 |
| 37.5° | 13837.4 | 13798.2 | 14023.6 | 13876.6 | 13842.3 | 13528.7 | 12921.1 | 12975.0 | 12592.8 | 12568.3 | 11980.3 |
| 40° | 14381.3 | 14391.1 | 14699.8 | 14768.4 | 14631.2 | 14072.6 | 13190.6 | 13616.9 | 13925.6 | 13955.0 | 13200.4 |
| 42.5° | 14832.1 | 14964.4 | 15229.0 | 15782.7 | 15576.9 | 14645.9 | 13469.9 | 13935.4 | 15082.0 | 15263.3 | 14356.8 |
| 45° | 15224.1 | 15493.6 | 15821.9 | 16316.8 | 16199.2 | 15459.3 | 14165.7 | 14592.0 | 16316.8 | 16792.1 | 15444.6 |
| 47.5° | 15248.6 | 15601.4 | 15959.1 | 16694.1 | 16841.1 | 15895.4 | 14886.0 | 15630.8 | 17296.8 | 17811.2 | 16238.4 |
| 50° | 15150.6 | 15336.8 | 16052.2 | 16850.9 | 17184.1 | 16605.9 | 15895.4 | 16503.0 | 18247.3 | 18570.7 | 16640.2 |
| 52.5° | 13989.3 | 14131.4 | 15567.1 | 16997.9 | 17801.4 | 17409.4 | 17233.1 | 17718.1 | 19217.5 | 19457.6 | 17017.5 |
| 55° | 11661.8 | 11637.3 | 13612.0 | 16258.0 | 18085.6 | 18600.1 | 18492.3 | 18663.8 | 20339.6 | 20555.2 | 17110.6 |
| 57.5° | 7977.1 | 8423.0 | 10128.2 | 13538.5 | 16346.2 | 18320.8 | 18433.5 | 18149.3 | 19031.3 | 19114.6 | 14915.4 |
| 60° | 4302.1 | 4488.3 | 5860.3 | 9035.5 | 12445.8 | 14930.1 | 15224.1 | 14709.6 | 14641.0 | 14405.8 | 10647.5 |
| 62.5° | 1710.1 | 1803.2 | 2582.3 | 4473.6 | 6781.5 | 9074.7 | 9706.8 | 9496.1 | 9045.3 | 8427.9 | 5512.4 |
| 65° | 813.4 | 872.2 | 1283.8 | 2092.3 | 3008.6 | 3782.7 | 4414.8 | 4610.8 | 3400.6 | 3062.5 | 1817.9 |
| 67.5° | 553.7 | 597.8 | 935.9 | 1195.6 | 1073.1 | 1122.1 | 1460.2 | 1357.3 | 798.7 | 681.1 | 504.7 |
| 70° | 421.4 | 450.8 | 749.7 | 813.4 | 480.2 | 338.1 | 377.3 | 352.8 | 328.3 | 333.2 | 328.3 |
| 72.5° | 298.9 | 323.4 | 548.8 | 480.2 | 210.7 | 156.8 | 200.9 | 240.1 | 240.1 | 240.1 | 235.2 |
| 75° | 181.3 | 205.8 | 318.5 | 186.2 | 83.3 | 83.3 | 127.4 | 161.7 | 171.5 | 176.4 | 166.6 |
| 77.5° | 93.1 | 117.6 | 107.8 | 53.9 | 53.9 | 63.7 | 93.1 | 112.7 | 122.5 | 122.5 | 117.6 |
| 80° | 19.6 | 19.6 | 19.6 | 29.4 | 53.9 | 68.6 | 93.1 | 102.9 | 117.6 | 117.6 | 107.8 |
| 82.5° | 0.0 | 4.9 | 14.7 | 29.4 | 49.0 | 63.7 | 88.2 | 102.9 | 117.6 | 122.5 | 112.7 |
| 85° | 0.0 | 4.9 | 9.8 | 19.6 | 34.3 | 39.2 | 34.3 | 29.4 | 29.4 | 29.4 | 29.4 |
| 87.5° | 0.0 | 0.0 | 4.9 | 4.9 | 4.9 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 |
| 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° | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 | 7046.1 |
| 2.5° | 7114.7 | 7129.4 | 7104.9 | 7100.0 | 7080.4 | 7139.2 | 6997.1 | 6962.8 | 7051.0 | 6967.7 | 6987.3 |
| 5° | 7207.8 | 7242.1 | 7198.0 | 7124.5 | 7016.7 | 6850.1 | 6708.0 | 6521.8 | 6433.6 | 6369.9 | 6360.1 |
| 7.5° | 7276.4 | 7300.9 | 7256.8 | 7021.6 | 6698.2 | 6276.8 | 5963.2 | 5732.9 | 5551.6 | 5497.7 | 5409.5 |
| 10° | 7555.7 | 7560.6 | 7340.1 | 6820.7 | 6188.6 | 5634.9 | 5154.7 | 4801.9 | 4620.6 | 4507.9 | 4458.9 |
| 12.5° | 7741.9 | 7732.1 | 7286.2 | 6423.8 | 5581.0 | 4846.0 | 4297.2 | 3870.9 | 3704.3 | 3650.4 | 3616.1 |
| 15° | 7977.1 | 7923.2 | 7158.8 | 6017.1 | 4797.0 | 4003.2 | 3508.3 | 3214.4 | 3199.7 | 3165.4 | 3199.7 |
| 17.5° | 8163.3 | 8011.4 | 6972.6 | 5277.2 | 4047.3 | 3297.7 | 2974.3 | 2993.9 | 3033.1 | 3067.4 | 3072.3 |
| 20° | 8467.1 | 8153.5 | 6546.3 | 4630.4 | 3351.6 | 2827.3 | 2822.4 | 2910.6 | 3008.6 | 3047.8 | 3087.0 |
| 22.5° | 8697.4 | 8212.3 | 6090.6 | 3939.5 | 2783.2 | 2636.2 | 2719.5 | 2851.8 | 2925.3 | 2964.5 | 3023.3 |
| 25° | 8780.7 | 8050.6 | 5483.0 | 3248.7 | 2508.8 | 2548.0 | 2675.4 | 2763.6 | 2856.7 | 2900.8 | 2876.3 |
| 27.5° | 8864.0 | 7967.3 | 4757.8 | 2675.4 | 2361.8 | 2489.2 | 2597.0 | 2685.2 | 2714.6 | 2773.4 | 2812.6 |
| 30° | 9064.9 | 7678.2 | 4106.1 | 2312.8 | 2288.3 | 2450.0 | 2528.4 | 2557.8 | 2636.2 | 2670.5 | 2670.5 |
| 32.5° | 9226.6 | 7565.5 | 3415.3 | 2141.3 | 2278.5 | 2469.6 | 2479.4 | 2479.4 | 2489.2 | 2464.7 | 2454.9 |
| 35° | 9559.8 | 7178.4 | 2797.9 | 2038.4 | 2273.6 | 2474.5 | 2499.0 | 2415.7 | 2190.3 | 2102.1 | 2077.6 |
| 37.5° | 9971.4 | 6928.5 | 2342.2 | 2013.9 | 2307.9 | 2533.3 | 2572.5 | 2258.9 | 1964.9 | 1822.8 | 1798.3 |
| 40° | 10471.1 | 6752.1 | 2043.3 | 2004.1 | 2386.3 | 2670.5 | 2552.9 | 2136.4 | 1754.2 | 1548.4 | 1538.6 |
| 42.5° | 11054.2 | 6590.4 | 1842.4 | 1999.2 | 2484.3 | 2812.6 | 2533.3 | 2033.5 | 1538.6 | 1401.4 | 1421.0 |
| 45° | 11519.7 | 6502.2 | 1705.2 | 1964.9 | 2518.6 | 2895.9 | 2548.0 | 1852.2 | 1450.4 | 1362.2 | 1372.0 |
| 47.5° | 11882.3 | 6316.0 | 1592.5 | 1906.1 | 2513.7 | 2925.3 | 2415.7 | 1778.7 | 1406.3 | 1430.8 | 1455.3 |
| 50° | 11892.1 | 6066.1 | 1450.4 | 1778.7 | 2440.2 | 2871.4 | 2263.8 | 1710.1 | 1396.5 | 1499.4 | 1548.4 |
| 52.5° | 11759.8 | 5713.3 | 1298.5 | 1597.4 | 2268.7 | 2685.2 | 2126.6 | 1680.7 | 1352.4 | 1342.6 | 1401.4 |
| 55° | 11289.4 | 5051.8 | 1043.7 | 1293.6 | 1915.9 | 2214.8 | 2004.1 | 1626.8 | 1220.1 | 1107.4 | 1117.2 |
| 57.5° | 9123.7 | 3621.0 | 769.3 | 926.1 | 1357.3 | 1621.9 | 1808.1 | 1602.3 | 1097.6 | 940.8 | 945.7 |
| 60° | 5649.6 | 2053.1 | 563.5 | 632.1 | 837.9 | 984.9 | 1465.1 | 1489.6 | 980.0 | 793.8 | 784.0 |
| 62.5° | 2900.8 | 1014.3 | 436.1 | 445.9 | 514.5 | 578.2 | 1004.5 | 1249.5 | 886.9 | 754.6 | 754.6 |
| 65° | 970.2 | 499.8 | 382.2 | 343.0 | 343.0 | 357.7 | 607.6 | 867.3 | 749.7 | 632.1 | 632.1 |
| 67.5° | 416.5 | 372.4 | 333.2 | 298.9 | 274.4 | 259.7 | 343.0 | 504.7 | 558.6 | 480.2 | 460.6 |
| 70° | 323.4 | 313.6 | 289.1 | 249.9 | 215.6 | 196.0 | 200.9 | 259.7 | 318.5 | 308.7 | 298.9 |
| 72.5° | 240.1 | 240.1 | 230.3 | 196.0 | 166.6 | 142.1 | 132.3 | 137.2 | 151.9 | 156.8 | 161.7 |
| 75° | 166.6 | 171.5 | 171.5 | 151.9 | 122.5 | 102.9 | 88.2 | 73.5 | 58.8 | 49.0 | 44.1 |
| 77.5° | 112.7 | 117.6 | 127.4 | 112.7 | 93.1 | 68.6 | 53.9 | 39.2 | 24.5 | 9.8 | 9.8 |
| 80° | 98.0 | 112.7 | 122.5 | 112.7 | 98.0 | 73.5 | 53.9 | 29.4 | 14.7 | 0.0 | 0.0 |
| 82.5° | 102.9 | 112.7 | 127.4 | 107.8 | 93.1 | 68.6 | 53.9 | 34.3 | 14.7 | 4.9 | 0.0 |
| 85° | 24.5 | 24.5 | 29.4 | 34.3 | 44.1 | 49.0 | 39.2 | 24.5 | 14.7 | 4.9 | 0.0 |
| 87.5° | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 4.9 | 4.9 | 4.9 | 4.9 | 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)