

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: P533133

Luminaire Tested: **GALN-SA8C-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533133
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-SA8C-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA 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: 32163 lumens
Efficiency: N/A
Efficacy: 75.0 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

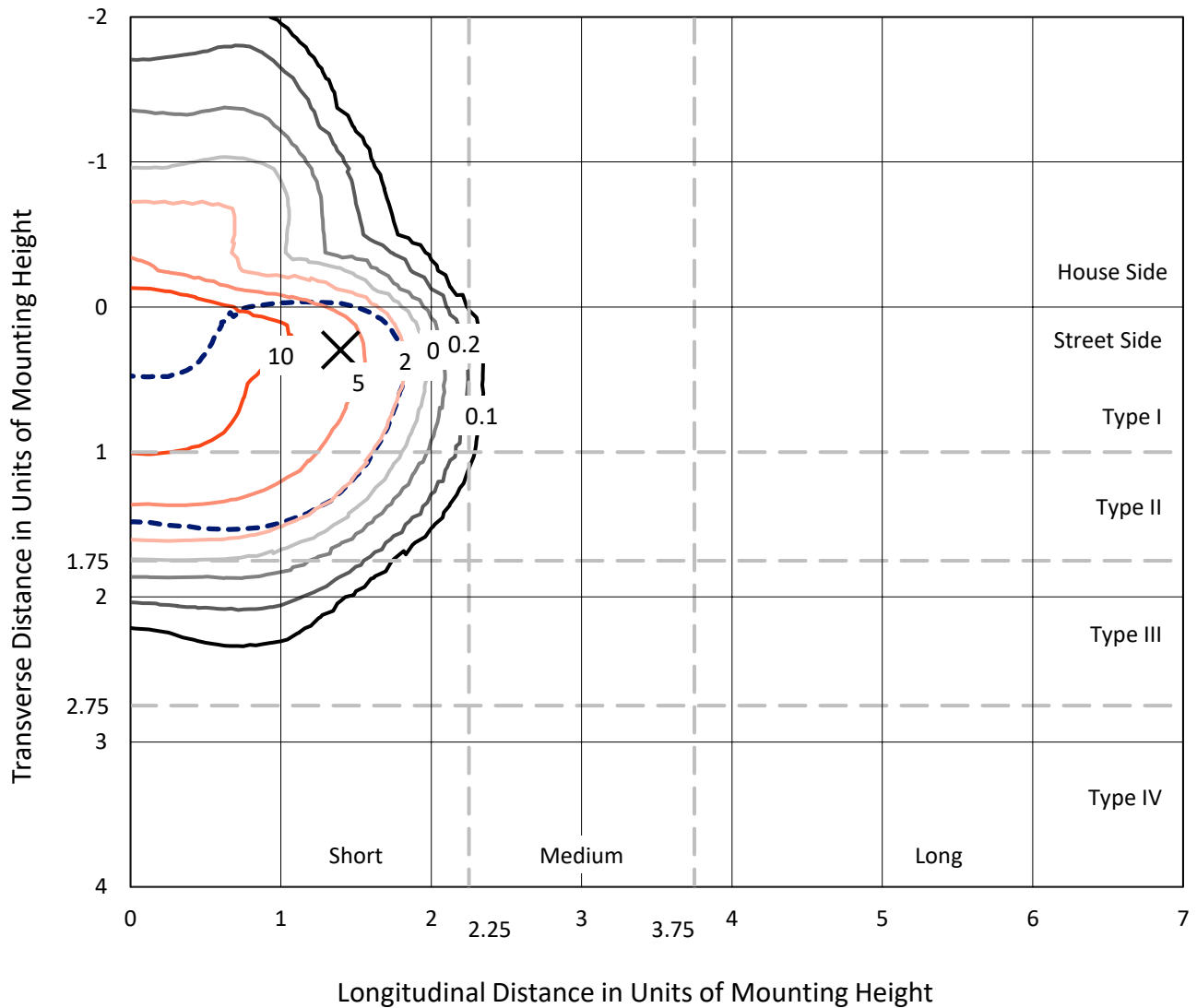
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

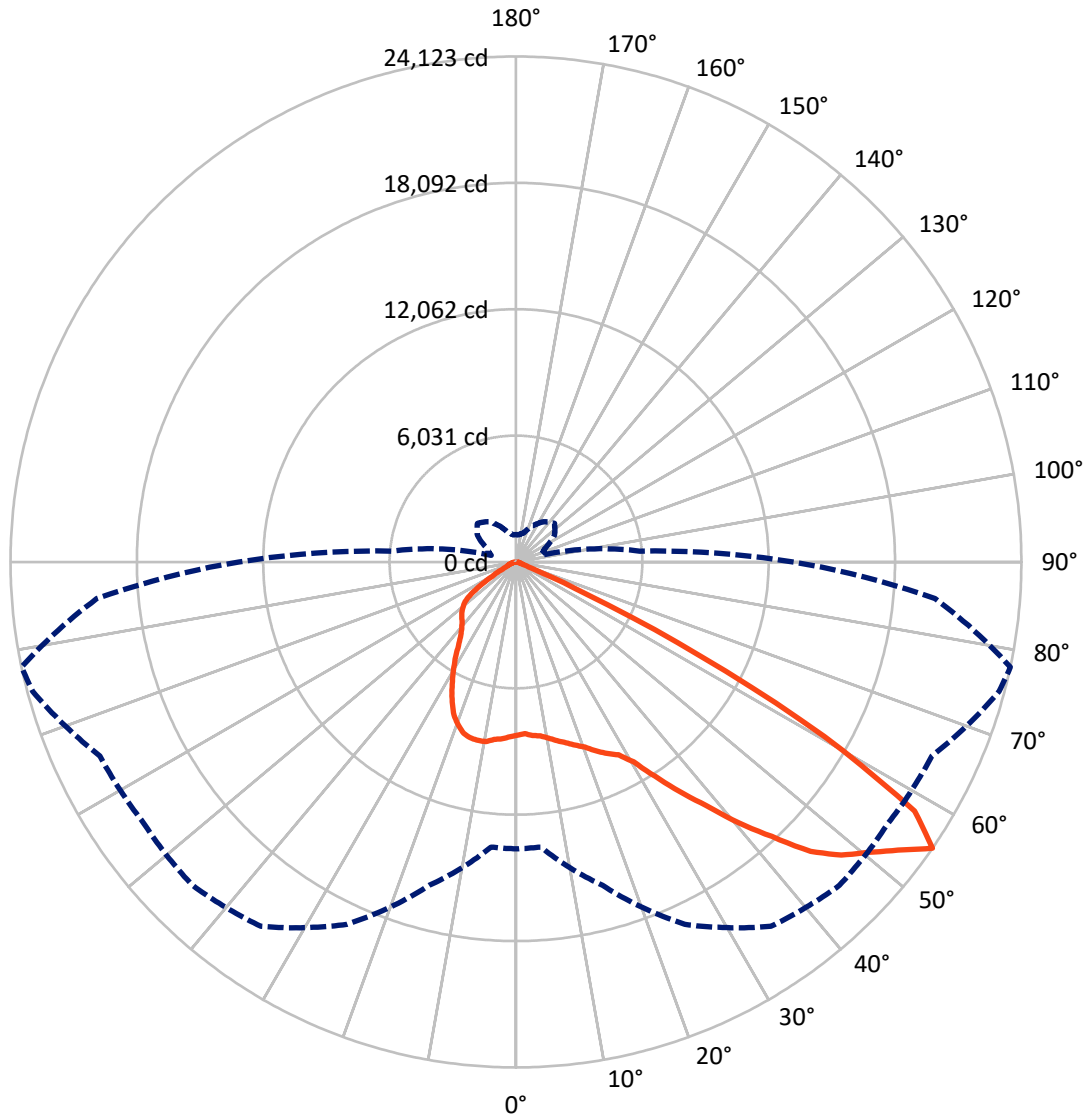
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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 | 5973.9 | 0.0 | 5973.9 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 26189.1 | 0.0 | 26189.1 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 32163.0 | 0.0 | 32163.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 737.3 | 2.3 |
| 10°-20° | 1951.4 | 6.1 |
| 20°-30° | 3420.4 | 10.6 |
| 30°-40° | 5639.9 | 17.5 |
| 40°-50° | 8206.7 | 25.5 |
| 50°-60° | 9299.1 | 28.9 |
| 60°-70° | 2658.8 | 8.3 |
| 70°-80° | 206.5 | 0.6 |
| 80°-90° | 43.0 | 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° | 32163.0 | 100.0 |
| 0°-180° | 32163.0 | 100.0 |

Coefficient of Utilization



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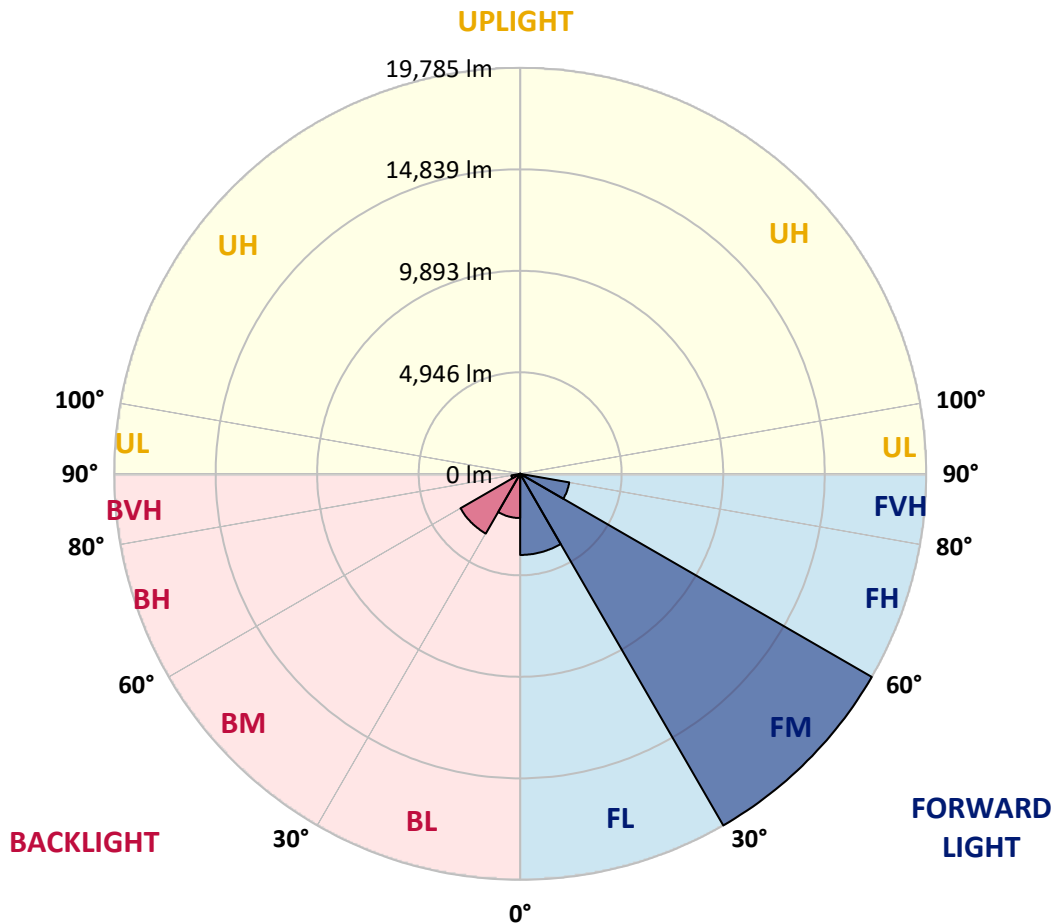
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3953.8 | 12.3 | | | |
| FM (30°-60°) | 19785.3 | 61.5 | | | |
| FH (60°-80°) | 2429.2 | 7.6 | | | G2/5000 |
| FVH (80°-90°) | 20.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2155.4 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 3360.4 | 10.4 | B3/5000 | | |
| BH (60°-80°) | 436.1 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 22.0 | 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° | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 |
| 2.5° | 7774.6 | 7849.3 | 7860.8 | 7952.9 | 7947.1 | 8102.4 | 8148.4 | 8154.1 | 8257.6 | 8205.9 | 8338.1 |
| 5° | 7556.1 | 7515.8 | 7498.6 | 7659.6 | 7705.6 | 7843.6 | 7958.6 | 8027.6 | 8240.4 | 8315.1 | 8453.1 |
| 7.5° | 7360.6 | 7360.6 | 7372.1 | 7515.8 | 7498.6 | 7676.8 | 7797.6 | 8010.4 | 8320.9 | 8384.1 | 8550.9 |
| 10° | 7170.8 | 7101.8 | 7188.0 | 7337.6 | 7464.1 | 7544.6 | 7797.6 | 7998.9 | 8361.1 | 8545.1 | 8775.2 |
| 12.5° | 7073.0 | 7107.5 | 7119.0 | 7228.3 | 7366.3 | 7607.8 | 7745.8 | 8079.4 | 8648.7 | 8757.9 | 9005.2 |
| 15° | 7688.3 | 7619.3 | 7452.6 | 7354.8 | 7469.8 | 7584.8 | 7929.9 | 8269.1 | 8798.2 | 8953.4 | 9229.4 |
| 17.5° | 8401.4 | 8343.9 | 8205.9 | 7941.4 | 7682.6 | 7895.3 | 8165.6 | 8476.1 | 8959.2 | 9189.2 | 9597.5 |
| 20° | 9333.0 | 9240.9 | 9102.9 | 8585.4 | 8361.1 | 8131.1 | 8418.6 | 8786.7 | 9223.7 | 9430.7 | 9850.5 |
| 22.5° | 10442.8 | 10442.8 | 10132.3 | 9505.5 | 9039.7 | 8821.2 | 8941.9 | 9154.7 | 9517.0 | 9798.7 | 10212.8 |
| 25° | 11598.6 | 11564.1 | 11282.4 | 10632.6 | 9844.7 | 9586.0 | 9724.0 | 9873.5 | 9971.3 | 10126.5 | 10402.5 |
| 27.5° | 12921.2 | 12720.0 | 12363.4 | 11644.6 | 10948.8 | 10448.5 | 10598.1 | 10465.8 | 10345.0 | 10425.5 | 10822.3 |
| 30° | 13818.3 | 13944.8 | 13490.5 | 12800.5 | 12144.9 | 11587.1 | 11615.9 | 11500.9 | 10948.8 | 11063.8 | 11299.6 |
| 32.5° | 14749.9 | 14830.4 | 14577.4 | 14197.8 | 13542.3 | 12892.5 | 12656.7 | 12559.0 | 12144.9 | 12196.7 | 11966.7 |
| 35° | 15526.2 | 15681.4 | 15457.2 | 15290.4 | 15100.6 | 14577.4 | 13927.6 | 14243.8 | 13576.8 | 13450.3 | 12852.2 |
| 37.5° | 16239.2 | 16193.2 | 16457.7 | 16285.2 | 16245.0 | 15877.0 | 15163.9 | 15227.2 | 14778.6 | 14749.9 | 14059.8 |
| 40° | 16877.5 | 16889.0 | 17251.3 | 17331.8 | 17170.8 | 16515.3 | 15480.2 | 15980.5 | 16342.7 | 16377.2 | 15491.7 |
| 42.5° | 17406.6 | 17561.8 | 17872.4 | 18522.2 | 18280.6 | 17188.1 | 15807.9 | 16354.2 | 17699.8 | 17912.6 | 16848.8 |
| 45° | 17866.6 | 18182.9 | 18568.2 | 19149.0 | 19010.9 | 18142.6 | 16624.5 | 17124.8 | 19149.0 | 19706.7 | 18125.4 |
| 47.5° | 17895.4 | 18309.4 | 18729.2 | 19591.7 | 19764.2 | 18654.4 | 17469.8 | 18343.9 | 20299.0 | 20902.8 | 19056.9 |
| 50° | 17780.3 | 17998.9 | 18838.4 | 19775.7 | 20166.8 | 19488.2 | 18654.4 | 19367.5 | 21414.6 | 21794.2 | 19528.5 |
| 52.5° | 16417.5 | 16584.3 | 18269.1 | 19948.3 | 20891.3 | 20431.3 | 20224.3 | 20793.6 | 22553.2 | 22835.0 | 19971.3 |
| 55° | 13686.0 | 13657.3 | 15974.7 | 19079.9 | 21224.9 | 21828.7 | 21702.1 | 21903.4 | 23870.1 | 24123.1 | 20080.5 |
| 57.5° | 9361.7 | 9885.0 | 11886.2 | 15888.5 | 19183.5 | 21500.9 | 21633.1 | 21299.6 | 22334.7 | 22432.4 | 17504.3 |
| 60° | 5048.9 | 5267.4 | 6877.5 | 10603.8 | 14606.1 | 17521.6 | 17866.6 | 17262.8 | 17182.3 | 16906.3 | 12495.7 |
| 62.5° | 2006.9 | 2116.2 | 3030.5 | 5250.1 | 7958.6 | 10649.8 | 11391.6 | 11144.3 | 10615.3 | 9890.7 | 6469.2 |
| 65° | 954.6 | 1023.6 | 1506.6 | 2455.4 | 3530.8 | 4439.3 | 5181.1 | 5411.2 | 3990.8 | 3594.0 | 2133.4 |
| 67.5° | 649.8 | 701.6 | 1098.3 | 1403.1 | 1259.3 | 1316.8 | 1713.6 | 1592.9 | 937.3 | 799.3 | 592.3 |
| 70° | 494.5 | 529.0 | 879.8 | 954.6 | 563.5 | 396.8 | 442.8 | 414.0 | 385.3 | 391.0 | 385.3 |
| 72.5° | 350.8 | 379.5 | 644.0 | 563.5 | 247.3 | 184.0 | 235.8 | 281.8 | 281.8 | 281.8 | 276.0 |
| 75° | 212.8 | 241.5 | 373.8 | 218.5 | 97.8 | 97.8 | 149.5 | 189.8 | 201.3 | 207.0 | 195.5 |
| 77.5° | 109.3 | 138.0 | 126.5 | 63.3 | 63.3 | 74.8 | 109.3 | 132.3 | 143.8 | 143.8 | 138.0 |
| 80° | 23.0 | 23.0 | 23.0 | 34.5 | 63.3 | 80.5 | 109.3 | 120.8 | 138.0 | 138.0 | 126.5 |
| 82.5° | 0.0 | 5.8 | 17.3 | 34.5 | 57.5 | 74.8 | 103.5 | 120.8 | 138.0 | 143.8 | 132.3 |
| 85° | 0.0 | 5.8 | 11.5 | 23.0 | 40.3 | 46.0 | 40.3 | 34.5 | 34.5 | 34.5 | 34.5 |
| 87.5° | 0.0 | 0.0 | 5.8 | 5.8 | 5.8 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 |
| 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° | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 | 8269.1 |
| 2.5° | 8349.6 | 8366.9 | 8338.1 | 8332.4 | 8309.4 | 8378.4 | 8211.6 | 8171.4 | 8274.9 | 8177.1 | 8200.1 |
| 5° | 8458.9 | 8499.1 | 8447.4 | 8361.1 | 8234.6 | 8039.1 | 7872.3 | 7653.8 | 7550.3 | 7475.6 | 7464.1 |
| 7.5° | 8539.4 | 8568.1 | 8516.4 | 8240.4 | 7860.8 | 7366.3 | 6998.3 | 6728.0 | 6515.2 | 6452.0 | 6348.5 |
| 10° | 8867.2 | 8872.9 | 8614.2 | 8004.6 | 7262.8 | 6613.0 | 6049.5 | 5635.4 | 5422.7 | 5290.4 | 5232.9 |
| 12.5° | 9085.7 | 9074.2 | 8550.9 | 7538.8 | 6549.7 | 5687.2 | 5043.1 | 4542.8 | 4347.3 | 4284.1 | 4243.8 |
| 15° | 9361.7 | 9298.5 | 8401.4 | 7061.5 | 5629.7 | 4698.1 | 4117.3 | 3772.3 | 3755.0 | 3714.8 | 3755.0 |
| 17.5° | 9580.2 | 9402.0 | 8182.9 | 6193.2 | 4749.9 | 3870.0 | 3490.5 | 3513.5 | 3559.5 | 3599.8 | 3605.5 |
| 20° | 9936.8 | 9568.7 | 7682.6 | 5434.2 | 3933.3 | 3318.0 | 3312.3 | 3415.8 | 3530.8 | 3576.8 | 3622.8 |
| 22.5° | 10207.0 | 9637.7 | 7147.8 | 4623.4 | 3266.2 | 3093.7 | 3191.5 | 3346.8 | 3433.0 | 3479.0 | 3548.0 |
| 25° | 10304.8 | 9448.0 | 6434.7 | 3812.5 | 2944.2 | 2990.2 | 3139.7 | 3243.2 | 3352.5 | 3404.3 | 3375.5 |
| 27.5° | 10402.5 | 9350.2 | 5583.7 | 3139.7 | 2771.7 | 2921.2 | 3047.7 | 3151.2 | 3185.7 | 3254.7 | 3300.7 |
| 30° | 10638.3 | 9010.9 | 4818.9 | 2714.2 | 2685.5 | 2875.2 | 2967.2 | 3001.7 | 3093.7 | 3134.0 | 3134.0 |
| 32.5° | 10828.1 | 8878.7 | 4008.1 | 2512.9 | 2674.0 | 2898.2 | 2909.7 | 2909.7 | 2921.2 | 2892.5 | 2881.0 |
| 35° | 11219.1 | 8424.4 | 3283.5 | 2392.2 | 2668.2 | 2904.0 | 2932.7 | 2835.0 | 2570.4 | 2466.9 | 2438.2 |
| 37.5° | 11702.1 | 8131.1 | 2748.7 | 2363.4 | 2708.5 | 2973.0 | 3019.0 | 2651.0 | 2305.9 | 2139.2 | 2110.4 |
| 40° | 12288.7 | 7924.1 | 2397.9 | 2351.9 | 2800.5 | 3134.0 | 2996.0 | 2507.2 | 2058.7 | 1817.1 | 1805.6 |
| 42.5° | 12973.0 | 7734.3 | 2162.2 | 2346.2 | 2915.5 | 3300.7 | 2973.0 | 2386.4 | 1805.6 | 1644.6 | 1667.6 |
| 45° | 13519.3 | 7630.8 | 2001.2 | 2305.9 | 2955.7 | 3398.5 | 2990.2 | 2173.7 | 1702.1 | 1598.6 | 1610.1 |
| 47.5° | 13944.8 | 7412.3 | 1868.9 | 2236.9 | 2950.0 | 3433.0 | 2835.0 | 2087.4 | 1650.4 | 1679.1 | 1707.9 |
| 50° | 13956.3 | 7119.0 | 1702.1 | 2087.4 | 2863.7 | 3369.8 | 2656.7 | 2006.9 | 1638.9 | 1759.6 | 1817.1 |
| 52.5° | 13801.0 | 6705.0 | 1523.9 | 1874.6 | 2662.5 | 3151.2 | 2495.7 | 1972.4 | 1587.1 | 1575.6 | 1644.6 |
| 55° | 13249.0 | 5928.7 | 1224.8 | 1518.1 | 2248.4 | 2599.2 | 2351.9 | 1909.1 | 1431.9 | 1299.6 | 1311.1 |
| 57.5° | 10707.3 | 4249.6 | 902.8 | 1086.8 | 1592.9 | 1903.4 | 2121.9 | 1880.4 | 1288.1 | 1104.1 | 1109.8 |
| 60° | 6630.3 | 2409.4 | 661.3 | 741.8 | 983.3 | 1155.8 | 1719.4 | 1748.1 | 1150.1 | 931.6 | 920.1 |
| 62.5° | 3404.3 | 1190.3 | 511.8 | 523.3 | 603.8 | 678.6 | 1178.8 | 1466.4 | 1040.8 | 885.6 | 885.6 |
| 65° | 1138.6 | 586.5 | 448.5 | 402.5 | 402.5 | 419.8 | 713.1 | 1017.8 | 879.8 | 741.8 | 741.8 |
| 67.5° | 488.8 | 437.0 | 391.0 | 350.8 | 322.0 | 304.8 | 402.5 | 592.3 | 655.5 | 563.5 | 540.5 |
| 70° | 379.5 | 368.0 | 339.3 | 293.3 | 253.0 | 230.0 | 235.8 | 304.8 | 373.8 | 362.3 | 350.8 |
| 72.5° | 281.8 | 281.8 | 270.3 | 230.0 | 195.5 | 166.8 | 155.3 | 161.0 | 178.3 | 184.0 | 189.8 |
| 75° | 195.5 | 201.3 | 201.3 | 178.3 | 143.8 | 120.8 | 103.5 | 86.3 | 69.0 | 57.5 | 51.8 |
| 77.5° | 132.3 | 138.0 | 149.5 | 132.3 | 109.3 | 80.5 | 63.3 | 46.0 | 28.8 | 11.5 | 11.5 |
| 80° | 115.0 | 132.3 | 143.8 | 132.3 | 115.0 | 86.3 | 63.3 | 34.5 | 17.3 | 0.0 | 0.0 |
| 82.5° | 120.8 | 132.3 | 149.5 | 126.5 | 109.3 | 80.5 | 63.3 | 40.3 | 17.3 | 5.8 | 0.0 |
| 85° | 28.8 | 28.8 | 34.5 | 40.3 | 51.8 | 57.5 | 46.0 | 28.8 | 17.3 | 5.8 | 0.0 |
| 87.5° | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 5.8 | 5.8 | 5.8 | 5.8 | 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)