

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: P532595

Luminaire Tested: **GALN-SA8A-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23039 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

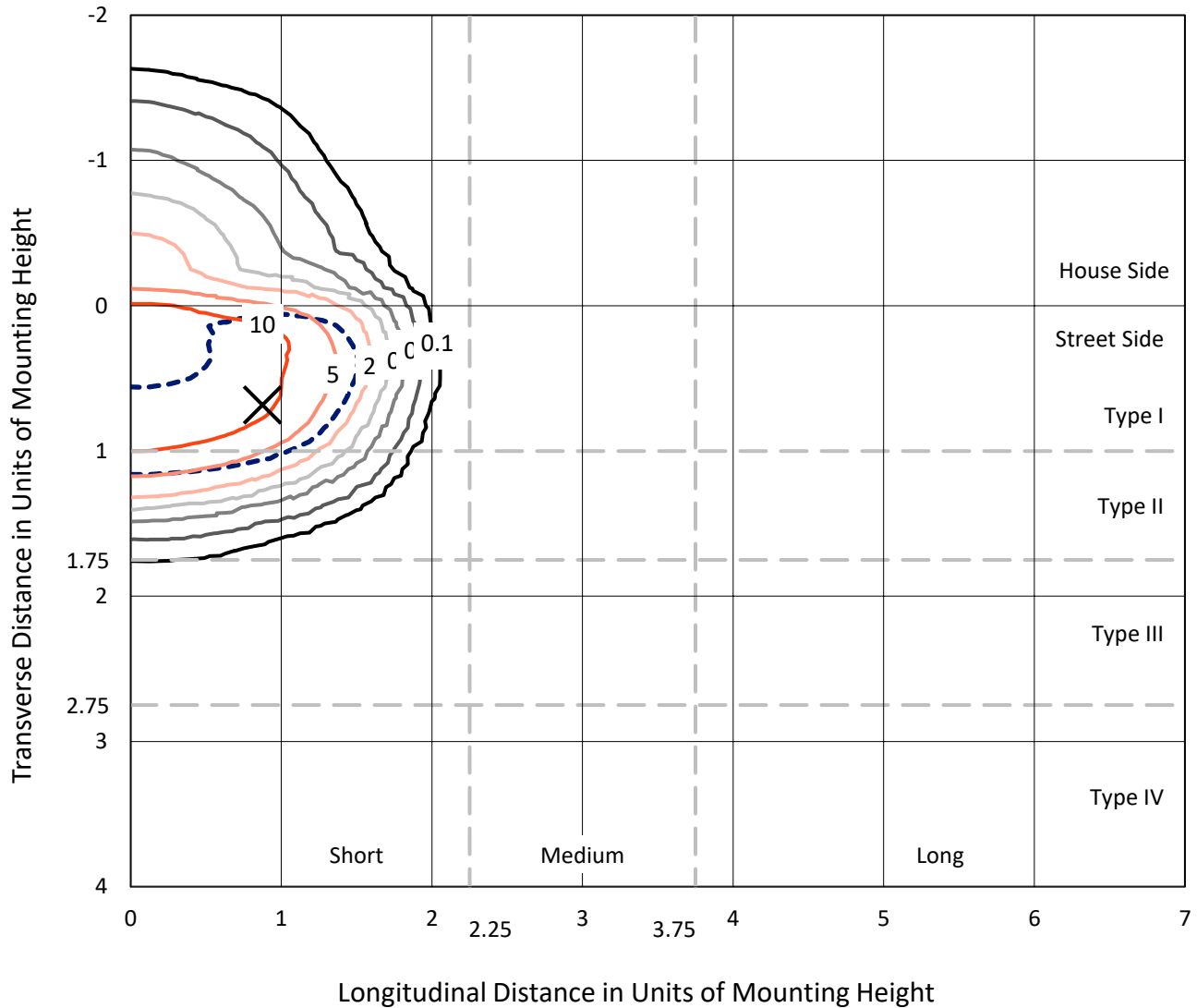
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

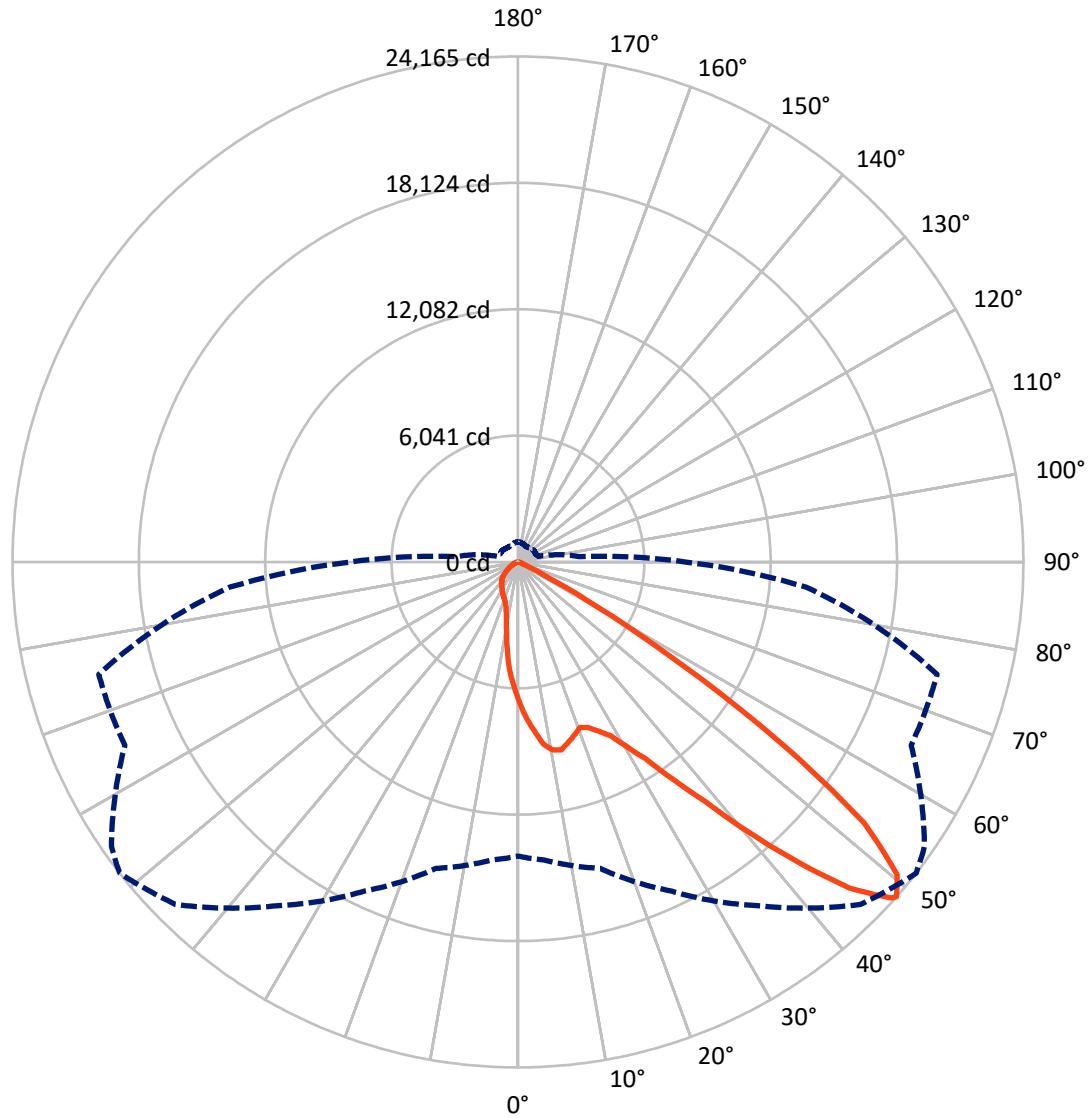
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2805.2 | 0.0 | 2805.2 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 20233.8 | 0.0 | 20233.8 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 23039.0 | 0.0 | 23039.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 609.0 | 2.6 |
| 10°-20° | 1591.4 | 6.9 |
| 20°-30° | 2717.3 | 11.8 |
| 30°-40° | 5003.8 | 21.7 |
| 40°-50° | 7770.9 | 33.7 |
| 50°-60° | 4676.8 | 20.3 |
| 60°-70° | 540.9 | 2.3 |
| 70°-80° | 104.7 | 0.5 |
| 80°-90° | 24.2 | 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° | 23039.0 | 100.0 |
| 0°-180° | 23039.0 | 100.0 |

Coefficient of Utilization



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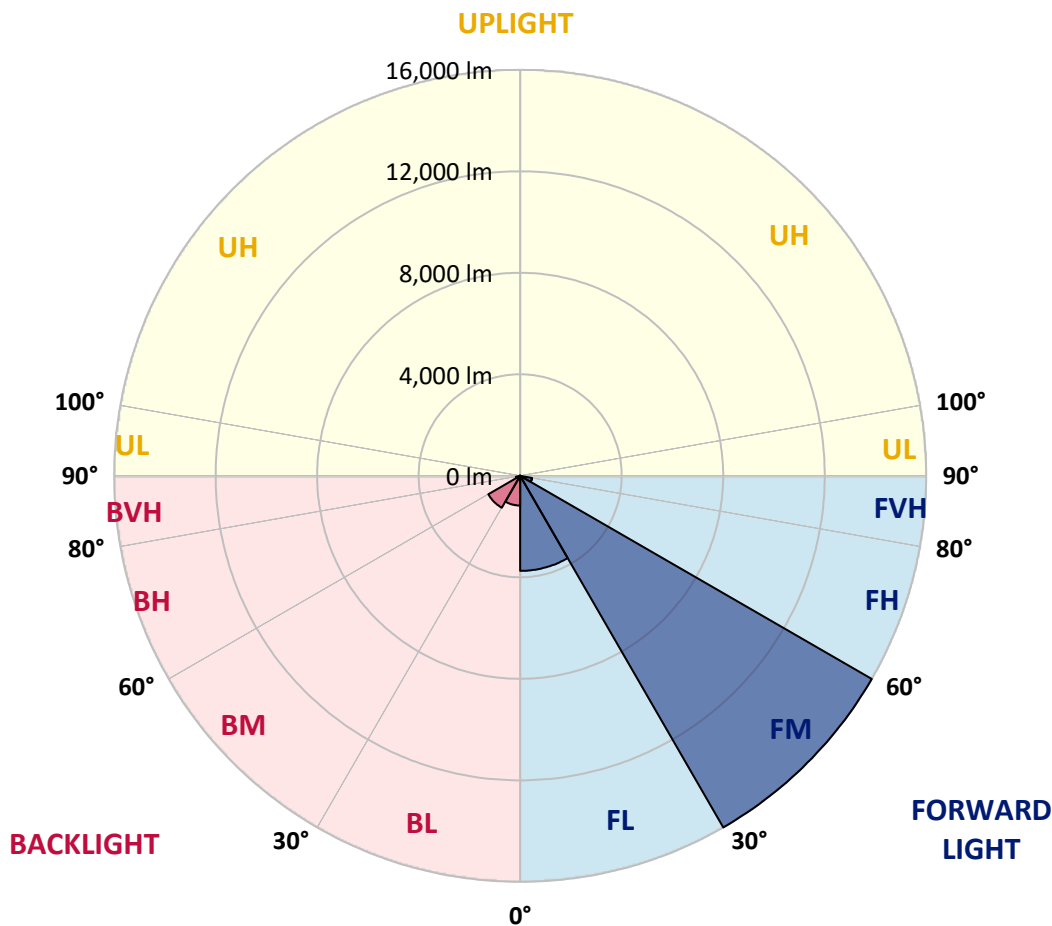
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3745.8 | 16.3 | | | |
| FM (30°-60°) | 16000.1 | 69.4 | | | |
| FH (60°-80°) | 476.3 | 2.1 | | | G0/660 |
| FVH (80°-90°) | 11.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1171.8 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 1451.4 | 6.3 | B2/2500 | | |
| BH (60°-80°) | 169.3 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.7 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 |
| 2.5° | 8063.9 | 7879.1 | 7895.9 | 7775.0 | 7704.5 | 7590.3 | 7435.8 | 7405.6 | 7237.7 | 7009.3 | 6777.5 |
| 5° | 8789.3 | 8745.7 | 8802.8 | 8628.1 | 8634.8 | 8446.7 | 8084.0 | 8090.7 | 7704.5 | 7331.7 | 6972.3 |
| 7.5° | 8836.3 | 8735.6 | 8792.7 | 8947.2 | 9037.8 | 9004.3 | 8799.4 | 8621.4 | 8255.3 | 7707.9 | 7183.9 |
| 10° | 7912.7 | 8104.2 | 8164.6 | 8419.9 | 8782.6 | 9165.5 | 9142.0 | 9152.0 | 8846.4 | 8131.0 | 7365.3 |
| 12.5° | 7358.6 | 7231.0 | 7435.8 | 7590.3 | 8137.8 | 8880.0 | 9219.2 | 9293.1 | 9316.6 | 8540.8 | 7546.7 |
| 15° | 7106.7 | 7106.7 | 7140.3 | 7183.9 | 7580.2 | 8265.4 | 8957.2 | 9172.2 | 9679.3 | 9078.2 | 7832.1 |
| 17.5° | 7264.5 | 7257.8 | 7304.8 | 7214.2 | 7361.9 | 7889.2 | 8715.4 | 8960.6 | 10085.7 | 9605.4 | 8057.2 |
| 20° | 7744.8 | 7768.3 | 7738.1 | 7476.1 | 7486.2 | 7882.5 | 8446.7 | 8833.0 | 10361.1 | 10062.2 | 8356.1 |
| 22.5° | 8413.2 | 8426.6 | 8255.3 | 7969.8 | 7885.9 | 8080.7 | 8601.2 | 8896.8 | 10582.8 | 10609.6 | 8446.7 |
| 25° | 9185.6 | 9131.9 | 9098.3 | 8695.3 | 8440.0 | 8608.0 | 8950.5 | 9121.8 | 10720.5 | 11079.8 | 8705.4 |
| 27.5° | 10257.0 | 10149.5 | 9944.7 | 9585.3 | 9397.2 | 9158.8 | 9403.9 | 9686.0 | 11113.4 | 11738.1 | 8987.5 |
| 30° | 11838.9 | 11744.8 | 11345.2 | 10881.7 | 10388.0 | 10152.9 | 10230.1 | 10384.6 | 11822.1 | 12500.5 | 9360.3 |
| 32.5° | 14220.1 | 14021.9 | 13444.3 | 12561.0 | 11889.3 | 11241.1 | 11220.9 | 11385.5 | 12456.8 | 13555.1 | 9803.6 |
| 35° | 16843.1 | 16782.7 | 15932.9 | 15022.8 | 13723.0 | 12722.2 | 12739.0 | 12826.3 | 13672.6 | 14938.8 | 10384.6 |
| 37.5° | 18586.2 | 18918.7 | 18378.0 | 17400.6 | 16309.1 | 14878.4 | 14515.6 | 14545.9 | 15341.8 | 16577.8 | 11432.5 |
| 40° | 19933.0 | 19650.9 | 19714.7 | 19486.3 | 18740.7 | 17766.7 | 16964.0 | 16806.2 | 17273.0 | 18391.4 | 12473.6 |
| 42.5° | 19345.2 | 19358.7 | 19751.6 | 20292.3 | 20477.1 | 20406.5 | 19587.0 | 19288.1 | 18925.4 | 19875.9 | 13464.4 |
| 45° | 17686.1 | 18032.0 | 18542.5 | 19973.3 | 21229.4 | 22408.2 | 22247.0 | 21749.9 | 20067.3 | 21051.4 | 14035.4 |
| 47.5° | 15039.6 | 15026.1 | 15862.4 | 17723.0 | 20514.0 | 23274.7 | 24006.9 | 23657.6 | 20876.7 | 20920.4 | 13917.8 |
| 48° | 14062.2 | 14304.0 | 15167.2 | 17357.0 | 20060.6 | 23147.1 | 24164.7 | 23724.8 | 20739.0 | 20745.7 | 13817.1 |
| 50° | 10394.7 | 10351.0 | 11425.8 | 14112.6 | 17917.8 | 21749.9 | 23499.7 | 23842.3 | 20735.7 | 19862.4 | 13111.8 |
| 52.5° | 5491.2 | 5679.3 | 6461.8 | 8873.3 | 12668.4 | 17800.3 | 20728.9 | 21263.0 | 20003.5 | 18418.3 | 12097.5 |
| 55° | 2334.2 | 2109.2 | 2710.3 | 4006.7 | 7126.8 | 11892.6 | 15207.5 | 16396.4 | 16913.6 | 16299.0 | 10582.8 |
| 57.5° | 832.9 | 910.2 | 1047.9 | 1508.0 | 2995.8 | 6508.9 | 9068.1 | 9991.7 | 11718.0 | 11959.8 | 7210.8 |
| 60° | 534.0 | 544.1 | 587.7 | 691.9 | 1125.1 | 2508.8 | 4302.3 | 5037.8 | 5820.4 | 6008.4 | 3365.3 |
| 62.5° | 413.1 | 416.5 | 436.6 | 453.4 | 534.0 | 974.0 | 1615.5 | 1914.4 | 1988.3 | 1709.5 | 883.3 |
| 65° | 345.9 | 349.3 | 356.0 | 356.0 | 379.5 | 456.8 | 564.2 | 621.3 | 604.5 | 597.8 | 500.4 |
| 67.5° | 265.3 | 272.0 | 285.5 | 285.5 | 298.9 | 278.8 | 312.3 | 332.5 | 376.2 | 456.8 | 426.5 |
| 70° | 208.2 | 211.6 | 221.7 | 228.4 | 228.4 | 201.5 | 225.0 | 245.2 | 275.4 | 339.2 | 335.9 |
| 72.5° | 161.2 | 167.9 | 174.6 | 174.6 | 164.6 | 137.7 | 161.2 | 178.0 | 198.2 | 235.1 | 228.4 |
| 75° | 124.3 | 124.3 | 127.6 | 104.1 | 80.6 | 70.5 | 97.4 | 117.5 | 147.8 | 154.5 | 127.6 |
| 77.5° | 33.6 | 36.9 | 33.6 | 30.2 | 33.6 | 50.4 | 63.8 | 73.9 | 94.0 | 94.0 | 84.0 |
| 80° | 0.0 | 3.4 | 10.1 | 20.2 | 33.6 | 47.0 | 57.1 | 63.8 | 73.9 | 80.6 | 77.2 |
| 82.5° | 0.0 | 3.4 | 10.1 | 20.2 | 30.2 | 36.9 | 50.4 | 53.7 | 60.5 | 70.5 | 70.5 |
| 85° | 0.0 | 3.4 | 6.7 | 13.4 | 20.2 | 23.5 | 23.5 | 20.2 | 20.2 | 16.8 | 13.4 |
| 87.5° | 0.0 | 0.0 | 3.4 | 6.7 | 6.7 | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 |
| 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° | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 | 6653.3 |
| 2.5° | 6686.9 | 6582.8 | 6424.9 | 6176.4 | 5937.9 | 5783.4 | 5635.6 | 5471.1 | 5380.4 | 5373.7 | 5323.3 |
| 5° | 6767.5 | 6532.4 | 6156.2 | 5729.7 | 5272.9 | 4880.0 | 4483.7 | 4225.1 | 3993.3 | 3865.7 | 3842.2 |
| 7.5° | 6811.1 | 6505.5 | 5897.6 | 5182.2 | 4403.1 | 3761.6 | 3318.2 | 2992.5 | 2864.8 | 2770.8 | 2767.4 |
| 10° | 6901.8 | 6458.5 | 5511.4 | 4456.8 | 3492.9 | 2844.7 | 2539.1 | 2391.3 | 2320.8 | 2293.9 | 2253.6 |
| 12.5° | 6969.0 | 6371.2 | 5115.1 | 3711.2 | 2760.7 | 2357.7 | 2223.4 | 2189.8 | 2193.1 | 2206.6 | 2189.8 |
| 15° | 7063.0 | 6293.9 | 4581.1 | 3046.2 | 2317.4 | 2122.6 | 2122.6 | 2129.3 | 2176.3 | 2183.1 | 2179.7 |
| 17.5° | 7056.3 | 6142.8 | 4030.3 | 2508.8 | 2048.7 | 2021.8 | 2031.9 | 2095.7 | 2126.0 | 2136.0 | 2112.5 |
| 20° | 7136.9 | 6001.7 | 3462.7 | 2142.8 | 1897.6 | 1937.9 | 2005.1 | 2021.8 | 2058.8 | 2065.5 | 2038.6 |
| 22.5° | 7113.4 | 5649.1 | 2935.4 | 1853.9 | 1783.4 | 1860.6 | 1927.8 | 1948.0 | 1937.9 | 1917.7 | 1914.4 |
| 25° | 7069.7 | 5346.8 | 2451.7 | 1662.5 | 1699.4 | 1783.4 | 1847.2 | 1810.3 | 1790.1 | 1793.5 | 1796.8 |
| 27.5° | 6992.5 | 4963.9 | 2052.1 | 1528.1 | 1585.2 | 1709.5 | 1706.1 | 1692.7 | 1712.9 | 1696.1 | 1712.9 |
| 30° | 6979.1 | 4581.1 | 1722.9 | 1407.2 | 1501.3 | 1592.0 | 1598.7 | 1622.2 | 1645.7 | 1615.5 | 1645.7 |
| 32.5° | 6999.2 | 4161.2 | 1487.8 | 1333.3 | 1450.9 | 1454.3 | 1528.1 | 1551.6 | 1534.9 | 1467.7 | 1474.4 |
| 35° | 7153.7 | 3838.8 | 1316.6 | 1293.0 | 1370.3 | 1373.6 | 1444.2 | 1413.9 | 1340.1 | 1299.8 | 1323.3 |
| 37.5° | 7479.5 | 3570.1 | 1235.9 | 1256.1 | 1262.8 | 1306.5 | 1309.8 | 1249.4 | 1256.1 | 1252.7 | 1266.2 |
| 40° | 7895.9 | 3365.3 | 1178.8 | 1222.5 | 1215.8 | 1246.0 | 1125.1 | 1158.7 | 1188.9 | 1199.0 | 1205.7 |
| 42.5° | 8181.4 | 3217.5 | 1141.9 | 1168.8 | 1155.3 | 1101.6 | 1034.4 | 1068.0 | 1091.5 | 1128.5 | 1135.2 |
| 45° | 8309.0 | 3099.9 | 1098.2 | 1074.7 | 1074.7 | 977.3 | 950.5 | 957.2 | 1010.9 | 1051.2 | 1044.5 |
| 47.5° | 8100.8 | 2985.7 | 1021.0 | 950.5 | 974.0 | 893.4 | 863.1 | 863.1 | 920.2 | 970.6 | 960.5 |
| 48° | 8020.2 | 2938.7 | 1024.4 | 923.6 | 940.4 | 879.9 | 849.7 | 843.0 | 906.8 | 953.8 | 953.8 |
| 50° | 7620.5 | 2764.1 | 937.0 | 849.7 | 816.1 | 809.4 | 789.3 | 796.0 | 836.3 | 879.9 | 879.9 |
| 52.5° | 6841.4 | 2387.9 | 792.6 | 728.8 | 668.4 | 708.7 | 718.7 | 705.3 | 725.4 | 765.7 | 762.4 |
| 55° | 5709.5 | 1833.8 | 634.8 | 604.5 | 557.5 | 601.2 | 621.3 | 604.5 | 584.4 | 614.6 | 614.6 |
| 57.5° | 3657.5 | 987.4 | 507.1 | 513.9 | 466.8 | 510.5 | 527.3 | 487.0 | 450.0 | 473.6 | 470.2 |
| 60° | 1649.0 | 591.1 | 416.5 | 406.4 | 376.2 | 426.5 | 453.4 | 406.4 | 356.0 | 372.8 | 389.6 |
| 62.5° | 618.0 | 419.8 | 315.7 | 309.0 | 302.3 | 349.3 | 362.7 | 325.8 | 275.4 | 285.5 | 288.8 |
| 65° | 453.4 | 369.4 | 251.9 | 228.4 | 241.8 | 275.4 | 268.7 | 231.7 | 198.2 | 198.2 | 204.9 |
| 67.5° | 386.2 | 322.4 | 204.9 | 178.0 | 178.0 | 181.4 | 167.9 | 147.8 | 137.7 | 144.4 | 151.1 |
| 70° | 302.3 | 255.2 | 161.2 | 137.7 | 124.3 | 110.8 | 97.4 | 94.0 | 84.0 | 94.0 | 90.7 |
| 72.5° | 194.8 | 171.3 | 124.3 | 104.1 | 94.0 | 77.2 | 63.8 | 60.5 | 50.4 | 47.0 | 47.0 |
| 75° | 104.1 | 104.1 | 97.4 | 84.0 | 73.9 | 60.5 | 50.4 | 40.3 | 26.9 | 20.2 | 20.2 |
| 77.5° | 73.9 | 80.6 | 87.3 | 80.6 | 67.2 | 50.4 | 40.3 | 26.9 | 13.4 | 6.7 | 6.7 |
| 80° | 70.5 | 80.6 | 87.3 | 77.2 | 67.2 | 50.4 | 36.9 | 20.2 | 10.1 | 3.4 | 3.4 |
| 82.5° | 63.8 | 73.9 | 80.6 | 70.5 | 60.5 | 43.7 | 33.6 | 20.2 | 10.1 | 3.4 | 3.4 |
| 85° | 13.4 | 16.8 | 20.2 | 20.2 | 23.5 | 30.2 | 23.5 | 16.8 | 6.7 | 3.4 | 3.4 |
| 87.5° | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 | 6.7 | 6.7 | 3.4 | 3.4 | 3.4 |
| 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)