

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: P527459

Luminaire Tested: **GALN-SA2C-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527459
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-SA2C-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 6975 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

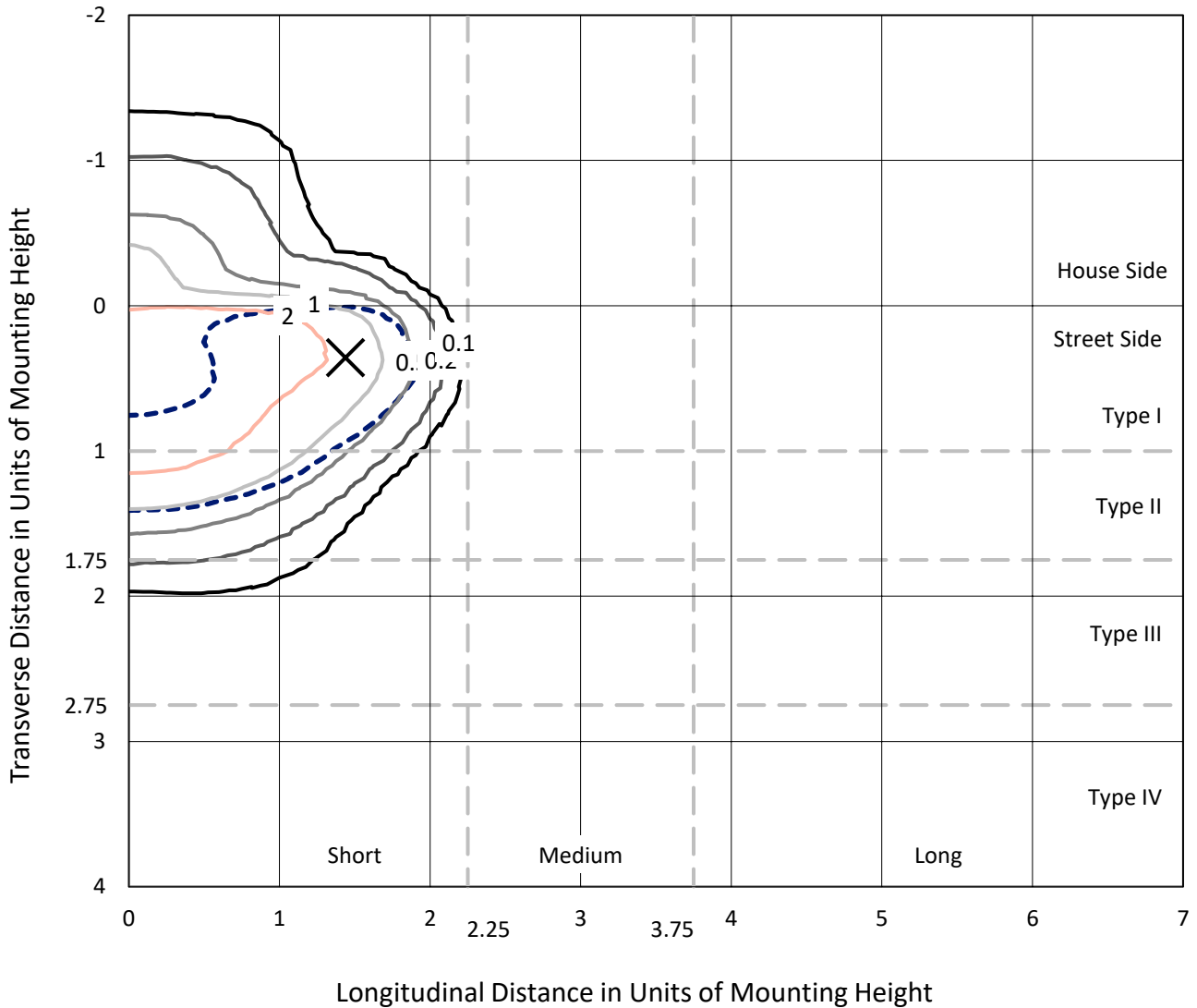
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

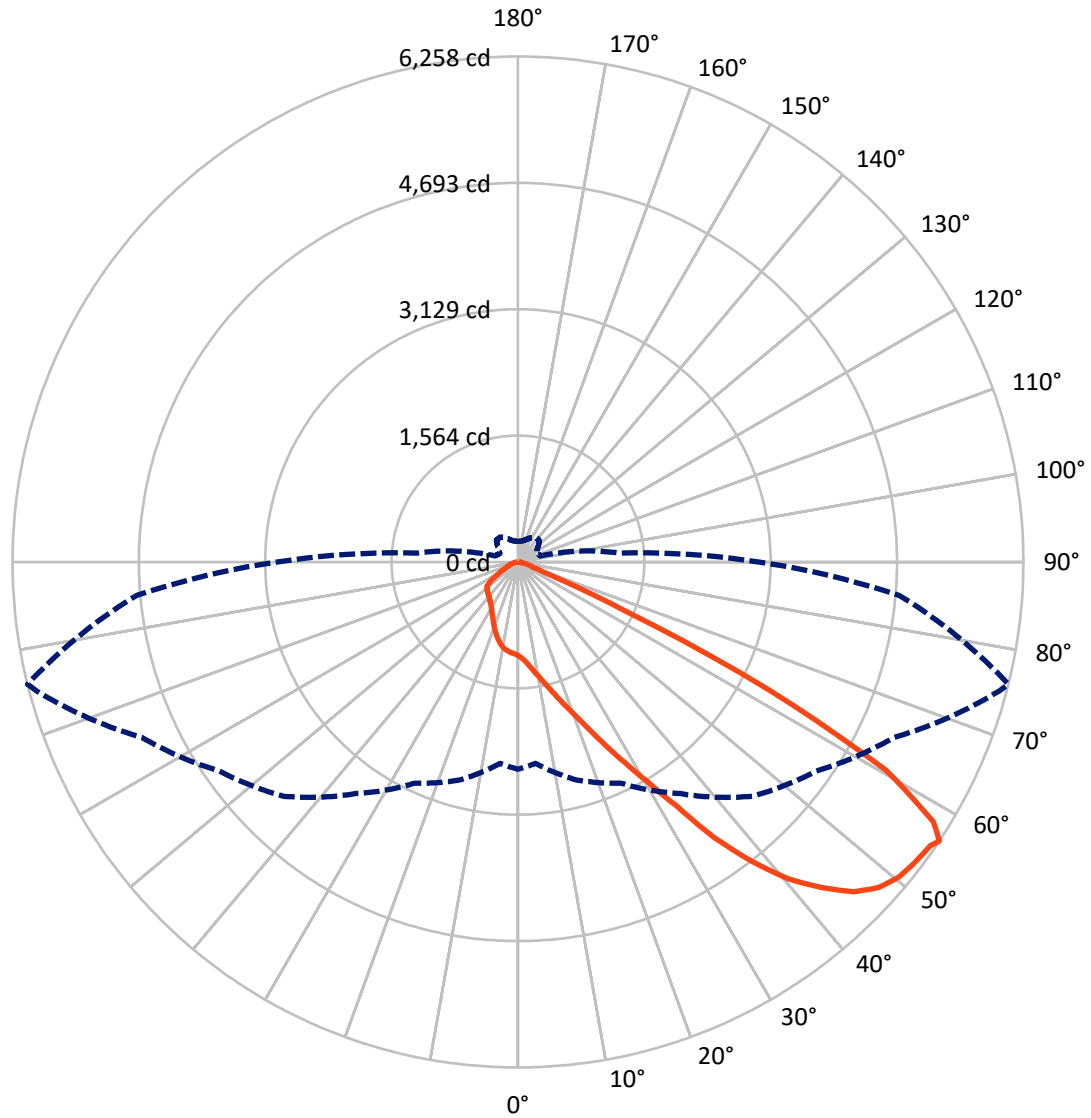
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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 | 1095.7 | 0.0 | 1095.7 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 5879.3 | 0.0 | 5879.3 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 6975.0 | 0.0 | 6975.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 117.0 | 1.7 |
| 10°-20° | 375.7 | 5.4 |
| 20°-30° | 681.3 | 9.8 |
| 30°-40° | 1174.9 | 16.8 |
| 40°-50° | 1908.7 | 27.4 |
| 50°-60° | 2011.9 | 28.8 |
| 60°-70° | 614.7 | 8.8 |
| 70°-80° | 78.8 | 1.1 |
| 80°-90° | 12.0 | 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° | 6975.0 | 100.0 |
| 0°-180° | 6975.0 | 100.0 |

Coefficient of Utilization

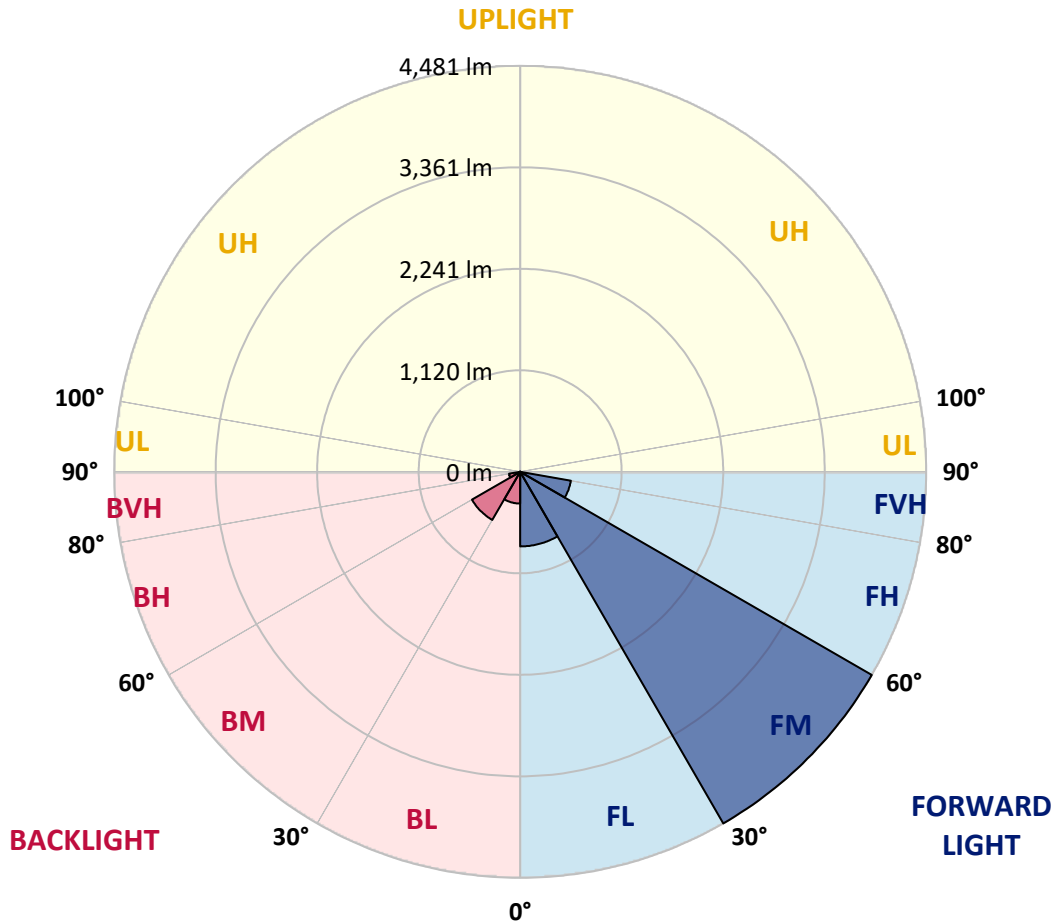


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 823.5 | 11.8 | | | |
| FM (30°-60°) | 4481.4 | 64.2 | | | |
| FH (60°-80°) | 568.5 | 8.2 | | | G0/660 |
| FVH (80°-90°) | 5.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 350.5 | 5.0 | B1/500 | | |
| BM (30°-60°) | 614.1 | 8.8 | B1/1000 | | |
| BH (60°-80°) | 125.0 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.1 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 |
| 2.5° | 1337.1 | 1306.3 | 1307.6 | 1305.0 | 1301.1 | 1287.0 | 1244.6 | 1238.1 | 1209.9 | 1202.1 | 1176.4 |
| 5° | 1497.9 | 1470.9 | 1486.3 | 1463.1 | 1441.3 | 1428.4 | 1359.0 | 1326.9 | 1281.9 | 1265.1 | 1229.1 |
| 7.5° | 1598.1 | 1585.3 | 1580.1 | 1581.4 | 1560.9 | 1528.7 | 1497.9 | 1427.1 | 1366.7 | 1353.9 | 1278.0 |
| 10° | 1647.0 | 1639.3 | 1647.0 | 1643.1 | 1652.1 | 1656.0 | 1602.0 | 1559.6 | 1470.9 | 1449.0 | 1330.7 |
| 12.5° | 1658.6 | 1674.0 | 1680.4 | 1697.1 | 1719.0 | 1756.3 | 1752.4 | 1694.6 | 1576.3 | 1562.1 | 1411.7 |
| 15° | 1686.9 | 1699.7 | 1693.3 | 1720.3 | 1761.4 | 1824.4 | 1857.9 | 1848.9 | 1721.6 | 1695.9 | 1505.6 |
| 17.5° | 1712.6 | 1689.4 | 1711.3 | 1765.3 | 1806.4 | 1902.9 | 1983.9 | 2021.1 | 1879.7 | 1850.1 | 1591.7 |
| 20° | 1747.3 | 1740.9 | 1737.0 | 1764.0 | 1837.3 | 1965.9 | 2126.6 | 2194.7 | 2057.1 | 2026.3 | 1715.1 |
| 22.5° | 1852.7 | 1854.0 | 1851.4 | 1811.6 | 1864.3 | 2009.6 | 2251.3 | 2419.7 | 2269.3 | 2243.6 | 1855.3 |
| 25° | 1991.6 | 1974.9 | 1962.0 | 1929.9 | 1923.4 | 2049.4 | 2377.3 | 2694.9 | 2523.9 | 2505.9 | 2007.0 |
| 27.5° | 2138.1 | 2138.1 | 2099.6 | 2070.0 | 2028.9 | 2148.4 | 2493.0 | 2962.3 | 2831.1 | 2806.7 | 2139.4 |
| 30° | 2297.6 | 2306.6 | 2301.4 | 2238.4 | 2212.7 | 2256.4 | 2611.3 | 3304.3 | 3183.4 | 3152.6 | 2358.0 |
| 32.5° | 2532.9 | 2513.6 | 2535.4 | 2482.7 | 2406.9 | 2445.4 | 2797.7 | 3610.3 | 3641.1 | 3597.4 | 2644.7 |
| 35° | 2844.0 | 2832.4 | 2818.3 | 2732.1 | 2642.1 | 2673.0 | 3061.3 | 3987.0 | 4215.9 | 4194.0 | 2934.0 |
| 37.5° | 3123.0 | 3116.6 | 3105.0 | 3045.9 | 2941.7 | 2979.0 | 3360.9 | 4379.1 | 4776.4 | 4704.4 | 3342.9 |
| 40° | 3416.1 | 3450.9 | 3413.6 | 3360.9 | 3265.7 | 3348.0 | 3713.1 | 4611.9 | 5248.3 | 5160.9 | 3655.3 |
| 42.5° | 3813.4 | 3786.4 | 3803.1 | 3706.7 | 3655.3 | 3745.3 | 4066.7 | 4844.6 | 5614.7 | 5510.6 | 3987.0 |
| 45° | 4236.4 | 4237.7 | 4192.7 | 4161.9 | 4028.1 | 4125.9 | 4284.0 | 4973.1 | 5906.6 | 5825.6 | 4237.7 |
| 47.5° | 4507.7 | 4506.4 | 4555.3 | 4604.1 | 4466.6 | 4370.1 | 4431.9 | 5095.3 | 6057.0 | 6019.7 | 4329.0 |
| 50° | 4465.3 | 4478.1 | 4541.1 | 4723.7 | 4795.7 | 4665.9 | 4570.7 | 5059.3 | 6125.1 | 6121.3 | 4407.4 |
| 52.5° | 3884.1 | 3926.6 | 4032.0 | 4295.6 | 4658.1 | 4818.9 | 4716.0 | 5126.1 | 6158.6 | 6165.0 | 4524.4 |
| 55° | 2957.1 | 2980.3 | 3180.9 | 3501.0 | 3902.1 | 4452.4 | 4658.1 | 5178.9 | 6184.3 | 6195.9 | 4665.9 |
| 56° | 2565.0 | 2503.3 | 2792.6 | 3020.1 | 3499.7 | 4101.4 | 4511.6 | 5137.7 | 6168.9 | 6257.6 | 4736.6 |
| 57.5° | 1936.3 | 1895.1 | 2129.1 | 2413.3 | 2874.9 | 3510.0 | 4056.4 | 4943.6 | 6064.7 | 6063.4 | 4635.0 |
| 60° | 1177.7 | 1136.6 | 1316.6 | 1483.7 | 1742.1 | 2161.3 | 2741.1 | 3936.9 | 5127.4 | 5235.4 | 3753.0 |
| 62.5° | 700.7 | 726.4 | 903.9 | 1005.4 | 1089.0 | 1132.7 | 1418.1 | 2340.0 | 3421.3 | 3498.4 | 2328.4 |
| 65° | 466.7 | 475.7 | 609.4 | 776.6 | 813.9 | 648.0 | 577.3 | 947.6 | 1483.7 | 1436.1 | 960.4 |
| 67.5° | 288.0 | 308.6 | 408.9 | 583.7 | 646.7 | 473.1 | 273.9 | 353.6 | 408.9 | 408.9 | 277.7 |
| 70° | 174.9 | 185.1 | 272.6 | 397.3 | 443.6 | 304.7 | 199.3 | 199.3 | 196.7 | 192.9 | 165.9 |
| 72.5° | 83.6 | 90.0 | 138.9 | 204.4 | 208.3 | 160.7 | 154.3 | 168.4 | 164.6 | 163.3 | 137.6 |
| 75° | 36.0 | 38.6 | 48.9 | 64.3 | 73.3 | 68.1 | 93.9 | 120.9 | 124.7 | 120.9 | 99.0 |
| 77.5° | 11.6 | 12.9 | 18.0 | 23.1 | 24.4 | 29.6 | 39.9 | 50.1 | 57.9 | 54.0 | 48.9 |
| 80° | 1.3 | 2.6 | 5.1 | 11.6 | 18.0 | 23.1 | 29.6 | 33.4 | 37.3 | 37.3 | 34.7 |
| 82.5° | 1.3 | 1.3 | 5.1 | 10.3 | 16.7 | 21.9 | 28.3 | 32.1 | 37.3 | 38.6 | 36.0 |
| 85° | 0.0 | 1.3 | 3.9 | 9.0 | 14.1 | 14.1 | 12.9 | 12.9 | 9.0 | 9.0 | 9.0 |
| 87.5° | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 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° | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 | 1161.0 |
| 2.5° | 1171.3 | 1168.7 | 1134.0 | 1112.1 | 1100.6 | 1077.4 | 1063.3 | 1053.0 | 1045.3 | 1036.3 | 1037.6 |
| 5° | 1186.7 | 1177.7 | 1119.9 | 1080.0 | 1032.4 | 1006.7 | 984.9 | 966.9 | 955.3 | 952.7 | 947.6 |
| 7.5° | 1230.4 | 1182.9 | 1095.4 | 1023.4 | 963.0 | 937.3 | 918.0 | 906.4 | 911.6 | 900.0 | 909.0 |
| 10° | 1263.9 | 1193.1 | 1065.9 | 961.7 | 901.3 | 882.0 | 871.7 | 880.7 | 893.6 | 888.4 | 882.0 |
| 12.5° | 1305.0 | 1203.4 | 1018.3 | 902.6 | 846.0 | 831.9 | 849.9 | 866.6 | 892.3 | 902.6 | 889.7 |
| 15° | 1351.3 | 1215.0 | 957.9 | 834.4 | 798.4 | 810.0 | 840.9 | 870.4 | 896.1 | 909.0 | 916.7 |
| 17.5° | 1407.9 | 1211.1 | 898.7 | 780.4 | 753.4 | 786.9 | 824.1 | 851.1 | 889.7 | 909.0 | 903.9 |
| 20° | 1460.6 | 1198.3 | 833.1 | 726.4 | 727.7 | 758.6 | 789.4 | 833.1 | 853.7 | 879.4 | 870.4 |
| 22.5° | 1510.7 | 1175.1 | 765.0 | 689.1 | 689.1 | 736.7 | 752.1 | 780.4 | 798.4 | 811.3 | 810.0 |
| 25° | 1581.4 | 1131.4 | 708.4 | 653.1 | 668.6 | 699.4 | 712.3 | 721.3 | 713.6 | 723.9 | 725.1 |
| 27.5° | 1631.6 | 1086.4 | 662.1 | 621.0 | 649.3 | 672.4 | 668.6 | 663.4 | 645.4 | 631.3 | 640.3 |
| 30° | 1685.6 | 1033.7 | 622.3 | 599.1 | 614.6 | 635.1 | 619.7 | 604.3 | 576.0 | 552.9 | 554.1 |
| 32.5° | 1762.7 | 1009.3 | 587.6 | 573.4 | 594.0 | 596.6 | 579.9 | 556.7 | 528.4 | 506.6 | 505.3 |
| 35° | 1906.7 | 993.9 | 558.0 | 556.7 | 560.6 | 561.9 | 545.1 | 516.9 | 505.3 | 487.3 | 493.7 |
| 37.5° | 2050.7 | 986.1 | 537.4 | 532.3 | 531.0 | 532.3 | 513.0 | 486.0 | 507.9 | 506.6 | 509.1 |
| 40° | 2234.6 | 1020.9 | 507.9 | 501.4 | 502.7 | 502.7 | 478.3 | 470.6 | 509.1 | 513.0 | 514.3 |
| 42.5° | 2421.0 | 1064.6 | 488.6 | 468.0 | 473.1 | 473.1 | 460.3 | 451.3 | 478.3 | 452.6 | 448.7 |
| 45° | 2583.0 | 1128.9 | 468.0 | 434.6 | 447.4 | 453.9 | 450.0 | 434.6 | 417.9 | 374.1 | 374.1 |
| 47.5° | 2635.7 | 1185.4 | 443.6 | 402.4 | 412.7 | 441.0 | 429.4 | 397.3 | 367.7 | 331.7 | 329.1 |
| 50° | 2728.3 | 1247.1 | 424.3 | 365.1 | 387.0 | 421.7 | 410.1 | 378.0 | 344.6 | 318.9 | 320.1 |
| 52.5° | 2823.4 | 1317.9 | 388.3 | 321.4 | 348.4 | 406.3 | 406.3 | 370.3 | 318.9 | 300.9 | 298.3 |
| 55° | 2966.1 | 1315.3 | 324.0 | 263.6 | 311.1 | 383.1 | 389.6 | 331.7 | 285.4 | 271.3 | 271.3 |
| 56° | 2986.7 | 1256.1 | 291.9 | 246.9 | 294.4 | 376.7 | 378.0 | 321.4 | 272.6 | 257.1 | 257.1 |
| 57.5° | 2832.4 | 1134.0 | 255.9 | 226.3 | 273.9 | 365.1 | 366.4 | 312.4 | 262.3 | 240.4 | 237.9 |
| 60° | 2179.3 | 767.6 | 213.4 | 201.9 | 248.1 | 329.1 | 335.6 | 284.1 | 230.1 | 213.4 | 212.1 |
| 62.5° | 1230.4 | 425.6 | 187.7 | 182.6 | 213.4 | 280.3 | 299.6 | 248.1 | 195.4 | 186.4 | 189.0 |
| 65° | 561.9 | 234.0 | 158.1 | 147.9 | 172.3 | 216.0 | 241.7 | 204.4 | 160.7 | 150.4 | 150.4 |
| 67.5° | 205.7 | 159.4 | 135.0 | 117.0 | 120.9 | 140.1 | 156.9 | 132.4 | 106.7 | 91.3 | 95.1 |
| 70° | 146.6 | 133.7 | 118.3 | 101.6 | 93.9 | 91.3 | 90.0 | 74.6 | 52.7 | 41.1 | 43.7 |
| 72.5° | 118.3 | 110.6 | 99.0 | 86.1 | 73.3 | 61.7 | 52.7 | 38.6 | 24.4 | 16.7 | 15.4 |
| 75° | 84.9 | 81.0 | 72.0 | 61.7 | 51.4 | 43.7 | 36.0 | 24.4 | 12.9 | 6.4 | 6.4 |
| 77.5° | 43.7 | 43.7 | 42.4 | 38.6 | 32.1 | 25.7 | 20.6 | 14.1 | 7.7 | 2.6 | 2.6 |
| 80° | 33.4 | 36.0 | 37.3 | 33.4 | 29.6 | 23.1 | 16.7 | 10.3 | 5.1 | 1.3 | 1.3 |
| 82.5° | 32.1 | 37.3 | 39.9 | 34.7 | 29.6 | 21.9 | 16.7 | 10.3 | 5.1 | 1.3 | 1.3 |
| 85° | 7.7 | 7.7 | 11.6 | 12.9 | 16.7 | 18.0 | 14.1 | 9.0 | 3.9 | 1.3 | 1.3 |
| 87.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 1.3 | 1.3 | 1.3 | 1.3 | 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)