

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: P527853

Luminaire Tested: **GALN-SA2D-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6829 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

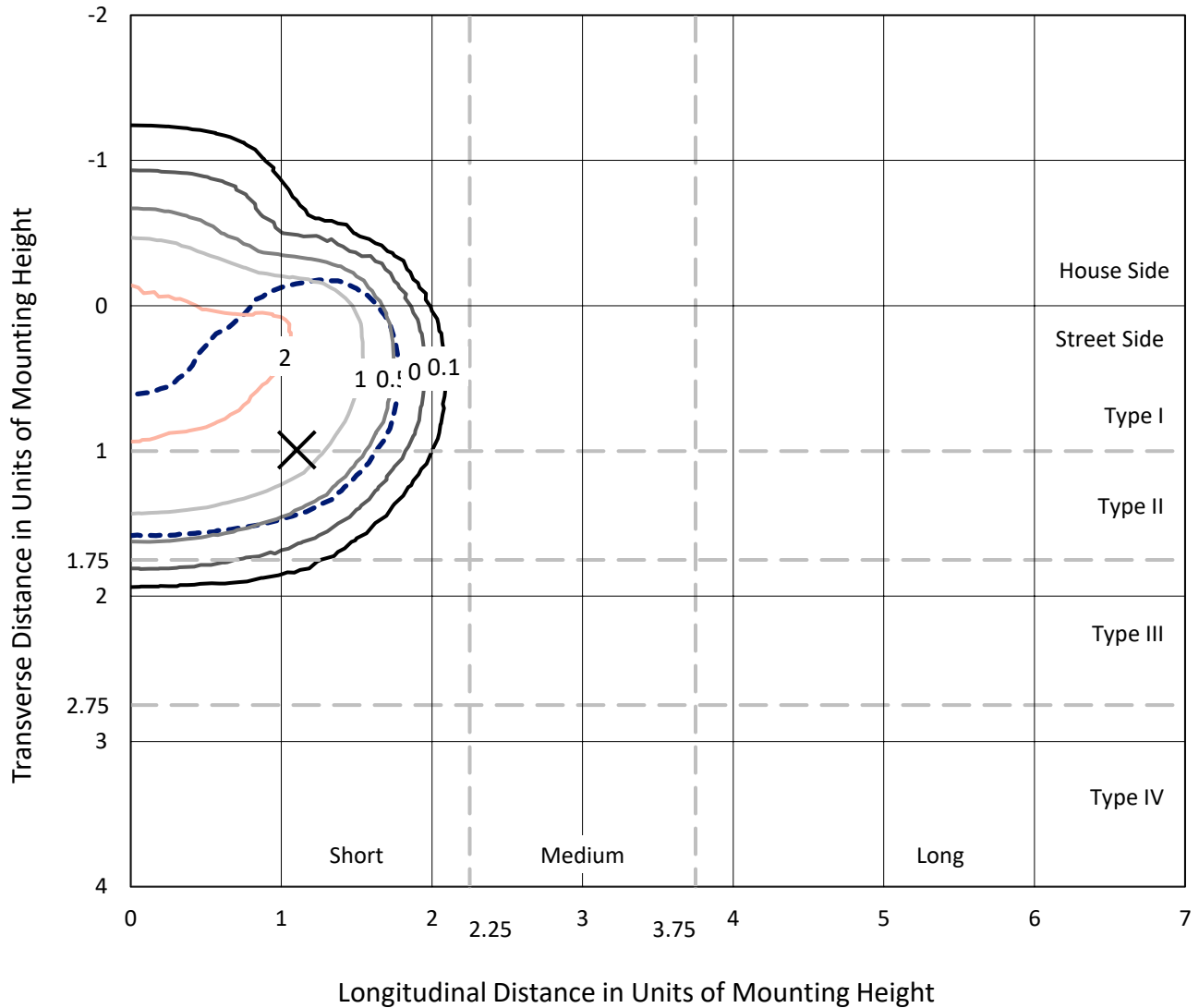
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

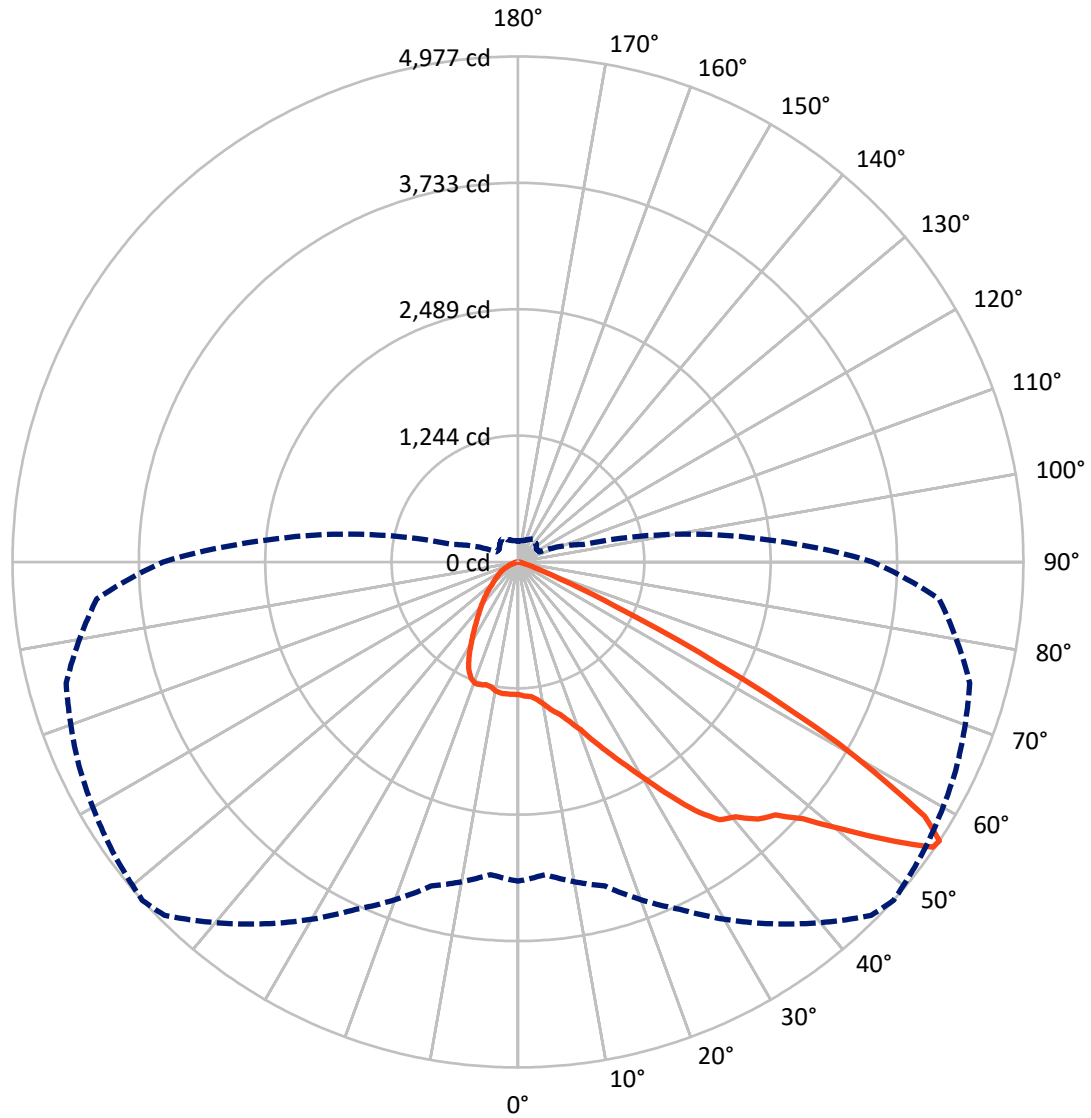
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1485.2 | 0.0 | 1485.2 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 5343.8 | 0.0 | 5343.8 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 6829.0 | 0.0 | 6829.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.1 | 1.9 |
| 10°-20° | 406.1 | 5.9 |
| 20°-30° | 736.5 | 10.8 |
| 30°-40° | 1156.9 | 16.9 |
| 40°-50° | 1687.7 | 24.7 |
| 50°-60° | 2033.4 | 29.8 |
| 60°-70° | 595.3 | 8.7 |
| 70°-80° | 75.5 | 1.1 |
| 80°-90° | 10.6 | 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° | 6829.0 | 100.0 |
| 0°-180° | 6829.0 | 100.0 |

Coefficient of Utilization

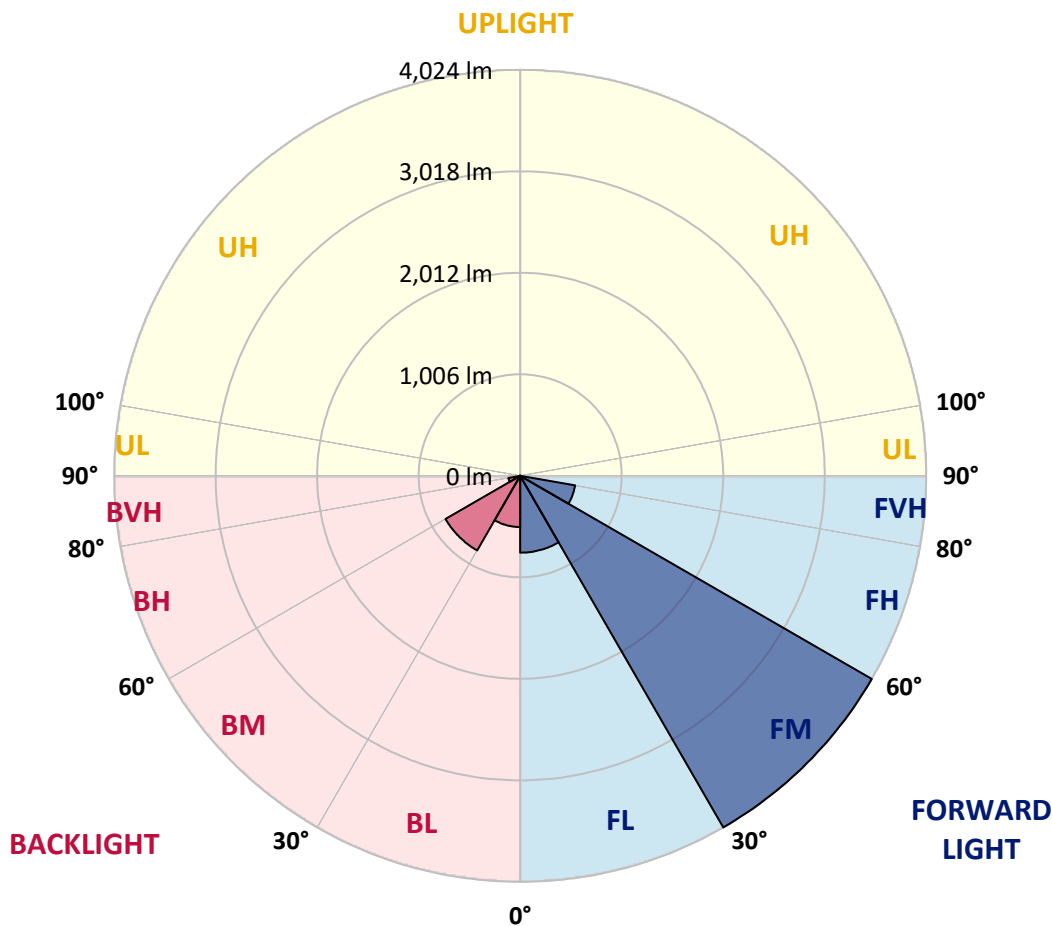


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 762.0 | 11.2 | | | |
| FM (30°-60°) | 4023.7 | 58.9 | | | |
| FH (60°-80°) | 552.9 | 8.1 | | | G0/660 |
| FVH (80°-90°) | 5.3 | 0.1 | | | G0/10 |
| BL (0°-30°) | 507.6 | 7.4 | B2/1000 | | |
| BM (30°-60°) | 854.3 | 12.5 | B1/1000 | | |
| BH (60°-80°) | 118.0 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.3 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 |
| 2.5° | 1328.0 | 1321.7 | 1321.7 | 1311.8 | 1323.0 | 1318.0 | 1321.7 | 1309.3 | 1321.7 | 1303.1 | 1318.0 |
| 5° | 1334.2 | 1335.4 | 1330.5 | 1336.7 | 1336.7 | 1344.1 | 1331.7 | 1342.9 | 1349.1 | 1335.4 | 1329.2 |
| 7.5° | 1366.5 | 1369.0 | 1367.8 | 1362.8 | 1372.7 | 1371.5 | 1370.2 | 1361.5 | 1364.0 | 1359.1 | 1351.6 |
| 10° | 1429.9 | 1428.7 | 1434.9 | 1422.5 | 1415.0 | 1423.7 | 1426.2 | 1412.5 | 1402.6 | 1398.8 | 1375.2 |
| 12.5° | 1521.9 | 1507.0 | 1498.3 | 1485.9 | 1489.6 | 1477.2 | 1499.6 | 1475.9 | 1471.0 | 1448.6 | 1425.0 |
| 15° | 1596.5 | 1594.1 | 1595.3 | 1575.4 | 1553.0 | 1558.0 | 1558.0 | 1545.6 | 1538.1 | 1510.7 | 1477.2 |
| 17.5° | 1749.5 | 1697.3 | 1708.5 | 1683.6 | 1664.9 | 1663.7 | 1652.5 | 1655.0 | 1635.1 | 1577.9 | 1526.9 |
| 20° | 1868.9 | 1846.5 | 1829.1 | 1786.8 | 1758.2 | 1766.9 | 1761.9 | 1749.5 | 1743.3 | 1668.7 | 1596.5 |
| 22.5° | 1975.8 | 1983.2 | 1954.6 | 1943.5 | 1903.7 | 1907.4 | 1917.3 | 1906.2 | 1858.9 | 1781.8 | 1674.9 |
| 25° | 2126.2 | 2117.5 | 2079.0 | 2065.3 | 2028.0 | 2041.7 | 2080.2 | 2071.5 | 2041.7 | 1902.4 | 1735.8 |
| 27.5° | 2304.0 | 2274.2 | 2281.7 | 2219.5 | 2183.4 | 2222.0 | 2268.0 | 2311.5 | 2227.0 | 2044.2 | 1807.9 |
| 30° | 2429.6 | 2398.5 | 2396.1 | 2393.6 | 2384.9 | 2429.6 | 2483.1 | 2522.9 | 2454.5 | 2185.9 | 1927.3 |
| 32.5° | 2491.8 | 2499.3 | 2520.4 | 2512.9 | 2588.8 | 2680.8 | 2736.8 | 2794.0 | 2708.2 | 2417.2 | 2085.2 |
| 35° | 2657.2 | 2609.9 | 2657.2 | 2662.2 | 2740.5 | 2935.7 | 3006.6 | 3143.4 | 3122.2 | 2744.2 | 2277.9 |
| 37.5° | 2754.2 | 2750.4 | 2756.7 | 2803.9 | 2879.7 | 3121.0 | 3221.7 | 3327.4 | 3287.6 | 2940.7 | 2517.9 |
| 40° | 2914.6 | 2924.5 | 2923.3 | 2959.3 | 3042.6 | 3260.2 | 3301.3 | 3387.1 | 3390.8 | 3213.0 | 2871.0 |
| 42.5° | 3172.0 | 3132.2 | 3106.0 | 3143.4 | 3260.2 | 3380.8 | 3462.9 | 3445.5 | 3568.6 | 3543.7 | 3324.9 |
| 45° | 3403.2 | 3426.9 | 3388.3 | 3450.5 | 3492.8 | 3557.4 | 3554.9 | 3592.2 | 3748.9 | 3867.0 | 3666.8 |
| 47.5° | 3619.6 | 3634.5 | 3653.2 | 3695.4 | 3787.4 | 3797.4 | 3776.3 | 3760.1 | 3976.4 | 4098.3 | 3931.7 |
| 50° | 3748.9 | 3762.6 | 3849.6 | 3925.5 | 4097.1 | 4119.4 | 4131.9 | 4090.8 | 4237.6 | 4251.2 | 4181.6 |
| 52.5° | 3714.1 | 3729.0 | 3850.9 | 4100.8 | 4374.3 | 4579.5 | 4542.2 | 4472.6 | 4463.9 | 4517.3 | 4412.9 |
| 55° | 3405.7 | 3392.0 | 3559.9 | 3949.1 | 4461.4 | 4953.8 | 4958.7 | 4885.4 | 4744.9 | 4708.8 | 4378.1 |
| 56° | 3143.4 | 3089.9 | 3303.8 | 3773.8 | 4349.5 | 4921.4 | 4977.4 | 4899.1 | 4767.3 | 4605.6 | 4163.0 |
| 57.5° | 2575.1 | 2626.1 | 2838.7 | 3227.9 | 3962.8 | 4688.9 | 4721.2 | 4702.6 | 4603.1 | 4332.1 | 3663.1 |
| 60° | 1420.0 | 1509.5 | 1697.3 | 2173.5 | 2821.3 | 3598.4 | 3624.6 | 3776.3 | 3794.9 | 3317.4 | 2520.4 |
| 62.5° | 603.1 | 593.1 | 788.3 | 1139.0 | 1606.5 | 2172.2 | 2220.7 | 2376.2 | 2404.8 | 1912.4 | 1264.6 |
| 65° | 245.0 | 258.6 | 356.9 | 573.2 | 849.3 | 989.8 | 1058.1 | 1109.1 | 1203.6 | 789.6 | 466.3 |
| 67.5° | 161.6 | 160.4 | 210.1 | 327.0 | 457.6 | 441.4 | 441.4 | 466.3 | 431.5 | 322.0 | 201.4 |
| 70° | 115.6 | 119.4 | 150.5 | 226.3 | 284.7 | 211.4 | 202.7 | 194.0 | 220.1 | 212.6 | 162.9 |
| 72.5° | 75.8 | 80.8 | 100.7 | 135.5 | 148.0 | 115.6 | 115.6 | 139.3 | 181.5 | 171.6 | 133.0 |
| 75° | 49.7 | 51.0 | 62.2 | 78.3 | 73.4 | 59.7 | 65.9 | 93.3 | 131.8 | 126.8 | 94.5 |
| 77.5° | 33.6 | 34.8 | 42.3 | 51.0 | 41.0 | 33.6 | 36.1 | 47.2 | 64.7 | 64.7 | 49.7 |
| 80° | 12.4 | 13.7 | 17.4 | 16.2 | 18.7 | 23.6 | 26.1 | 32.3 | 38.5 | 38.5 | 33.6 |
| 82.5° | 0.0 | 1.2 | 3.7 | 8.7 | 13.7 | 18.7 | 21.1 | 24.9 | 28.6 | 32.3 | 31.1 |
| 85° | 0.0 | 1.2 | 3.7 | 6.2 | 9.9 | 11.2 | 12.4 | 8.7 | 7.5 | 7.5 | 6.2 |
| 87.5° | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 | 1.2 | 1.2 |
| 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° | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 | 1304.3 |
| 2.5° | 1304.3 | 1303.1 | 1303.1 | 1299.4 | 1306.8 | 1303.1 | 1305.6 | 1304.3 | 1288.2 | 1300.6 | 1291.9 |
| 5° | 1318.0 | 1326.7 | 1313.0 | 1310.6 | 1300.6 | 1304.3 | 1304.3 | 1291.9 | 1303.1 | 1301.9 | 1299.4 |
| 7.5° | 1352.8 | 1337.9 | 1323.0 | 1308.1 | 1305.6 | 1301.9 | 1288.2 | 1283.2 | 1291.9 | 1282.0 | 1296.9 |
| 10° | 1367.8 | 1370.2 | 1347.9 | 1328.0 | 1309.3 | 1283.2 | 1264.6 | 1253.4 | 1239.7 | 1254.6 | 1263.3 |
| 12.5° | 1436.1 | 1411.3 | 1372.7 | 1341.6 | 1278.2 | 1252.1 | 1233.5 | 1228.5 | 1252.1 | 1257.1 | 1248.4 |
| 15° | 1459.8 | 1456.0 | 1406.3 | 1336.7 | 1270.8 | 1239.7 | 1243.4 | 1233.5 | 1236.0 | 1223.5 | 1226.0 |
| 17.5° | 1508.3 | 1466.0 | 1407.5 | 1320.5 | 1269.5 | 1262.1 | 1239.7 | 1199.9 | 1177.5 | 1167.6 | 1176.3 |
| 20° | 1561.7 | 1520.7 | 1436.1 | 1326.7 | 1280.7 | 1260.8 | 1187.5 | 1139.0 | 1093.0 | 1068.1 | 1069.3 |
| 22.5° | 1609.0 | 1558.0 | 1423.7 | 1329.2 | 1290.7 | 1208.6 | 1120.3 | 1024.6 | 967.4 | 928.8 | 930.1 |
| 25° | 1666.2 | 1594.1 | 1428.7 | 1334.2 | 1264.6 | 1125.3 | 998.5 | 905.2 | 836.8 | 810.7 | 819.4 |
| 27.5° | 1698.5 | 1616.4 | 1456.0 | 1345.4 | 1196.2 | 1007.2 | 870.4 | 783.4 | 743.6 | 731.1 | 729.9 |
| 30° | 1795.5 | 1666.2 | 1489.6 | 1323.0 | 1081.8 | 880.3 | 753.5 | 700.0 | 661.5 | 650.3 | 652.8 |
| 32.5° | 1939.7 | 1756.9 | 1533.1 | 1264.6 | 964.9 | 767.2 | 677.7 | 637.9 | 601.8 | 580.7 | 578.2 |
| 35° | 2060.3 | 1912.4 | 1579.1 | 1173.8 | 829.4 | 680.1 | 624.2 | 574.5 | 519.7 | 496.1 | 489.9 |
| 37.5° | 2290.4 | 2087.7 | 1569.2 | 1037.0 | 700.0 | 615.5 | 567.0 | 506.1 | 458.8 | 426.5 | 422.8 |
| 40° | 2596.2 | 2292.9 | 1520.7 | 870.4 | 604.3 | 558.3 | 506.1 | 447.6 | 389.2 | 361.8 | 359.3 |
| 42.5° | 2968.0 | 2544.0 | 1432.4 | 701.3 | 508.6 | 501.1 | 453.8 | 386.7 | 334.5 | 314.6 | 315.8 |
| 45° | 3270.2 | 2759.1 | 1342.9 | 563.3 | 437.7 | 445.1 | 404.1 | 340.7 | 304.6 | 288.5 | 288.5 |
| 47.5° | 3538.8 | 2904.6 | 1245.9 | 465.0 | 371.8 | 389.2 | 353.1 | 315.8 | 284.7 | 272.3 | 269.8 |
| 50° | 3797.4 | 3052.6 | 1148.9 | 376.8 | 317.1 | 334.5 | 330.7 | 300.9 | 276.0 | 261.1 | 262.4 |
| 52.5° | 3959.0 | 3076.2 | 1025.8 | 308.4 | 277.3 | 297.2 | 309.6 | 282.3 | 254.9 | 246.2 | 243.7 |
| 55° | 3761.3 | 2771.6 | 795.8 | 253.7 | 235.0 | 261.1 | 284.7 | 253.7 | 232.5 | 217.6 | 216.4 |
| 56° | 3495.2 | 2478.1 | 665.2 | 233.8 | 222.6 | 251.2 | 276.0 | 242.5 | 218.8 | 210.1 | 203.9 |
| 57.5° | 2959.3 | 2028.0 | 491.1 | 207.7 | 206.4 | 233.8 | 262.4 | 231.3 | 203.9 | 196.5 | 196.5 |
| 60° | 1845.2 | 1141.5 | 297.2 | 174.1 | 179.1 | 207.7 | 236.2 | 206.4 | 181.5 | 181.5 | 185.3 |
| 62.5° | 840.5 | 475.0 | 180.3 | 148.0 | 154.2 | 179.1 | 210.1 | 186.5 | 172.8 | 186.5 | 189.0 |
| 65° | 286.0 | 205.2 | 130.6 | 118.1 | 121.9 | 148.0 | 180.3 | 189.0 | 187.8 | 196.5 | 201.4 |
| 67.5° | 160.4 | 131.8 | 109.4 | 98.2 | 95.7 | 109.4 | 148.0 | 189.0 | 181.5 | 177.8 | 180.3 |
| 70° | 135.5 | 111.9 | 97.0 | 87.0 | 83.3 | 88.3 | 114.4 | 143.0 | 128.1 | 124.3 | 121.9 |
| 72.5° | 109.4 | 93.3 | 84.6 | 78.3 | 67.1 | 57.2 | 52.2 | 54.7 | 60.9 | 64.7 | 70.9 |
| 75° | 77.1 | 70.9 | 70.9 | 63.4 | 48.5 | 36.1 | 28.6 | 23.6 | 16.2 | 11.2 | 12.4 |
| 77.5° | 43.5 | 43.5 | 44.8 | 38.5 | 31.1 | 23.6 | 17.4 | 12.4 | 6.2 | 2.5 | 1.2 |
| 80° | 29.8 | 32.3 | 34.8 | 31.1 | 26.1 | 21.1 | 14.9 | 8.7 | 3.7 | 0.0 | 0.0 |
| 82.5° | 29.8 | 33.6 | 36.1 | 31.1 | 26.1 | 19.9 | 14.9 | 8.7 | 3.7 | 1.2 | 0.0 |
| 85° | 6.2 | 7.5 | 8.7 | 9.9 | 14.9 | 14.9 | 11.2 | 7.5 | 3.7 | 1.2 | 0.0 |
| 87.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 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)