Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P947980

Luminaire Tested: **GALN-SB3A-935-U-5MQ**

Issue Date: 1/21/2025

Report Generated By 670246001

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**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P947980 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 1/21/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GALN-SB3A-935-U-5MQ |
| Description: | GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE |
| | (3) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 9805 lumens |
| Efficiency: | N/A |
| Efficacy: | 115.8 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 1' x H: 0') |
| IES Classification: | Type V - Short |
| BUG Rating: | B3 - U0 - G2 |

| | |
|---|---|
| Input Watts (W): | 84.7 |
| 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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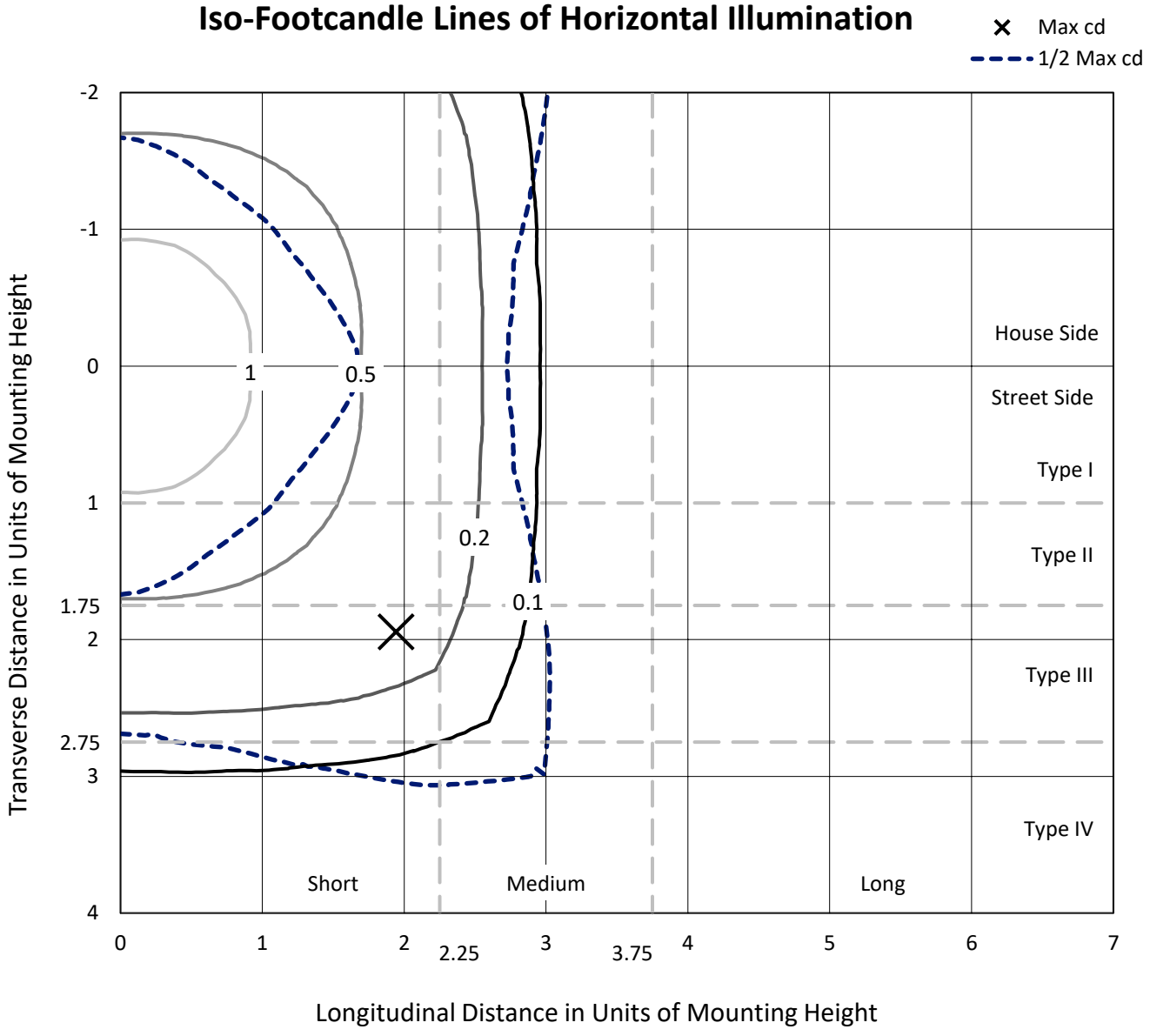
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type V - Short - N/A

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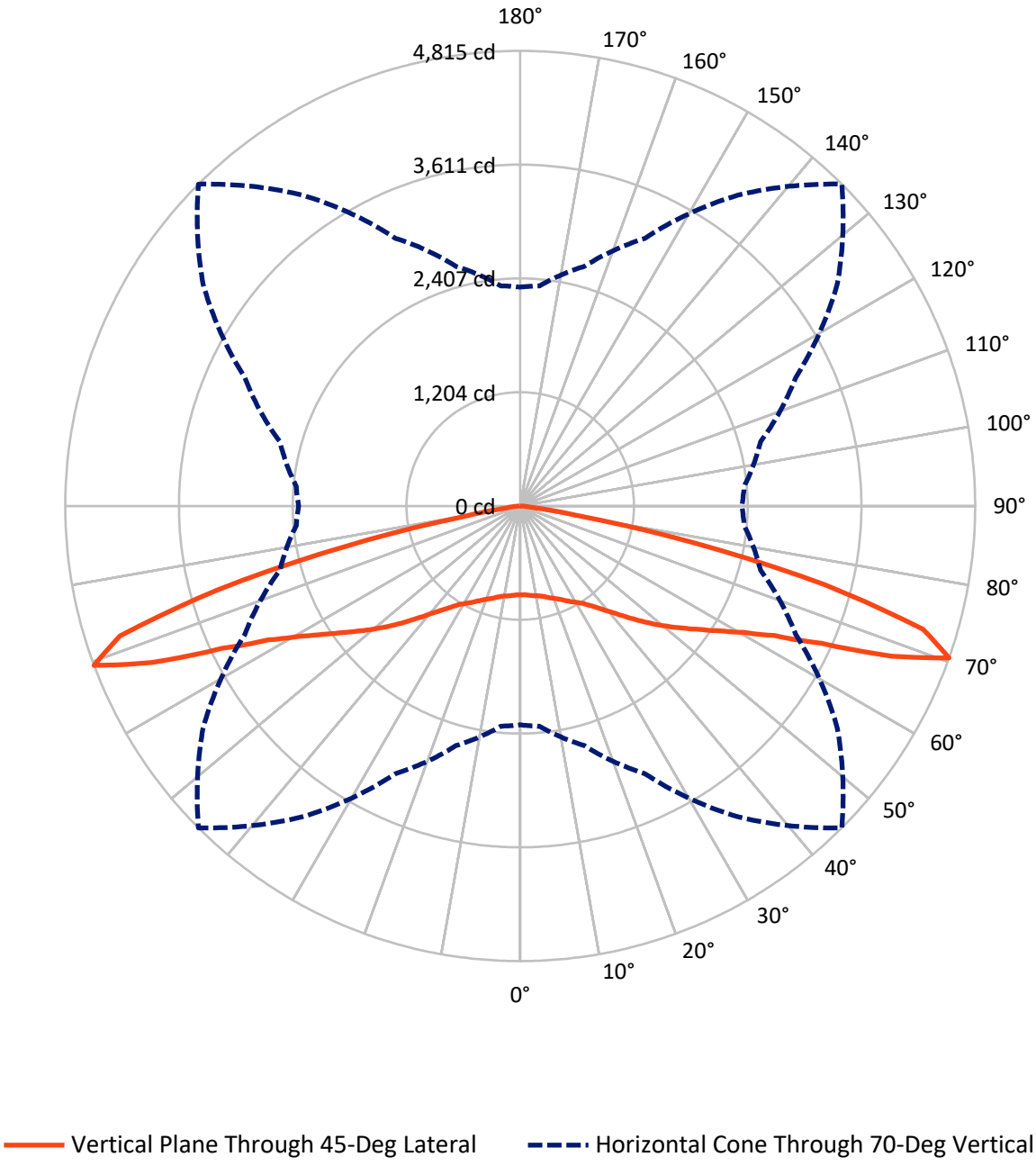
## Luminous Intensity Polar Plot



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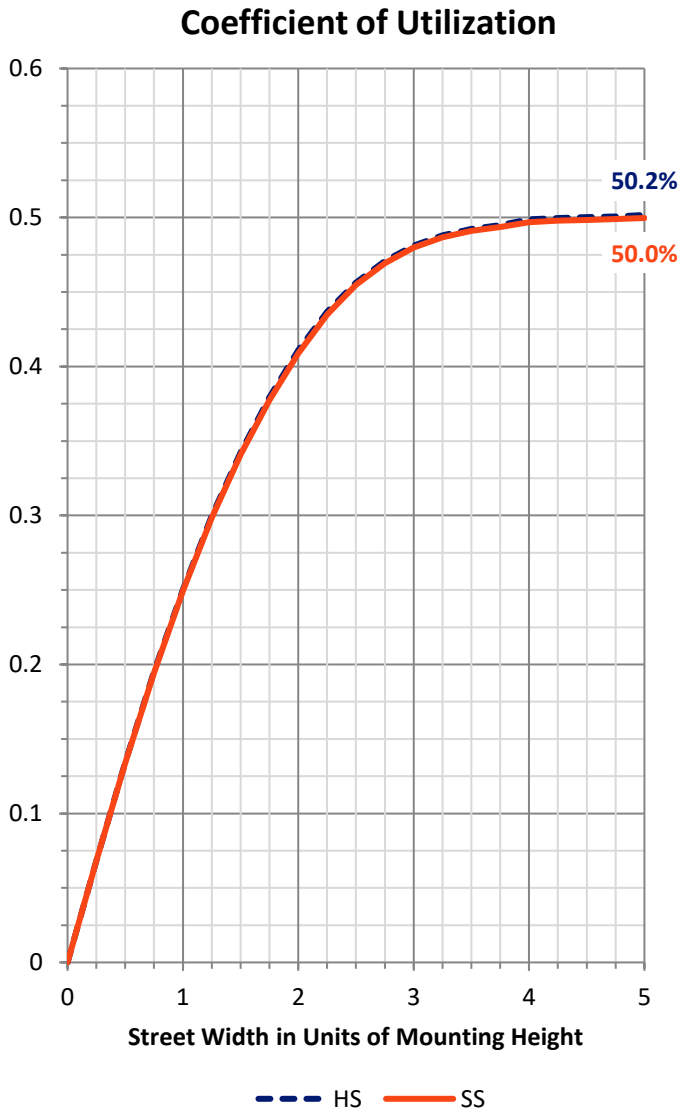
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 4902.5 | 0.0 | 4902.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| **Street Side** | Lumens | 4902.5 | 0.0 | 4902.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| **Total** | Lumens | 9805.0 | 0.0 | 9805.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 91.2 | 0.9 |
| 10°-20° | 282.9 | 2.9 |
| 20°-30° | 505.6 | 5.2 |
| 30°-40° | 819.7 | 8.4 |
| 40°-50° | 1335.1 | 13.6 |
| 50°-60° | 2035.5 | 20.8 |
| 60°-70° | 3028.2 | 30.9 |
| 70°-80° | 1650.5 | 16.8 |
| 80°-90° | 56.2 | 0.6 |
| 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° | 9805.0 | 100.0 |
| 0°-180° | 9805.0 | 100.0 |



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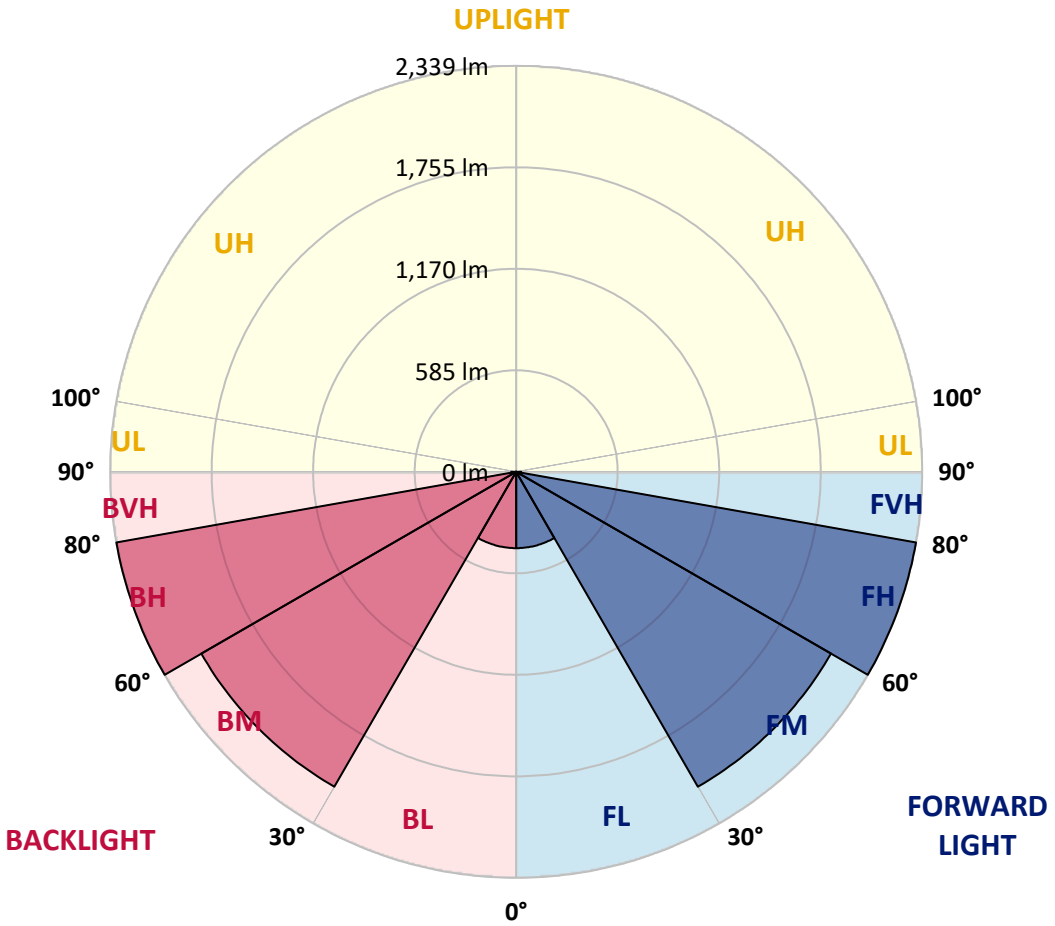
**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 439.9 | 4.5 | | | |
| FM | (30°-60°) | 2095.1 | 21.4 | | | |
| FH | (60°-80°) | 2339.4 | 23.9 | | | G2/5000 |
| FVH | (80°-90°) | 28.1 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 439.9 | 4.5 | B1/500 | | |
| BM | (30°-60°) | 2095.1 | 21.4 | B2/2500 | | |
| BH | (60°-80°) | 2339.4 | 23.9 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 28.1 | 0.3 | | | 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 V Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 939.2 | 939.2 | 939.2 | 939.2 | 939.2 | 939.2 | 939.2 | 939.2 | 939.2 | 939.2 |
| 2.5° | 943.6 | 944.6 | 942.7 | 941.7 | 940.7 | 939.2 | 939.7 | 942.2 | 944.1 | 943.6 |
| 5° | 951.5 | 952.5 | 951.0 | 950.5 | 948.6 | 948.1 | 948.1 | 950.5 | 952.0 | 951.0 |
| 7.5° | 960.4 | 961.9 | 959.4 | 958.9 | 957.9 | 956.9 | 956.4 | 958.9 | 960.4 | 960.4 |
| 10° | 968.8 | 970.2 | 968.3 | 966.8 | 965.8 | 965.8 | 964.8 | 966.8 | 969.2 | 968.8 |
| 12.5° | 977.6 | 978.6 | 976.6 | 975.6 | 975.6 | 977.1 | 975.6 | 976.6 | 978.6 | 977.6 |
| 15° | 988.4 | 988.9 | 988.4 | 989.9 | 992.4 | 997.3 | 992.9 | 991.9 | 992.9 | 990.4 |
| 17.5° | 1003.2 | 1004.2 | 1006.2 | 1009.6 | 1013.1 | 1021.9 | 1014.0 | 1011.6 | 1011.6 | 1006.7 |
| 20° | 1021.4 | 1022.9 | 1025.9 | 1031.8 | 1036.2 | 1044.6 | 1036.7 | 1033.2 | 1031.8 | 1025.4 |
| 22.5° | 1040.6 | 1043.1 | 1047.5 | 1055.4 | 1063.3 | 1071.1 | 1063.3 | 1057.4 | 1052.9 | 1044.6 |
| 25° | 1062.8 | 1065.7 | 1072.6 | 1085.4 | 1096.2 | 1107.6 | 1098.2 | 1086.4 | 1077.5 | 1065.7 |
| 27.5° | 1094.3 | 1097.7 | 1106.1 | 1121.8 | 1135.6 | 1145.5 | 1136.6 | 1121.4 | 1109.0 | 1094.8 |
| 30° | 1138.6 | 1142.0 | 1151.9 | 1168.6 | 1178.0 | 1184.4 | 1178.5 | 1166.6 | 1151.9 | 1135.6 |
| 32.5° | 1195.7 | 1200.1 | 1210.9 | 1226.7 | 1228.7 | 1229.6 | 1227.7 | 1221.8 | 1210.9 | 1191.3 |
| 35° | 1268.0 | 1273.0 | 1285.3 | 1298.1 | 1296.1 | 1298.1 | 1295.1 | 1293.1 | 1285.3 | 1262.6 |
| 37.5° | 1356.6 | 1362.6 | 1375.4 | 1385.2 | 1380.3 | 1377.8 | 1378.3 | 1378.8 | 1374.4 | 1349.3 |
| 40° | 1459.5 | 1467.4 | 1476.8 | 1487.1 | 1478.7 | 1471.3 | 1476.3 | 1480.2 | 1476.3 | 1450.7 |
| 42.5° | 1565.4 | 1576.7 | 1586.5 | 1601.3 | 1594.4 | 1585.1 | 1591.9 | 1596.4 | 1588.0 | 1560.4 |
| 45° | 1683.0 | 1693.8 | 1706.6 | 1728.8 | 1723.9 | 1714.0 | 1723.9 | 1724.9 | 1710.6 | 1678.1 |
| 47.5° | 1804.6 | 1815.9 | 1835.1 | 1864.7 | 1862.7 | 1851.9 | 1864.7 | 1857.8 | 1839.5 | 1800.7 |
| 50° | 1919.8 | 1935.5 | 1965.1 | 2006.4 | 2010.4 | 1997.1 | 2014.3 | 2001.0 | 1970.5 | 1921.8 |
| 52.5° | 2028.1 | 2044.8 | 2091.6 | 2147.7 | 2162.0 | 2144.7 | 2167.9 | 2144.7 | 2099.0 | 2036.4 |
| 55° | 2141.8 | 2160.5 | 2216.1 | 2289.5 | 2318.0 | 2305.2 | 2326.9 | 2291.9 | 2226.9 | 2151.1 |
| 57.5° | 2275.7 | 2287.0 | 2353.5 | 2440.6 | 2488.8 | 2491.8 | 2501.6 | 2442.6 | 2363.8 | 2277.7 |
| 60° | 2420.9 | 2436.6 | 2509.0 | 2613.4 | 2689.7 | 2714.3 | 2703.9 | 2616.3 | 2524.8 | 2425.8 |
| 62.5° | 2607.0 | 2624.2 | 2710.8 | 2835.9 | 2956.5 | 3017.5 | 2977.1 | 2850.1 | 2736.9 | 2618.3 |
| 65° | 2761.0 | 2780.2 | 2936.8 | 3159.8 | 3379.3 | 3501.9 | 3400.5 | 3166.7 | 2962.9 | 2795.5 |
| 67.5° | 2649.3 | 2672.9 | 2918.6 | 3328.1 | 3874.0 | 4239.8 | 3892.7 | 3378.3 | 2979.1 | 2752.2 |
| 70° | 2315.6 | 2337.7 | 2624.2 | 3124.8 | 4013.3 | 4814.7 | 4097.0 | 3216.9 | 2633.6 | 2379.5 |
| 72.5° | 1537.3 | 1608.7 | 1898.6 | 2499.2 | 3583.6 | 4455.4 | 3619.0 | 2448.5 | 1761.3 | 1533.9 |
| 75° | 510.0 | 567.1 | 765.0 | 1295.6 | 2400.2 | 3332.1 | 2285.0 | 1146.5 | 606.0 | 436.1 |
| 77.5° | 128.5 | 148.2 | 204.3 | 370.7 | 957.4 | 1897.1 | 861.9 | 302.7 | 164.9 | 115.2 |
| 80° | 62.5 | 68.9 | 98.5 | 123.6 | 239.7 | 603.0 | 225.0 | 116.2 | 77.8 | 60.1 |
| 82.5° | 34.5 | 34.9 | 55.6 | 69.9 | 89.1 | 156.0 | 92.5 | 67.9 | 44.8 | 36.4 |
| 85° | 21.2 | 20.7 | 29.5 | 37.4 | 37.4 | 55.6 | 44.3 | 37.4 | 25.6 | 22.6 |
| 87.5° | 8.4 | 8.4 | 10.8 | 11.8 | 10.3 | 14.3 | 11.3 | 12.3 | 9.8 | 9.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

Scaled Data Report

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| 90° |
|---|
| 939.2 |
| 944.1 |
| 951.5 |
| 960.4 |
| 968.8 |
| 977.1 |
| 990.4 |
| 1006.7 |
| 1025.4 |
| 1044.1 |
| 1065.2 |
| 1094.3 |
| 1135.6 |
| 1191.7 |
| 1262.6 |
| 1349.3 |
| 1450.7 |
| 1562.4 |
| 1681.5 |
| 1798.2 |
| 1920.8 |
| 2030.5 |
| 2140.8 |
| 2265.8 |
| 2410.1 |
| 2597.6 |
| 2767.9 |
| 2718.2 |
| *2345.6* |
| 1484.1 |
| 412.5 |
| 102.9 |
| 55.1 |
| 36.4 |
| 23.6 |
| 9.8 |
| 0.0 |

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