

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: P947834

Luminaire Tested: **GALN-SB3A-827-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3A-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

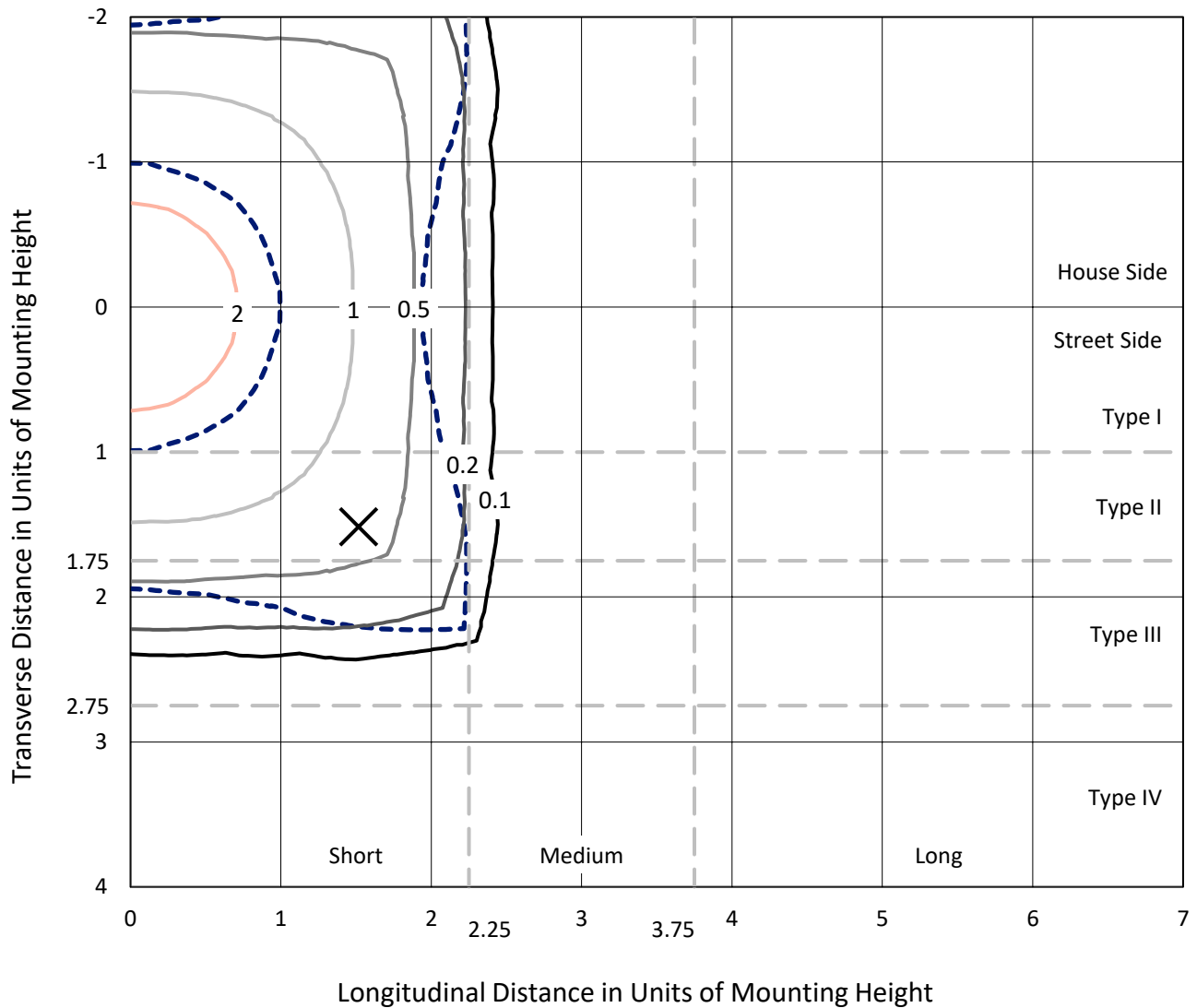
Lumens per Lamp: N/A  
Luminaire Lumens: 12264 lumens  
Efficiency: N/A  
Efficacy: 144.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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



REPORT NUMBER: P947834  
 CATALOG NUMBER: GALN-SB3A-827-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

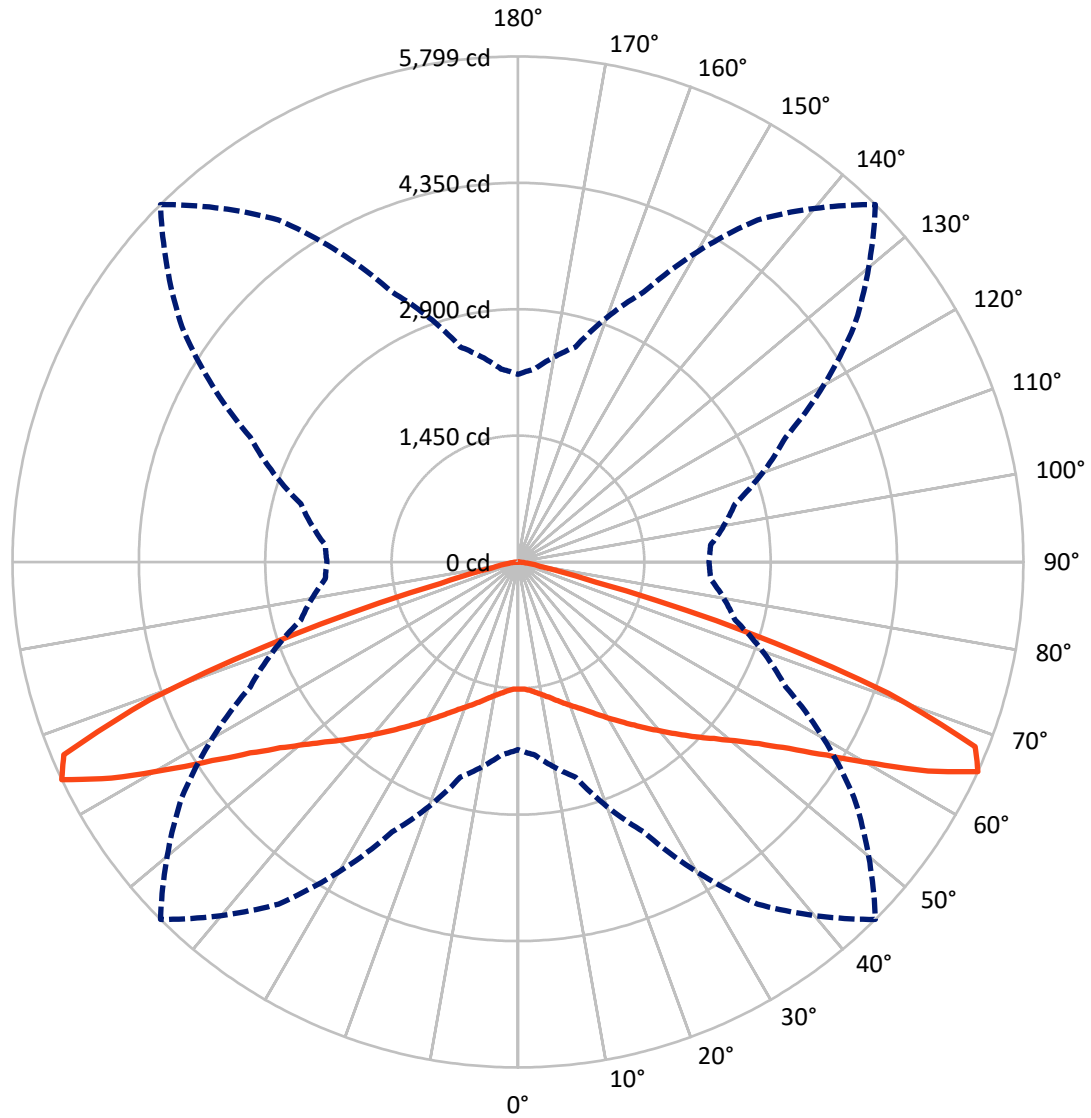
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - N/A

REPORT NUMBER: P947834  
CATALOG NUMBER: GALN-SB3A-827-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P947834

CATALOG NUMBER: GALN-SB3A-827-U-5NQ

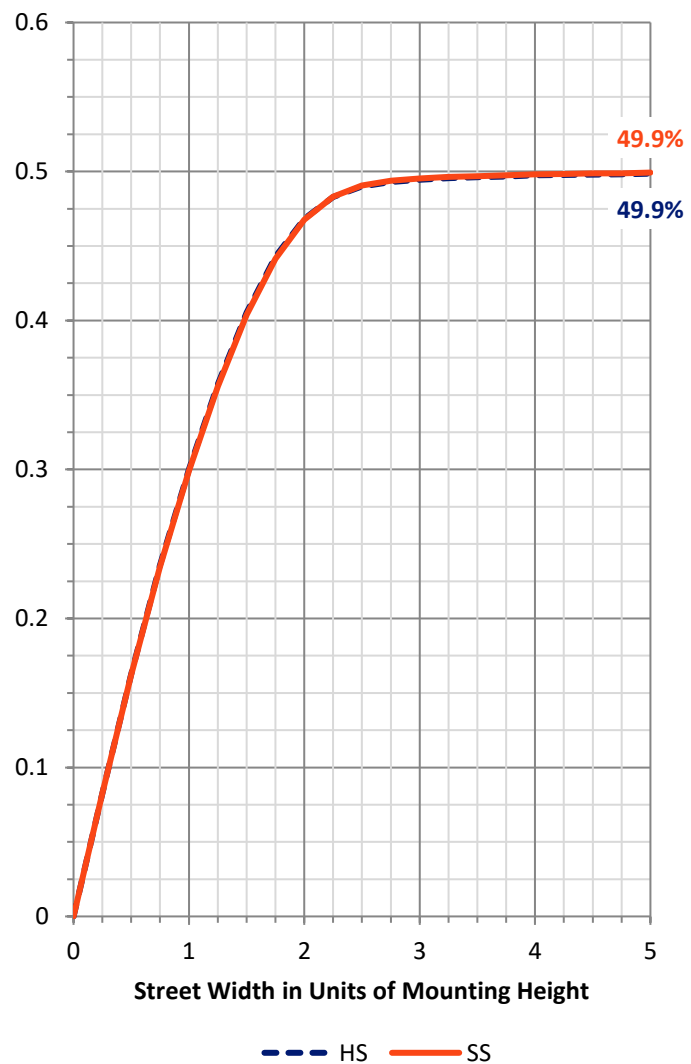
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6132.0   | 0.0    | 6132.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6132.0   | 0.0    | 6132.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12264.0  | 0.0    | 12264.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 144.0   | 1.2       |
| 10°-20°   | 470.0   | 3.8       |
| 20°-30°   | 887.5   | 7.2       |
| 30°-40°   | 1453.2  | 11.8      |
| 40°-50°   | 2253.2  | 18.4      |
| 50°-60°   | 3328.4  | 27.1      |
| 60°-70°   | 3168.3  | 25.8      |
| 70°-80°   | 511.3   | 4.2       |
| 80°-90°   | 48.2    | 0.4       |
| 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°    | 12264.0 | 100.0     |
| 0°-180°   | 12264.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P947834

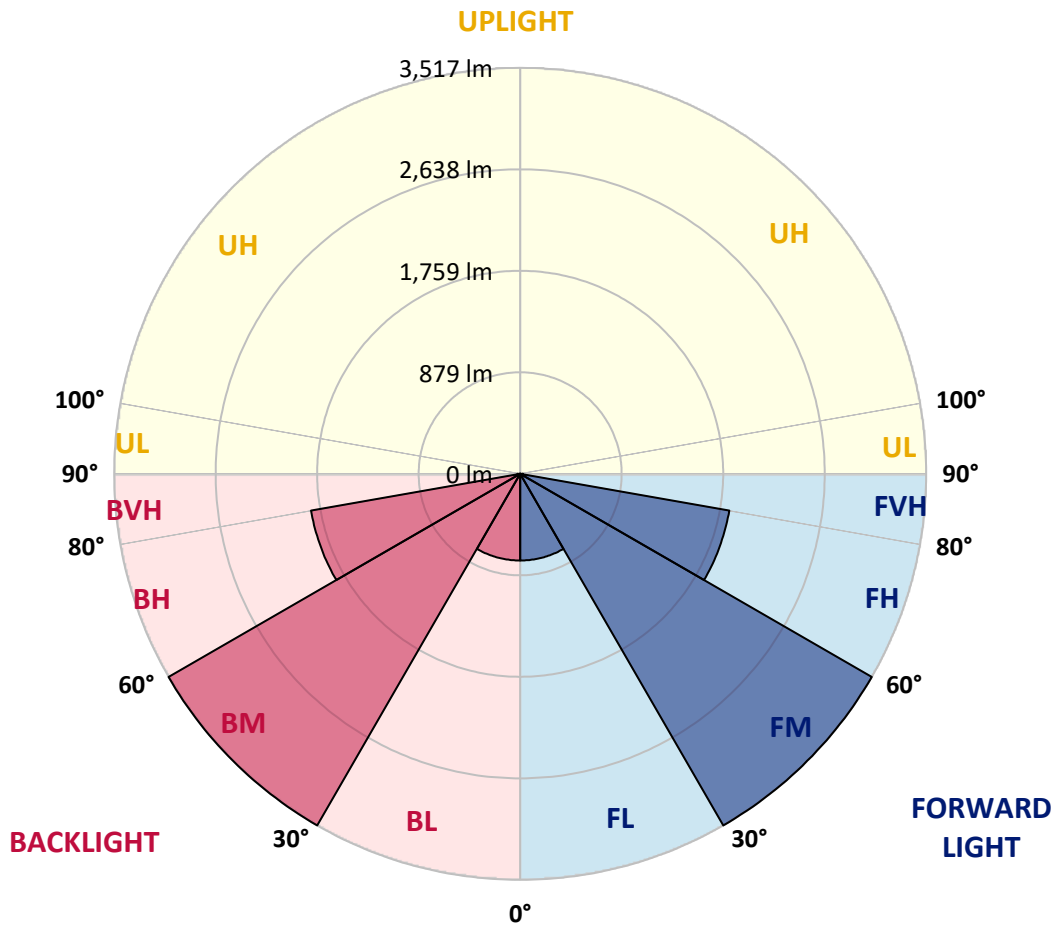
CATALOG NUMBER: GALN-SB3A-827-U-5NQ

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 750.8  | 6.1       |                         |      |         |
| FM (30°-60°)   | 3517.4 | 28.7      |                         |      |         |
| FH (60°-80°)   | 1839.8 | 15.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 24.1   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 750.8  | 6.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 3517.4 | 28.7      | B3/5000                 |      |         |
| BH (60°-80°)   | 1839.8 | 15.0      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 24.1   | 0.2       |                         |      | 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



REPORT NUMBER: P947834

CATALOG NUMBER: GALN-SB3A-827-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1459.5 | 1459.5 | 1459.5 | 1459.5 | 1459.5 | 1459.5 | 1459.5 | 1459.5 | 1459.5 | 1459.5 |
| 2.5°  | 1469.4 | 1464.5 | 1468.2 | 1465.1 | 1462.6 | 1460.2 | 1461.4 | 1465.7 | 1467.5 | 1468.2 |
| 5°    | 1489.1 | 1484.8 | 1486.6 | 1486.6 | 1482.3 | 1481.1 | 1481.7 | 1484.8 | 1488.5 | 1488.5 |
| 7.5°  | 1521.1 | 1516.8 | 1521.1 | 1518.6 | 1514.9 | 1513.7 | 1513.1 | 1515.5 | 1521.1 | 1521.1 |
| 10°   | 1559.8 | 1554.9 | 1557.4 | 1556.1 | 1551.8 | 1550.0 | 1549.4 | 1553.1 | 1558.0 | 1557.4 |
| 12.5° | 1602.3 | 1596.8 | 1599.8 | 1596.1 | 1594.9 | 1593.1 | 1593.1 | 1592.4 | 1595.5 | 1593.1 |
| 15°   | 1649.7 | 1646.0 | 1647.2 | 1644.7 | 1646.6 | 1645.4 | 1640.4 | 1638.0 | 1639.2 | 1635.5 |
| 17.5° | 1705.7 | 1697.1 | 1701.4 | 1700.1 | 1700.1 | 1702.6 | 1694.6 | 1691.5 | 1694.0 | 1690.3 |
| 20°   | 1770.3 | 1761.7 | 1763.5 | 1761.0 | 1758.0 | 1760.4 | 1750.6 | 1753.0 | 1754.9 | 1752.4 |
| 22.5° | 1841.0 | 1830.0 | 1829.3 | 1830.6 | 1823.8 | 1824.4 | 1817.7 | 1823.8 | 1827.5 | 1820.7 |
| 25°   | 1913.6 | 1902.0 | 1910.0 | 1906.9 | 1898.3 | 1900.1 | 1895.2 | 1901.3 | 1904.4 | 1895.8 |
| 27.5° | 1990.6 | 1982.6 | 1989.9 | 1991.8 | 1981.3 | 1988.7 | 1981.3 | 1986.9 | 1989.9 | 1977.0 |
| 30°   | 2080.4 | 2072.4 | 2079.2 | 2084.1 | 2071.8 | 2083.5 | 2077.3 | 2081.0 | 2081.6 | 2066.2 |
| 32.5° | 2178.2 | 2165.9 | 2183.2 | 2185.6 | 2172.1 | 2186.2 | 2178.2 | 2183.2 | 2186.2 | 2165.3 |
| 35°   | 2297.6 | 2282.2 | 2301.9 | 2298.8 | 2287.1 | 2298.8 | 2291.5 | 2298.8 | 2306.2 | 2281.0 |
| 37.5° | 2426.2 | 2410.2 | 2431.1 | 2425.6 | 2414.5 | 2422.5 | 2418.2 | 2423.1 | 2434.8 | 2407.7 |
| 40°   | 2567.7 | 2548.0 | 2576.3 | 2566.5 | 2556.0 | 2554.8 | 2557.3 | 2560.3 | 2575.7 | 2545.6 |
| 42.5° | 2719.1 | 2698.2 | 2740.6 | 2725.3 | 2710.5 | 2700.6 | 2708.6 | 2714.8 | 2729.6 | 2695.7 |
| 45°   | 2892.0 | 2868.0 | 2923.4 | 2904.9 | 2881.5 | 2861.2 | 2874.2 | 2883.4 | 2904.9 | 2864.3 |
| 47.5° | 3082.8 | 3055.7 | 3114.7 | 3109.2 | 3071.1 | 3026.8 | 3056.3 | 3082.8 | 3098.8 | 3049.5 |
| 50°   | 3269.2 | 3248.3 | 3325.8 | 3332.6 | 3285.8 | 3223.7 | 3264.9 | 3304.9 | 3309.2 | 3244.6 |
| 52.5° | 3443.9 | 3423.0 | 3535.6 | 3578.1 | 3536.2 | 3462.4 | 3506.1 | 3546.7 | 3514.1 | 3430.4 |
| 55°   | 3583.6 | 3566.4 | 3709.8 | 3819.3 | 3833.4 | 3772.5 | 3798.4 | 3797.1 | 3690.1 | 3561.5 |
| 57.5° | 3617.5 | 3615.0 | 3795.9 | 4027.9 | 4175.6 | 4182.9 | 4131.9 | 4001.4 | 3770.7 | 3597.8 |
| 60°   | 3463.6 | 3479.0 | 3727.6 | 4136.8 | 4530.6 | 4694.3 | 4473.4 | 4101.1 | 3679.0 | 3439.0 |
| 62.5° | 3003.4 | 3044.0 | 3343.6 | 4003.9 | 4817.3 | 5282.5 | 4747.2 | 3949.7 | 3302.4 | 2989.2 |
| 65°   | 2152.4 | 2223.2 | 2554.2 | 3416.9 | 4791.5 | 5799.4 | 4707.8 | 3389.2 | 2578.8 | 2217.6 |
| 67.5° | 976.5  | 1048.5 | 1329.7 | 2339.4 | 4165.1 | 5659.1 | 4155.3 | 2364.1 | 1396.2 | 1052.2 |
| 70°   | 353.8  | 366.1  | 456.6  | 936.5  | 2661.9 | 4509.1 | 2775.7 | 943.3  | 485.5  | 390.1  |
| 72.5° | 214.1  | 216.0  | 235.1  | 335.3  | 924.8  | 2737.6 | 964.2  | 346.4  | 240.0  | 212.9  |
| 75°   | 136.0  | 134.8  | 167.4  | 204.9  | 328.0  | 923.6  | 344.0  | 204.9  | 166.8  | 152.0  |
| 77.5° | 97.8   | 100.9  | 120.0  | 153.2  | 206.7  | 313.2  | 203.1  | 146.4  | 120.0  | 98.5   |
| 80°   | 73.2   | 75.1   | 87.4   | 119.4  | 145.2  | 195.1  | 129.2  | 108.3  | 90.5   | 61.5   |
| 82.5° | 52.9   | 52.9   | 57.2   | 86.8   | 88.6   | 105.2  | 70.1   | 76.3   | 59.7   | 43.7   |
| 85°   | 31.4   | 30.8   | 35.7   | 51.7   | 46.1   | 38.8   | 32.0   | 46.8   | 37.5   | 27.1   |
| 87.5° | 11.1   | 11.7   | 11.1   | 14.8   | 12.3   | 10.5   | 9.8    | 12.9   | 10.5   | 9.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END C

| 90°    |
|--------|
| 1459.5 |
| 1468.2 |
| 1488.5 |
| 1519.2 |
| 1556.1 |
| 1594.3 |
| 1636.1 |
| 1693.4 |
| 1758.0 |
| 1827.5 |
| 1905.6 |
| 1986.9 |
| 2075.5 |
| 2179.5 |
| 2296.4 |
| 2424.4 |
| 2555.4 |
| 2713.6 |
| 2885.2 |
| 3066.1 |
| 3252.6 |
| 3432.9 |
| 3565.8 |
| 3586.7 |
| 3410.7 |
| 2970.8 |
| 2191.2 |
| 1036.8 |
| 385.2  |
| 216.6  |
| 153.2  |
| 100.3  |
| 63.4   |
| 43.7   |
| 26.5   |
| 8.6    |
| 0.0    |

OF REPORT)