

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: STREETWORKS

Report Number: P947182

Luminaire Tested: **GLAN-SB2C-840-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947182  
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: STREETWORKS  
Catalog Number: GLAN-SB2C-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15003 lumens  
Efficiency: N/A  
Efficacy: 148.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 100.9  
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



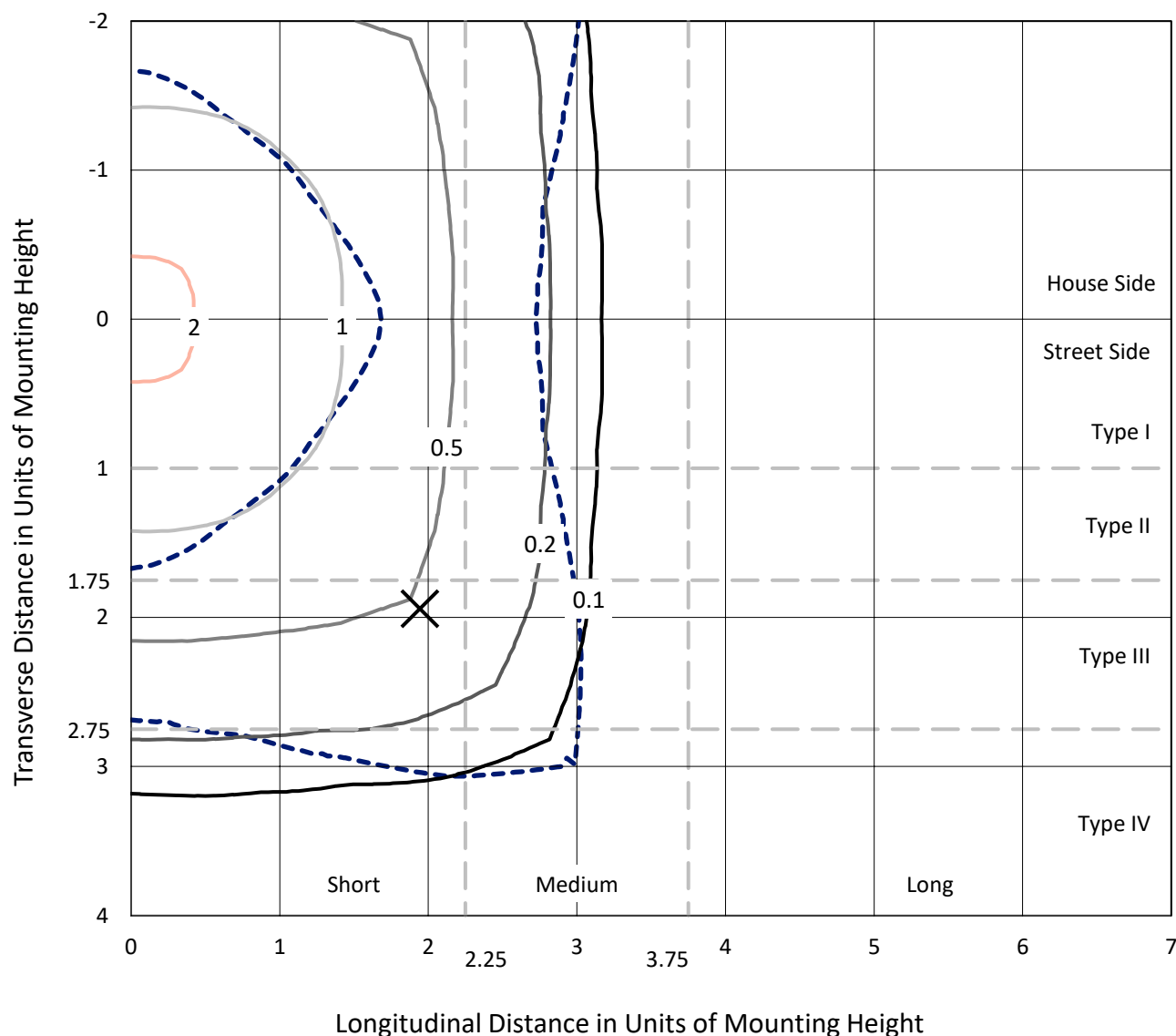
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

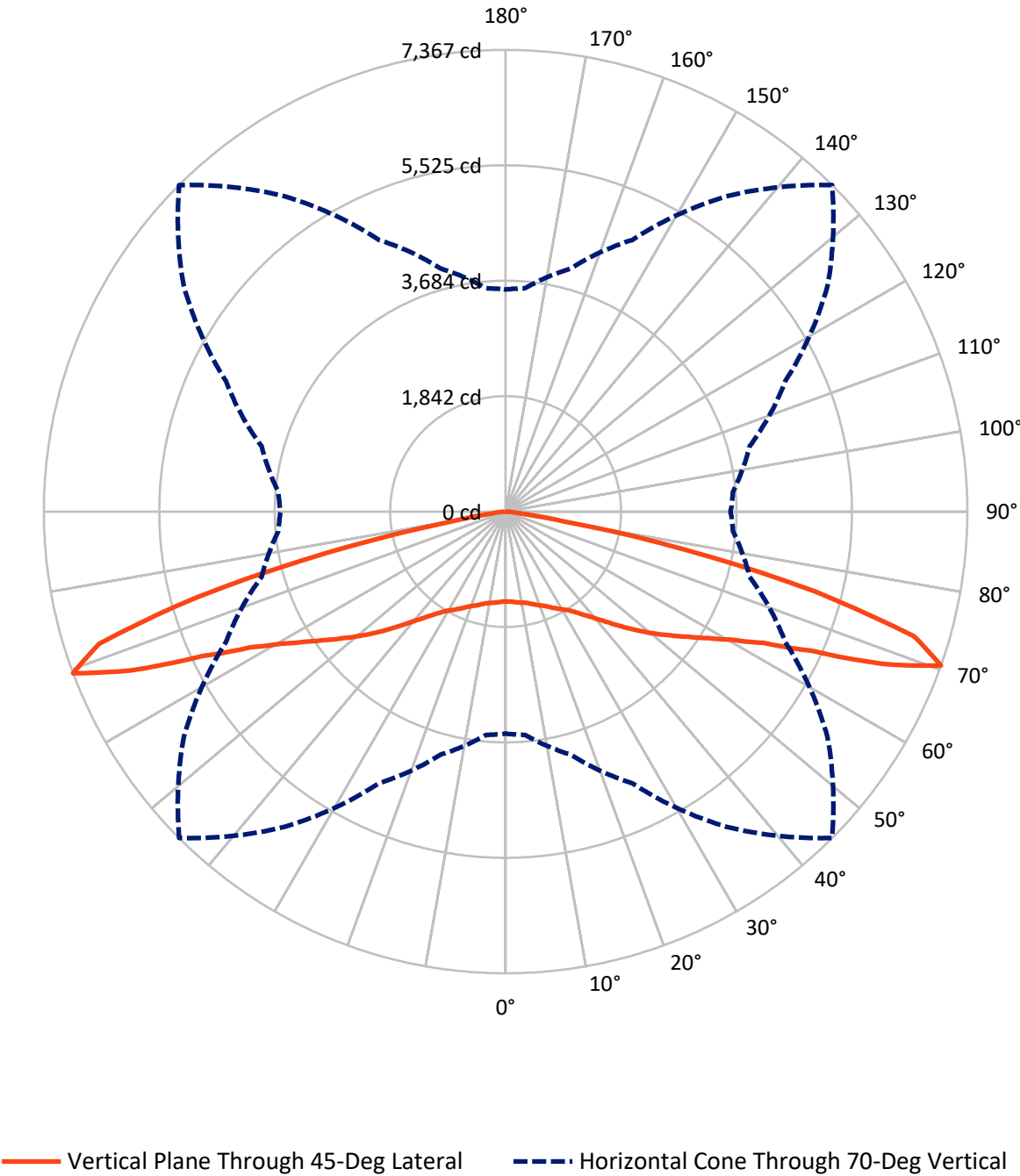


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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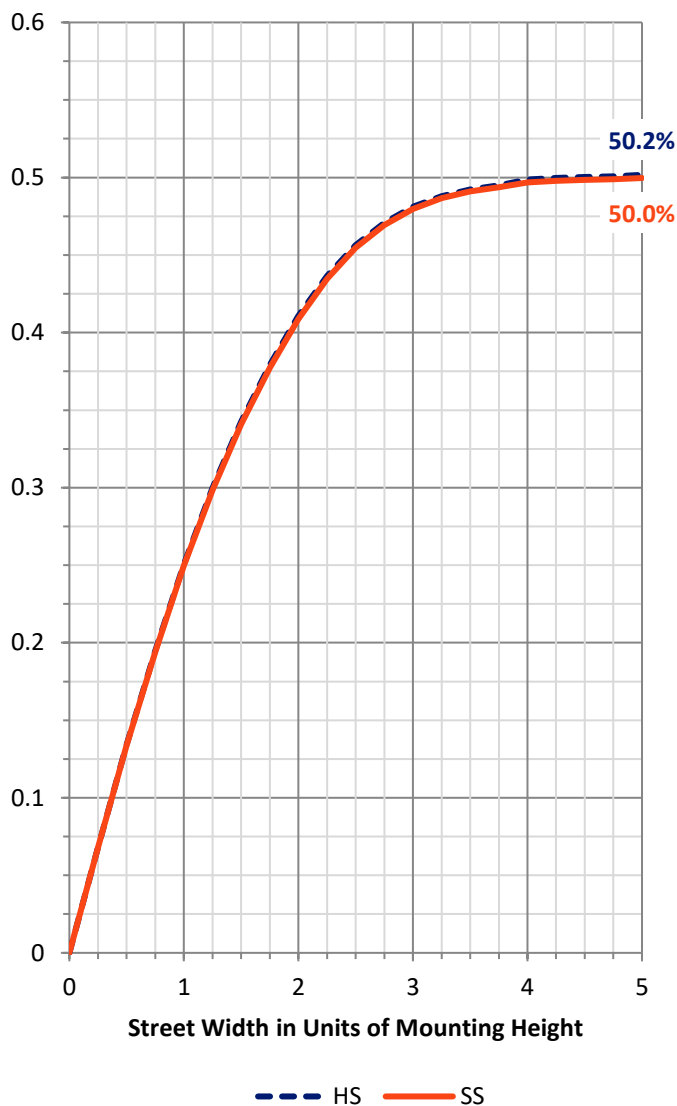
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7501.5   | 0.0    | 7501.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7501.5   | 0.0    | 7501.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15003.0  | 0.0    | 15003.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 139.6   | 0.9       |
| 10°-20°   | 432.9   | 2.9       |
| 20°-30°   | 773.7   | 5.2       |
| 30°-40°   | 1254.2  | 8.4       |
| 40°-50°   | 2042.9  | 13.6      |
| 50°-60°   | 3114.6  | 20.8      |
| 60°-70°   | 4633.6  | 30.9      |
| 70°-80°   | 2525.5  | 16.8      |
| 80°-90°   | 86.0    | 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°    | 15003.0 | 100.0     |
| 0°-180°   | 15003.0 | 100.0     |

**Coefficient of Utilization**



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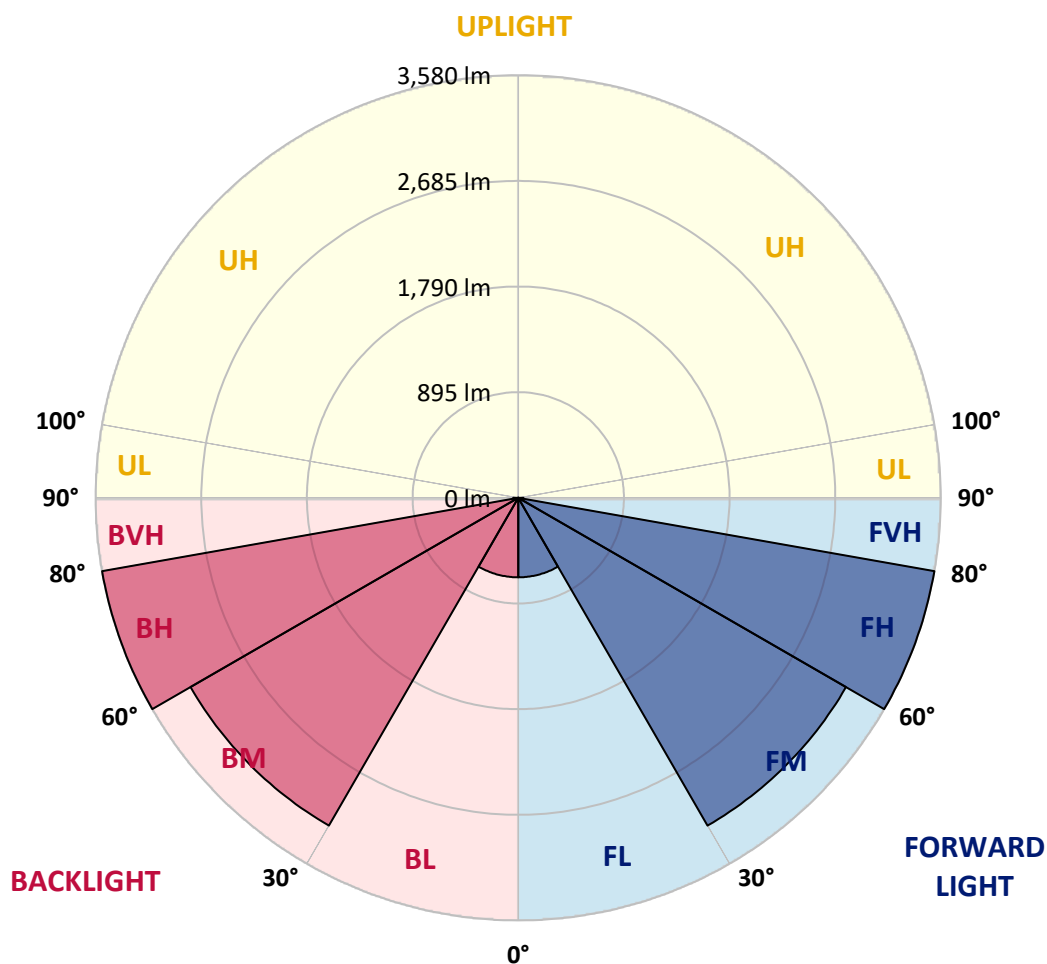
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 673.1  | 4.5       |                         |      |         |
| FM   | (30°-60°)   | 3205.8 | 21.4      |                         |      |         |
| FH   | (60°-80°)   | 3579.5 | 23.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 43.0   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 673.1  | 4.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3205.8 | 21.4      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3579.5 | 23.9      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 43.0   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1437.1 | 1437.1 | 1437.1 | 1437.1 | 1437.1 | 1437.1 | 1437.1 | 1437.1 | 1437.1 | 1437.1 |
| 2.5°  | 1443.9 | 1445.4 | 1442.4 | 1440.9 | 1439.4 | 1437.1 | 1437.9 | 1441.7 | 1444.7 | 1443.9 |
| 5°    | 1456.0 | 1457.5 | 1455.2 | 1454.5 | 1451.4 | 1450.7 | 1450.7 | 1454.5 | 1456.7 | 1455.2 |
| 7.5°  | 1469.5 | 1471.8 | 1468.0 | 1467.3 | 1465.8 | 1464.2 | 1463.5 | 1467.3 | 1469.5 | 1469.5 |
| 10°   | 1482.3 | 1484.6 | 1481.6 | 1479.3 | 1477.8 | 1477.8 | 1476.3 | 1479.3 | 1483.1 | 1482.3 |
| 12.5° | 1495.9 | 1497.4 | 1494.4 | 1492.9 | 1492.9 | 1495.1 | 1492.9 | 1494.4 | 1497.4 | 1495.9 |
| 15°   | 1512.5 | 1513.2 | 1512.5 | 1514.7 | 1518.5 | 1526.0 | 1519.2 | 1517.7 | 1519.2 | 1515.5 |
| 17.5° | 1535.0 | 1536.6 | 1539.6 | 1544.8 | 1550.1 | 1563.7 | 1551.6 | 1547.9 | 1547.9 | 1540.3 |
| 20°   | 1562.9 | 1565.2 | 1569.7 | 1578.7 | 1585.5 | 1598.3 | 1586.3 | 1581.0 | 1578.7 | 1568.9 |
| 22.5° | 1592.3 | 1596.1 | 1602.8 | 1614.9 | 1626.9 | 1639.0 | 1626.9 | 1617.9 | 1611.1 | 1598.3 |
| 25°   | 1626.2 | 1630.7 | 1641.3 | 1660.8 | 1677.4 | 1694.7 | 1680.4 | 1662.3 | 1648.8 | 1630.7 |
| 27.5° | 1674.4 | 1679.7 | 1692.5 | 1716.6 | 1737.7 | 1752.7 | 1739.2 | 1715.8 | 1697.0 | 1675.1 |
| 30°   | 1742.2 | 1747.5 | 1762.5 | 1788.1 | 1802.4 | 1812.2 | 1803.2 | 1785.1 | 1762.5 | 1737.7 |
| 32.5° | 1829.6 | 1836.3 | 1852.9 | 1877.0 | 1880.0 | 1881.5 | 1878.5 | 1869.5 | 1852.9 | 1822.8 |
| 35°   | 1940.3 | 1947.8 | 1966.6 | 1986.2 | 1983.2 | 1986.2 | 1981.7 | 1978.7 | 1966.6 | 1932.0 |
| 37.5° | 2075.9 | 2084.9 | 2104.5 | 2119.5 | 2112.0 | 2108.2 | 2109.0 | 2109.8 | 2103.0 | 2064.6 |
| 40°   | 2233.3 | 2245.3 | 2259.6 | 2275.5 | 2262.7 | 2251.4 | 2258.9 | 2264.9 | 2258.9 | 2219.7 |
| 42.5° | 2395.2 | 2412.5 | 2427.6 | 2450.2 | 2439.7 | 2425.3 | 2435.9 | 2442.7 | 2429.9 | 2387.7 |
| 45°   | 2575.2 | 2591.8 | 2611.4 | 2645.3 | 2637.8 | 2622.7 | 2637.8 | 2639.3 | 2617.4 | 2567.7 |
| 47.5° | 2761.3 | 2778.6 | 2808.0 | 2853.2 | 2850.2 | 2833.6 | 2853.2 | 2842.6 | 2814.8 | 2755.3 |
| 50°   | 2937.5 | 2961.6 | 3006.8 | 3070.1 | 3076.1 | 3055.8 | 3082.2 | 3061.8 | 3015.1 | 2940.5 |
| 52.5° | 3103.2 | 3128.9 | 3200.4 | 3286.3 | 3308.1 | 3281.8 | 3317.2 | 3281.8 | 3211.7 | 3116.0 |
| 55°   | 3277.2 | 3305.9 | 3391.0 | 3503.2 | 3546.9 | 3527.3 | 3560.4 | 3507.0 | 3407.5 | 3291.5 |
| 57.5° | 3482.1 | 3499.4 | 3601.1 | 3734.4 | 3808.2 | 3812.8 | 3827.8 | 3737.4 | 3616.9 | 3485.1 |
| 60°   | 3704.3 | 3728.4 | 3839.1 | 3998.8 | 4115.6 | 4153.2 | 4137.4 | 4003.3 | 3863.2 | 3711.8 |
| 62.5° | 3989.0 | 4015.4 | 4147.9 | 4339.3 | 4523.8 | 4617.2 | 4555.4 | 4361.1 | 4187.9 | 4006.3 |
| 65°   | 4224.8 | 4254.2 | 4493.7 | 4834.9 | 5170.8 | 5358.4 | 5203.2 | 4845.4 | 4533.6 | 4277.5 |
| 67.5° | 4053.8 | 4090.0 | 4465.8 | 5092.5 | 5927.8 | 6487.4 | 5956.4 | 5169.3 | 4558.5 | 4211.2 |
| 70°   | 3543.1 | 3577.0 | 4015.4 | 4781.4 | 6141.0 | 7367.2 | 6269.0 | 4922.3 | 4029.7 | 3641.0 |
| 72.5° | 2352.3 | 2461.5 | 2905.1 | 3824.1 | 5483.4 | 6817.3 | 5537.6 | 3746.5 | 2695.0 | 2347.0 |
| 75°   | 780.3  | 867.7  | 1170.5 | 1982.5 | 3672.7 | 5098.5 | 3496.4 | 1754.2 | 927.2  | 667.3  |
| 77.5° | 196.6  | 226.7  | 312.6  | 567.2  | 1465.0 | 2902.9 | 1318.9 | 463.2  | 252.3  | 176.3  |
| 80°   | 95.7   | 105.4  | 150.6  | 189.1  | 366.8  | 922.7  | 344.2  | 177.8  | 119.0  | 91.9   |
| 82.5° | 52.7   | 53.5   | 85.1   | 107.0  | 136.3  | 238.8  | 141.6  | 103.9  | 68.5   | 55.7   |
| 85°   | 32.4   | 31.6   | 45.2   | 57.2   | 57.2   | 85.1   | 67.8   | 57.2   | 39.2   | 34.6   |
| 87.5° | 12.8   | 12.8   | 16.6   | 18.1   | 15.8   | 21.8   | 17.3   | 18.8   | 15.1   | 14.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END C

| 90°    |
|--------|
| 1437.1 |
| 1444.7 |
| 1456.0 |
| 1469.5 |
| 1482.3 |
| 1495.1 |
| 1515.5 |
| 1540.3 |
| 1568.9 |
| 1597.6 |
| 1630.0 |
| 1674.4 |
| 1737.7 |
| 1823.5 |
| 1932.0 |
| 2064.6 |
| 2219.7 |
| 2390.7 |
| 2573.0 |
| 2751.5 |
| 2939.0 |
| 3107.0 |
| 3275.7 |
| 3467.0 |
| 3687.7 |
| 3974.7 |
| 4235.3 |
| 4159.2 |
| 3589.1 |
| 2270.9 |
| 631.2  |
| 157.4  |
| 84.4   |
| 55.7   |
| 36.2   |
| 15.1   |
| 0.0    |