

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: P848441

Luminaire Tested: **GLAN-SB5A-735-U-5WQ**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5A-735-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22492 lumens
Efficiency: N/A
Efficacy: 158.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

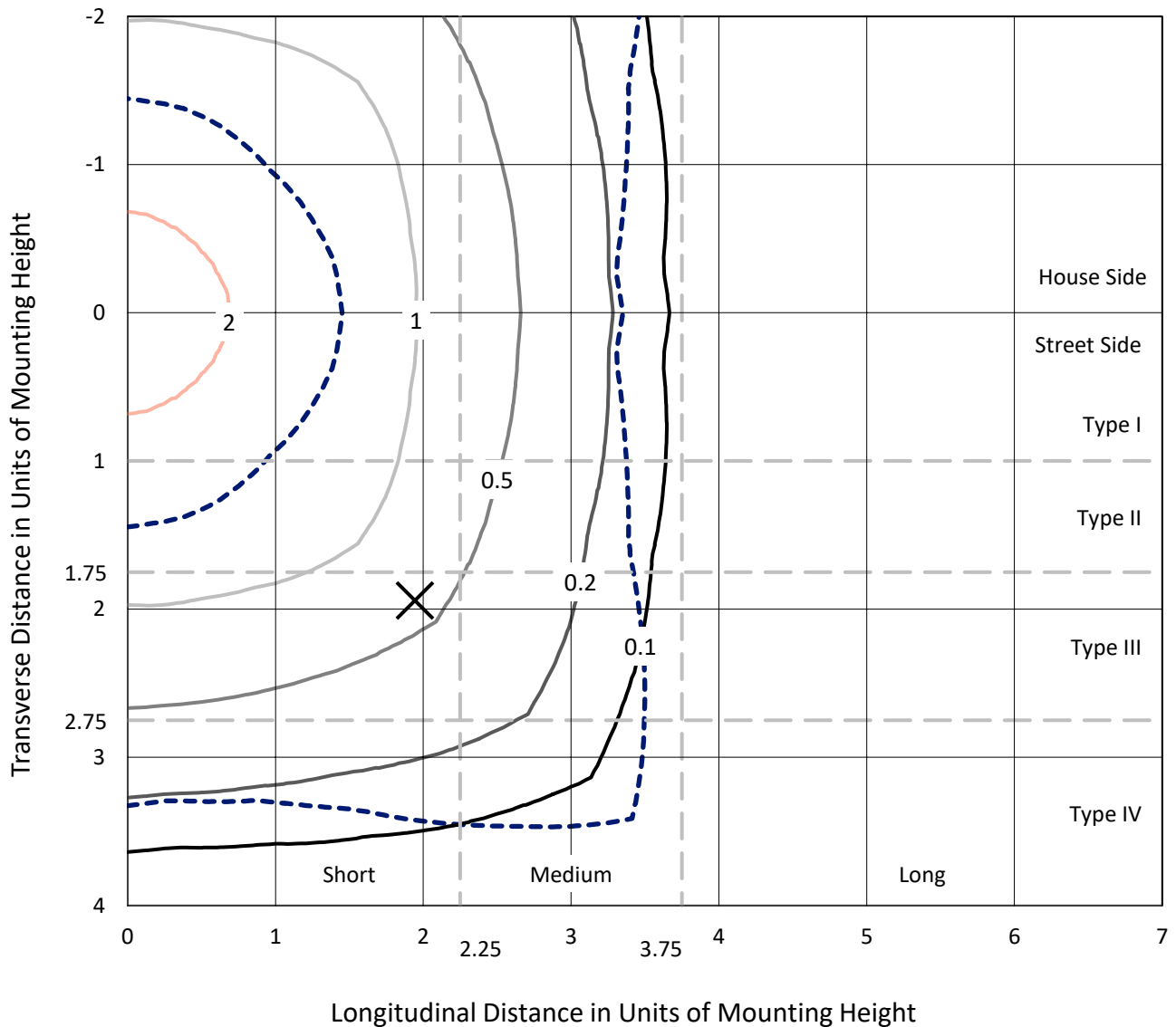
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

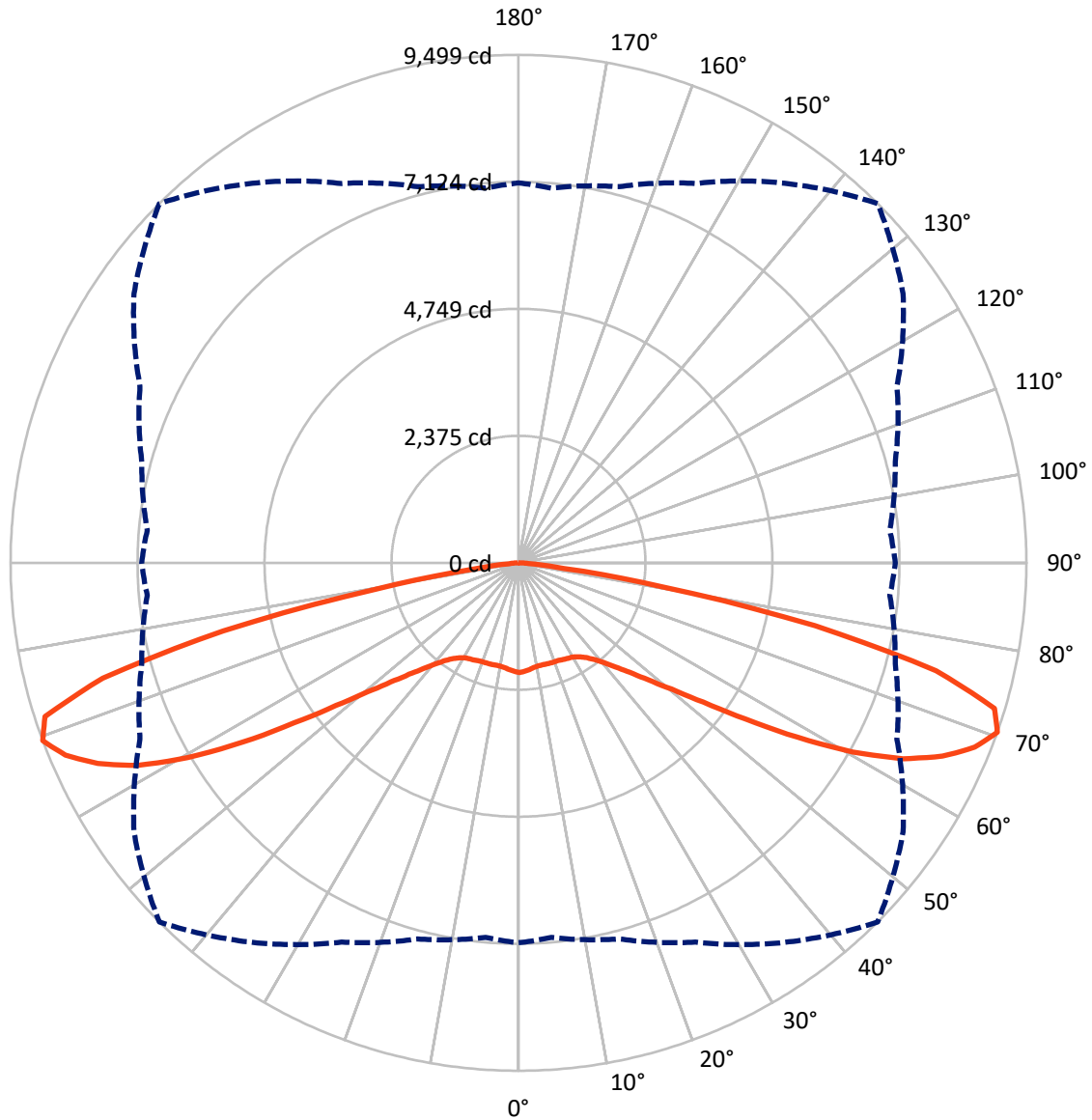
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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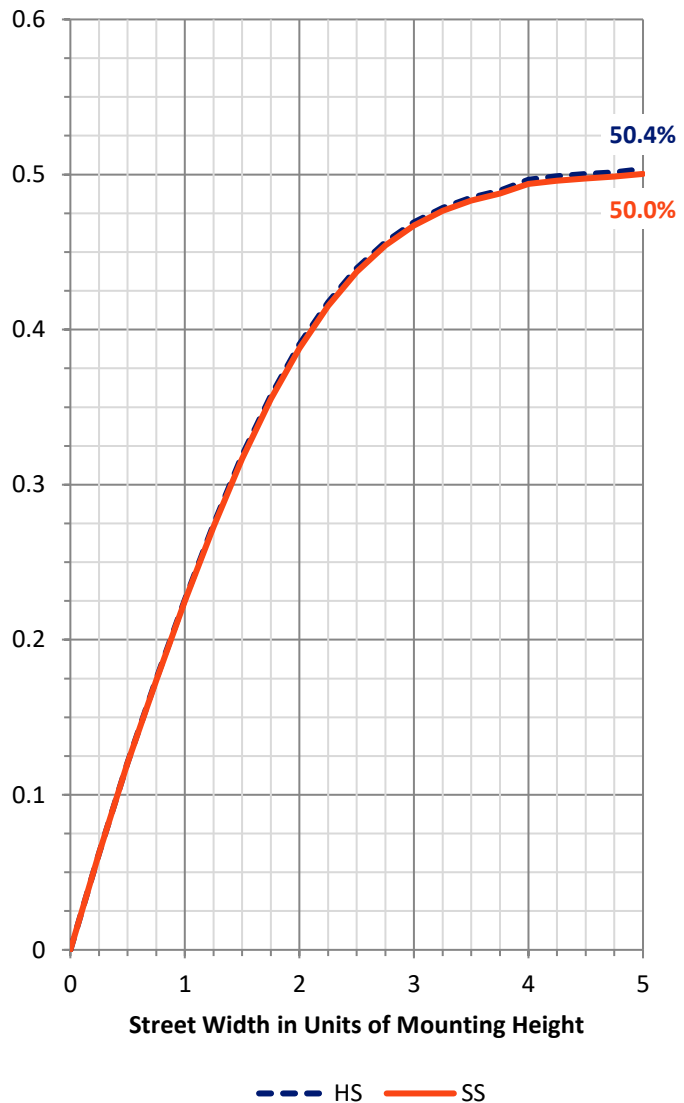
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11246.0 | 0.0 | 11246.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11246.0 | 0.0 | 11246.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 22492.0 | 0.0 | 22492.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 190.9 | 0.8 |
| 10°-20° | 560.4 | 2.5 |
| 20°-30° | 932.6 | 4.1 |
| 30°-40° | 1410.4 | 6.3 |
| 40°-50° | 2343.7 | 10.4 |
| 50°-60° | 4422.5 | 19.7 |
| 60°-70° | 7467.5 | 33.2 |
| 70°-80° | 4907.0 | 21.8 |
| 80°-90° | 257.1 | 1.1 |
| 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° | 22492.0 | 100.0 |
| 0°-180° | 22492.0 | 100.0 |

Coefficient of Utilization



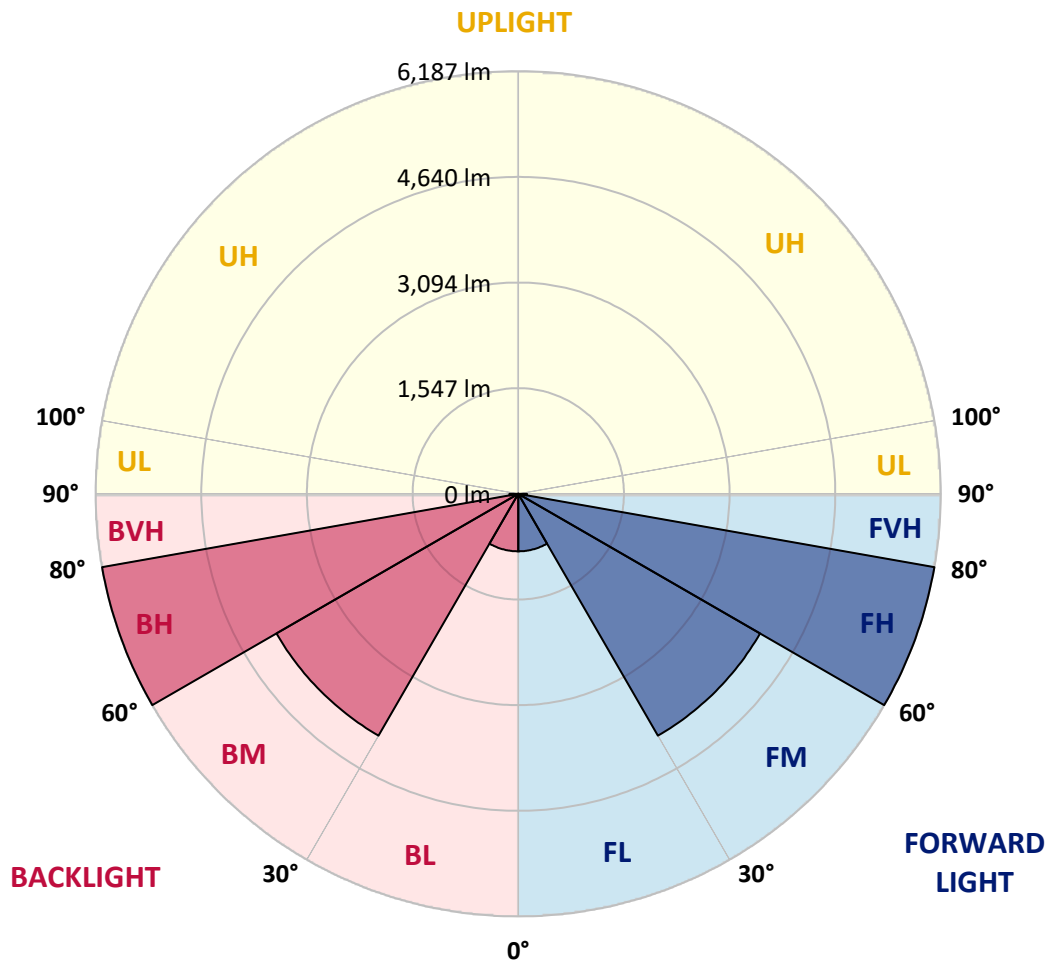
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 841.9 | 3.7 | | | |
| FM (30°-60°) | 4088.3 | 18.2 | | | |
| FH (60°-80°) | 6187.3 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 128.5 | 0.6 | | | G2/225 |
| BL (0°-30°) | 841.9 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 4088.3 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 6187.3 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 128.5 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2051.7 | 2051.7 | 2051.7 | 2051.7 | 2051.7 | 2051.7 | 2051.7 | 2051.7 | 2051.7 | 2051.7 |
| 2.5° | 2038.9 | 2044.7 | 2042.4 | 2037.7 | 2037.7 | 2034.2 | 2037.7 | 2040.0 | 2043.5 | 2045.9 |
| 5° | 2012.0 | 2016.7 | 2015.5 | 2012.0 | 2013.1 | 2009.6 | 2012.0 | 2015.5 | 2017.8 | 2019.0 |
| 7.5° | 1988.6 | 1993.3 | 1990.9 | 1985.1 | 1985.1 | 1981.6 | 1982.7 | 1986.3 | 1989.8 | 1990.9 |
| 10° | 1982.7 | 1987.4 | 1980.4 | 1971.1 | 1967.5 | 1962.9 | 1964.0 | 1967.5 | 1974.6 | 1978.1 |
| 12.5° | 1985.1 | 1988.6 | 1981.6 | 1967.5 | 1964.0 | 1959.4 | 1959.4 | 1962.9 | 1972.2 | 1976.9 |
| 15° | 1992.1 | 1995.6 | 1985.1 | 1969.9 | 1966.4 | 1962.9 | 1961.7 | 1966.4 | 1976.9 | 1985.1 |
| 17.5° | 2005.0 | 2008.5 | 1992.1 | 1971.1 | 1966.4 | 1967.5 | 1966.4 | 1969.9 | 1986.3 | 2001.5 |
| 20° | 2016.7 | 2019.0 | 1996.8 | 1971.1 | 1966.4 | 1967.5 | 1966.4 | 1973.4 | 1994.4 | 2015.5 |
| 22.5° | 2020.2 | 2022.5 | 2001.5 | 1979.2 | 1975.7 | 1976.9 | 1975.7 | 1982.7 | 2002.6 | 2023.7 |
| 25° | 2021.3 | 2024.8 | 2008.5 | 1990.9 | 1996.8 | 1999.1 | 1996.8 | 1997.9 | 2013.1 | 2031.8 |
| 27.5° | 2038.9 | 2043.5 | 2028.3 | 2013.1 | 2016.7 | 2015.5 | 2019.0 | 2022.5 | 2034.2 | 2052.9 |
| 30° | 2075.1 | 2078.6 | 2065.8 | 2050.6 | 2048.2 | 2040.0 | 2050.6 | 2062.2 | 2075.1 | 2091.5 |
| 32.5° | 2134.7 | 2141.7 | 2125.4 | 2109.0 | 2098.5 | 2093.8 | 2102.0 | 2121.9 | 2139.4 | 2156.9 |
| 35° | 2234.1 | 2238.8 | 2223.6 | 2193.2 | 2174.5 | 2174.5 | 2181.5 | 2207.2 | 2235.3 | 2257.5 |
| 37.5° | 2374.4 | 2380.2 | 2353.3 | 2317.1 | 2289.0 | 2289.0 | 2298.4 | 2325.3 | 2367.4 | 2398.9 |
| 40° | 2545.1 | 2553.3 | 2519.4 | 2481.9 | 2455.1 | 2450.4 | 2462.1 | 2492.5 | 2532.2 | 2572.0 |
| 42.5° | 2750.8 | 2760.2 | 2715.8 | 2683.0 | 2662.0 | 2662.0 | 2667.8 | 2695.9 | 2732.1 | 2781.2 |
| 45° | 3013.9 | 3030.2 | 2969.4 | 2936.7 | 2916.8 | 2921.5 | 2925.0 | 2949.6 | 2982.3 | 3038.4 |
| 47.5° | 3327.2 | 3343.5 | 3279.2 | 3245.3 | 3241.8 | 3264.1 | 3250.0 | 3267.6 | 3285.1 | 3349.4 |
| 50° | 3682.6 | 3710.6 | 3666.2 | 3663.9 | 3670.9 | 3711.8 | 3679.1 | 3688.4 | 3668.6 | 3709.5 |
| 52.5° | 4117.5 | 4158.4 | 4150.2 | 4164.2 | 4242.6 | 4326.7 | 4251.9 | 4219.2 | 4144.4 | 4157.2 |
| 55° | 4644.7 | 4706.7 | 4718.4 | 4802.6 | 4980.3 | 5152.1 | 4993.1 | 4861.0 | 4702.0 | 4672.8 |
| 57.5° | 5244.5 | 5293.6 | 5349.7 | 5521.5 | 5853.5 | 6158.7 | 5853.5 | 5561.3 | 5311.1 | 5251.5 |
| 60° | 5889.8 | 5950.6 | 6004.4 | 6258.0 | 6751.4 | 7180.4 | 6742.0 | 6277.9 | 5947.1 | 5866.4 |
| 62.5° | 6583.1 | 6661.4 | 6698.8 | 6980.5 | 7555.7 | 8067.8 | 7563.9 | 7001.6 | 6634.5 | 6548.0 |
| 65° | 7248.3 | 7312.6 | 7354.6 | 7655.1 | 8204.6 | 8717.8 | 8242.0 | 7687.8 | 7310.2 | 7196.8 |
| 67.5° | 7558.1 | 7593.1 | 7696.0 | 8036.2 | 8616.1 | 9201.8 | 8714.3 | 8072.4 | 7650.4 | 7451.7 |
| 70° | 7104.5 | 7033.1 | 7281.0 | 7825.8 | 8665.2 | 9498.7 | 8777.4 | 7809.4 | 7292.7 | 6970.0 |
| 72.5° | 5490.0 | 5367.2 | 5797.4 | 6729.2 | 8104.0 | 9309.3 | 8160.1 | 6781.8 | 6065.2 | 5410.5 |
| 75° | 2987.0 | 2847.9 | 3441.8 | 4620.2 | 6462.6 | 8068.9 | 6611.1 | 4752.3 | 3832.2 | 2964.8 |
| 77.5° | 842.9 | 790.3 | 1269.6 | 2235.3 | 3887.2 | 5665.3 | 4036.8 | 2284.4 | 1505.8 | 893.2 |
| 80° | 258.4 | 250.2 | 339.0 | 673.4 | 1650.7 | 2713.4 | 1586.4 | 681.6 | 431.4 | 272.4 |
| 82.5° | 153.1 | 140.3 | 168.3 | 245.5 | 420.9 | 852.3 | 409.2 | 256.0 | 205.8 | 138.0 |
| 85° | 87.7 | 81.8 | 99.4 | 119.2 | 141.5 | 181.2 | 118.1 | 121.6 | 109.9 | 73.7 |
| 87.5° | 36.2 | 32.7 | 38.6 | 37.4 | 32.7 | 42.1 | 31.6 | 37.4 | 44.4 | 29.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2051.7 |
| 2044.7 |
| 2019.0 |
| 1990.9 |
| 1978.1 |
| 1978.1 |
| 1986.3 |
| 2001.5 |
| 2016.7 |
| 2023.7 |
| 2030.7 |
| 2048.2 |
| 2088.0 |
| 2149.9 |
| 2249.3 |
| 2387.2 |
| 2559.1 |
| 2777.7 |
| 3036.1 |
| 3330.7 |
| 3684.9 |
| 4114.0 |
| 4627.2 |
| 5209.4 |
| 5796.3 |
| 6477.8 |
| 7140.7 |
| 7454.0 |
| 7047.2 |
| 5573.0 |
| 3157.7 |
| 992.5 |
| 287.6 |
| 149.6 |
| 77.2 |
| 26.9 |
| 0.0 |

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