

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: P846284

Luminaire Tested: **GLAN-SB1D-830-U-T1**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB1D-830-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8647 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

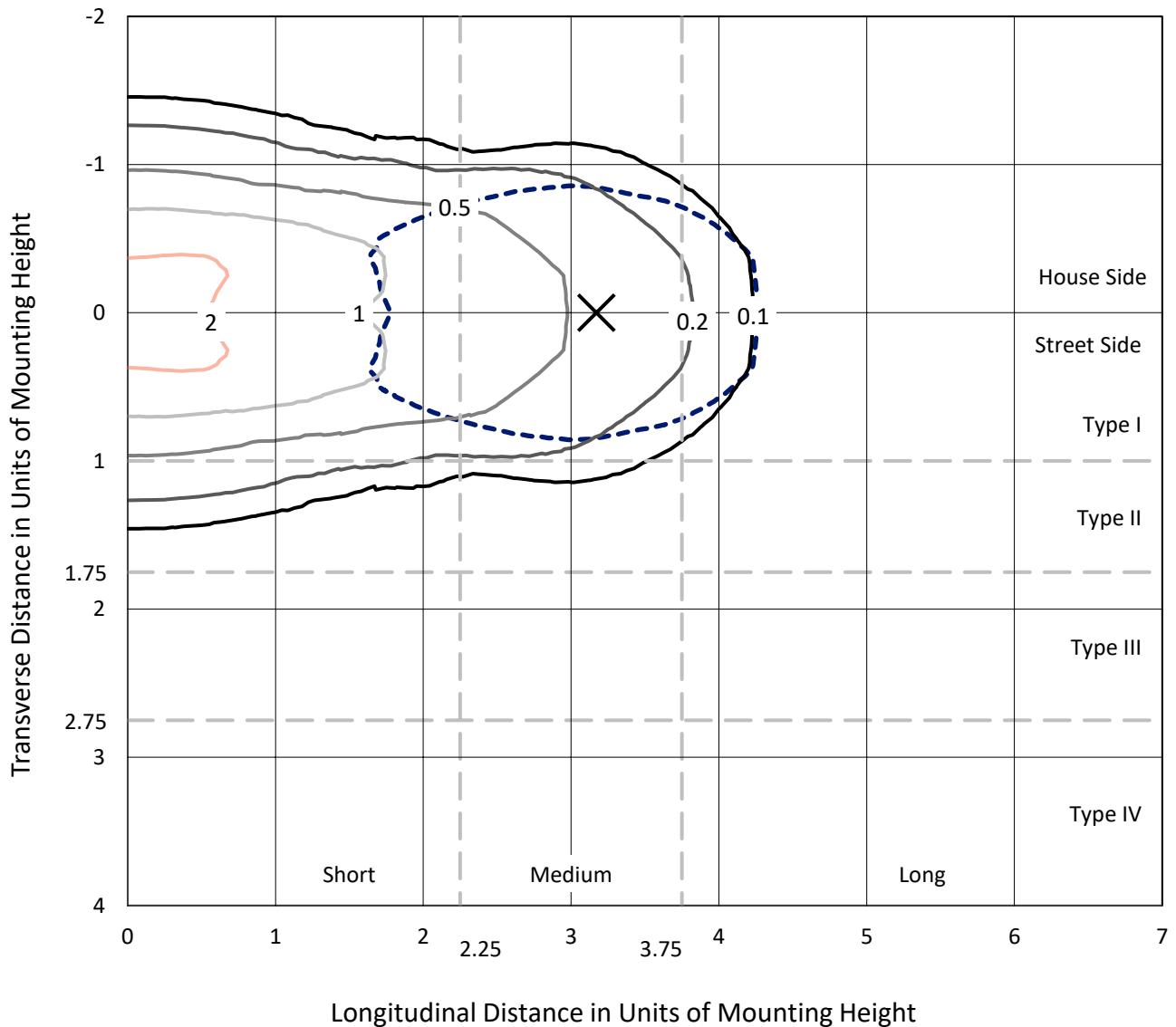
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

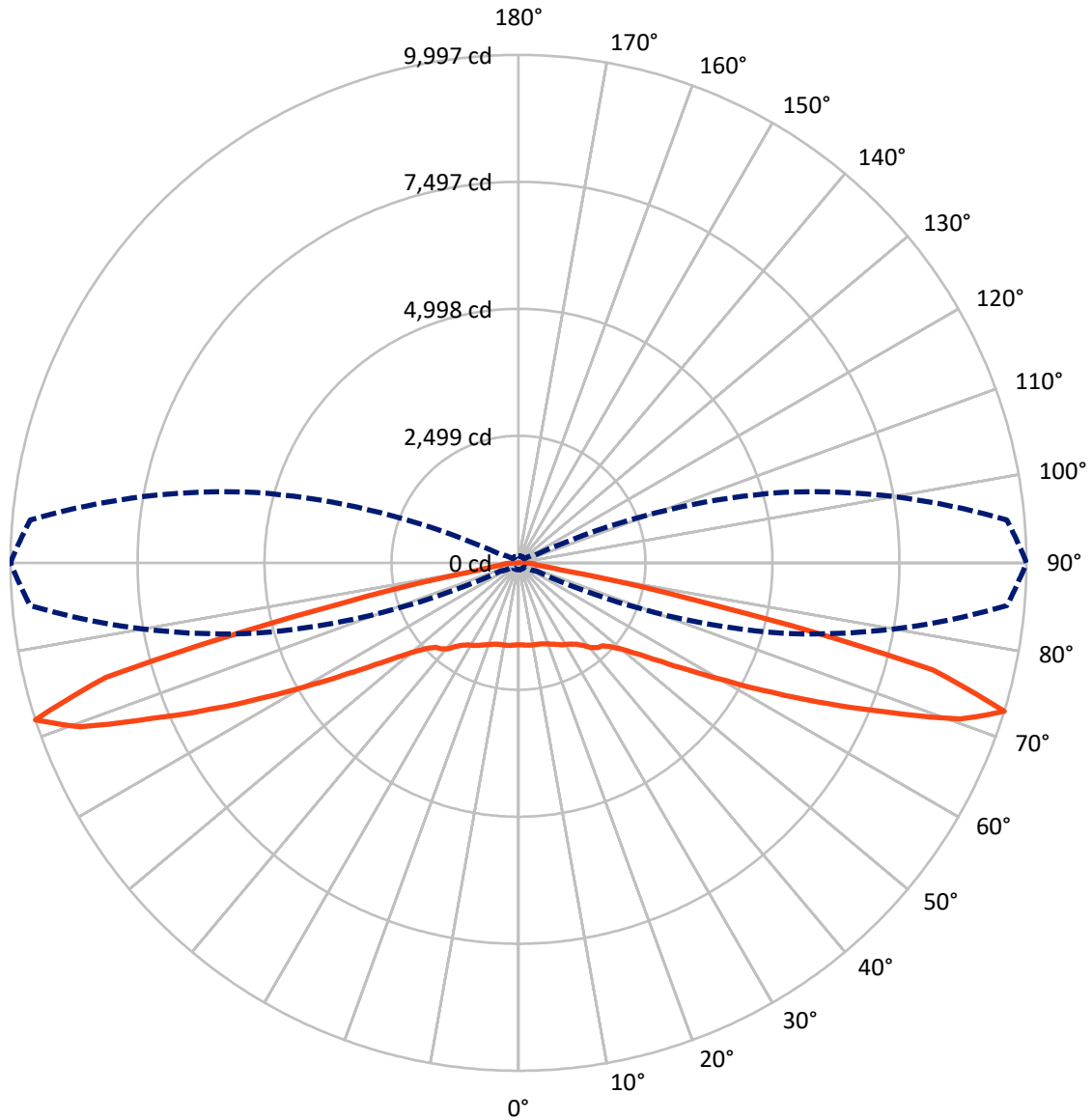
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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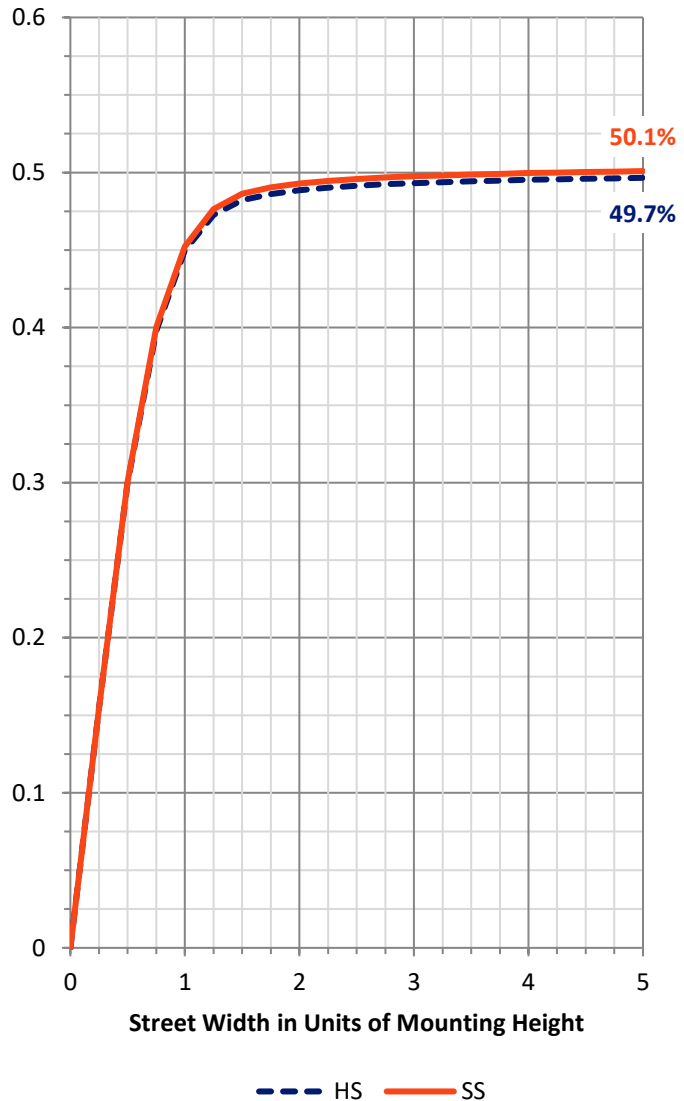
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4323.5 | 0.0 | 4323.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4323.5 | 0.0 | 4323.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8647.0 | 0.0 | 8647.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 156.7 | 1.8 |
| 10°-20° | 479.0 | 5.5 |
| 20°-30° | 798.7 | 9.2 |
| 30°-40° | 1098.5 | 12.7 |
| 40°-50° | 1341.6 | 15.5 |
| 50°-60° | 1551.7 | 17.9 |
| 60°-70° | 1850.1 | 21.4 |
| 70°-80° | 1291.3 | 14.9 |
| 80°-90° | 79.3 | 0.9 |
| 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° | 8647.0 | 100.0 |
| 0°-180° | 8647.0 | 100.0 |

Coefficient of Utilization



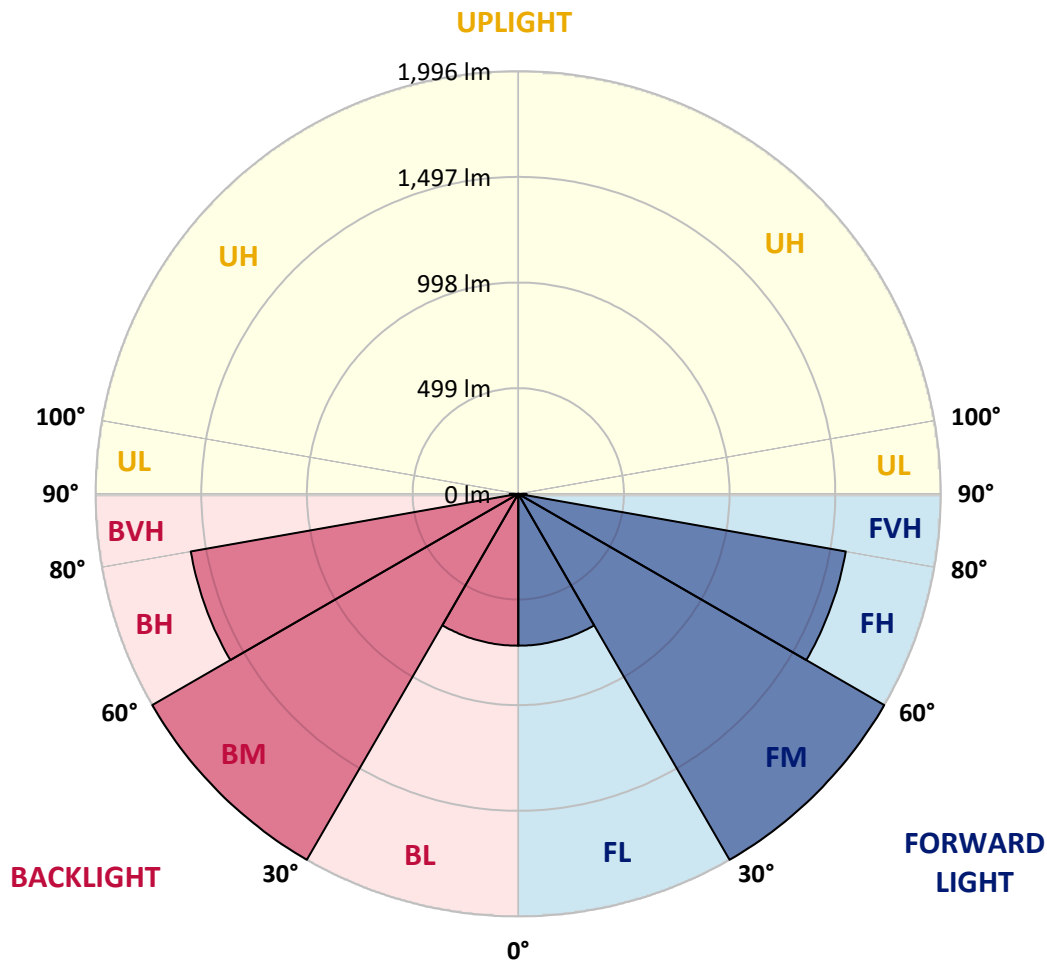
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 717.2 | 8.3 | | | |
| FM (30°-60°) | 1995.9 | 23.1 | | | |
| FH (60°-80°) | 1570.7 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 39.7 | 0.5 | | | G1/100 |
| BL (0°-30°) | 717.2 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 1995.9 | 23.1 | B2/2500 | | |
| BH (60°-80°) | 1570.7 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 39.7 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 |
| 2.5° | 1617.2 | 1619.0 | 1619.0 | 1617.6 | 1620.8 | 1618.1 | 1618.1 | 1616.7 | 1618.1 | 1616.7 |
| 5° | 1625.4 | 1627.7 | 1628.7 | 1628.2 | 1632.3 | 1630.0 | 1630.0 | 1628.2 | 1628.7 | 1627.3 |
| 7.5° | 1641.1 | 1644.3 | 1646.1 | 1648.4 | 1654.4 | 1651.6 | 1649.8 | 1644.3 | 1642.0 | 1638.3 |
| 10° | 1646.1 | 1649.8 | 1655.8 | 1667.7 | 1681.5 | 1682.0 | 1676.4 | 1662.7 | 1652.1 | 1643.8 |
| 12.5° | 1630.5 | 1635.5 | 1648.0 | 1672.3 | 1703.1 | 1715.5 | 1706.8 | 1683.8 | 1663.1 | 1648.4 |
| 15° | 1610.7 | 1616.2 | 1635.1 | 1671.8 | 1717.3 | 1746.3 | 1745.4 | 1715.0 | 1682.0 | 1659.0 |
| 17.5° | 1579.9 | 1585.5 | 1612.6 | 1664.0 | 1728.4 | 1776.2 | 1789.0 | 1757.8 | 1711.4 | 1680.6 |
| 20° | 1524.3 | 1529.4 | 1567.1 | 1639.2 | 1732.0 | 1807.9 | 1841.4 | 1813.8 | 1755.9 | 1714.1 |
| 22.5° | 1452.2 | 1460.0 | 1504.1 | 1596.5 | 1723.3 | 1841.0 | 1901.2 | 1882.3 | 1807.9 | 1750.0 |
| 25° | 1375.0 | 1383.3 | 1434.7 | 1544.1 | 1700.8 | 1864.9 | 1971.9 | 1960.0 | 1866.7 | 1794.5 |
| 27.5° | 1308.3 | 1317.1 | 1373.1 | 1492.2 | 1665.9 | 1874.1 | 2041.8 | 2047.8 | 1937.9 | 1843.7 |
| 30° | 1256.0 | 1264.2 | 1324.0 | 1450.3 | 1620.8 | 1864.9 | 2102.9 | 2144.3 | 2010.5 | 1886.5 |
| 32.5° | 1198.5 | 1209.1 | 1272.0 | 1399.3 | 1567.5 | 1842.8 | 2156.2 | 2248.6 | 2094.6 | 1932.4 |
| 35° | 1125.9 | 1135.6 | 1201.7 | 1329.5 | 1497.7 | 1807.4 | 2200.8 | 2364.4 | 2215.0 | 2002.3 |
| 37.5° | 1037.7 | 1046.9 | 1112.6 | 1242.2 | 1428.3 | 1757.8 | 2234.8 | 2494.9 | 2358.4 | 2102.9 |
| 40° | 949.0 | 957.7 | 1019.3 | 1144.7 | 1345.1 | 1694.4 | 2246.7 | 2622.7 | 2522.9 | 2241.2 |
| 42.5° | 867.6 | 875.4 | 932.0 | 1048.7 | 1251.8 | 1613.5 | 2231.1 | 2733.9 | 2670.5 | 2337.7 |
| 45° | 792.7 | 799.6 | 849.7 | 958.6 | 1154.9 | 1515.1 | 2184.2 | 2853.4 | 2846.0 | 2406.7 |
| 47.5° | 707.2 | 714.1 | 766.1 | 871.3 | 1057.9 | 1399.8 | 2104.7 | 2971.0 | 3090.0 | 2562.9 |
| 50° | 602.9 | 608.9 | 662.2 | 770.7 | 957.2 | 1277.1 | 1994.5 | 3063.4 | 3397.9 | 2799.6 |
| 52.5° | 479.3 | 485.7 | 537.7 | 646.1 | 837.8 | 1145.2 | 1849.2 | 3123.6 | 3753.6 | 3145.2 |
| 55° | 356.6 | 361.2 | 406.2 | 503.7 | 689.8 | 994.9 | 1667.3 | 3140.6 | 4157.1 | 3617.6 |
| 57.5° | 258.7 | 261.5 | 290.4 | 363.0 | 523.0 | 807.0 | 1446.2 | 3096.5 | 4637.3 | 4223.3 |
| 60° | 209.6 | 210.5 | 219.2 | 251.4 | 363.5 | 594.7 | 1179.2 | 2944.8 | 5158.5 | 5004.1 |
| 62.5° | 190.3 | 190.3 | 192.6 | 201.3 | 245.9 | 392.5 | 856.1 | 2630.5 | 5717.3 | 5990.7 |
| 65° | 176.9 | 176.9 | 177.8 | 182.0 | 193.9 | 250.0 | 540.4 | 2118.5 | 6188.3 | 7146.5 |
| 67.5° | 165.0 | 165.4 | 165.0 | 166.4 | 173.3 | 184.7 | 313.4 | 1463.2 | 6442.0 | 8344.1 |
| 70° | 152.6 | 153.5 | 151.2 | 151.2 | 156.7 | 157.2 | 196.2 | 802.4 | 6231.5 | 9347.7 |
| 72.5° | 137.9 | 139.2 | 135.6 | 134.6 | 138.8 | 136.9 | 147.5 | 385.1 | 5350.1 | 9647.4 |
| 75° | 125.0 | 126.8 | 118.6 | 116.3 | 116.3 | 114.9 | 119.9 | 197.6 | 3472.4 | 7869.8 |
| 77.5° | 113.5 | 117.2 | 103.9 | 96.5 | 94.7 | 90.5 | 97.9 | 120.9 | 1518.8 | 3694.8 |
| 80° | 93.7 | 98.8 | 85.5 | 76.7 | 73.5 | 68.9 | 77.2 | 84.6 | 451.7 | 858.0 |
| 82.5° | 69.9 | 72.1 | 60.7 | 54.7 | 51.9 | 48.7 | 57.9 | 58.8 | 147.1 | 303.8 |
| 85° | 44.6 | 45.5 | 37.2 | 32.2 | 30.8 | 29.4 | 36.8 | 32.2 | 56.1 | 223.3 |
| 87.5° | 15.6 | 17.9 | 14.2 | 12.9 | 13.8 | 11.5 | 17.0 | 9.7 | 15.6 | 157.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

1615.8
1616.7
1627.3
1638.3
1642.4
1646.1
1655.3
1675.5
1706.3
1739.4
1779.8
1828.1
1863.9
1903.9
1970.6
2060.6
2196.2
2279.8
2328.5
2472.8
2686.5
3005.9
3443.4
4004.1
4727.9
5620.8
6678.7
7839.0
9214.9
9996.6
8417.6
3618.0
821.7
343.3
324.4
195.3
0.0

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