

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: P456295

Luminaire Tested: **GALN-SA7C-740-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42210 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

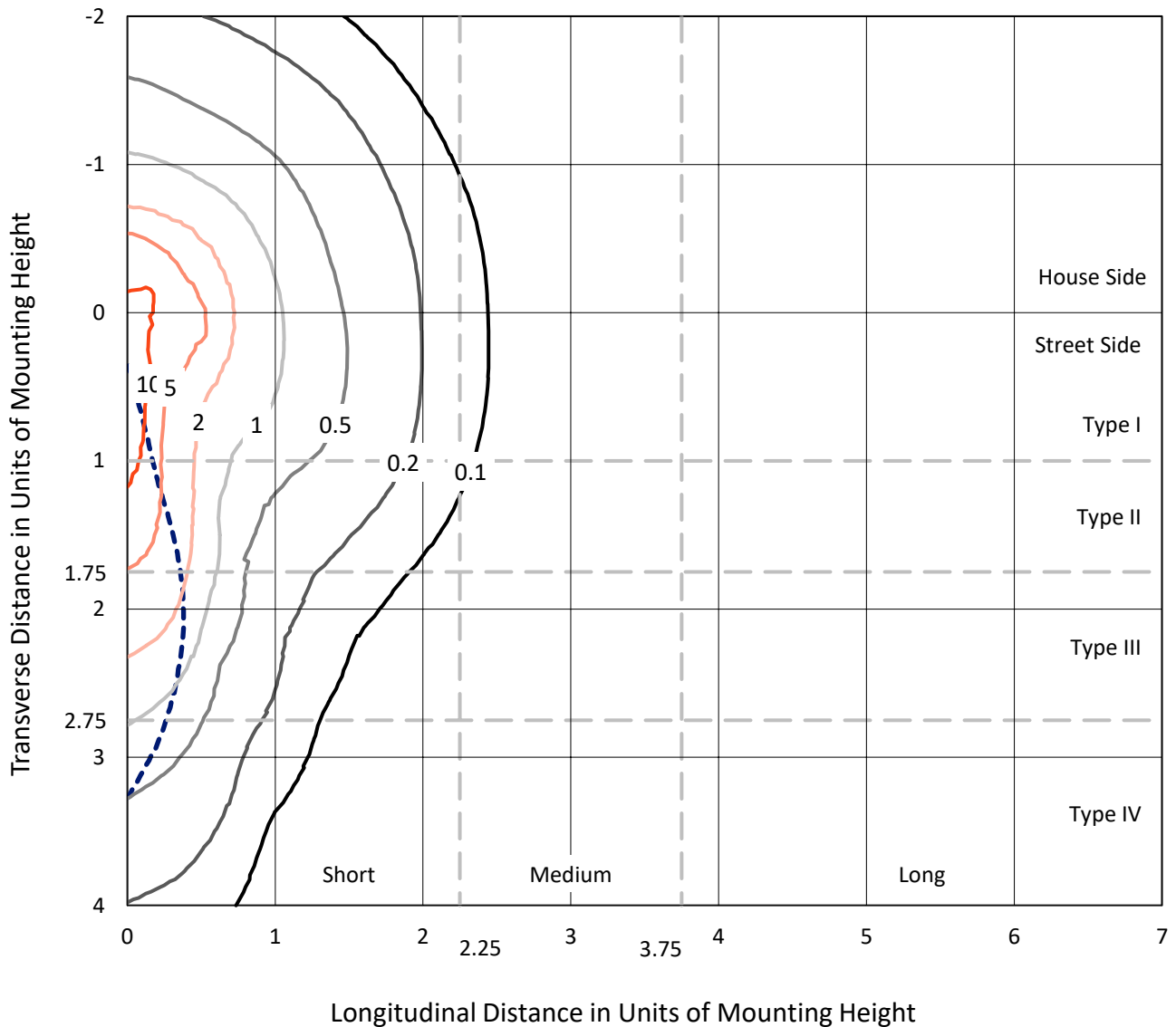
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

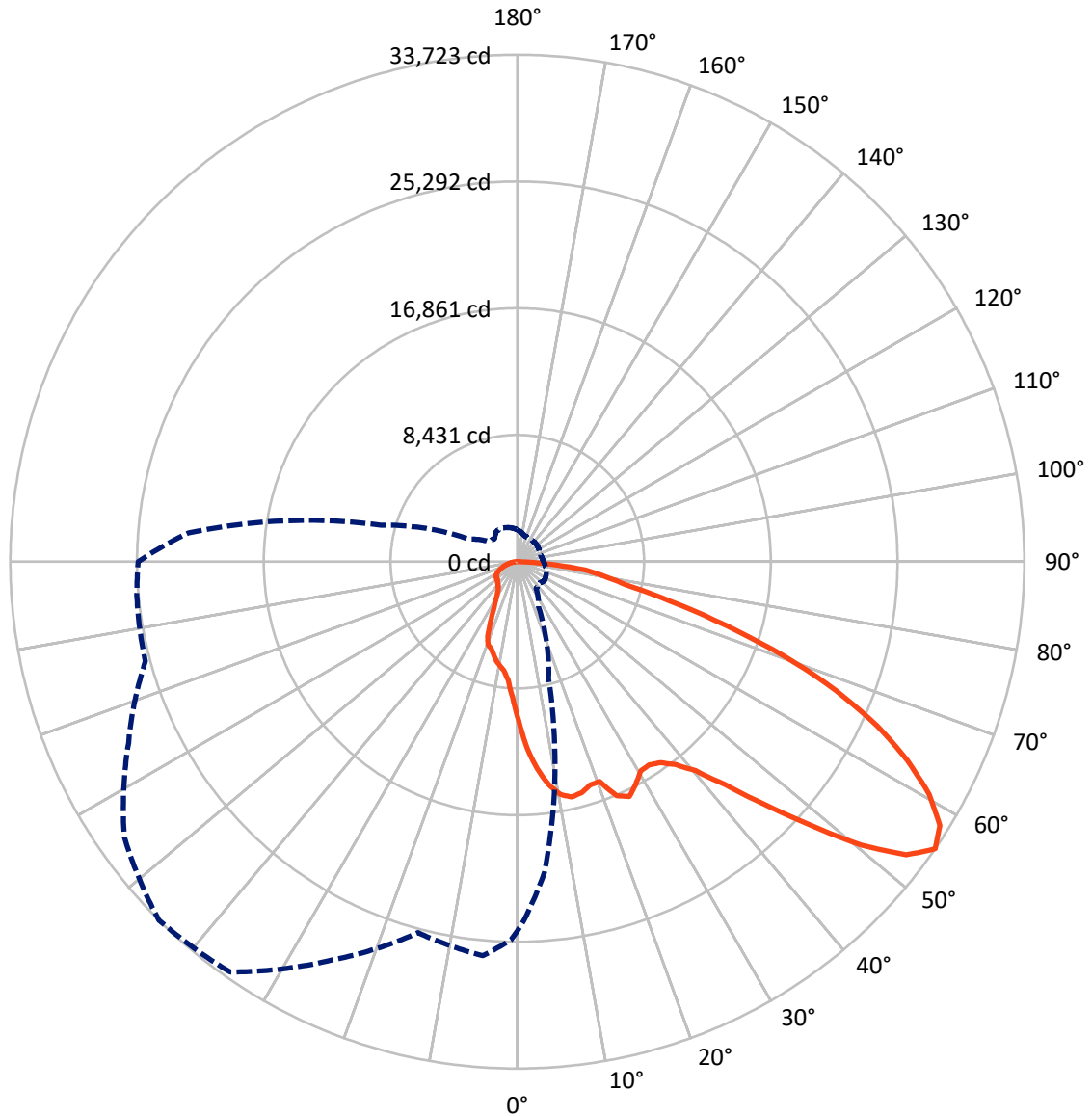
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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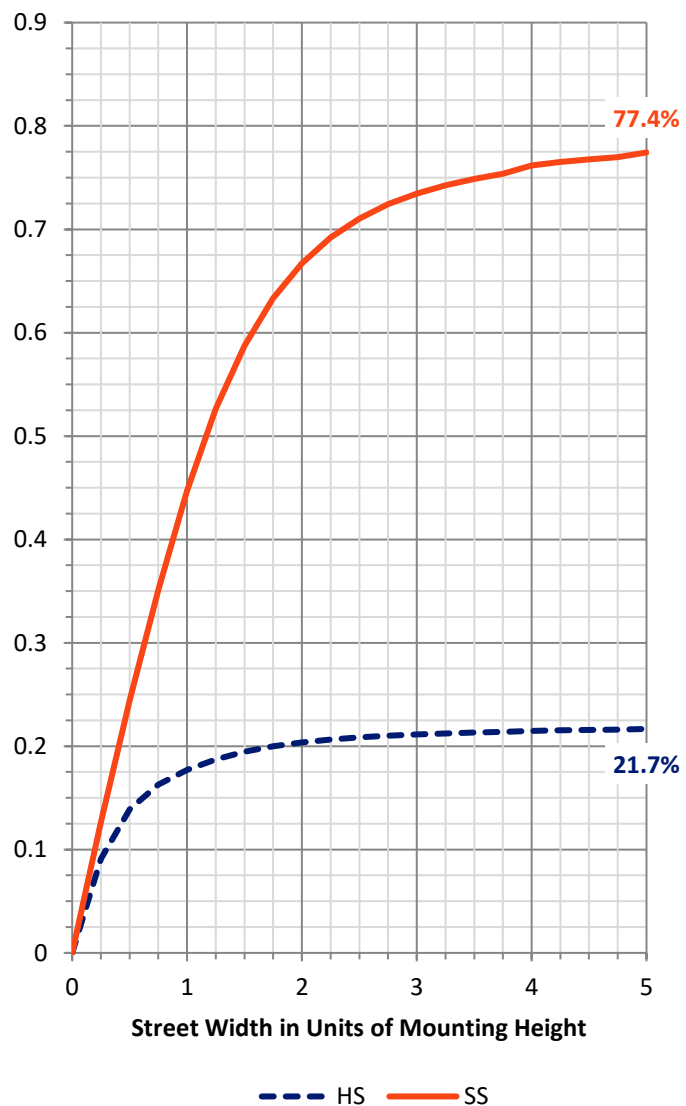
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9233.2 | 0.0 | 9233.2 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 32976.8 | 0.0 | 32976.8 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 42210.0 | 0.0 | 42210.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 897.8 | 2.1 |
| 10°-20° | 2381.9 | 5.6 |
| 20°-30° | 4114.8 | 9.7 |
| 30°-40° | 4782.0 | 11.3 |
| 40°-50° | 6671.9 | 15.8 |
| 50°-60° | 9053.0 | 21.4 |
| 60°-70° | 8612.9 | 20.4 |
| 70°-80° | 4652.9 | 11.0 |
| 80°-90° | 1042.8 | 2.5 |
| 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° | 42210.0 | 100.0 |
| 0°-180° | 42210.0 | 100.0 |

Coefficient of Utilization



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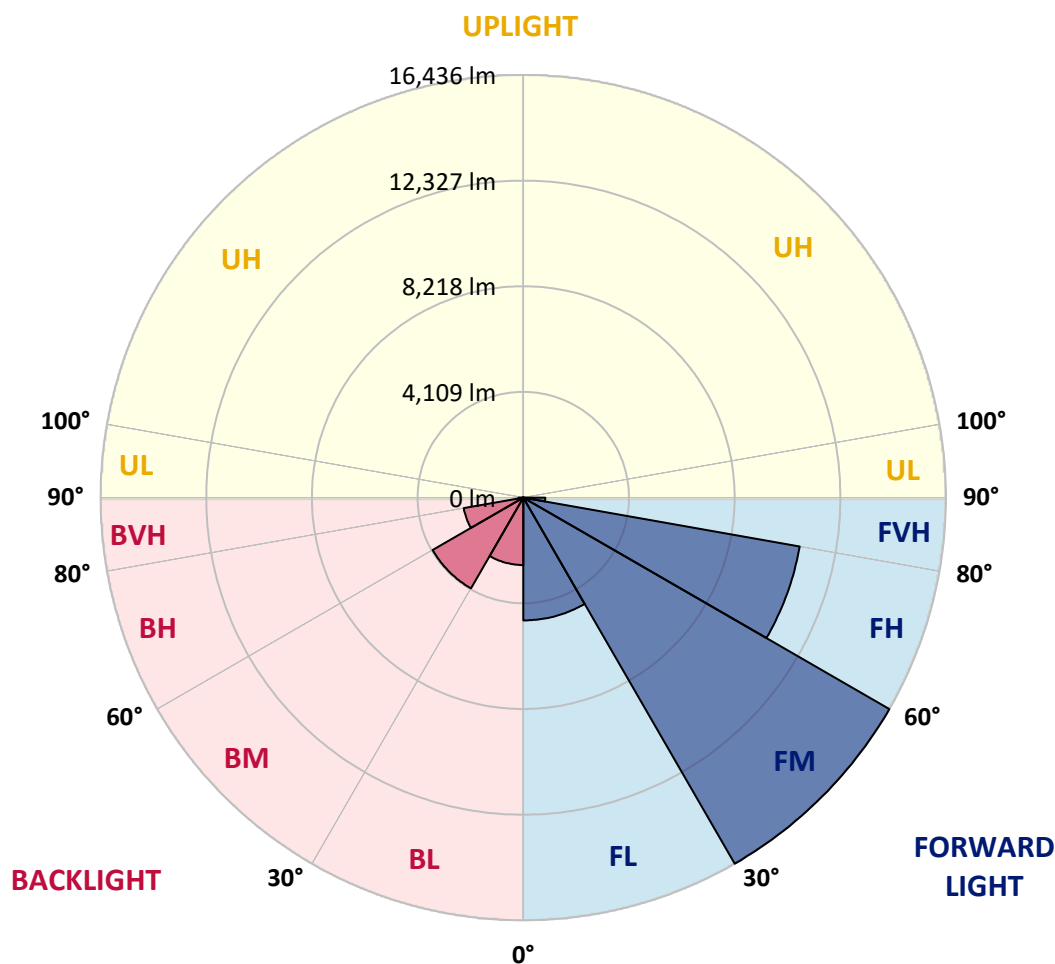
CATALOG NUMBER: GALN-SA7C-740-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 4774.0 | 11.3 | | | |
| FM | (30°-60°) | 16435.7 | 38.9 | | | |
| FH | (60°-80°) | 10914.8 | 25.9 | | | G4/12000 |
| FVH | (80°-90°) | 852.2 | 2.0 | | | G5 |
| BL | (0°-30°) | 2620.4 | 6.2 | B4/5000 | | |
| BM | (30°-60°) | 4071.3 | 9.6 | B3/5000 | | |
| BH | (60°-80°) | 2351.0 | 5.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 190.6 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 |
| 2.5° | 11768.2 | 11723.7 | 11598.3 | 11269.7 | 10938.4 | 10601.4 | 10342.4 | 10019.4 | 9682.5 | 9501.5 | 9270.3 |
| 5° | 11929.7 | 11879.6 | 11584.4 | 10843.7 | 10172.6 | 9468.0 | 8905.5 | 8412.6 | 8212.1 | 7916.9 | 7680.2 |
| 7.5° | 11551.0 | 11528.7 | 11086.0 | 10022.2 | 9103.2 | 8181.5 | 7543.8 | 7148.4 | 6789.1 | 6655.5 | 6683.3 |
| 10° | 11205.7 | 11116.6 | 10562.4 | 9172.9 | 8100.7 | 7351.7 | 6895.0 | 6507.9 | 6254.5 | 6187.6 | 6201.6 |
| 12.5° | 10918.9 | 10799.1 | 10144.7 | 8602.0 | 7663.5 | 7064.8 | 6482.8 | 6079.0 | 5847.9 | 5912.0 | 6129.2 |
| 15° | 10860.4 | 10698.9 | 9969.3 | 8407.1 | 7424.1 | 6652.7 | 6015.0 | 5549.9 | 5377.3 | 5516.5 | 5864.6 |
| 17.5° | 11239.1 | 11035.8 | 10270.0 | 8471.1 | 7195.7 | 6232.2 | 5449.7 | 4917.8 | 4773.0 | 4995.8 | 5449.7 |
| 20° | 12456.0 | 12155.3 | 11208.5 | 8841.5 | 7173.4 | 6023.3 | 5121.1 | 4586.4 | 4647.7 | 5071.0 | 5544.4 |
| 22.5° | 14706.1 | 14255.0 | 12851.5 | 9381.7 | 7290.4 | 5970.4 | 5054.3 | 4775.8 | 5112.7 | 5472.0 | 5783.9 |
| 25° | 15151.6 | 14798.0 | 13146.6 | 9504.2 | 7265.3 | 5934.2 | 5243.6 | 5382.9 | 5758.8 | 5937.0 | 5828.4 |
| 27.5° | 15402.3 | 14998.5 | 13127.2 | 8897.2 | 6496.7 | 5382.9 | 5012.5 | 5243.6 | 5338.3 | 5165.6 | 4870.5 |
| 30° | 15987.1 | 15566.6 | 13458.5 | 8259.5 | 5349.4 | 3993.3 | 3500.4 | 3405.7 | 3469.8 | 3503.2 | 3397.4 |
| 32.5° | 16791.8 | 16376.9 | 14082.3 | 7841.8 | 4625.4 | 3302.7 | 2818.1 | 2684.5 | 2653.8 | 2617.6 | 2575.9 |
| 35° | 17833.3 | 17195.6 | 14694.9 | 7574.4 | 4327.4 | 3054.8 | 2609.3 | 2506.2 | 2464.5 | 2414.3 | 2369.8 |
| 37.5° | 18891.5 | 18223.2 | 15469.1 | 7293.2 | 4129.7 | 2882.2 | 2470.0 | 2422.7 | 2350.3 | 2297.4 | 2233.3 |
| 40° | 20016.5 | 19267.5 | 16173.6 | 7048.1 | 3937.6 | 2770.8 | 2369.8 | 2364.2 | 2269.5 | 2208.3 | 2133.1 |
| 42.5° | 20991.2 | 20219.8 | 16803.0 | 6897.7 | 3790.0 | 2653.8 | 2308.5 | 2325.2 | 2227.8 | 2135.9 | 2038.4 |
| 45° | 21765.3 | 21007.9 | 17385.0 | 6897.7 | 3670.3 | 2536.9 | 2297.4 | 2286.3 | 2188.8 | 2074.6 | 1963.2 |
| 47.5° | 22444.8 | 21662.3 | 17953.1 | 7073.2 | 3595.1 | 2439.4 | 2236.1 | 2255.6 | 2155.4 | 2010.6 | 1902.0 |
| 50° | 22971.1 | 22280.5 | 18718.9 | 7346.1 | 3519.9 | 2361.4 | 2158.2 | 2264.0 | 2127.5 | 1977.1 | 1851.8 |
| 52.5° | 23642.2 | 23024.0 | 19640.6 | 7719.2 | 3455.8 | 2275.1 | 2088.5 | 2264.0 | 2124.7 | 1979.9 | 1843.5 |
| 55° | 24572.3 | 23920.7 | 20751.7 | 8028.3 | 3352.8 | 2194.4 | 2027.3 | 2199.9 | 2116.4 | 1966.0 | 1821.2 |
| 57.5° | 25224.0 | 24736.6 | 21537.0 | 8234.4 | 3205.2 | 2091.3 | 1971.6 | 2138.7 | 2080.2 | 1913.1 | 1754.4 |
| 58° | 25254.6 | 24778.4 | 21651.2 | 8281.7 | 3169.0 | 2071.8 | 1957.7 | 2110.8 | 2063.5 | 1890.8 | 1732.1 |
| 60° | 24903.7 | 24494.4 | 21673.4 | 8214.9 | 2962.9 | 1974.4 | 1885.3 | 1996.6 | 1974.4 | 1759.9 | 1612.4 |
| 62.5° | 23628.3 | 23191.1 | 20774.0 | 7671.9 | 2690.0 | 1854.6 | 1773.9 | 1843.5 | 1793.4 | 1576.1 | 1439.7 |
| 65° | 21815.5 | 21010.7 | 18924.9 | 6819.8 | 2495.1 | 1726.5 | 1623.5 | 1629.1 | 1576.1 | 1420.2 | 1300.5 |
| 67.5° | 19401.1 | 18501.7 | 16023.3 | 5747.7 | 2347.5 | 1584.5 | 1445.3 | 1431.3 | 1367.3 | 1267.0 | 1169.6 |
| 70° | 16429.8 | 15814.4 | 13021.3 | 4675.5 | 2183.2 | 1428.6 | 1244.8 | 1236.4 | 1197.4 | 1122.2 | 1035.9 |
| 72.5° | 13316.5 | 12534.0 | 10515.1 | 3742.7 | 1982.7 | 1278.2 | 1058.2 | 1074.9 | 1024.8 | 971.9 | 893.9 |
| 75° | 9827.3 | 9314.9 | 8128.6 | 3001.9 | 1712.6 | 1113.9 | 882.8 | 888.3 | 866.0 | 810.4 | 749.1 |
| 77.5° | 6471.7 | 6318.5 | 5814.5 | 1971.6 | 1317.2 | 885.5 | 721.2 | 726.8 | 710.1 | 660.0 | 595.9 |
| 80° | 4355.3 | 4252.3 | 3940.4 | 1269.8 | 880.0 | 640.5 | 556.9 | 562.5 | 559.7 | 506.8 | 420.5 |
| 82.5° | 2684.5 | 2639.9 | 2539.7 | 857.7 | 609.9 | 459.5 | 367.6 | 384.3 | 414.9 | 356.4 | 286.8 |
| 85° | 1267.0 | 1269.8 | 1534.4 | 467.8 | 359.2 | 295.2 | 200.5 | 214.4 | 214.4 | 214.4 | 161.5 |
| 87.5° | 164.3 | 172.7 | 211.6 | 197.7 | 130.9 | 111.4 | 72.4 | 61.3 | 52.9 | 69.6 | 50.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 |
| 2.5° | 9189.6 | 9133.9 | 9014.1 | 8986.3 | 8969.6 | 9016.9 | 8891.6 | 8925.0 | 8869.3 | 9025.3 | 9000.2 |
| 5° | 7694.2 | 7699.7 | 7797.2 | 7861.3 | 7883.5 | 7861.3 | 7777.7 | 7632.9 | 7521.5 | 7477.0 | 7488.1 |
| 7.5° | 6630.4 | 6727.9 | 6895.0 | 7081.5 | 7251.4 | 7301.5 | 7254.2 | 6978.5 | 6677.7 | 6488.4 | 6427.1 |
| 10° | 6276.8 | 6407.6 | 6599.8 | 6747.4 | 6897.7 | 7017.5 | 7042.5 | 6828.1 | 6471.7 | 6023.3 | 5847.9 |
| 12.5° | 6296.2 | 6474.5 | 6658.3 | 6705.6 | 6691.7 | 6739.0 | 6716.7 | 6680.5 | 6446.6 | 5875.8 | 5583.4 |
| 15° | 6112.5 | 6324.1 | 6452.2 | 6427.1 | 6382.6 | 6340.8 | 6282.3 | 6190.4 | 6106.9 | 5705.9 | 5382.9 |
| 17.5° | 5689.2 | 5906.4 | 6012.2 | 6020.6 | 6020.6 | 6009.4 | 5867.4 | 5834.0 | 5822.8 | 5627.9 | 5430.2 |
| 20° | 5767.1 | 5886.9 | 5839.6 | 5761.6 | 5783.9 | 5859.0 | 5775.5 | 5758.8 | 5822.8 | 5909.2 | 5873.0 |
| 22.5° | 5811.7 | 5769.9 | 5413.5 | 5068.2 | 4990.2 | 5224.1 | 5271.5 | 5458.0 | 5717.0 | 6028.9 | 6232.2 |
| 25° | 5536.0 | 5199.1 | 4561.4 | 4171.5 | 3951.5 | 4168.7 | 4452.8 | 4798.1 | 5185.1 | 5586.1 | 5822.8 |
| 27.5° | 4628.2 | 4372.0 | 3915.3 | 3564.4 | 3372.3 | 3405.7 | 3648.0 | 3962.7 | 4321.9 | 4592.0 | 4764.6 |
| 30° | 3486.5 | 3372.3 | 3135.6 | 3015.8 | 2898.9 | 2871.0 | 2974.1 | 3093.8 | 3252.5 | 3286.0 | 3330.5 |
| 32.5° | 2567.5 | 2550.8 | 2564.7 | 2525.7 | 2503.5 | 2500.7 | 2470.0 | 2497.9 | 2514.6 | 2534.1 | 2495.1 |
| 35° | 2322.5 | 2300.2 | 2261.2 | 2250.1 | 2236.1 | 2241.7 | 2227.8 | 2213.8 | 2225.0 | 2241.7 | 2252.8 |
| 37.5° | 2197.1 | 2163.7 | 2108.0 | 2088.5 | 2088.5 | 2096.9 | 2074.6 | 2069.0 | 2088.5 | 2141.4 | 2169.3 |
| 40° | 2099.7 | 2060.7 | 1996.6 | 1971.6 | 1988.3 | 2010.6 | 1979.9 | 1968.8 | 2016.1 | 2071.8 | 2116.4 |
| 42.5° | 2007.8 | 1977.1 | 1915.9 | 1888.0 | 1902.0 | 1943.7 | 1899.2 | 1890.8 | 1952.1 | 2013.3 | 2066.3 |
| 45° | 1929.8 | 1899.2 | 1843.5 | 1829.6 | 1835.1 | 1874.1 | 1843.5 | 1843.5 | 1902.0 | 1968.8 | 2016.1 |
| 47.5° | 1868.5 | 1829.6 | 1793.4 | 1782.2 | 1787.8 | 1810.1 | 1804.5 | 1804.5 | 1860.2 | 1929.8 | 1977.1 |
| 50° | 1807.3 | 1773.9 | 1726.5 | 1732.1 | 1746.0 | 1776.6 | 1773.9 | 1782.2 | 1837.9 | 1924.2 | 1974.4 |
| 52.5° | 1779.4 | 1729.3 | 1676.4 | 1682.0 | 1723.7 | 1759.9 | 1748.8 | 1757.2 | 1821.2 | 1982.7 | 2055.1 |
| 55° | 1748.8 | 1682.0 | 1620.7 | 1629.1 | 1676.4 | 1729.3 | 1715.4 | 1726.5 | 1801.7 | 2021.7 | 2122.0 |
| 57.5° | 1690.3 | 1612.4 | 1545.5 | 1551.1 | 1620.7 | 1676.4 | 1654.1 | 1668.0 | 1757.2 | 1979.9 | 2085.8 |
| 58° | 1665.3 | 1598.4 | 1534.4 | 1537.2 | 1604.0 | 1665.3 | 1640.2 | 1651.3 | 1743.2 | 1968.8 | 2069.0 |
| 60° | 1559.4 | 1520.5 | 1464.8 | 1467.5 | 1531.6 | 1584.5 | 1570.6 | 1581.7 | 1670.8 | 1888.0 | 1963.2 |
| 62.5° | 1414.6 | 1392.4 | 1378.4 | 1378.4 | 1417.4 | 1467.5 | 1481.5 | 1495.4 | 1576.1 | 1707.0 | 1773.9 |
| 65° | 1258.7 | 1258.7 | 1261.5 | 1261.5 | 1286.5 | 1350.6 | 1358.9 | 1395.1 | 1470.3 | 1534.4 | 1584.5 |
| 67.5° | 1152.9 | 1147.3 | 1152.9 | 1138.9 | 1150.1 | 1189.1 | 1230.8 | 1264.3 | 1342.2 | 1386.8 | 1403.5 |
| 70° | 1016.4 | 1013.6 | 1016.4 | 996.9 | 1010.9 | 1044.3 | 1072.1 | 1127.8 | 1208.6 | 1242.0 | 1250.3 |
| 72.5° | 882.8 | 882.8 | 888.3 | 874.4 | 874.4 | 910.6 | 930.1 | 991.4 | 1066.5 | 1086.0 | 1088.8 |
| 75° | 743.5 | 751.9 | 751.9 | 732.4 | 737.9 | 760.2 | 785.3 | 835.4 | 905.0 | 919.0 | 919.0 |
| 77.5° | 590.4 | 621.0 | 621.0 | 601.5 | 609.9 | 612.6 | 646.1 | 671.1 | 724.0 | 729.6 | 707.3 |
| 80° | 428.8 | 459.5 | 484.5 | 467.8 | 481.8 | 465.0 | 484.5 | 501.2 | 554.2 | 529.1 | 492.9 |
| 82.5° | 306.3 | 328.6 | 348.1 | 350.9 | 337.0 | 306.3 | 331.4 | 334.2 | 359.2 | 325.8 | 306.3 |
| 85° | 169.9 | 189.4 | 214.4 | 203.3 | 181.0 | 161.5 | 169.9 | 175.4 | 172.7 | 164.3 | 153.2 |
| 87.5° | 44.6 | 47.3 | 52.9 | 39.0 | 36.2 | 30.6 | 41.8 | 41.8 | 47.3 | 50.1 | 47.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 |
| 2.5° | 9019.7 | 9142.2 | 9406.8 | 9607.3 | 9852.3 | 10150.3 | 10501.2 | 10854.8 | 11236.3 | 11356.1 | 11523.2 |
| 5° | 7463.0 | 7769.4 | 7897.5 | 8262.3 | 8624.3 | 9167.3 | 9746.5 | 10417.6 | 11152.8 | 11506.4 | 11846.2 |
| 7.5° | 6377.0 | 6541.3 | 6675.0 | 6942.3 | 7376.7 | 8036.7 | 8763.5 | 9601.7 | 10643.2 | 11158.4 | 11656.8 |
| 10° | 5792.2 | 5808.9 | 5973.2 | 6304.6 | 6683.3 | 7265.3 | 7953.2 | 8891.6 | 10052.8 | 10679.4 | 11264.2 |
| 12.5° | 5405.1 | 5332.7 | 5511.0 | 5856.3 | 6285.1 | 6822.6 | 7454.7 | 8348.6 | 9626.8 | 10270.0 | 10977.4 |
| 15° | 5065.4 | 4951.2 | 5084.9 | 5438.6 | 5861.8 | 6494.0 | 7173.4 | 8120.2 | 9459.7 | 10208.8 | 10994.1 |
| 17.5° | 5073.8 | 4759.1 | 4806.4 | 5104.4 | 5524.9 | 6168.1 | 6992.4 | 8111.9 | 9713.1 | 10576.4 | 11506.4 |
| 20° | 5700.3 | 5196.3 | 4981.9 | 5037.6 | 5444.1 | 6145.9 | 7076.0 | 8501.7 | 10545.7 | 11804.4 | 12798.6 |
| 22.5° | 6315.7 | 6012.2 | 5666.9 | 5552.7 | 5775.5 | 6510.7 | 7607.8 | 9423.5 | 12355.8 | 14252.2 | 16048.3 |
| 25° | 6101.3 | 6360.3 | 6274.0 | 6112.5 | 6162.6 | 6772.4 | 7969.9 | 10180.9 | 13762.1 | 15897.9 | 17585.5 |
| 27.5° | 4881.6 | 5352.2 | 5446.9 | 5444.1 | 5463.6 | 5964.9 | 7167.9 | 9671.3 | 13937.5 | 16212.6 | 17825.0 |
| 30° | 3430.8 | 3472.5 | 3522.7 | 3620.1 | 3709.2 | 4157.6 | 5608.4 | 8490.6 | 13859.5 | 16354.6 | 17969.8 |
| 32.5° | 2475.6 | 2531.3 | 2600.9 | 2734.6 | 2946.2 | 3517.1 | 4906.7 | 8114.7 | 14271.7 | 16942.2 | 18393.1 |
| 35° | 2264.0 | 2328.0 | 2394.9 | 2548.0 | 2748.5 | 3277.6 | 4628.2 | 7958.7 | 14948.4 | 17894.6 | 19153.3 |
| 37.5° | 2197.1 | 2269.5 | 2328.0 | 2439.4 | 2600.9 | 3105.0 | 4374.8 | 7852.9 | 15641.8 | 18902.7 | 20172.5 |
| 40° | 2149.8 | 2233.3 | 2280.7 | 2369.8 | 2481.2 | 2946.2 | 4149.2 | 7769.4 | 16312.9 | 19824.4 | 20991.2 |
| 42.5° | 2108.0 | 2194.4 | 2255.6 | 2319.7 | 2411.6 | 2804.2 | 3948.7 | 7685.8 | 16894.9 | 20718.3 | 21807.1 |
| 45° | 2057.9 | 2166.5 | 2244.5 | 2294.6 | 2375.4 | 2684.5 | 3795.6 | 7619.0 | 17557.6 | 21511.9 | 22631.4 |
| 47.5° | 2016.1 | 2135.9 | 2233.3 | 2291.8 | 2322.5 | 2600.9 | 3673.0 | 7710.9 | 18354.1 | 22341.8 | 23397.2 |
| 50° | 2018.9 | 2133.1 | 2255.6 | 2347.5 | 2266.8 | 2531.3 | 3597.9 | 8075.7 | 19390.0 | 23327.6 | 24001.5 |
| 52.5° | 2108.0 | 2247.3 | 2344.7 | 2367.0 | 2188.8 | 2447.8 | 3558.9 | 8713.4 | 20615.3 | 24199.2 | 24611.3 |
| 55° | 2208.3 | 2353.1 | 2458.9 | 2445.0 | 2147.0 | 2341.9 | 3550.5 | 9392.8 | 21957.5 | 25215.6 | 25405.0 |
| 57.5° | 2172.1 | 2383.7 | 2545.2 | 2472.8 | 2149.8 | 2238.9 | 3514.3 | 9941.4 | 23079.7 | 25975.8 | 26190.3 |
| 58° | 2160.9 | 2372.6 | 2556.4 | 2467.3 | 2141.4 | 2208.3 | 3506.0 | 9988.8 | 23235.7 | 26028.7 | 26301.6 |
| 60° | 2052.3 | 2275.1 | 2548.0 | 2425.5 | 2094.1 | 2124.7 | 3414.1 | 10141.9 | 23193.9 | 25755.8 | 26368.5 |
| 62.5° | 1854.6 | 2038.4 | 2355.9 | 2222.2 | 1949.3 | 2013.3 | 3208.0 | 9952.6 | 22063.3 | 24441.5 | 25391.0 |
| 65° | 1631.8 | 1768.3 | 1979.9 | 1954.9 | 1743.2 | 1899.2 | 2926.7 | 9203.5 | 19799.3 | 22308.4 | 23308.1 |
| 67.5° | 1464.8 | 1576.1 | 1709.8 | 1673.6 | 1567.8 | 1746.0 | 2623.2 | 7936.4 | 17259.7 | 19746.4 | 21005.1 |
| 70° | 1294.9 | 1381.2 | 1448.1 | 1423.0 | 1389.6 | 1595.6 | 2353.1 | 6441.0 | 14825.8 | 17312.6 | 18532.3 |
| 72.5° | 1122.2 | 1203.0 | 1258.7 | 1222.5 | 1203.0 | 1436.9 | 2133.1 | 4998.6 | 11709.7 | 14282.8 | 15850.6 |
| 75° | 938.4 | 1019.2 | 1058.2 | 1016.4 | 1005.3 | 1267.0 | 1807.3 | 3734.3 | 8785.8 | 11010.8 | 12364.1 |
| 77.5° | 726.8 | 813.1 | 863.3 | 849.3 | 854.9 | 1041.5 | 1459.2 | 2556.4 | 6282.3 | 7504.8 | 8930.6 |
| 80° | 509.6 | 604.3 | 637.7 | 623.8 | 662.8 | 793.6 | 1030.3 | 1623.5 | 4333.0 | 4870.5 | 5875.8 |
| 82.5° | 314.7 | 403.8 | 409.4 | 423.3 | 451.1 | 587.6 | 776.9 | 988.6 | 2720.7 | 2812.6 | 3542.2 |
| 85° | 158.7 | 192.1 | 206.1 | 228.3 | 253.4 | 359.2 | 442.8 | 612.6 | 1751.6 | 1325.5 | 1979.9 |
| 87.5° | 52.9 | 55.7 | 66.8 | 83.5 | 103.0 | 147.6 | 189.4 | 250.6 | 434.4 | 239.5 | 612.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 | 10593.1 |
| 2.5° | 11860.1 | 12096.8 | 12269.5 | 12428.2 | 12275.0 | 12261.1 | 12110.7 | 11868.5 | 11768.2 | 11768.2 |
| 5° | 12559.1 | 13113.2 | 13561.6 | 13848.4 | 13725.9 | 13430.7 | 12943.4 | 12322.4 | 11988.2 | 11929.7 |
| 7.5° | 12751.2 | 13845.6 | 14678.2 | 14973.4 | 14767.4 | 14115.7 | 13182.8 | 12135.8 | 11656.8 | 11551.0 |
| 10° | 12634.3 | 14057.2 | 15279.7 | 15747.6 | 15460.7 | 14475.0 | 13202.3 | 11918.6 | 11328.2 | 11205.7 |
| 12.5° | 12511.7 | 14085.1 | 15391.1 | 16067.8 | 15881.2 | 14764.6 | 13344.4 | 11776.6 | 11094.3 | 10918.9 |
| 15° | 12600.8 | 14096.2 | 15254.7 | 15953.6 | 16073.4 | 15112.7 | 13578.3 | 11879.6 | 11047.0 | 10860.4 |
| 17.5° | 13163.4 | 14307.9 | 15059.7 | 15625.0 | 16045.5 | 15586.1 | 14243.8 | 12372.5 | 11470.2 | 11239.1 |
| 20° | 14338.5 | 14814.7 | 15171.1 | 15608.3 | 16285.0 | 16552.4 | 15605.6 | 13725.9 | 12659.3 | 12456.0 |
| 22.5° | 17741.4 | 17655.1 | 16925.5 | 16917.2 | 17897.4 | 18969.5 | 18905.4 | 16477.2 | 14873.2 | 14706.1 |
| 25° | 19016.8 | 18615.8 | 17560.4 | 17304.2 | 17735.9 | 19390.0 | 19150.5 | 17039.7 | 15558.2 | 15151.6 |
| 27.5° | 18518.4 | 17524.2 | 16830.8 | 16772.3 | 16630.3 | 18192.6 | 18769.0 | 17268.0 | 15797.7 | 15402.3 |
| 30° | 18487.7 | 17025.8 | 16034.4 | 16151.4 | 16287.8 | 17780.4 | 18980.6 | 17983.7 | 16410.3 | 15987.1 |
| 32.5° | 18562.9 | 17095.4 | 16092.9 | 16115.2 | 16521.7 | 17841.7 | 19214.5 | 18763.4 | 17215.1 | 16791.8 |
| 35° | 18866.5 | 17490.8 | 16466.0 | 16413.1 | 17048.0 | 18242.7 | 19612.8 | 19988.7 | 18315.1 | 17833.3 |
| 37.5° | 19356.6 | 18278.9 | 17148.3 | 17134.4 | 18056.1 | 18966.7 | 20108.4 | 21225.1 | 19409.5 | 18891.5 |
| 40° | 20077.8 | 19200.6 | 18362.4 | 18287.2 | 19426.2 | 20144.6 | 20751.7 | 22542.3 | 20682.1 | 20016.5 |
| 42.5° | 20949.4 | 20306.2 | 19963.6 | 20261.6 | 21356.0 | 21467.4 | 21754.2 | 23759.2 | 21765.3 | 20991.2 |
| 45° | 21757.0 | 21726.4 | 22202.5 | 22993.4 | 23631.1 | 22962.8 | 22801.3 | 24575.1 | 22606.3 | 21765.3 |
| 47.5° | 22717.7 | 23547.6 | 24984.5 | 26142.9 | 26811.2 | 24703.2 | 23695.2 | 25107.0 | 23219.0 | 22444.8 |
| 50° | 23692.4 | 25728.0 | 28022.6 | 29637.7 | 29779.8 | 26594.0 | 24310.6 | 25608.3 | 23775.9 | 22971.1 |
| 52.5° | 24717.1 | 27468.4 | 30523.3 | 32400.2 | 32124.5 | 28239.8 | 24906.5 | 25948.0 | 24349.6 | 23642.2 |
| 55° | 25608.3 | 28535.0 | 31921.2 | 33722.9 | 33319.1 | 29242.3 | 25549.8 | 26315.6 | 25168.3 | 24572.3 |
| 57.5° | 26106.7 | 28624.1 | 31573.1 | 33146.5 | 32709.3 | 29047.4 | 25845.0 | 26588.5 | 25691.8 | 25224.0 |
| 58° | 26179.1 | 28504.4 | 31264.0 | 32812.3 | 32366.8 | 28883.1 | 25842.2 | 26577.3 | 25725.2 | 25254.6 |
| 60° | 26115.1 | 27727.4 | 30113.9 | 31492.4 | 31024.5 | 27852.7 | 25736.3 | 26368.5 | 25301.9 | 24903.7 |
| 62.5° | 25521.9 | 26379.6 | 28128.4 | 29130.9 | 28997.3 | 26243.2 | 25301.9 | 25580.4 | 24012.6 | 23628.3 |
| 65° | 24742.2 | 24541.7 | 25586.0 | 26296.1 | 26396.3 | 25037.4 | 24870.3 | 23876.2 | 22358.5 | 21815.5 |
| 67.5° | 23795.4 | 22458.7 | 22456.0 | 22859.7 | 23026.8 | 23182.8 | 23970.8 | 22024.3 | 19974.8 | 19401.1 |
| 70° | 22188.6 | 19248.0 | 18362.4 | 18838.6 | 18699.4 | 20016.5 | 22364.1 | 19423.4 | 17100.9 | 16429.8 |
| 72.5° | 19242.4 | 15274.2 | 13856.7 | 14469.4 | 14118.5 | 15697.4 | 19568.2 | 15984.3 | 14140.8 | 13316.5 |
| 75° | 15597.2 | 11425.7 | 9963.7 | 10526.2 | 10309.0 | 11907.4 | 16282.2 | 11609.5 | 10141.9 | 9827.3 |
| 77.5° | 12110.7 | 8279.0 | 7429.6 | 7351.7 | 7513.2 | 8861.0 | 11943.6 | 7839.0 | 6686.1 | 6471.7 |
| 80° | 7780.5 | 5925.9 | 5976.0 | 5875.8 | 5959.3 | 5586.1 | 7251.4 | 5001.4 | 4527.9 | 4355.3 |
| 82.5° | 5121.1 | 4129.7 | 4923.4 | 4544.7 | 4316.3 | 3756.6 | 4756.3 | 3274.8 | 2779.1 | 2684.5 |
| 85° | 3489.2 | 3040.9 | 2768.0 | 2116.4 | 2492.3 | 2893.3 | 3567.2 | 1762.7 | 1397.9 | 1267.0 |
| 87.5° | 1576.1 | 1058.2 | 776.9 | 479.0 | 757.4 | 874.4 | 1732.1 | 206.1 | 158.7 | 164.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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