

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: LUMARK

Report Number: P144910

Luminaire Tested: **LDRC-SL2-E04-E**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144910
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRC-SL2-E04-E
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11711.9 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

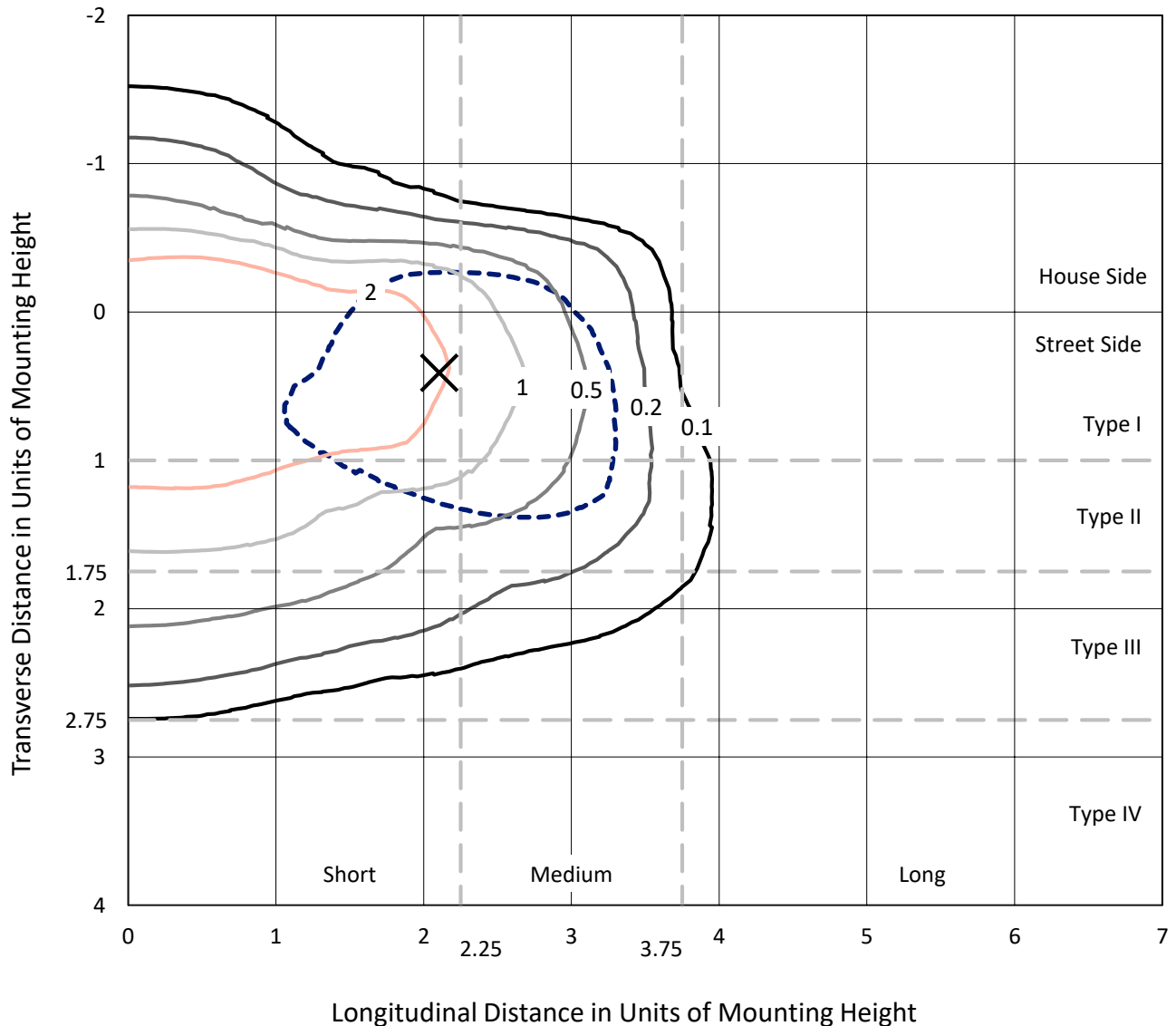
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

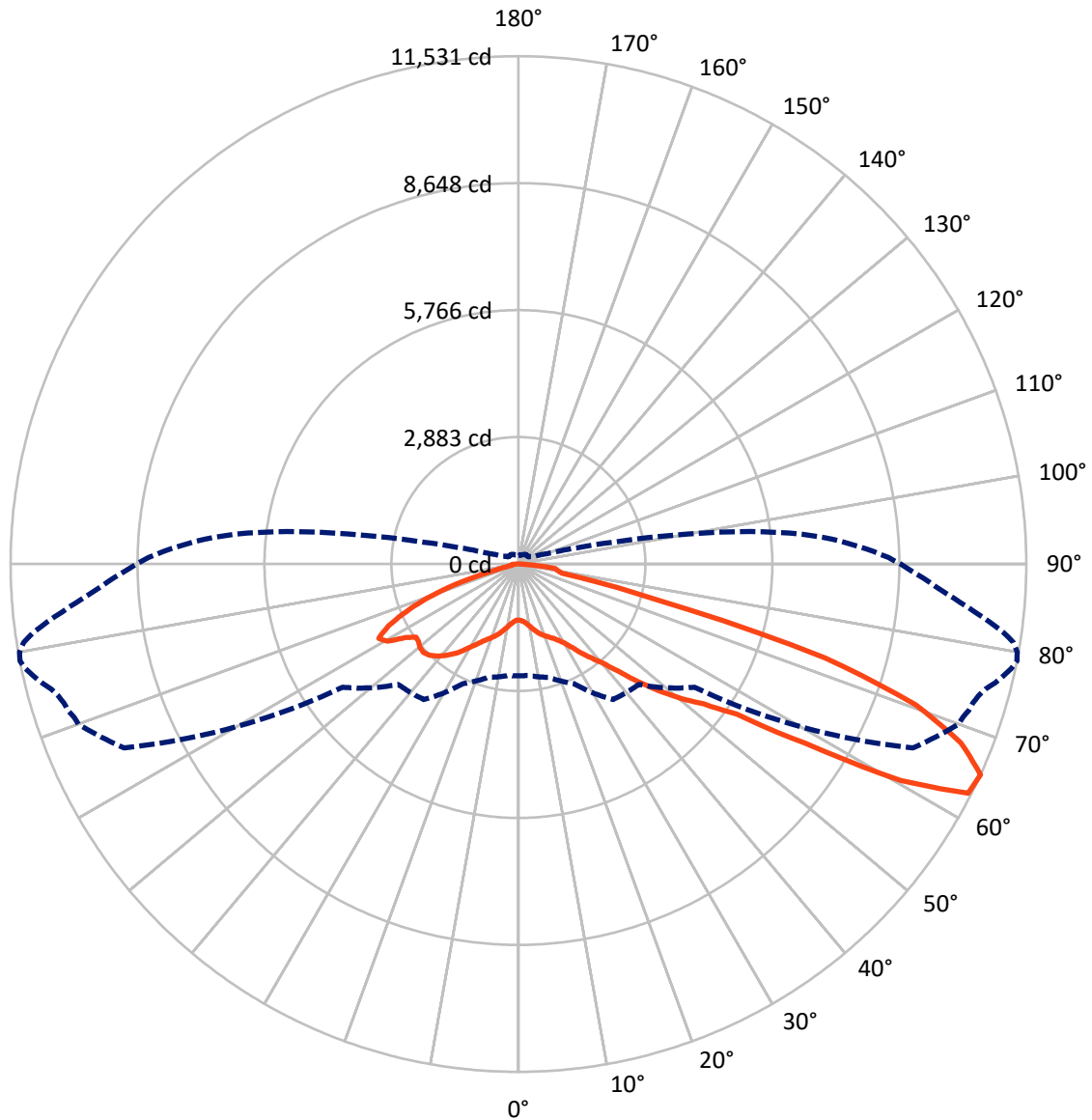
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2658.5 | 0.0 | 2658.5 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 9053.5 | 0.0 | 9053.5 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 11711.9 | 0.0 | 11711.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 126.4 | 1.1 |
| 10°-20° | 411.3 | 3.5 |
| 20°-30° | 709.0 | 6.1 |
| 30°-40° | 1156.2 | 9.9 |
| 40°-50° | 1930.2 | 16.5 |
| 50°-60° | 2610.0 | 22.3 |
| 60°-70° | 3242.4 | 27.7 |
| 70°-80° | 1298.4 | 11.1 |
| 80°-90° | 228.1 | 1.9 |
| 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° | 11711.9 | 100.0 |
| 0°-180° | 11711.9 | 100.0 |



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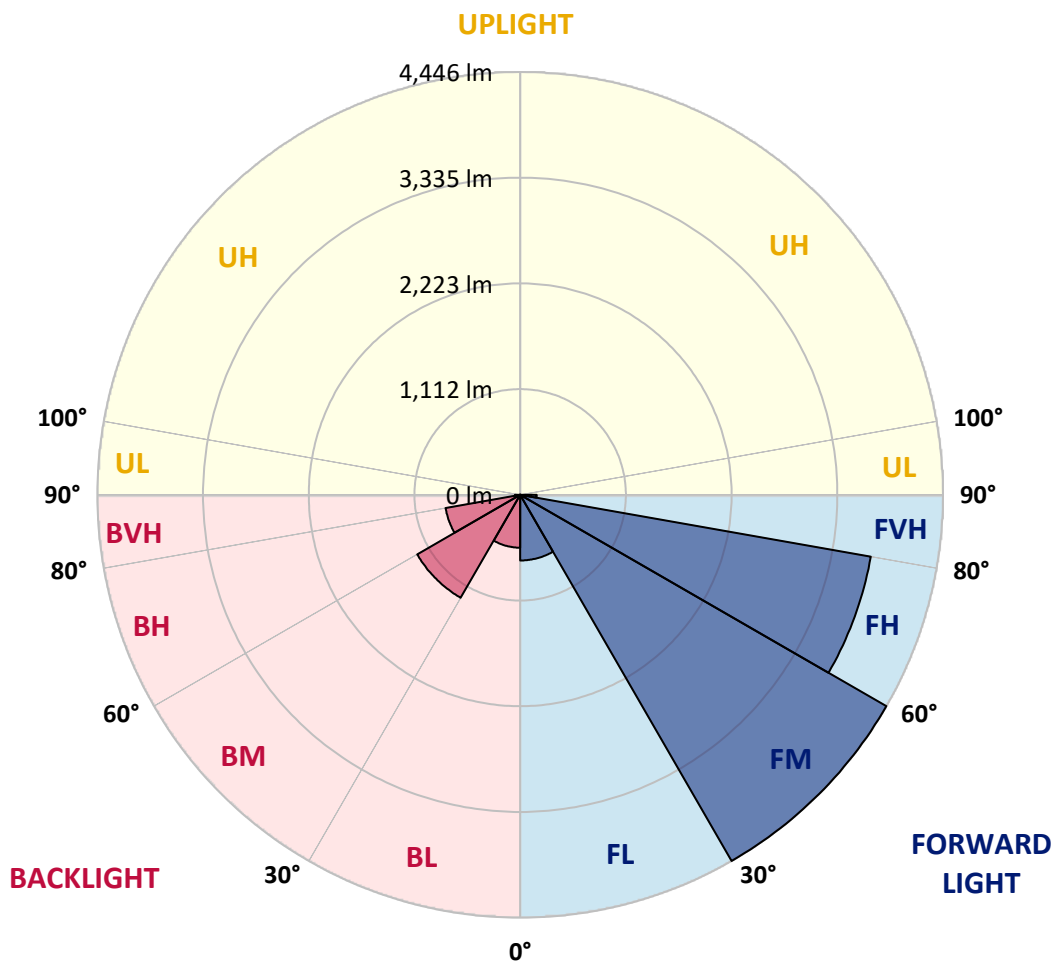
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 690.6 | 5.9 | | | |
| FM (30°-60°) | 4446.0 | 38.0 | | | |
| FH (60°-80°) | 3743.8 | 32.0 | | | G2/5000 |
| FVH (80°-90°) | 173.0 | 1.5 | | | G2/225 |
| BL (0°-30°) | 556.0 | 4.7 | B2/1000 | | |
| BM (30°-60°) | 1250.4 | 10.7 | B2/2500 | | |
| BH (60°-80°) | 797.0 | 6.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 55.1 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 71° | 72° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 |
| 2.5° | 1282.4 | 1281.6 | 1285.6 | 1288.8 | 1288.8 | 1290.4 | 1289.6 | 1284.8 | 1285.6 | 1287.2 | 1285.6 |
| 5° | 1296.8 | 1293.6 | 1297.6 | 1302.4 | 1305.6 | 1309.6 | 1313.6 | 1314.4 | 1317.6 | 1317.6 | 1316.8 |
| 7.5° | 1328.0 | 1325.6 | 1331.2 | 1332.8 | 1340.0 | 1346.4 | 1354.4 | 1360.0 | 1363.2 | 1364.8 | 1367.2 |
| 10° | 1381.6 | 1380.0 | 1381.6 | 1384.8 | 1388.0 | 1395.2 | 1408.8 | 1420.8 | 1428.0 | 1428.0 | 1431.2 |
| 12.5° | 1446.4 | 1440.0 | 1441.6 | 1435.2 | 1436.8 | 1452.0 | 1468.0 | 1488.0 | 1500.0 | 1501.6 | 1503.2 |
| 15° | 1496.8 | 1493.6 | 1491.2 | 1482.4 | 1488.8 | 1508.8 | 1533.6 | 1562.4 | 1572.8 | 1581.6 | 1580.8 |
| 17.5° | 1544.0 | 1540.0 | 1534.4 | 1522.4 | 1528.8 | 1560.8 | 1598.4 | 1630.4 | 1648.0 | 1649.6 | 1651.2 |
| 20° | 1600.0 | 1595.2 | 1584.8 | 1560.0 | 1558.4 | 1603.2 | 1653.6 | 1688.0 | 1704.0 | 1711.2 | 1713.6 |
| 22.5° | 1671.2 | 1664.8 | 1645.6 | 1597.6 | 1584.8 | 1637.6 | 1697.6 | 1740.0 | 1756.8 | 1764.0 | 1768.0 |
| 25° | 1762.4 | 1749.6 | 1719.2 | 1644.0 | 1617.6 | 1672.8 | 1744.8 | 1796.0 | 1819.2 | 1826.4 | 1831.2 |
| 27.5° | 1844.8 | 1835.2 | 1798.4 | 1709.6 | 1664.0 | 1720.0 | 1802.4 | 1868.0 | 1900.0 | 1908.8 | 1916.0 |
| 30° | 1940.8 | 1927.2 | 1897.6 | 1803.2 | 1742.4 | 1792.0 | 1896.8 | 1980.0 | 2019.2 | 2020.0 | 2036.0 |
| 32.5° | 2166.4 | 2157.6 | 2130.4 | 2026.4 | 1924.0 | 1927.2 | 2024.8 | 2139.2 | 2178.4 | 2184.8 | 2199.2 |
| 35° | 2500.8 | 2497.6 | 2496.8 | 2439.2 | 2363.2 | 2284.8 | 2292.0 | 2379.2 | 2405.6 | 2416.0 | 2420.8 |
| 37.5° | 2720.8 | 2748.8 | 2816.8 | 2858.4 | 2839.2 | 2856.0 | 2768.0 | 2661.6 | 2646.4 | 2635.2 | 2640.0 |
| 40° | 2910.4 | 2935.2 | 3072.8 | 3264.8 | 3381.6 | 3464.0 | 3386.4 | 3060.0 | 2938.4 | 2903.2 | 2889.6 |
| 42.5° | 3022.4 | 3050.4 | 3247.2 | 3554.4 | 3852.0 | 4047.2 | 4068.0 | 3614.4 | 3305.6 | 3301.6 | 3250.4 |
| 45° | 3083.2 | 3111.2 | 3346.4 | 3760.0 | 4180.8 | 4532.8 | 4715.2 | 4296.8 | 3843.2 | 3809.6 | 3738.4 |
| 47.5° | 3071.2 | 3097.6 | 3342.4 | 3836.0 | 4375.2 | 4855.2 | 5220.0 | 4986.4 | 4463.2 | 4382.4 | 4284.0 |
| 50° | 2924.8 | 2944.0 | 3200.8 | 3712.0 | 4323.2 | 4989.6 | 5565.6 | 5619.2 | 5164.8 | 5055.2 | 4908.0 |
| 52.5° | 2773.6 | 2808.0 | 3020.8 | 3492.0 | 4087.2 | 4906.4 | 5772.0 | 6195.2 | 5820.0 | 5744.8 | 5556.0 |
| 55° | 2692.0 | 2719.2 | 2892.8 | 3295.2 | 3838.4 | 4622.4 | 5857.6 | 6738.4 | 6616.0 | 6585.6 | 6452.0 |
| 57.5° | 2688.8 | 2715.2 | 2853.6 | 3176.0 | 3636.0 | 4326.4 | 5882.4 | 7577.6 | 7936.8 | 7944.8 | 7906.4 |
| 60° | 2820.0 | 2847.2 | 2963.2 | 3233.6 | 3573.6 | 4072.8 | 5793.6 | 8768.0 | 9561.6 | 9632.0 | 9749.6 |
| 62.5° | 2838.4 | 2851.2 | 2991.2 | 3356.0 | 3800.8 | 3883.2 | 5428.0 | 9759.2 | 10678.4 | 10743.2 | 10808.0 |
| 65° | 2539.2 | 2538.4 | 2662.4 | 2998.4 | 3753.6 | 3864.0 | 4878.4 | 9880.8 | 10633.6 | 10672.8 | 10753.6 |
| 67.5° | 1893.6 | 1877.6 | 1948.0 | 2255.2 | 2978.4 | 3868.8 | 4227.2 | 8963.2 | 9804.8 | 9879.2 | 9906.4 |
| 70° | 976.0 | 1000.8 | 1048.8 | 1236.8 | 1891.2 | 3114.4 | 3631.2 | 7562.4 | 8607.2 | 8635.2 | 8732.0 |
| 72.5° | 400.8 | 390.4 | 423.2 | 520.0 | 946.4 | 2058.4 | 3004.0 | 5968.0 | 7108.8 | 7089.6 | 7107.2 |
| 75° | 223.2 | 226.4 | 236.0 | 271.2 | 460.0 | 1033.6 | 2580.8 | 4224.8 | 4834.4 | 4503.2 | 4403.2 |
| 77.5° | 179.2 | 180.8 | 181.6 | 188.0 | 251.2 | 551.2 | 1980.8 | 2782.4 | 2431.2 | 2257.6 | 2191.2 |
| 80° | 131.2 | 140.0 | 149.6 | 151.2 | 172.8 | 312.8 | 1086.4 | 2342.4 | 2052.0 | 1908.0 | 1789.6 |
| 82.5° | 105.6 | 109.6 | 130.4 | 133.6 | 137.6 | 186.4 | 492.0 | 2200.0 | 2044.0 | 1896.8 | 1733.6 |
| 85° | 63.2 | 70.4 | 106.4 | 107.2 | 108.8 | 113.6 | 272.0 | 896.0 | 1114.4 | 984.8 | 901.6 |
| 87.5° | 22.4 | 28.8 | 52.8 | 44.0 | 56.0 | 46.4 | 119.2 | 300.0 | 369.6 | 351.2 | 311.2 |
| 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):

| | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 |
| 2.5° | 1284.8 | 1284.8 | 1286.4 | 1285.6 | 1285.6 | 1285.6 | 1285.6 | 1284.0 | 1284.0 | 1281.6 | 1283.2 |
| 5° | 1316.8 | 1316.0 | 1316.8 | 1317.6 | 1316.8 | 1318.4 | 1317.6 | 1316.8 | 1317.6 | 1316.8 | 1317.6 |
| 7.5° | 1368.0 | 1364.0 | 1369.6 | 1366.4 | 1365.6 | 1370.4 | 1370.4 | 1370.4 | 1371.2 | 1370.4 | 1369.6 |
| 10° | 1432.8 | 1435.2 | 1435.2 | 1435.2 | 1433.6 | 1438.4 | 1439.2 | 1440.8 | 1441.6 | 1444.8 | 1444.8 |
| 12.5° | 1507.2 | 1508.0 | 1511.2 | 1510.4 | 1512.0 | 1517.6 | 1521.6 | 1522.4 | 1523.2 | 1525.6 | 1522.4 |
| 15° | 1587.2 | 1588.8 | 1588.8 | 1596.0 | 1593.6 | 1601.6 | 1604.0 | 1604.0 | 1604.8 | 1614.4 | 1615.2 |
| 17.5° | 1658.4 | 1658.4 | 1664.8 | 1664.8 | 1671.2 | 1672.8 | 1680.0 | 1680.8 | 1684.0 | 1692.8 | 1693.6 |
| 20° | 1718.4 | 1721.6 | 1725.6 | 1730.4 | 1732.8 | 1737.6 | 1742.4 | 1747.2 | 1751.2 | 1758.4 | 1759.2 |
| 22.5° | 1775.2 | 1778.4 | 1784.8 | 1788.0 | 1793.6 | 1796.8 | 1800.8 | 1806.4 | 1812.8 | 1822.4 | 1824.8 |
| 25° | 1840.8 | 1844.0 | 1851.2 | 1856.0 | 1862.4 | 1867.2 | 1874.4 | 1881.6 | 1885.6 | 1895.2 | 1902.4 |
| 27.5° | 1924.0 | 1933.6 | 1943.2 | 1945.6 | 1950.4 | 1961.6 | 1971.2 | 1980.8 | 1989.6 | 1994.4 | 2003.2 |
| 30° | 2045.6 | 2045.6 | 2065.6 | 2065.6 | 2074.4 | 2084.8 | 2091.2 | 2101.6 | 2117.6 | 2122.4 | 2133.6 |
| 32.5° | 2208.8 | 2212.8 | 2220.0 | 2241.6 | 2257.6 | 2262.4 | 2267.2 | 2282.4 | 2292.0 | 2304.0 | 2317.6 |
| 35° | 2441.6 | 2445.6 | 2449.6 | 2470.4 | 2488.8 | 2493.6 | 2498.4 | 2508.0 | 2524.0 | 2544.8 | 2538.4 |
| 37.5° | 2650.4 | 2652.8 | 2665.6 | 2688.8 | 2699.2 | 2712.0 | 2716.0 | 2733.6 | 2742.4 | 2761.6 | 2762.4 |
| 40° | 2901.6 | 2896.0 | 2903.2 | 2929.6 | 2945.6 | 2944.8 | 2957.6 | 2989.6 | 2996.0 | 3004.8 | 3027.2 |
| 42.5° | 3252.0 | 3231.2 | 3253.6 | 3262.4 | 3286.4 | 3301.6 | 3327.2 | 3348.8 | 3364.0 | 3397.6 | 3413.6 |
| 45° | 3704.8 | 3683.2 | 3701.6 | 3705.6 | 3755.2 | 3770.4 | 3808.8 | 3837.6 | 3870.4 | 3908.8 | 3920.0 |
| 47.5° | 4220.8 | 4180.8 | 4158.4 | 4183.2 | 4242.4 | 4267.2 | 4304.8 | 4332.0 | 4366.4 | 4386.4 | 4380.0 |
| 50° | 4818.4 | 4722.4 | 4677.6 | 4664.8 | 4707.2 | 4742.4 | 4800.8 | 4813.6 | 4829.6 | 4828.8 | 4829.6 |
| 52.5° | 5484.8 | 5384.8 | 5291.2 | 5226.4 | 5220.0 | 5267.2 | 5281.6 | 5284.8 | 5280.0 | 5244.0 | 5221.6 |
| 55° | 6355.2 | 6348.0 | 6249.6 | 6115.2 | 6106.4 | 6100.8 | 6016.8 | 6006.4 | 5987.2 | 5932.0 | 5856.0 |
| 57.5° | 7934.4 | 8014.4 | 7949.6 | 7946.4 | 7876.0 | 7829.6 | 7675.2 | 7598.4 | 7517.6 | 7368.0 | 7248.8 |
| 60° | 9760.0 | 9876.0 | 9940.0 | 9968.0 | 10105.6 | 10105.6 | 9979.2 | 9870.4 | 9739.2 | 9511.2 | 9288.8 |
| 62.5° | 10859.2 | 10960.8 | 11055.2 | 11203.2 | 11378.4 | 11456.0 | 11462.4 | 11365.6 | 11200.0 | 10940.0 | 10625.6 |
| 65° | 10789.6 | 10864.8 | 10979.2 | 11153.6 | 11298.4 | 11437.6 | 11531.2 | 11501.6 | 11375.2 | 11115.2 | 10772.8 |
| 67.5° | 10001.6 | 10111.2 | 10259.2 | 10420.0 | 10554.4 | 10685.6 | 10836.8 | 10848.0 | 10814.4 | 10567.2 | 10257.6 |
| 70° | 8785.6 | 8926.4 | 9020.0 | 9222.4 | 9283.2 | 9416.0 | 9568.0 | 9640.8 | 9586.4 | 9396.0 | 9214.4 |
| 72.5° | 7137.6 | 7248.8 | 7264.8 | 7176.8 | 7207.2 | 7240.0 | 7276.8 | 7106.4 | 7040.8 | 6786.4 | 6669.6 |
| 75° | 4328.0 | 4181.6 | 4058.4 | 3936.0 | 3570.4 | 3440.8 | 3241.6 | 2848.8 | 2804.0 | 2534.4 | 2347.2 |
| 77.5° | 2058.4 | 1996.8 | 1885.6 | 1699.2 | 1451.2 | 1213.6 | 1007.2 | 818.4 | 748.0 | 616.0 | 524.8 |
| 80° | 1723.2 | 1649.6 | 1549.6 | 1411.2 | 1237.6 | 1064.8 | 901.6 | 761.6 | 620.8 | 505.6 | 404.0 |
| 82.5° | 1580.8 | 1452.8 | 1312.0 | 1192.8 | 1070.4 | 952.8 | 843.2 | 716.8 | 642.4 | 518.4 | 423.2 |
| 85° | 799.2 | 700.0 | 567.2 | 477.6 | 403.2 | 328.0 | 284.0 | 242.4 | 216.0 | 172.0 | 149.6 |
| 87.5° | 268.0 | 219.2 | 163.2 | 138.4 | 124.8 | 107.2 | 98.4 | 93.6 | 91.2 | 80.8 | 72.0 |
| 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):

| | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 |
| 2.5° | 1283.2 | 1283.2 | 1283.2 | 1283.2 | 1282.4 | 1282.4 | 1282.4 | 1282.4 | 1282.4 | 1282.4 | 1283.2 |
| 5° | 1316.0 | 1316.0 | 1316.8 | 1319.2 | 1314.4 | 1316.0 | 1317.6 | 1315.2 | 1317.6 | 1315.2 | 1318.4 |
| 7.5° | 1368.8 | 1371.2 | 1369.6 | 1372.8 | 1371.2 | 1376.0 | 1372.8 | 1370.4 | 1372.0 | 1372.0 | 1372.8 |
| 10° | 1443.2 | 1446.4 | 1444.0 | 1445.6 | 1445.6 | 1448.8 | 1444.8 | 1445.6 | 1446.4 | 1444.8 | 1445.6 |
| 12.5° | 1525.6 | 1527.2 | 1526.4 | 1531.2 | 1528.8 | 1531.2 | 1528.8 | 1532.0 | 1533.6 | 1535.2 | 1535.2 |
| 15° | 1615.2 | 1616.8 | 1621.6 | 1620.8 | 1625.6 | 1624.0 | 1624.8 | 1620.8 | 1628.8 | 1624.0 | 1625.6 |
| 17.5° | 1697.6 | 1696.8 | 1703.2 | 1705.6 | 1706.4 | 1707.2 | 1709.6 | 1706.4 | 1707.2 | 1709.6 | 1708.0 |
| 20° | 1761.6 | 1767.2 | 1768.8 | 1775.2 | 1780.0 | 1781.6 | 1780.8 | 1783.2 | 1786.4 | 1783.2 | 1783.2 |
| 22.5° | 1829.6 | 1837.6 | 1840.0 | 1844.0 | 1848.8 | 1849.6 | 1854.4 | 1856.8 | 1858.4 | 1857.6 | 1858.4 |
| 25° | 1911.2 | 1916.8 | 1922.4 | 1930.4 | 1936.0 | 1936.8 | 1940.8 | 1944.0 | 1944.8 | 1944.0 | 1948.8 |
| 27.5° | 2011.2 | 2018.4 | 2025.6 | 2035.2 | 2041.6 | 2043.2 | 2052.0 | 2052.0 | 2056.8 | 2059.2 | 2060.8 |
| 30° | 2140.0 | 2142.4 | 2160.8 | 2170.4 | 2168.0 | 2179.2 | 2191.2 | 2190.4 | 2196.0 | 2197.6 | 2201.6 |
| 32.5° | 2327.2 | 2327.2 | 2343.2 | 2355.2 | 2368.0 | 2364.0 | 2382.4 | 2379.2 | 2388.0 | 2392.8 | 2390.4 |
| 35° | 2554.4 | 2562.4 | 2574.4 | 2581.6 | 2595.2 | 2602.4 | 2615.2 | 2622.4 | 2626.4 | 2625.6 | 2616.8 |
| 37.5° | 2788.8 | 2801.6 | 2806.4 | 2824.0 | 2837.6 | 2849.6 | 2851.2 | 2843.2 | 2846.4 | 2830.4 | 2825.6 |
| 40° | 3056.8 | 3075.2 | 3086.4 | 3112.8 | 3111.2 | 3126.4 | 3128.0 | 3104.8 | 3100.8 | 3080.0 | 3058.4 |
| 42.5° | 3431.2 | 3456.8 | 3465.6 | 3485.6 | 3469.6 | 3476.8 | 3436.8 | 3427.2 | 3395.2 | 3361.6 | 3312.8 |
| 45° | 3936.0 | 3923.2 | 3928.8 | 3923.2 | 3880.8 | 3849.6 | 3816.8 | 3769.6 | 3722.4 | 3657.6 | 3588.0 |
| 47.5° | 4380.0 | 4386.4 | 4344.8 | 4318.4 | 4249.6 | 4205.6 | 4145.6 | 4063.2 | 4005.6 | 3918.4 | 3826.4 |
| 50° | 4811.2 | 4740.0 | 4681.6 | 4620.8 | 4560.0 | 4479.2 | 4388.8 | 4316.0 | 4232.0 | 4123.2 | 4010.4 |
| 52.5° | 5161.6 | 5069.6 | 4999.2 | 4912.8 | 4830.4 | 4740.8 | 4646.4 | 4540.8 | 4430.4 | 4321.6 | 4182.4 |
| 55° | 5782.4 | 5648.8 | 5558.4 | 5407.2 | 5313.6 | 5188.0 | 5114.4 | 4977.6 | 4824.0 | 4680.0 | 4532.0 |
| 57.5° | 7114.4 | 6914.4 | 6811.2 | 6725.6 | 6580.0 | 6373.6 | 6242.4 | 6017.6 | 5798.4 | 5644.8 | 5398.4 |
| 60° | 9120.8 | 8917.6 | 8746.4 | 8544.0 | 8320.8 | 8040.8 | 7916.0 | 7651.2 | 7337.6 | 7084.0 | 6758.4 |
| 62.5° | 10371.2 | 10090.4 | 9812.8 | 9528.8 | 9304.8 | 9085.6 | 8827.2 | 8560.0 | 8249.6 | 7904.8 | 7548.8 |
| 65° | 10421.6 | 10084.8 | 9752.8 | 9463.2 | 9200.8 | 8916.0 | 8673.6 | 8402.4 | 8076.0 | 7720.8 | 7351.2 |
| 67.5° | 9898.4 | 9521.6 | 9165.6 | 8848.0 | 8548.0 | 8284.0 | 8030.4 | 7775.2 | 7425.6 | 7128.0 | 6749.6 |
| 70° | 8856.0 | 8512.0 | 8189.6 | 7828.0 | 7598.4 | 7301.6 | 7054.4 | 6785.6 | 6535.2 | 6256.8 | 5902.4 |
| 72.5° | 6504.8 | 6245.6 | 5877.6 | 5724.0 | 5600.8 | 5286.4 | 5102.4 | 5080.0 | 4920.0 | 4586.4 | 4321.6 |
| 75° | 2419.2 | 2059.2 | 1950.4 | 2015.2 | 1907.2 | 1943.2 | 1929.6 | 1852.8 | 1856.0 | 1799.2 | 1732.0 |
| 77.5° | 473.6 | 440.0 | 413.6 | 420.8 | 391.2 | 378.4 | 405.6 | 397.6 | 383.2 | 387.2 | 380.8 |
| 80° | 322.4 | 272.8 | 247.2 | 237.6 | 225.6 | 220.0 | 218.4 | 216.0 | 211.2 | 208.8 | 201.6 |
| 82.5° | 317.6 | 236.0 | 186.4 | 160.0 | 150.4 | 145.6 | 141.6 | 140.8 | 139.2 | 138.4 | 140.8 |
| 85° | 126.4 | 102.4 | 93.6 | 85.6 | 83.2 | 80.8 | 80.8 | 80.0 | 79.2 | 80.8 | 84.0 |
| 87.5° | 61.6 | 52.0 | 47.2 | 43.2 | 41.6 | 40.8 | 40.8 | 41.6 | 42.4 | 45.6 | 52.0 |
| 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):

| | 95° | 96° | 97° | 98° | 99° | 100° | 101° | 102° | 103° | 104° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 |
| 2.5° | 1281.6 | 1282.4 | 1280.8 | 1281.6 | 1280.8 | 1279.2 | 1278.4 | 1280.8 | 1280.0 | 1279.2 | 1279.2 |
| 5° | 1314.4 | 1317.6 | 1316.0 | 1314.4 | 1314.4 | 1313.6 | 1313.6 | 1313.6 | 1312.8 | 1313.6 | 1311.2 |
| 7.5° | 1371.2 | 1370.4 | 1370.4 | 1368.8 | 1367.2 | 1368.8 | 1368.0 | 1365.6 | 1366.4 | 1364.8 | 1362.4 |
| 10° | 1444.0 | 1441.6 | 1445.6 | 1445.6 | 1442.4 | 1441.6 | 1440.0 | 1437.6 | 1437.6 | 1435.2 | 1435.2 |
| 12.5° | 1530.4 | 1528.0 | 1533.6 | 1529.6 | 1524.8 | 1524.0 | 1519.2 | 1517.6 | 1520.0 | 1519.2 | 1517.6 |
| 15° | 1618.4 | 1619.2 | 1621.6 | 1620.8 | 1615.2 | 1615.2 | 1608.8 | 1609.6 | 1604.8 | 1603.2 | 1599.2 |
| 17.5° | 1704.0 | 1704.8 | 1702.4 | 1702.4 | 1698.4 | 1696.0 | 1688.8 | 1689.6 | 1686.4 | 1680.0 | 1675.2 |
| 20° | 1780.8 | 1780.0 | 1774.4 | 1779.2 | 1771.2 | 1769.6 | 1763.2 | 1756.8 | 1758.4 | 1752.0 | 1742.4 |
| 22.5° | 1856.0 | 1854.4 | 1852.8 | 1850.4 | 1846.4 | 1844.8 | 1837.6 | 1836.8 | 1828.8 | 1819.2 | 1811.2 |
| 25° | 1943.2 | 1942.4 | 1940.0 | 1940.8 | 1932.8 | 1933.6 | 1920.8 | 1917.6 | 1912.8 | 1902.4 | 1896.0 |
| 27.5° | 2056.0 | 2056.0 | 2049.6 | 2047.2 | 2044.8 | 2041.6 | 2030.4 | 2022.4 | 2010.4 | 1998.4 | 1985.6 |
| 30° | 2194.4 | 2192.8 | 2191.2 | 2184.8 | 2176.0 | 2171.2 | 2151.2 | 2138.4 | 2122.4 | 2100.0 | 2080.8 |
| 32.5° | 2392.0 | 2378.4 | 2367.2 | 2352.8 | 2338.4 | 2323.2 | 2292.0 | 2270.4 | 2244.8 | 2208.8 | 2178.4 |
| 35° | 2612.0 | 2588.8 | 2576.8 | 2547.2 | 2520.0 | 2489.6 | 2452.0 | 2408.0 | 2372.8 | 2325.6 | 2276.0 |
| 37.5° | 2793.6 | 2776.0 | 2744.0 | 2710.4 | 2672.0 | 2614.4 | 2572.0 | 2524.8 | 2463.2 | 2411.2 | 2351.2 |
| 40° | 3017.6 | 2977.6 | 2932.0 | 2876.0 | 2823.2 | 2758.4 | 2700.0 | 2632.0 | 2556.8 | 2481.6 | 2403.2 |
| 42.5° | 3252.8 | 3191.2 | 3116.0 | 3051.2 | 2971.2 | 2886.4 | 2810.4 | 2718.4 | 2622.4 | 2521.6 | 2416.8 |
| 45° | 3492.8 | 3416.8 | 3316.8 | 3224.8 | 3113.6 | 3007.2 | 2898.4 | 2772.8 | 2641.6 | 2507.2 | 2375.2 |
| 47.5° | 3712.8 | 3601.6 | 3488.0 | 3364.0 | 3236.0 | 3099.2 | 2944.8 | 2780.0 | 2607.2 | 2430.4 | 2265.6 |
| 50° | 3885.6 | 3746.4 | 3603.2 | 3460.0 | 3303.2 | 3125.6 | 2931.2 | 2716.0 | 2503.2 | 2291.2 | 2101.6 |
| 52.5° | 4038.4 | 3882.4 | 3706.4 | 3528.8 | 3335.2 | 3116.8 | 2873.6 | 2620.0 | 2360.8 | 2126.4 | 1913.6 |
| 55° | 4334.4 | 4138.4 | 3906.4 | 3677.6 | 3432.8 | 3157.6 | 2854.4 | 2544.0 | 2245.6 | 1990.4 | 1764.0 |
| 57.5° | 5138.4 | 4873.6 | 4514.4 | 4196.8 | 3886.4 | 3485.6 | 3058.4 | 2676.0 | 2296.0 | 1994.4 | 1742.4 |
| 60° | 6404.8 | 5973.6 | 5562.4 | 5078.4 | 4576.0 | 4026.4 | 3453.6 | 2938.4 | 2475.2 | 2096.8 | 1793.6 |
| 62.5° | 7139.2 | 6684.0 | 6155.2 | 5568.8 | 4917.6 | 4248.0 | 3590.4 | 2988.8 | 2480.8 | 2068.8 | 1732.8 |
| 65° | 6940.8 | 6483.2 | 5901.6 | 5301.6 | 4608.8 | 3924.0 | 3271.2 | 2693.6 | 2200.8 | 1820.0 | 1498.4 |
| 67.5° | 6352.0 | 5873.6 | 5327.2 | 4661.6 | 3999.2 | 3364.8 | 2769.6 | 2225.6 | 1789.6 | 1434.4 | 1150.4 |
| 70° | 5495.2 | 5069.6 | 4543.2 | 3929.6 | 3287.2 | 2716.8 | 2215.2 | 1724.8 | 1356.0 | 1030.4 | 806.4 |
| 72.5° | 4078.4 | 3701.6 | 3372.8 | 2860.0 | 2389.6 | 1942.4 | 1533.6 | 1200.0 | 882.4 | 667.2 | 513.6 |
| 75° | 1712.0 | 1584.8 | 1531.2 | 1343.2 | 1168.0 | 957.6 | 720.8 | 574.4 | 465.6 | 396.0 | 314.4 |
| 77.5° | 415.2 | 415.2 | 390.4 | 365.6 | 336.0 | 304.0 | 268.8 | 240.0 | 225.6 | 212.8 | 202.4 |
| 80° | 201.6 | 200.0 | 193.6 | 192.8 | 187.2 | 180.0 | 176.0 | 170.4 | 168.0 | 164.8 | 163.2 |
| 82.5° | 141.6 | 140.8 | 138.4 | 141.6 | 140.8 | 144.0 | 145.6 | 146.4 | 146.4 | 147.2 | 148.0 |
| 85° | 89.6 | 92.8 | 99.2 | 107.2 | 114.4 | 123.2 | 131.2 | 137.6 | 142.4 | 146.4 | 149.6 |
| 87.5° | 56.8 | 64.8 | 69.6 | 81.6 | 93.6 | 107.2 | 122.4 | 128.8 | 134.4 | 135.2 | 130.4 |
| 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):

| | 106° | 107° | 108° | 109° | 110° | 115° | 125° | 135° | 145° | 155° | 165° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 | 1272.8 |
| 2.5° | 1279.2 | 1278.4 | 1280.0 | 1278.4 | 1278.4 | 1277.6 | 1275.2 | 1272.8 | 1270.4 | 1269.6 | 1267.2 |
| 5° | 1310.4 | 1310.4 | 1312.0 | 1308.8 | 1309.6 | 1306.4 | 1299.2 | 1291.2 | 1284.0 | 1277.6 | 1270.4 |
| 7.5° | 1363.2 | 1360.8 | 1361.6 | 1360.8 | 1359.2 | 1352.8 | 1336.8 | 1316.8 | 1297.6 | 1277.6 | 1261.6 |
| 10° | 1433.6 | 1428.8 | 1428.8 | 1427.2 | 1424.8 | 1416.0 | 1382.4 | 1342.4 | 1302.4 | 1266.4 | 1240.0 |
| 12.5° | 1512.0 | 1512.8 | 1506.4 | 1502.4 | 1498.4 | 1480.0 | 1429.6 | 1365.6 | 1302.4 | 1244.8 | 1202.4 |
| 15° | 1593.6 | 1592.8 | 1585.6 | 1583.2 | 1574.4 | 1547.2 | 1471.2 | 1377.6 | 1287.2 | 1202.4 | 1139.2 |
| 17.5° | 1667.2 | 1664.0 | 1656.8 | 1652.0 | 1642.4 | 1606.4 | 1499.2 | 1372.0 | 1247.2 | 1136.0 | 1056.8 |
| 20° | 1734.4 | 1730.4 | 1724.0 | 1715.2 | 1705.6 | 1653.6 | 1509.6 | 1343.2 | 1184.0 | 1056.8 | 976.8 |
| 22.5° | 1804.0 | 1795.2 | 1788.0 | 1776.0 | 1765.6 | 1696.0 | 1502.4 | 1292.0 | 1112.0 | 968.8 | 883.2 |
| 25° | 1881.6 | 1871.2 | 1856.0 | 1841.6 | 1825.6 | 1730.4 | 1482.4 | 1228.0 | 1025.6 | 873.6 | 787.2 |
| 27.5° | 1965.6 | 1950.4 | 1930.4 | 1912.0 | 1886.4 | 1756.0 | 1448.0 | 1156.8 | 931.2 | 779.2 | 689.6 |
| 30° | 2054.4 | 2026.4 | 2001.6 | 1973.6 | 1940.8 | 1768.0 | 1398.4 | 1068.8 | 827.2 | 683.2 | 593.6 |
| 32.5° | 2140.8 | 2103.2 | 2066.4 | 2025.6 | 1980.8 | 1763.2 | 1328.0 | 964.8 | 723.2 | 593.6 | 518.4 |
| 35° | 2228.8 | 2174.4 | 2123.2 | 2068.0 | 2013.6 | 1739.2 | 1231.2 | 849.6 | 624.8 | 519.2 | 464.8 |
| 37.5° | 2288.8 | 2220.8 | 2152.8 | 2086.4 | 2020.8 | 1687.2 | 1102.4 | 720.8 | 536.0 | 465.6 | 426.4 |
| 40° | 2319.2 | 2236.0 | 2152.8 | 2070.4 | 1989.6 | 1600.8 | 952.0 | 603.2 | 472.8 | 425.6 | 397.6 |
| 42.5° | 2310.4 | 2207.2 | 2104.0 | 2006.4 | 1907.2 | 1463.2 | 788.8 | 506.4 | 428.8 | 394.4 | 369.6 |
| 45° | 2237.6 | 2114.4 | 1996.8 | 1893.6 | 1769.6 | 1286.4 | 648.0 | 446.4 | 395.2 | 368.8 | 345.6 |
| 47.5° | 2100.8 | 1963.2 | 1819.2 | 1702.4 | 1586.4 | 1081.6 | 539.2 | 408.8 | 365.6 | 344.0 | 320.8 |
| 50° | 1926.4 | 1767.2 | 1623.2 | 1496.8 | 1383.2 | 890.4 | 464.8 | 376.8 | 341.6 | 323.2 | 298.4 |
| 52.5° | 1734.4 | 1563.2 | 1432.0 | 1299.2 | 1188.0 | 743.2 | 412.8 | 341.6 | 318.4 | 299.2 | 279.2 |
| 55° | 1575.2 | 1416.8 | 1283.2 | 1149.6 | 1037.6 | 650.4 | 369.6 | 314.4 | 296.8 | 276.8 | 260.8 |
| 57.5° | 1532.8 | 1352.0 | 1206.4 | 1080.0 | 964.8 | 593.6 | 338.4 | 289.6 | 277.6 | 262.4 | 244.8 |
| 60° | 1550.4 | 1351.2 | 1188.0 | 1049.6 | 928.8 | 548.0 | 315.2 | 272.8 | 263.2 | 249.6 | 231.2 |
| 62.5° | 1487.2 | 1276.8 | 1112.0 | 964.8 | 850.4 | 490.4 | 298.4 | 264.8 | 258.4 | 240.0 | 219.2 |
| 65° | 1267.2 | 1074.4 | 916.0 | 788.8 | 690.4 | 412.8 | 284.8 | 272.0 | 265.6 | 233.6 | 211.2 |
| 67.5° | 964.8 | 804.0 | 676.8 | 581.6 | 510.4 | 341.6 | 281.6 | 296.0 | 283.2 | 236.8 | 208.8 |
| 70° | 667.2 | 545.6 | 464.0 | 406.4 | 361.6 | 288.0 | 292.0 | 322.4 | 304.0 | 247.2 | 222.4 |
| 72.5° | 423.2 | 353.6 | 313.6 | 292.0 | 270.4 | 243.2 | 289.6 | 319.2 | 294.4 | 248.8 | 222.4 |
| 75° | 271.2 | 242.4 | 228.8 | 220.8 | 214.4 | 212.0 | 255.2 | 262.4 | 236.8 | 216.0 | 207.2 |
| 77.5° | 192.0 | 187.2 | 184.8 | 184.0 | 184.8 | 190.4 | 211.2 | 197.6 | 172.0 | 172.8 | 177.6 |
| 80° | 162.4 | 162.4 | 160.8 | 161.6 | 163.2 | 165.6 | 168.8 | 145.6 | 132.0 | 142.4 | 158.4 |
| 82.5° | 148.8 | 151.2 | 152.8 | 154.4 | 156.8 | 153.6 | 143.2 | 110.4 | 106.4 | 138.4 | 155.2 |
| 85° | 151.2 | 151.2 | 152.0 | 153.6 | 154.4 | 138.4 | 119.2 | 83.2 | 81.6 | 155.2 | 146.4 |
| 87.5° | 129.6 | 128.0 | 122.4 | 118.4 | 112.8 | 95.2 | 79.2 | 46.4 | 48.0 | 96.0 | 102.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P144910

CATALOG NUMBER: LDRC-SL2-E04-E

CANDELA DISTRIBUTION (continued):

| | 175° | 180° |
|-------|--------|--------|
| 0° | 1272.8 | 1272.8 |
| 2.5° | 1266.4 | 1266.4 |
| 5° | 1266.4 | 1266.4 |
| 7.5° | 1256.0 | 1252.8 |
| 10° | 1225.6 | 1221.6 |
| 12.5° | 1179.2 | 1175.2 |
| 15° | 1108.0 | 1103.2 |
| 17.5° | 1019.2 | 1011.2 |
| 20° | 926.4 | 915.2 |
| 22.5° | 833.6 | 824.8 |
| 25° | 738.4 | 730.4 |
| 27.5° | 644.8 | 636.8 |
| 30° | 558.4 | 555.2 |
| 32.5° | 494.4 | 491.2 |
| 35° | 447.2 | 445.6 |
| 37.5° | 415.2 | 413.6 |
| 40° | 387.2 | 385.6 |
| 42.5° | 361.6 | 359.2 |
| 45° | 336.0 | 336.8 |
| 47.5° | 310.4 | 309.6 |
| 50° | 288.0 | 288.0 |
| 52.5° | 269.6 | 268.8 |
| 55° | 252.8 | 252.0 |
| 57.5° | 236.0 | 235.2 |
| 60° | 221.6 | 219.2 |
| 62.5° | 208.0 | 206.4 |
| 65° | 199.2 | 198.4 |
| 67.5° | 192.8 | 190.4 |
| 70° | 191.2 | 184.8 |
| 72.5° | 186.4 | 178.4 |
| 75° | 175.2 | 171.2 |
| 77.5° | 154.4 | 149.6 |
| 80° | 119.2 | 110.4 |
| 82.5° | 100.0 | 86.4 |
| 85° | 73.6 | 68.0 |
| 87.5° | 53.6 | 42.4 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)