

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: P144861

Luminaire Tested: **LDRL-SL2-E05-E-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144861  
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: LDRL-SL2-E05-E-7050  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (105) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15022.1 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

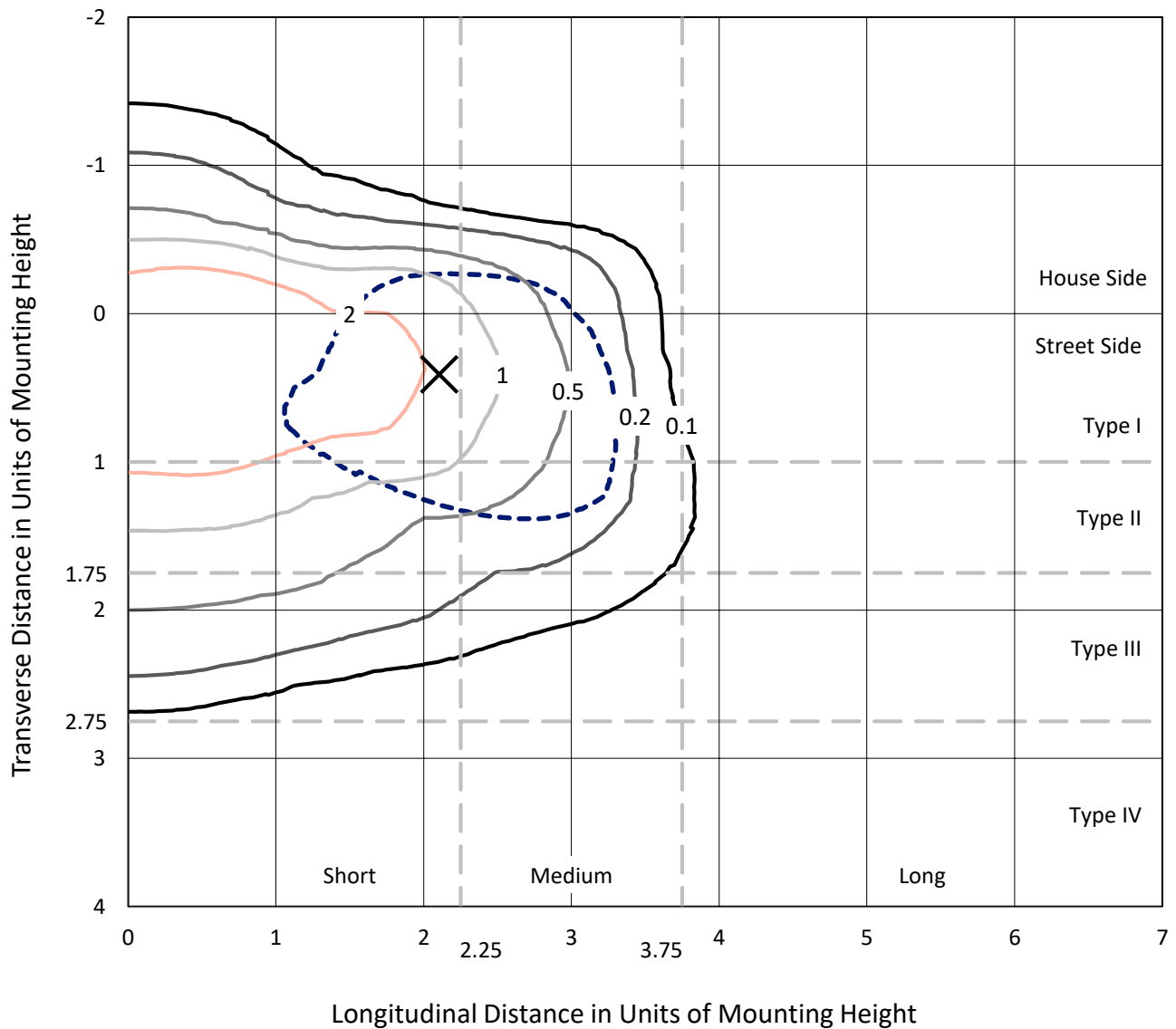
Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

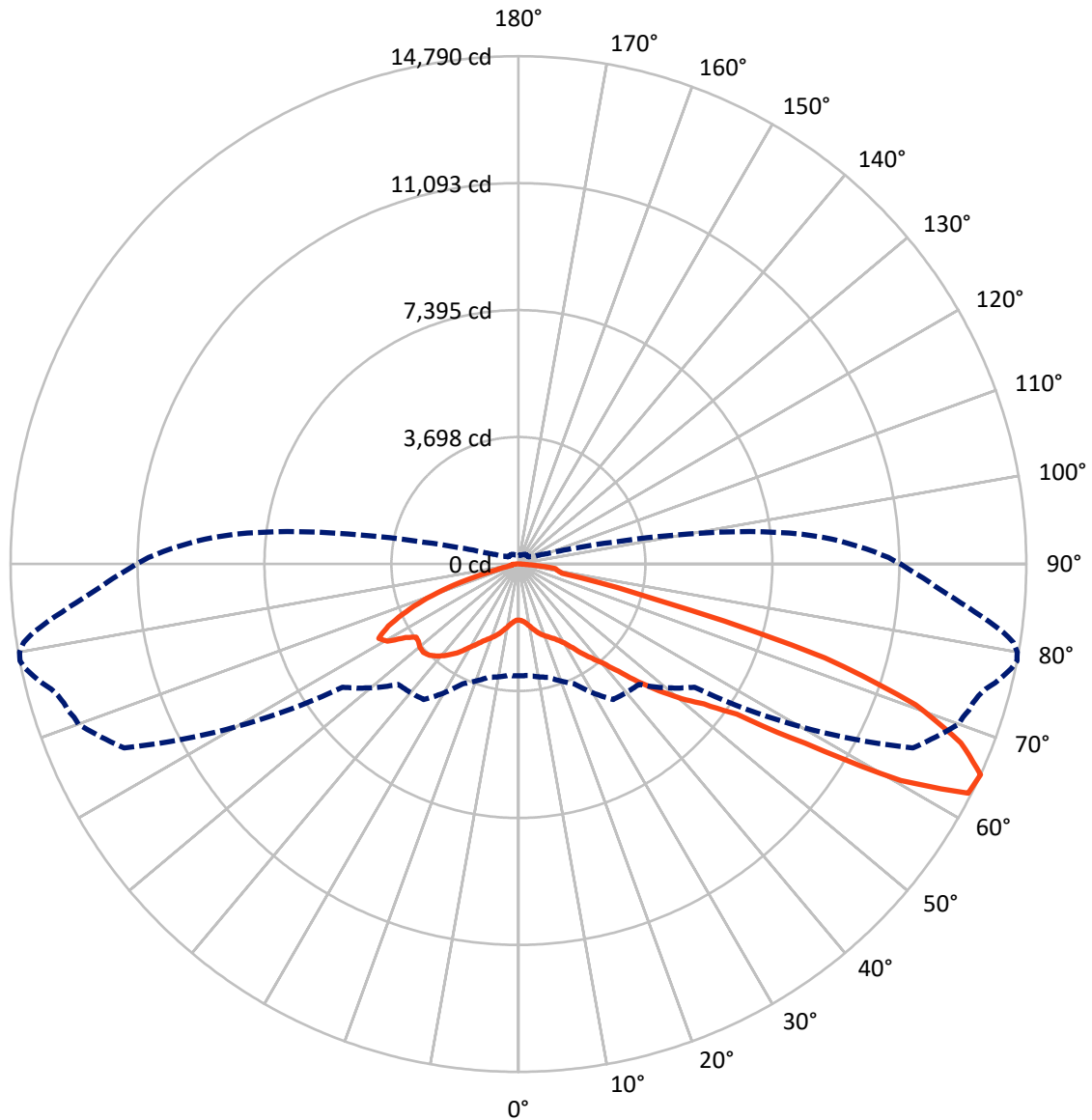
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - Semi-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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3409.8   | 0.0    | 3409.8  |
|                    | % Fixture | 22.7     | 0.0    | 22.7    |
| <b>Street Side</b> | Lumens    | 11612.3  | 0.0    | 11612.3 |
|                    | % Fixture | 77.3     | 0.0    | 77.3    |
| <b>Total</b>       | Lumens    | 15022.1  | 0.0    | 15022.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 162.1   | 1.1       |
| 10°-20°   | 527.5   | 3.5       |
| 20°-30°   | 909.4   | 6.1       |
| 30°-40°   | 1483.0  | 9.9       |
| 40°-50°   | 2475.7  | 16.5      |
| 50°-60°   | 3347.6  | 22.3      |
| 60°-70°   | 4158.8  | 27.7      |
| 70°-80°   | 1665.3  | 11.1      |
| 80°-90°   | 292.6   | 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°    | 15022.1 | 100.0     |
| 0°-180°   | 15022.1 | 100.0     |



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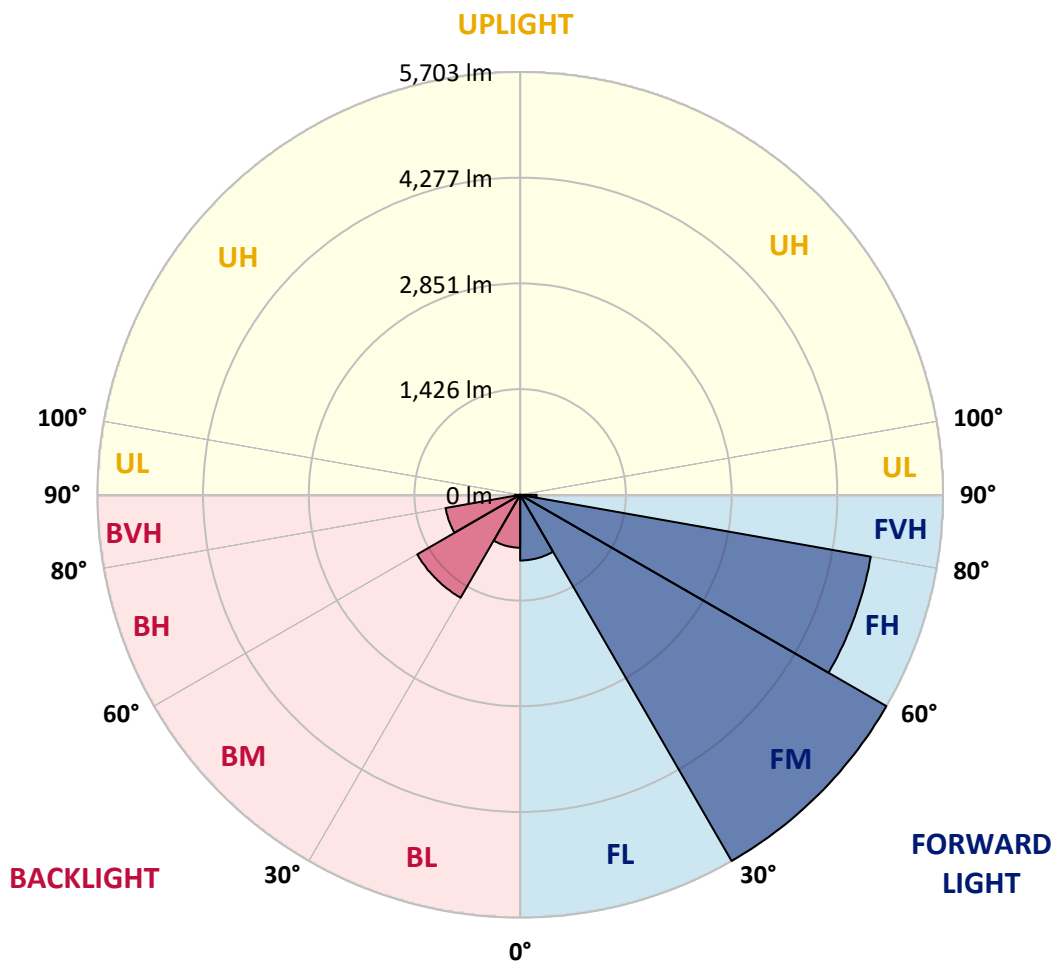
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 885.8  | 5.9       |                         |      |         |
| FM (30°-60°)   | 5702.6 | 38.0      |                         |      |         |
| FH (60°-80°)   | 4801.9 | 32.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 221.9  | 1.5       |                         |      | G2/225  |
| BL (0°-30°)    | 713.2  | 4.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 1603.8 | 10.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 1022.2 | 6.8       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 70.7   | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 70°     | 71°     | 72°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5  | 1632.5  | 1632.5  | 1632.5  |
| 2.5°  | 1644.8 | 1643.8 | 1649.0 | 1653.1 | 1653.1 | 1655.1 | 1654.1 | 1647.9  | 1649.0  | 1651.0  | 1649.0  |
| 5°    | 1663.3 | 1659.2 | 1664.3 | 1670.5 | 1674.6 | 1679.7 | 1684.9 | 1685.9  | 1690.0  | 1690.0  | 1689.0  |
| 7.5°  | 1703.3 | 1700.3 | 1707.4 | 1709.5 | 1718.7 | 1726.9 | 1737.2 | 1744.4  | 1748.5  | 1750.5  | 1753.6  |
| 10°   | 1772.1 | 1770.0 | 1772.1 | 1776.2 | 1780.3 | 1789.5 | 1807.0 | 1822.4  | 1831.6  | 1831.6  | 1835.7  |
| 12.5° | 1855.2 | 1847.0 | 1849.0 | 1840.8 | 1842.9 | 1862.4 | 1882.9 | 1908.6  | 1923.9  | 1926.0  | 1928.1  |
| 15°   | 1919.8 | 1915.7 | 1912.7 | 1901.4 | 1909.6 | 1935.2 | 1967.0 | 2004.0  | 2017.3  | 2028.6  | 2027.6  |
| 17.5° | 1980.4 | 1975.3 | 1968.1 | 1952.7 | 1960.9 | 2001.9 | 2050.2 | 2091.2  | 2113.8  | 2115.8  | 2117.9  |
| 20°   | 2052.2 | 2046.1 | 2032.7 | 2000.9 | 1998.9 | 2056.3 | 2121.0 | 2165.1  | 2185.6  | 2194.8  | 2197.9  |
| 22.5° | 2143.5 | 2135.3 | 2110.7 | 2049.1 | 2032.7 | 2100.4 | 2177.4 | 2231.8  | 2253.3  | 2262.6  | 2267.7  |
| 25°   | 2260.5 | 2244.1 | 2205.1 | 2108.6 | 2074.8 | 2145.6 | 2237.9 | 2303.6  | 2333.4  | 2342.6  | 2348.8  |
| 27.5° | 2366.2 | 2353.9 | 2306.7 | 2192.8 | 2134.3 | 2206.1 | 2311.8 | 2396.0  | 2437.0  | 2448.3  | 2457.5  |
| 30°   | 2489.3 | 2471.9 | 2433.9 | 2312.8 | 2234.9 | 2298.5 | 2432.9 | 2539.6  | 2589.9  | 2590.9  | 2611.4  |
| 32.5° | 2778.7 | 2767.4 | 2732.5 | 2599.1 | 2467.8 | 2471.9 | 2597.1 | 2743.8  | 2794.1  | 2802.3  | 2820.8  |
| 35°   | 3207.6 | 3203.5 | 3202.5 | 3128.6 | 3031.1 | 2930.6 | 2939.8 | 3051.6  | 3085.5  | 3098.8  | 3105.0  |
| 37.5° | 3489.8 | 3525.7 | 3612.9 | 3666.3 | 3641.6 | 3663.2 | 3550.3 | 3413.9  | 3394.4  | 3380.0  | 3386.1  |
| 40°   | 3733.0 | 3764.8 | 3941.3 | 4187.5 | 4337.3 | 4443.0 | 4343.5 | 3924.9  | 3768.9  | 3723.7  | 3706.3  |
| 42.5° | 3876.6 | 3912.5 | 4165.0 | 4559.0 | 4940.7 | 5191.1 | 5217.7 | 4635.9  | 4239.9  | 4234.7  | 4169.1  |
| 45°   | 3954.6 | 3990.5 | 4292.2 | 4822.7 | 5362.4 | 5813.9 | 6047.9 | 5511.2  | 4929.4  | 4886.3  | 4795.0  |
| 47.5° | 3939.2 | 3973.1 | 4287.1 | 4920.2 | 5611.8 | 6227.4 | 6695.3 | 6395.7  | 5724.6  | 5621.0  | 5494.8  |
| 50°   | 3751.4 | 3776.1 | 4105.4 | 4761.1 | 5545.1 | 6399.8 | 7138.6 | 7207.4  | 6624.5  | 6484.0  | 6295.2  |
| 52.5° | 3557.5 | 3601.6 | 3874.6 | 4479.0 | 5242.4 | 6293.1 | 7403.4 | 7946.2  | 7464.9  | 7368.5  | 7126.3  |
| 55°   | 3452.8 | 3487.7 | 3710.4 | 4226.5 | 4923.3 | 5928.8 | 7513.1 | 8642.9  | 8485.9  | 8446.9  | 8275.5  |
| 57.5° | 3448.7 | 3482.6 | 3660.1 | 4073.6 | 4663.6 | 5549.2 | 7545.0 | 9719.3  | 10180.0 | 10190.3 | 10141.0 |
| 60°   | 3617.0 | 3651.9 | 3800.7 | 4147.5 | 4583.6 | 5223.9 | 7431.1 | 11246.1 | 12264.0 | 12354.3 | 12505.1 |
| 62.5° | 3640.6 | 3657.0 | 3836.6 | 4304.5 | 4875.0 | 4980.7 | 6962.1 | 12517.5 | 13696.5 | 13779.6 | 13862.7 |
| 65°   | 3256.9 | 3255.8 | 3414.9 | 3845.8 | 4814.5 | 4956.1 | 6257.2 | 12673.4 | 13639.0 | 13689.3 | 13792.9 |
| 67.5° | 2428.8 | 2408.3 | 2498.6 | 2892.6 | 3820.2 | 4962.2 | 5421.9 | 11496.5 | 12575.9 | 12671.4 | 12706.3 |
| 70°   | 1251.8 | 1283.7 | 1345.2 | 1586.4 | 2425.7 | 3994.6 | 4657.5 | 9699.8  | 11039.9 | 11075.8 | 11199.9 |
| 72.5° | 514.1  | 500.7  | 542.8  | 667.0  | 1213.9 | 2640.2 | 3853.0 | 7654.7  | 9118.0  | 9093.3  | 9115.9  |
| 75°   | 286.3  | 290.4  | 302.7  | 347.8  | 590.0  | 1325.7 | 3310.2 | 5418.9  | 6200.8  | 5775.9  | 5647.7  |
| 77.5° | 229.8  | 231.9  | 232.9  | 241.1  | 322.2  | 707.0  | 2540.6 | 3568.8  | 3118.3  | 2895.7  | 2810.5  |
| 80°   | 168.3  | 179.6  | 191.9  | 193.9  | 221.6  | 401.2  | 1393.5 | 3004.4  | 2632.0  | 2447.3  | 2295.4  |
| 82.5° | 135.4  | 140.6  | 167.3  | 171.4  | 176.5  | 239.1  | 631.1  | 2821.8  | 2621.7  | 2432.9  | 2223.6  |
| 85°   | 81.1   | 90.3   | 136.5  | 137.5  | 139.6  | 145.7  | 348.9  | 1149.2  | 1429.4  | 1263.1  | 1156.4  |
| 87.5° | 28.7   | 36.9   | 67.7   | 56.4   | 71.8   | 59.5   | 152.9  | 384.8   | 474.1   | 450.5   | 399.2   |
| 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°    | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  |
| 2.5°  | 1647.9  | 1647.9  | 1650.0  | 1649.0  | 1649.0  | 1649.0  | 1649.0  | 1646.9  | 1646.9  | 1643.8  | 1645.9  |
| 5°    | 1689.0  | 1687.9  | 1689.0  | 1690.0  | 1689.0  | 1691.0  | 1690.0  | 1689.0  | 1690.0  | 1689.0  | 1690.0  |
| 7.5°  | 1754.6  | 1749.5  | 1756.7  | 1752.6  | 1751.6  | 1757.7  | 1754.6  | 1757.7  | 1758.7  | 1757.7  | 1756.7  |
| 10°   | 1837.8  | 1840.8  | 1840.8  | 1840.8  | 1838.8  | 1844.9  | 1846.0  | 1848.0  | 1849.0  | 1853.1  | 1853.1  |
| 12.5° | 1933.2  | 1934.2  | 1938.3  | 1937.3  | 1939.3  | 1946.5  | 1951.7  | 1952.7  | 1953.7  | 1956.8  | 1952.7  |
| 15°   | 2035.8  | 2037.8  | 2037.8  | 2047.1  | 2044.0  | 2054.3  | 2057.3  | 2057.3  | 2058.4  | 2070.7  | 2071.7  |
| 17.5° | 2127.1  | 2127.1  | 2135.3  | 2135.3  | 2143.5  | 2145.6  | 2154.8  | 2155.8  | 2160.0  | 2171.2  | 2172.3  |
| 20°   | 2204.1  | 2208.2  | 2213.3  | 2219.5  | 2222.5  | 2228.7  | 2234.9  | 2241.0  | 2246.1  | 2255.4  | 2256.4  |
| 22.5° | 2276.9  | 2281.0  | 2289.2  | 2293.3  | 2300.5  | 2304.6  | 2309.8  | 2316.9  | 2325.2  | 2337.5  | 2340.5  |
| 25°   | 2361.1  | 2365.2  | 2374.4  | 2380.6  | 2388.8  | 2394.9  | 2404.2  | 2413.4  | 2418.5  | 2430.8  | 2440.1  |
| 27.5° | 2467.8  | 2480.1  | 2492.4  | 2495.5  | 2501.6  | 2516.0  | 2528.3  | 2540.6  | 2551.9  | 2558.1  | 2569.4  |
| 30°   | 2623.8  | 2623.8  | 2649.4  | 2649.4  | 2660.7  | 2674.0  | 2682.2  | 2695.6  | 2716.1  | 2722.3  | 2736.6  |
| 32.5° | 2833.1  | 2838.2  | 2847.4  | 2875.1  | 2895.7  | 2901.8  | 2908.0  | 2927.5  | 2939.8  | 2955.2  | 2972.6  |
| 35°   | 3131.7  | 3136.8  | 3141.9  | 3168.6  | 3192.2  | 3198.4  | 3204.5  | 3216.8  | 3237.4  | 3264.0  | 3255.8  |
| 37.5° | 3399.5  | 3402.6  | 3419.0  | 3448.7  | 3462.1  | 3478.5  | 3483.6  | 3506.2  | 3517.5  | 3542.1  | 3543.1  |
| 40°   | 3721.7  | 3714.5  | 3723.7  | 3757.6  | 3778.1  | 3777.1  | 3793.5  | 3834.6  | 3842.8  | 3854.1  | 3882.8  |
| 42.5° | 4171.1  | 4144.4  | 4173.2  | 4184.5  | 4215.2  | 4234.7  | 4267.6  | 4295.3  | 4314.8  | 4357.9  | 4378.4  |
| 45°   | 4751.9  | 4724.2  | 4747.8  | 4752.9  | 4816.5  | 4836.0  | 4885.3  | 4922.2  | 4964.3  | 5013.6  | 5027.9  |
| 47.5° | 5413.7  | 5362.4  | 5333.7  | 5365.5  | 5441.4  | 5473.2  | 5521.5  | 5556.4  | 5600.5  | 5626.1  | 5617.9  |
| 50°   | 6180.2  | 6057.1  | 5999.6  | 5983.2  | 6037.6  | 6082.8  | 6157.7  | 6174.1  | 6194.6  | 6193.6  | 6194.6  |
| 52.5° | 7035.0  | 6906.7  | 6786.7  | 6703.5  | 6695.3  | 6755.9  | 6774.3  | 6778.5  | 6772.3  | 6726.1  | 6697.4  |
| 55°   | 8151.4  | 8142.1  | 8015.9  | 7843.6  | 7832.3  | 7825.1  | 7717.3  | 7704.0  | 7679.4  | 7608.6  | 7511.1  |
| 57.5° | 10176.9 | 10279.5 | 10196.4 | 10192.3 | 10102.0 | 10042.5 | 9844.5  | 9745.9  | 9642.3  | 9450.4  | 9297.5  |
| 60°   | 12518.5 | 12667.3 | 12749.4 | 12785.3 | 12961.8 | 12961.8 | 12799.6 | 12660.1 | 12491.8 | 12199.4 | 11914.1 |
| 62.5° | 13928.4 | 14058.7 | 14179.8 | 14369.6 | 14594.3 | 14693.8 | 14702.0 | 14577.9 | 14365.5 | 14032.0 | 13628.7 |
| 65°   | 13839.1 | 13935.5 | 14082.3 | 14306.0 | 14491.7 | 14670.2 | 14790.3 | 14752.3 | 14590.2 | 14256.7 | 13817.5 |
| 67.5° | 12828.4 | 12968.9 | 13158.8 | 13365.0 | 13537.4 | 13705.7 | 13899.6 | 13914.0 | 13870.9 | 13553.8 | 13156.7 |
| 70°   | 11268.7 | 11449.3 | 11569.3 | 11828.9 | 11906.9 | 12077.3 | 12272.2 | 12365.6 | 12295.8 | 12051.6 | 11818.7 |
| 72.5° | 9154.9  | 9297.5  | 9318.1  | 9205.2  | 9244.2  | 9286.3  | 9333.5  | 9114.9  | 9030.8  | 8704.5  | 8554.6  |
| 75°   | 5551.2  | 5363.5  | 5205.4  | 5048.4  | 4579.5  | 4413.3  | 4157.8  | 3654.0  | 3596.5  | 3250.7  | 3010.6  |
| 77.5° | 2640.2  | 2561.2  | 2418.5  | 2179.4  | 1861.4  | 1556.6  | 1291.9  | 1049.7  | 959.4   | 790.1   | 673.1   |
| 80°   | 2210.2  | 2115.8  | 1987.6  | 1810.0  | 1587.4  | 1365.7  | 1156.4  | 976.9   | 796.3   | 648.5   | 518.2   |
| 82.5° | 2027.6  | 1863.4  | 1682.8  | 1529.9  | 1372.9  | 1222.1  | 1081.5  | 919.4   | 824.0   | 664.9   | 542.8   |
| 85°   | 1025.1  | 897.8   | 727.5   | 612.6   | 517.2   | 420.7   | 364.3   | 310.9   | 277.0   | 220.6   | 191.9   |
| 87.5° | 343.7   | 281.2   | 209.3   | 177.5   | 160.1   | 137.5   | 126.2   | 120.1   | 117.0   | 103.6   | 92.3    |
| 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):**

|       | 84°     | 85°     | 86°     | 87°     | 88°     | 89°     | 90°     | 91°     | 92°     | 93°     | 94°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5  | 1632.5 |
| 2.5°  | 1645.9  | 1645.9  | 1645.9  | 1645.9  | 1644.8  | 1644.8  | 1644.8  | 1644.8  | 1644.8  | 1644.8  | 1645.9 |
| 5°    | 1687.9  | 1687.9  | 1689.0  | 1692.0  | 1685.9  | 1687.9  | 1690.0  | 1686.9  | 1690.0  | 1686.9  | 1691.0 |
| 7.5°  | 1755.7  | 1758.7  | 1756.7  | 1760.8  | 1758.7  | 1764.9  | 1760.8  | 1757.7  | 1759.8  | 1759.8  | 1760.8 |
| 10°   | 1851.1  | 1855.2  | 1852.1  | 1854.2  | 1854.2  | 1858.3  | 1853.1  | 1854.2  | 1855.2  | 1853.1  | 1854.2 |
| 12.5° | 1956.8  | 1958.8  | 1957.8  | 1964.0  | 1960.9  | 1964.0  | 1960.9  | 1965.0  | 1967.0  | 1969.1  | 1969.1 |
| 15°   | 2071.7  | 2073.8  | 2079.9  | 2078.9  | 2085.0  | 2083.0  | 2084.0  | 2078.9  | 2089.2  | 2083.0  | 2085.0 |
| 17.5° | 2177.4  | 2176.4  | 2184.6  | 2187.7  | 2188.7  | 2189.7  | 2192.8  | 2188.7  | 2189.7  | 2192.8  | 2190.7 |
| 20°   | 2259.5  | 2266.7  | 2268.7  | 2276.9  | 2283.1  | 2285.1  | 2284.1  | 2287.2  | 2291.3  | 2287.2  | 2287.2 |
| 22.5° | 2346.7  | 2357.0  | 2360.0  | 2365.2  | 2371.3  | 2372.4  | 2378.5  | 2381.6  | 2383.6  | 2382.6  | 2383.6 |
| 25°   | 2451.4  | 2458.5  | 2465.7  | 2476.0  | 2483.2  | 2484.2  | 2489.3  | 2493.4  | 2494.5  | 2493.4  | 2499.6 |
| 27.5° | 2579.6  | 2588.9  | 2598.1  | 2610.4  | 2618.6  | 2620.7  | 2632.0  | 2632.0  | 2638.1  | 2641.2  | 2643.2 |
| 30°   | 2744.8  | 2747.9  | 2771.5  | 2783.8  | 2780.7  | 2795.1  | 2810.5  | 2809.5  | 2816.7  | 2818.7  | 2823.8 |
| 32.5° | 2984.9  | 2984.9  | 3005.5  | 3020.9  | 3037.3  | 3032.1  | 3055.7  | 3051.6  | 3062.9  | 3069.1  | 3066.0 |
| 35°   | 3276.4  | 3286.6  | 3302.0  | 3311.2  | 3328.7  | 3337.9  | 3354.3  | 3363.6  | 3368.7  | 3367.7  | 3356.4 |
| 37.5° | 3577.0  | 3593.4  | 3599.6  | 3622.2  | 3639.6  | 3655.0  | 3657.0  | 3646.8  | 3650.9  | 3630.4  | 3624.2 |
| 40°   | 3920.7  | 3944.3  | 3958.7  | 3992.6  | 3990.5  | 4010.0  | 4012.1  | 3982.3  | 3977.2  | 3950.5  | 3922.8 |
| 42.5° | 4401.0  | 4433.8  | 4445.1  | 4470.7  | 4450.2  | 4459.5  | 4408.1  | 4395.8  | 4354.8  | 4311.7  | 4249.1 |
| 45°   | 5048.4  | 5032.0  | 5039.2  | 5032.0  | 4977.6  | 4937.6  | 4895.5  | 4835.0  | 4774.5  | 4691.4  | 4602.1 |
| 47.5° | 5617.9  | 5626.1  | 5572.8  | 5538.9  | 5450.7  | 5394.2  | 5317.3  | 5211.6  | 5137.7  | 5025.9  | 4907.9 |
| 50°   | 6171.0  | 6079.7  | 6004.8  | 5926.8  | 5848.8  | 5745.2  | 5629.2  | 5535.8  | 5428.1  | 5288.5  | 5143.9 |
| 52.5° | 6620.4  | 6502.4  | 6412.1  | 6301.3  | 6195.6  | 6080.7  | 5959.6  | 5824.2  | 5682.6  | 5543.0  | 5364.5 |
| 55°   | 7416.7  | 7245.3  | 7129.4  | 6935.4  | 6815.4  | 6654.3  | 6559.9  | 6384.4  | 6187.4  | 6002.7  | 5812.9 |
| 57.5° | 9125.2  | 8868.6  | 8736.3  | 8626.5  | 8439.7  | 8175.0  | 8006.7  | 7718.4  | 7437.2  | 7240.2  | 6924.2 |
| 60°   | 11698.6 | 11438.0 | 11218.4 | 10958.8 | 10672.5 | 10313.4 | 10153.3 | 9813.7  | 9411.4  | 9086.2  | 8668.5 |
| 62.5° | 13302.4 | 12942.3 | 12586.2 | 12221.9 | 11934.6 | 11653.5 | 11322.0 | 10979.3 | 10581.2 | 10138.9 | 9682.3 |
| 65°   | 13367.1 | 12935.1 | 12509.3 | 12137.8 | 11801.2 | 11435.9 | 11125.0 | 10777.2 | 10358.5 | 9902.9  | 9428.9 |
| 67.5° | 12696.0 | 12212.7 | 11756.1 | 11348.7 | 10963.9 | 10625.3 | 10300.0 | 9972.7  | 9524.3  | 9142.6  | 8657.3 |
| 70°   | 11359.0 | 10917.8 | 10504.2 | 10040.4 | 9745.9  | 9365.3  | 9048.2  | 8703.4  | 8382.3  | 8025.2  | 7570.6 |
| 72.5° | 8343.3  | 8010.8  | 7538.8  | 7341.8  | 7183.8  | 6780.5  | 6544.5  | 6515.8  | 6310.5  | 5882.7  | 5543.0 |
| 75°   | 3102.9  | 2641.2  | 2501.6  | 2584.8  | 2446.2  | 2492.4  | 2475.0  | 2376.5  | 2380.6  | 2307.7  | 2221.5 |
| 77.5° | 607.5   | 564.4   | 530.5   | 539.7   | 501.8   | 485.3   | 520.2   | 510.0   | 491.5   | 496.6   | 488.4  |
| 80°   | 413.5   | 349.9   | 317.1   | 304.8   | 289.4   | 282.2   | 280.1   | 277.0   | 270.9   | 267.8   | 258.6  |
| 82.5° | 407.4   | 302.7   | 239.1   | 205.2   | 192.9   | 186.8   | 181.6   | 180.6   | 178.5   | 177.5   | 180.6  |
| 85°   | 162.1   | 131.3   | 120.1   | 109.8   | 106.7   | 103.6   | 103.6   | 102.6   | 101.6   | 103.6   | 107.7  |
| 87.5° | 79.0    | 66.7    | 60.5    | 55.4    | 53.4    | 52.3    | 52.3    | 53.4    | 54.4    | 58.5    | 66.7   |
| 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°    | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 |
| 2.5°  | 1643.8 | 1644.8 | 1642.8 | 1643.8 | 1642.8 | 1640.7 | 1639.7 | 1642.8 | 1641.8 | 1640.7 | 1640.7 |
| 5°    | 1685.9 | 1690.0 | 1687.9 | 1685.9 | 1685.9 | 1684.9 | 1684.9 | 1684.9 | 1683.8 | 1684.9 | 1681.8 |
| 7.5°  | 1758.7 | 1757.7 | 1757.7 | 1755.7 | 1753.6 | 1755.7 | 1754.6 | 1751.6 | 1752.6 | 1750.5 | 1747.5 |
| 10°   | 1852.1 | 1849.0 | 1854.2 | 1854.2 | 1850.1 | 1849.0 | 1847.0 | 1843.9 | 1843.9 | 1840.8 | 1840.8 |
| 12.5° | 1962.9 | 1959.9 | 1967.0 | 1961.9 | 1955.8 | 1954.7 | 1948.6 | 1946.5 | 1949.6 | 1948.6 | 1946.5 |
| 15°   | 2075.8 | 2076.8 | 2079.9 | 2078.9 | 2071.7 | 2071.7 | 2063.5 | 2064.5 | 2058.4 | 2056.3 | 2051.2 |
| 17.5° | 2185.6 | 2186.6 | 2183.6 | 2183.6 | 2178.4 | 2175.3 | 2166.1 | 2167.1 | 2163.0 | 2154.8 | 2148.7 |
| 20°   | 2284.1 | 2283.1 | 2275.9 | 2282.1 | 2271.8 | 2269.7 | 2261.5 | 2253.3 | 2255.4 | 2247.2 | 2234.9 |
| 22.5° | 2380.6 | 2378.5 | 2376.5 | 2373.4 | 2368.3 | 2366.2 | 2357.0 | 2355.9 | 2345.7 | 2333.4 | 2323.1 |
| 25°   | 2492.4 | 2491.4 | 2488.3 | 2489.3 | 2479.1 | 2480.1 | 2463.7 | 2459.6 | 2453.4 | 2440.1 | 2431.9 |
| 27.5° | 2637.1 | 2637.1 | 2628.9 | 2625.8 | 2622.7 | 2618.6 | 2604.3 | 2594.0 | 2578.6 | 2563.2 | 2546.8 |
| 30°   | 2814.6 | 2812.6 | 2810.5 | 2802.3 | 2791.0 | 2784.9 | 2759.2 | 2742.8 | 2722.3 | 2693.5 | 2668.9 |
| 32.5° | 3068.1 | 3050.6 | 3036.2 | 3017.8 | 2999.3 | 2979.8 | 2939.8 | 2912.1 | 2879.3 | 2833.1 | 2794.1 |
| 35°   | 3350.2 | 3320.5 | 3305.1 | 3267.1 | 3232.2 | 3193.2 | 3145.0 | 3088.6 | 3043.4 | 2982.9 | 2919.3 |
| 37.5° | 3583.2 | 3560.6 | 3519.5 | 3476.4 | 3427.2 | 3353.3 | 3298.9 | 3238.4 | 3159.4 | 3092.7 | 3015.7 |
| 40°   | 3870.5 | 3819.2 | 3760.7 | 3688.8 | 3621.1 | 3538.0 | 3463.1 | 3375.9 | 3279.4 | 3183.0 | 3082.4 |
| 42.5° | 4172.1 | 4093.1 | 3996.7 | 3913.6 | 3811.0 | 3702.2 | 3604.7 | 3486.7 | 3363.6 | 3234.3 | 3099.9 |
| 45°   | 4480.0 | 4382.5 | 4254.2 | 4136.2 | 3993.6 | 3857.1 | 3717.6 | 3556.5 | 3388.2 | 3215.8 | 3046.5 |
| 47.5° | 4762.2 | 4619.5 | 4473.8 | 4314.8 | 4150.6 | 3975.1 | 3777.1 | 3565.7 | 3344.1 | 3117.3 | 2905.9 |
| 50°   | 4983.8 | 4805.3 | 4621.6 | 4437.9 | 4236.8 | 4009.0 | 3759.7 | 3483.6 | 3210.7 | 2938.8 | 2695.6 |
| 52.5° | 5179.8 | 4979.7 | 4753.9 | 4526.2 | 4277.8 | 3997.7 | 3685.8 | 3360.5 | 3028.0 | 2727.4 | 2454.4 |
| 55°   | 5559.4 | 5308.0 | 5010.5 | 4717.0 | 4403.0 | 4050.0 | 3661.1 | 3263.0 | 2880.3 | 2553.0 | 2262.6 |
| 57.5° | 6590.7 | 6251.0 | 5790.3 | 5382.9 | 4984.8 | 4470.7 | 3922.8 | 3432.3 | 2944.9 | 2558.1 | 2234.9 |
| 60°   | 8215.0 | 7661.9 | 7134.5 | 6513.7 | 5869.3 | 5164.4 | 4429.7 | 3768.9 | 3174.8 | 2689.4 | 2300.5 |
| 62.5° | 9157.0 | 8573.1 | 7894.9 | 7142.7 | 6307.5 | 5448.6 | 4605.2 | 3833.5 | 3182.0 | 2653.5 | 2222.5 |
| 65°   | 8902.5 | 8315.6 | 7569.6 | 6800.0 | 5911.4 | 5033.0 | 4195.7 | 3454.9 | 2822.8 | 2334.4 | 1921.9 |
| 67.5° | 8147.3 | 7533.7 | 6832.8 | 5979.1 | 5129.5 | 4315.8 | 3552.4 | 2854.6 | 2295.4 | 1839.8 | 1475.5 |
| 70°   | 7048.3 | 6502.4 | 5827.3 | 5040.2 | 4216.3 | 3484.7 | 2841.3 | 2212.3 | 1739.2 | 1321.6 | 1034.3 |
| 72.5° | 5231.1 | 4747.8 | 4326.1 | 3668.3 | 3065.0 | 2491.4 | 1967.0 | 1539.2 | 1131.8 | 855.8  | 658.8  |
| 75°   | 2195.9 | 2032.7 | 1964.0 | 1722.8 | 1498.1 | 1228.2 | 924.5  | 736.7  | 597.2  | 507.9  | 403.3  |
| 77.5° | 532.5  | 532.5  | 500.7  | 468.9  | 431.0  | 389.9  | 344.8  | 307.8  | 289.4  | 272.9  | 259.6  |
| 80°   | 258.6  | 256.5  | 248.3  | 247.3  | 240.1  | 230.9  | 225.7  | 218.6  | 215.5  | 211.4  | 209.3  |
| 82.5° | 181.6  | 180.6  | 177.5  | 181.6  | 180.6  | 184.7  | 186.8  | 187.8  | 187.8  | 188.8  | 189.8  |
| 85°   | 114.9  | 119.0  | 127.2  | 137.5  | 146.7  | 158.0  | 168.3  | 176.5  | 182.6  | 187.8  | 191.9  |
| 87.5° | 72.9   | 83.1   | 89.3   | 104.7  | 120.1  | 137.5  | 157.0  | 165.2  | 172.4  | 173.4  | 167.3  |
| 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):**

|       | 106°   | 107°   | 108°   | 109°   | 110°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 | 1632.5 |
| 2.5°  | 1640.7 | 1639.7 | 1641.8 | 1639.7 | 1639.7 | 1638.7 | 1635.6 | 1632.5 | 1629.5 | 1628.4 | 1625.4 |
| 5°    | 1680.8 | 1680.8 | 1682.8 | 1678.7 | 1679.7 | 1675.6 | 1666.4 | 1656.1 | 1646.9 | 1638.7 | 1629.5 |
| 7.5°  | 1748.5 | 1745.4 | 1746.4 | 1745.4 | 1743.4 | 1735.1 | 1714.6 | 1689.0 | 1664.3 | 1638.7 | 1618.2 |
| 10°   | 1838.8 | 1832.6 | 1832.6 | 1830.6 | 1827.5 | 1816.2 | 1773.1 | 1721.8 | 1670.5 | 1624.3 | 1590.5 |
| 12.5° | 1939.3 | 1940.4 | 1932.2 | 1927.0 | 1921.9 | 1898.3 | 1833.7 | 1751.6 | 1670.5 | 1596.6 | 1542.2 |
| 15°   | 2044.0 | 2043.0 | 2033.7 | 2030.7 | 2019.4 | 1984.5 | 1887.0 | 1767.0 | 1651.0 | 1542.2 | 1461.2 |
| 17.5° | 2138.4 | 2134.3 | 2125.1 | 2118.9 | 2106.6 | 2060.4 | 1922.9 | 1759.8 | 1599.7 | 1457.1 | 1355.5 |
| 20°   | 2224.6 | 2219.5 | 2211.3 | 2200.0 | 2187.7 | 2121.0 | 1936.3 | 1722.8 | 1518.6 | 1355.5 | 1252.9 |
| 22.5° | 2313.9 | 2302.6 | 2293.3 | 2278.0 | 2264.6 | 2175.3 | 1927.0 | 1657.2 | 1426.3 | 1242.6 | 1132.8 |
| 25°   | 2413.4 | 2400.1 | 2380.6 | 2362.1 | 2341.6 | 2219.5 | 1901.4 | 1575.1 | 1315.5 | 1120.5 | 1009.7 |
| 27.5° | 2521.1 | 2501.6 | 2476.0 | 2452.4 | 2419.6 | 2252.3 | 1857.3 | 1483.7 | 1194.4 | 999.4  | 884.5  |
| 30°   | 2635.0 | 2599.1 | 2567.3 | 2531.4 | 2489.3 | 2267.7 | 1793.6 | 1370.9 | 1061.0 | 876.3  | 761.4  |
| 32.5° | 2745.9 | 2697.6 | 2650.4 | 2598.1 | 2540.6 | 2261.5 | 1703.3 | 1237.5 | 927.6  | 761.4  | 664.9  |
| 35°   | 2858.7 | 2789.0 | 2723.3 | 2652.5 | 2582.7 | 2230.8 | 1579.2 | 1089.7 | 801.4  | 665.9  | 596.2  |
| 37.5° | 2935.7 | 2848.5 | 2761.2 | 2676.1 | 2591.9 | 2164.1 | 1414.0 | 924.5  | 687.5  | 597.2  | 546.9  |
| 40°   | 2974.7 | 2868.0 | 2761.2 | 2655.6 | 2551.9 | 2053.2 | 1221.1 | 773.7  | 606.4  | 545.9  | 510.0  |
| 42.5° | 2963.4 | 2831.0 | 2698.7 | 2573.5 | 2446.2 | 1876.7 | 1011.7 | 649.5  | 550.0  | 505.9  | 474.1  |
| 45°   | 2870.0 | 2712.0 | 2561.2 | 2428.8 | 2269.7 | 1650.0 | 831.1  | 572.6  | 506.9  | 473.0  | 443.3  |
| 47.5° | 2694.6 | 2518.1 | 2333.4 | 2183.6 | 2034.8 | 1387.3 | 691.6  | 524.3  | 468.9  | 441.2  | 411.5  |
| 50°   | 2470.9 | 2266.7 | 2082.0 | 1919.8 | 1774.1 | 1142.1 | 596.2  | 483.3  | 438.1  | 414.5  | 382.7  |
| 52.5° | 2224.6 | 2005.0 | 1836.7 | 1666.4 | 1523.8 | 953.3  | 529.5  | 438.1  | 408.4  | 383.8  | 358.1  |
| 55°   | 2020.4 | 1817.2 | 1645.9 | 1474.5 | 1330.9 | 834.2  | 474.1  | 403.3  | 380.7  | 355.0  | 334.5  |
| 57.5° | 1966.0 | 1734.1 | 1547.4 | 1385.2 | 1237.5 | 761.4  | 434.0  | 371.5  | 356.1  | 336.6  | 314.0  |
| 60°   | 1988.6 | 1733.1 | 1523.8 | 1346.3 | 1191.3 | 702.9  | 404.3  | 349.9  | 337.6  | 320.1  | 296.5  |
| 62.5° | 1907.5 | 1637.7 | 1426.3 | 1237.5 | 1090.8 | 629.0  | 382.7  | 339.6  | 331.4  | 307.8  | 281.2  |
| 65°   | 1625.4 | 1378.1 | 1174.9 | 1011.7 | 885.5  | 529.5  | 365.3  | 348.9  | 340.7  | 299.6  | 270.9  |
| 67.5° | 1237.5 | 1031.2 | 868.1  | 746.0  | 654.7  | 438.1  | 361.2  | 379.7  | 363.2  | 303.7  | 267.8  |
| 70°   | 855.8  | 699.8  | 595.1  | 521.3  | 463.8  | 369.4  | 374.5  | 413.5  | 389.9  | 317.1  | 285.3  |
| 72.5° | 542.8  | 453.5  | 402.2  | 374.5  | 346.8  | 311.9  | 371.5  | 409.4  | 377.6  | 319.1  | 285.3  |
| 75°   | 347.8  | 310.9  | 293.5  | 283.2  | 275.0  | 271.9  | 327.3  | 336.6  | 303.7  | 277.0  | 265.8  |
| 77.5° | 246.3  | 240.1  | 237.0  | 236.0  | 237.0  | 244.2  | 270.9  | 253.4  | 220.6  | 221.6  | 227.8  |
| 80°   | 208.3  | 208.3  | 206.2  | 207.3  | 209.3  | 212.4  | 216.5  | 186.8  | 169.3  | 182.6  | 203.2  |
| 82.5° | 190.9  | 193.9  | 196.0  | 198.0  | 201.1  | 197.0  | 183.7  | 141.6  | 136.5  | 177.5  | 199.1  |
| 85°   | 193.9  | 193.9  | 195.0  | 197.0  | 198.0  | 177.5  | 152.9  | 106.7  | 104.7  | 199.1  | 187.8  |
| 87.5° | 166.2  | 164.2  | 157.0  | 151.9  | 144.7  | 122.1  | 101.6  | 59.5   | 61.6   | 123.1  | 131.3  |
| 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):**

|       | 175°   | 180°   |
|-------|--------|--------|
| 0°    | 1632.5 | 1632.5 |
| 2.5°  | 1624.3 | 1624.3 |
| 5°    | 1624.3 | 1624.3 |
| 7.5°  | 1611.0 | 1606.9 |
| 10°   | 1572.0 | 1566.9 |
| 12.5° | 1512.5 | 1507.3 |
| 15°   | 1421.2 | 1415.0 |
| 17.5° | 1307.3 | 1297.0 |
| 20°   | 1188.2 | 1173.9 |
| 22.5° | 1069.2 | 1057.9 |
| 25°   | 947.1  | 936.8  |
| 27.5° | 827.0  | 816.8  |
| 30°   | 716.2  | 712.1  |
| 32.5° | 634.1  | 630.0  |
| 35°   | 573.6  | 571.5  |
| 37.5° | 532.5  | 530.5  |
| 40°   | 496.6  | 494.6  |
| 42.5° | 463.8  | 460.7  |
| 45°   | 431.0  | 432.0  |
| 47.5° | 398.1  | 397.1  |
| 50°   | 369.4  | 369.4  |
| 52.5° | 345.8  | 344.8  |
| 55°   | 324.2  | 323.2  |
| 57.5° | 302.7  | 301.7  |
| 60°   | 284.2  | 281.2  |
| 62.5° | 266.8  | 264.7  |
| 65°   | 255.5  | 254.5  |
| 67.5° | 247.3  | 244.2  |
| 70°   | 245.2  | 237.0  |
| 72.5° | 239.1  | 228.8  |
| 75°   | 224.7  | 219.6  |
| 77.5° | 198.0  | 191.9  |
| 80°   | 152.9  | 141.6  |
| 82.5° | 128.3  | 110.8  |
| 85°   | 94.4   | 87.2   |
| 87.5° | 68.7   | 54.4   |
| 90°   | 0.0    | 0.0    |

(END OF REPORT)