

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: INVUE

Report Number: P154400

Luminaire Tested: **VXS-E04-LED-E1-T2**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P154400  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-E04-LED-E1-T2  
Description: VISION SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (84) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12255.4 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

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



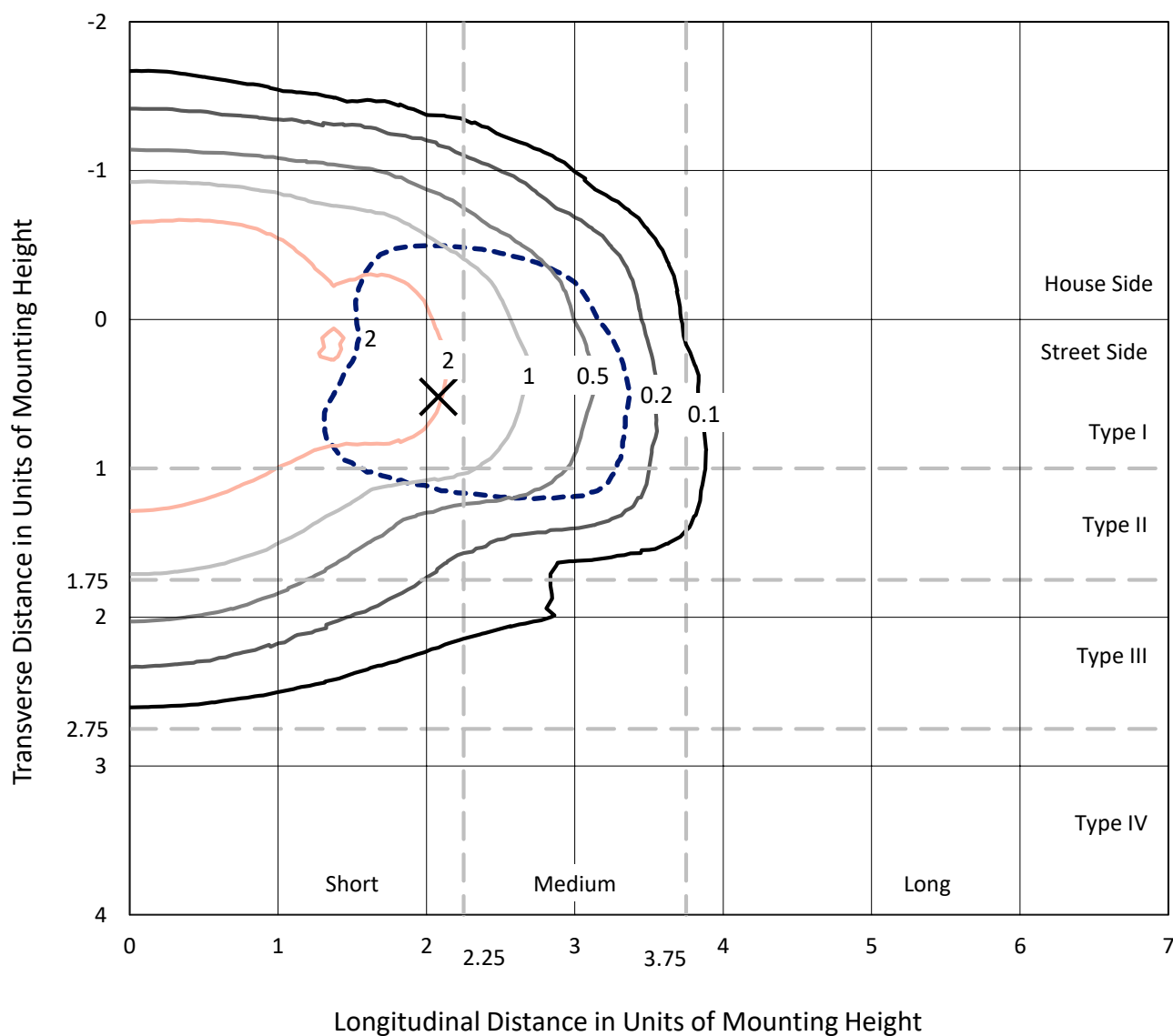
REPORT NUMBER: P154400

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

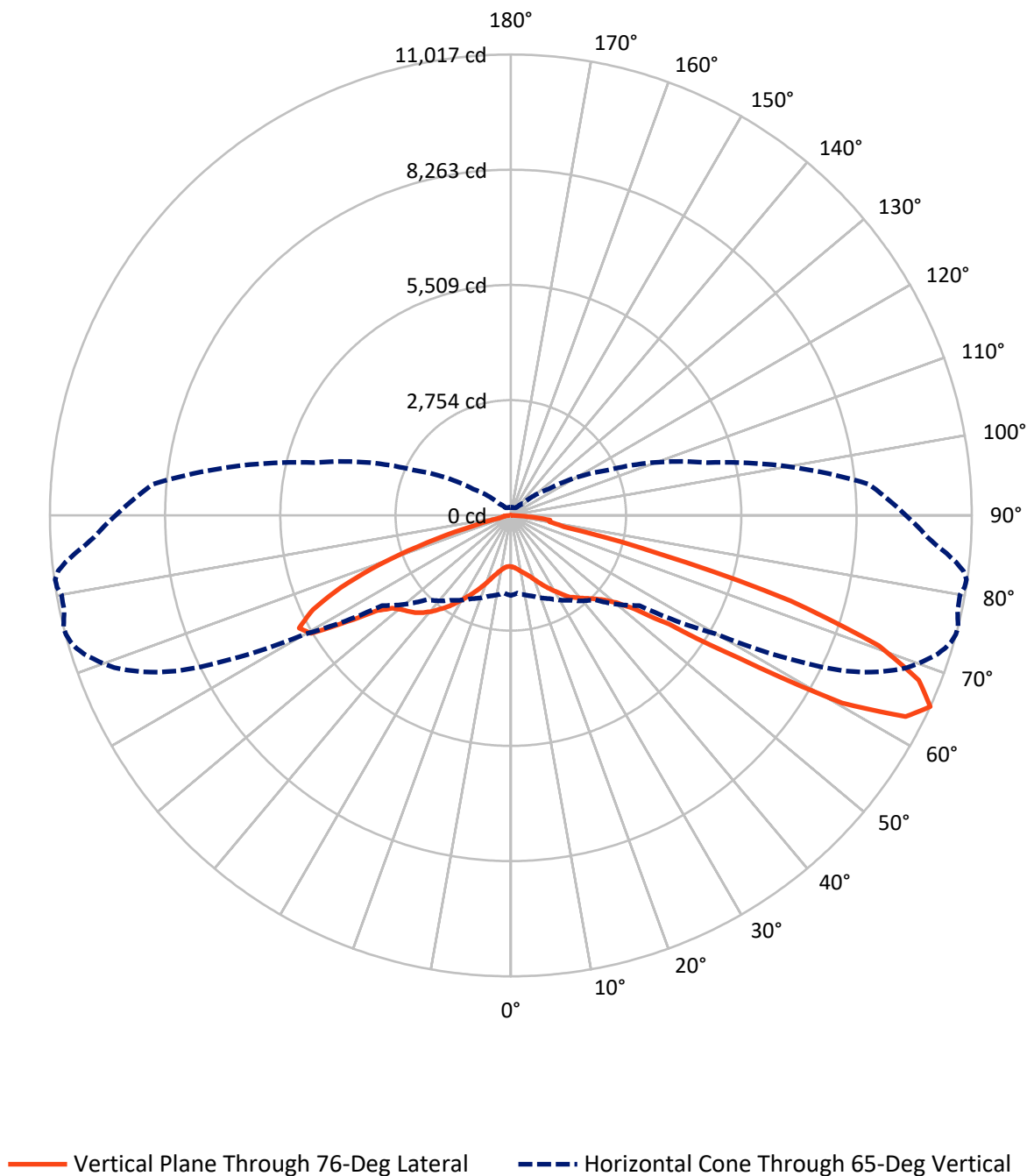


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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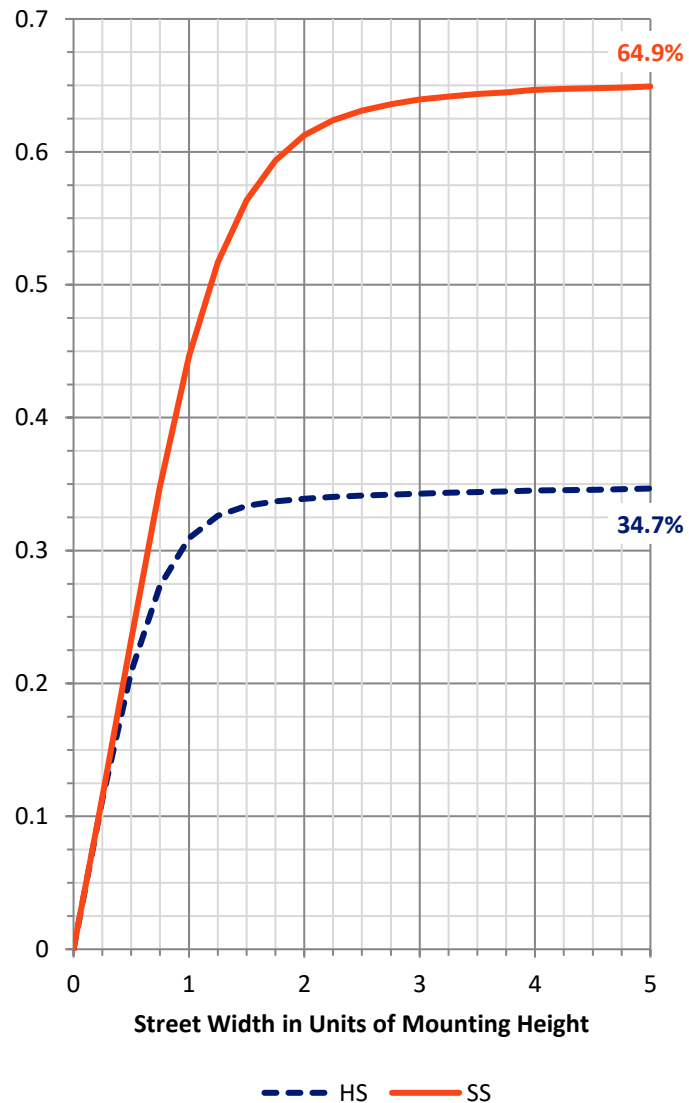
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4291.5   | 0.0    | 4291.5  |
|                    | % Fixture | 35.0     | 0.0    | 35.0    |
| <b>Street Side</b> | Lumens    | 7963.9   | 0.0    | 7963.9  |
|                    | % Fixture | 65.0     | 0.0    | 65.0    |
| <b>Total</b>       | Lumens    | 12255.4  | 0.0    | 12255.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 122.7   | 1.0       |
| 10°-20°   | 421.5   | 3.4       |
| 20°-30°   | 828.0   | 6.8       |
| 30°-40°   | 1375.8  | 11.2      |
| 40°-50°   | 2021.6  | 16.5      |
| 50°-60°   | 2798.8  | 22.8      |
| 60°-70°   | 3340.6  | 27.3      |
| 70°-80°   | 1181.4  | 9.6       |
| 80°-90°   | 165.1   | 1.3       |
| 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°    | 12255.4 | 100.0     |
| 0°-180°   | 12255.4 | 100.0     |

**Coefficient of Utilization**



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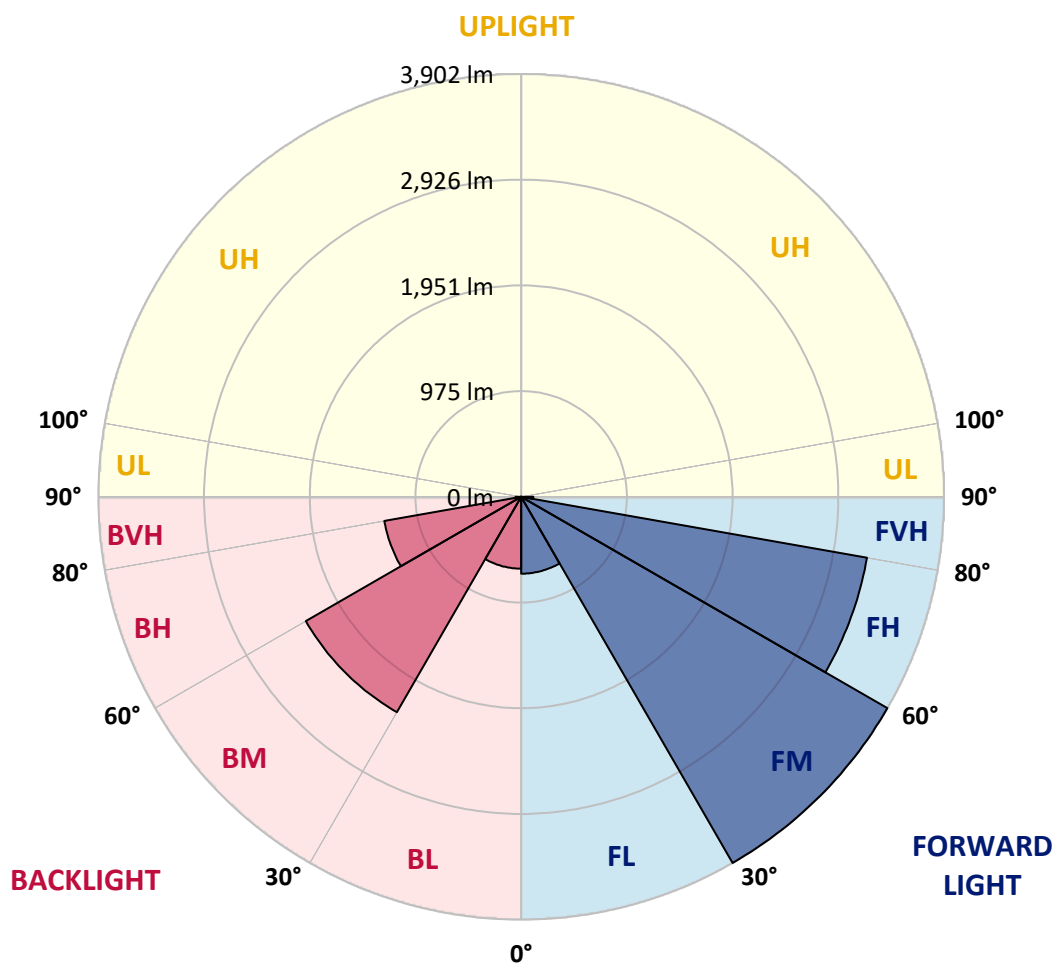
CATALOG NUMBER: VXS-E04-LED-E1-T2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 709.1  | 5.8       |                         |      |         |
| FM   | (30°-60°)   | 3901.8 | 31.8      |                         |      |         |
| FH   | (60°-80°)   | 3240.2 | 26.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 112.8  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 663.0  | 5.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2294.4 | 18.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1281.9 | 10.5      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 52.2   | 0.4       |                         |      | 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°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 |
| 2.5°  | 1278.7 | 1280.0 | 1277.3 | 1276.0 | 1272.0 | 1265.3 | 1260.0 | 1254.7 | 1254.7 | 1254.7 | 1250.7 |
| 5°    | 1334.7 | 1337.3 | 1332.0 | 1328.0 | 1316.0 | 1309.3 | 1300.0 | 1293.4 | 1290.7 | 1289.3 | 1285.3 |
| 7.5°  | 1405.3 | 1401.3 | 1393.4 | 1390.7 | 1381.3 | 1366.6 | 1349.3 | 1336.0 | 1336.0 | 1334.7 | 1336.0 |
| 10°   | 1476.0 | 1465.3 | 1461.3 | 1457.3 | 1442.7 | 1424.0 | 1404.0 | 1389.3 | 1388.0 | 1386.6 | 1382.7 |
| 12.5° | 1546.6 | 1542.7 | 1538.7 | 1524.0 | 1509.3 | 1480.0 | 1457.3 | 1442.7 | 1441.3 | 1442.7 | 1437.3 |
| 15°   | 1640.0 | 1630.7 | 1626.6 | 1601.3 | 1569.3 | 1537.3 | 1509.3 | 1496.0 | 1492.0 | 1493.4 | 1489.3 |
| 17.5° | 1712.0 | 1712.0 | 1702.7 | 1674.7 | 1633.4 | 1589.3 | 1560.0 | 1552.0 | 1550.7 | 1550.7 | 1552.0 |
| 20°   | 1769.3 | 1768.0 | 1758.7 | 1736.0 | 1686.6 | 1642.7 | 1628.0 | 1625.3 | 1624.0 | 1624.0 | 1628.0 |
| 22.5° | 1801.3 | 1798.7 | 1794.7 | 1769.3 | 1730.7 | 1701.3 | 1702.7 | 1710.7 | 1713.4 | 1716.0 | 1721.3 |
| 25°   | 1817.3 | 1813.4 | 1812.0 | 1794.7 | 1766.6 | 1762.7 | 1786.6 | 1808.0 | 1813.4 | 1818.7 | 1825.3 |
| 27.5° | 1844.0 | 1837.3 | 1840.0 | 1833.4 | 1826.6 | 1838.7 | 1888.0 | 1910.7 | 1914.7 | 1921.3 | 1925.3 |
| 30°   | 1917.3 | 1914.7 | 1925.3 | 1928.0 | 1933.4 | 1950.7 | 1996.0 | 2017.3 | 2026.6 | 2026.6 | 2045.3 |
| 32.5° | 2057.3 | 2058.7 | 2061.3 | 2089.3 | 2098.7 | 2110.7 | 2134.7 | 2152.0 | 2153.4 | 2154.7 | 2172.0 |
| 35°   | 2245.3 | 2253.4 | 2276.0 | 2300.0 | 2322.7 | 2321.3 | 2306.6 | 2316.0 | 2309.3 | 2317.3 | 2318.7 |
| 37.5° | 2482.7 | 2472.0 | 2505.3 | 2560.0 | 2594.7 | 2585.3 | 2520.0 | 2477.3 | 2489.3 | 2484.0 | 2480.0 |
| 40°   | 2665.3 | 2677.3 | 2741.3 | 2813.4 | 2840.0 | 2869.3 | 2784.0 | 2710.7 | 2700.0 | 2680.0 | 2668.0 |
| 42.5° | 2917.3 | 2918.7 | 2970.7 | 3024.0 | 3101.3 | 3165.3 | 3110.7 | 3005.3 | 2973.4 | 2949.3 | 2897.3 |
| 45°   | 3150.7 | 3146.6 | 3189.3 | 3254.7 | 3346.6 | 3438.7 | 3458.7 | 3344.0 | 3332.0 | 3289.3 | 3221.3 |
| 47.5° | 3306.6 | 3301.3 | 3330.7 | 3416.0 | 3565.3 | 3716.0 | 3798.7 | 3764.0 | 3741.3 | 3724.0 | 3617.3 |
| 50°   | 3412.0 | 3401.3 | 3434.7 | 3525.3 | 3692.0 | 3924.0 | 4140.0 | 4169.3 | 4160.0 | 4160.0 | 4092.0 |
| 52.5° | 3490.7 | 3490.7 | 3514.7 | 3588.0 | 3757.3 | 4046.6 | 4433.4 | 4581.3 | 4593.4 | 4606.6 | 4602.7 |
| 55°   | 3446.6 | 3453.4 | 3513.4 | 3620.0 | 3798.7 | 4132.0 | 4676.0 | 5000.0 | 5066.6 | 5122.7 | 5186.6 |
| 57.5° | 3296.0 | 3318.7 | 3398.7 | 3573.4 | 3809.3 | 4196.0 | 4945.3 | 5586.6 | 5774.7 | 5937.3 | 6190.7 |
| 60°   | 3076.0 | 3105.3 | 3221.3 | 3444.0 | 3730.7 | 4092.0 | 5040.0 | 6082.7 | 6381.3 | 6736.0 | 7397.3 |
| 62.5° | 2698.7 | 2728.0 | 2841.3 | 3064.0 | 3309.3 | 3693.4 | 4648.0 | 6156.0 | 6633.4 | 7136.0 | 8136.0 |
| 65°   | 1912.0 | 1865.3 | 1996.0 | 2196.0 | 2477.3 | 2849.3 | 3756.0 | 5664.0 | 6350.7 | 7032.0 | 8266.6 |
| 67.5° | 1065.3 | 1061.3 | 1141.3 | 1290.7 | 1560.0 | 1960.0 | 2588.0 | 4344.0 | 4976.0 | 5748.0 | 7264.0 |
| 70°   | 734.7  | 742.7  | 793.4  | 954.7  | 1177.3 | 1522.7 | 1844.0 | 2728.0 | 3182.7 | 3706.6 | 5197.3 |
| 72.5° | 516.0  | 533.4  | 561.3  | 657.3  | 885.3  | 1282.7 | 1884.0 | 1630.7 | 1857.3 | 2214.7 | 3125.3 |
| 75°   | 302.7  | 314.7  | 334.7  | 381.3  | 504.0  | 857.3  | 1950.7 | 1433.4 | 1433.4 | 1517.3 | 1890.7 |
| 77.5° | 186.6  | 186.6  | 198.7  | 217.3  | 268.0  | 420.0  | 1389.3 | 1610.7 | 1565.3 | 1517.3 | 1521.3 |
| 80°   | 96.0   | 102.7  | 120.0  | 129.3  | 149.3  | 192.0  | 624.0  | 1502.7 | 1648.0 | 1745.3 | 1677.3 |
| 82.5° | 44.0   | 49.3   | 73.4   | 78.7   | 86.6   | 101.3  | 214.7  | 854.7  | 1145.3 | 1508.0 | 1884.0 |
| 85°   | 22.7   | 22.7   | 38.7   | 48.0   | 52.0   | 46.6   | 78.7   | 345.3  | 522.7  | 797.3  | 1248.0 |
| 87.5° | 4.0    | 4.0    | 6.6    | 8.0    | 12.0   | 10.7   | 13.4   | 20.0   | 33.4   | 36.0   | 37.3   |
| 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°     | 70°     | 71°     | 72°     | 73°     | 74°     | 75°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3  | 1225.3  | 1225.3  | 1225.3  | 1225.3  | 1225.3  | 1225.3  |
| 2.5°  | 1249.3 | 1250.7 | 1249.3 | 1248.0 | 1245.3  | 1245.3  | 1245.3  | 1244.0  | 1244.0  | 1244.0  | 1242.7  |
| 5°    | 1285.3 | 1280.0 | 1281.3 | 1278.7 | 1277.3  | 1276.0  | 1277.3  | 1274.7  | 1272.0  | 1273.4  | 1272.0  |
| 7.5°  | 1330.7 | 1328.0 | 1322.7 | 1322.7 | 1321.3  | 1318.7  | 1318.7  | 1314.7  | 1313.4  | 1310.7  | 1309.3  |
| 10°   | 1381.3 | 1374.7 | 1377.3 | 1374.7 | 1376.0  | 1370.7  | 1368.0  | 1365.3  | 1362.7  | 1362.7  | 1364.0  |
| 12.5° | 1433.4 | 1432.0 | 1428.0 | 1425.3 | 1425.3  | 1421.3  | 1422.7  | 1421.3  | 1417.3  | 1416.0  | 1412.0  |
| 15°   | 1486.6 | 1486.6 | 1482.7 | 1484.0 | 1482.7  | 1480.0  | 1477.3  | 1477.3  | 1474.7  | 1472.0  | 1473.4  |
| 17.5° | 1549.3 | 1549.3 | 1549.3 | 1549.3 | 1550.7  | 1546.6  | 1548.0  | 1545.3  | 1542.7  | 1548.0  | 1548.0  |
| 20°   | 1630.7 | 1636.0 | 1636.0 | 1634.7 | 1641.3  | 1637.3  | 1636.0  | 1642.7  | 1636.0  | 1645.3  | 1644.0  |
| 22.5° | 1724.0 | 1729.3 | 1729.3 | 1734.7 | 1736.0  | 1740.0  | 1742.7  | 1740.0  | 1745.3  | 1750.7  | 1750.7  |
| 25°   | 1828.0 | 1833.4 | 1837.3 | 1845.3 | 1849.3  | 1846.6  | 1848.0  | 1854.7  | 1857.3  | 1862.7  | 1868.0  |
| 27.5° | 1937.3 | 1938.7 | 1944.0 | 1953.4 | 1960.0  | 1962.7  | 1964.0  | 1974.7  | 1976.0  | 1978.7  | 1984.0  |
| 30°   | 2044.0 | 2057.3 | 2054.7 | 2066.6 | 2070.7  | 2074.7  | 2082.7  | 2086.6  | 2096.0  | 2101.3  | 2101.3  |
| 32.5° | 2169.3 | 2166.6 | 2177.3 | 2186.6 | 2193.4  | 2200.0  | 2206.6  | 2212.0  | 2217.3  | 2220.0  | 2233.4  |
| 35°   | 2325.3 | 2330.7 | 2330.7 | 2332.0 | 2348.0  | 2349.3  | 2354.7  | 2366.6  | 2370.7  | 2378.7  | 2384.0  |
| 37.5° | 2480.0 | 2470.7 | 2469.3 | 2469.3 | 2464.0  | 2468.0  | 2469.3  | 2470.7  | 2476.0  | 2477.3  | 2482.7  |
| 40°   | 2653.4 | 2641.3 | 2630.7 | 2624.0 | 2613.4  | 2598.7  | 2596.0  | 2589.3  | 2593.4  | 2592.0  | 2593.4  |
| 42.5° | 2890.7 | 2857.3 | 2832.0 | 2813.4 | 2792.0  | 2776.0  | 2764.0  | 2746.6  | 2734.7  | 2720.0  | 2717.3  |
| 45°   | 3193.4 | 3130.7 | 3088.0 | 3057.3 | 3026.6  | 2982.7  | 2957.3  | 2930.7  | 2906.6  | 2882.7  | 2862.7  |
| 47.5° | 3590.7 | 3524.0 | 3456.0 | 3400.0 | 3352.0  | 3281.3  | 3209.3  | 3169.3  | 3122.7  | 3081.3  | 3052.0  |
| 50°   | 4058.7 | 3978.7 | 3946.6 | 3868.0 | 3808.0  | 3701.3  | 3612.0  | 3546.6  | 3453.4  | 3390.7  | 3336.0  |
| 52.5° | 4537.3 | 4517.3 | 4500.0 | 4433.4 | 4362.7  | 4301.3  | 4222.7  | 4108.0  | 4013.4  | 3941.3  | 3829.3  |
| 55°   | 5189.3 | 5198.7 | 5192.0 | 5156.0 | 5130.7  | 5072.0  | 5040.0  | 4940.0  | 4897.3  | 4793.4  | 4676.0  |
| 57.5° | 6286.6 | 6361.3 | 6456.0 | 6493.4 | 6544.0  | 6496.0  | 6552.0  | 6620.0  | 6450.7  | 6509.3  | 6404.0  |
| 60°   | 7688.0 | 8030.7 | 8234.7 | 8485.3 | 8649.3  | 8878.7  | 8920.0  | 8980.0  | 8962.7  | 8996.0  | 9064.0  |
| 62.5° | 8544.0 | 8950.7 | 9341.3 | 9625.3 | 9929.3  | 10097.3 | 10300.0 | 10441.3 | 10588.0 | 10686.6 | 10658.7 |
| 65°   | 8796.0 | 9214.7 | 9569.3 | 9880.0 | 10152.0 | 10357.3 | 10545.3 | 10722.7 | 10857.3 | 10952.0 | 11008.0 |
| 67.5° | 7870.7 | 8417.3 | 8790.7 | 9154.7 | 9505.3  | 9721.3  | 9878.7  | 10050.7 | 10248.0 | 10412.0 | 10444.0 |
| 70°   | 5922.7 | 6742.7 | 7272.0 | 7708.0 | 8120.0  | 8410.7  | 8630.7  | 8790.7  | 8944.0  | 9061.3  | 9189.3  |
| 72.5° | 3704.0 | 4421.3 | 5026.6 | 5592.0 | 6029.3  | 6429.3  | 6614.7  | 6969.3  | 6922.7  | 7012.0  | 7108.0  |
| 75°   | 2220.0 | 2569.3 | 2902.7 | 3301.3 | 3530.7  | 3864.0  | 3924.0  | 3982.7  | 3952.0  | 3852.0  | 3926.6  |
| 77.5° | 1542.7 | 1600.0 | 1597.3 | 1574.7 | 1550.7  | 1492.0  | 1416.0  | 1374.7  | 1346.6  | 1306.6  | 1322.7  |
| 80°   | 1552.0 | 1428.0 | 1238.7 | 1041.3 | 860.0   | 740.0   | 692.0   | 692.0   | 741.3   | 812.0   | 882.7   |
| 82.5° | 1854.7 | 1722.7 | 1536.0 | 1285.3 | 1018.7  | 829.3   | 702.7   | 652.0   | 661.3   | 733.4   | 824.0   |
| 85°   | 1250.7 | 1280.0 | 1122.7 | 1026.6 | 813.4   | 633.4   | 530.7   | 430.7   | 381.3   | 393.4   | 445.3   |
| 87.5° | 45.3   | 54.7   | 20.0   | 26.6   | 18.7    | 16.0    | 16.0    | 17.3    | 12.0    | 14.7    | 13.4    |
| 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):**

|       | 76°     | 77°     | 78°     | 79°     | 80°     | 81°     | 82°     | 83°     | 84°     | 85°     | 86°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1225.3  | 1225.3  | 1225.3  | 1225.3  | 1225.3  | 1225.3  | 1225.3  | 1225.3  | 1225.3  | 1225.3  | 1225.3  |
| 2.5°  | 1241.3  | 1240.0  | 1240.0  | 1237.3  | 1237.3  | 1236.0  | 1236.0  | 1234.7  | 1233.4  | 1233.4  | 1232.0  |
| 5°    | 1270.7  | 1269.3  | 1266.6  | 1265.3  | 1262.7  | 1262.7  | 1261.3  | 1258.7  | 1258.7  | 1256.0  | 1254.7  |
| 7.5°  | 1312.0  | 1309.3  | 1306.6  | 1305.3  | 1304.0  | 1300.0  | 1300.0  | 1297.3  | 1297.3  | 1294.7  | 1293.4  |
| 10°   | 1361.3  | 1358.7  | 1356.0  | 1357.3  | 1353.4  | 1352.0  | 1349.3  | 1349.3  | 1345.3  | 1344.0  | 1344.0  |
| 12.5° | 1414.7  | 1413.4  | 1413.4  | 1409.3  | 1408.0  | 1406.6  | 1401.3  | 1401.3  | 1401.3  | 1398.7  | 1400.0  |
| 15°   | 1472.0  | 1473.4  | 1469.3  | 1473.4  | 1472.0  | 1468.0  | 1468.0  | 1468.0  | 1462.7  | 1469.3  | 1464.0  |
| 17.5° | 1549.3  | 1553.4  | 1550.7  | 1552.0  | 1549.3  | 1549.3  | 1550.7  | 1549.3  | 1552.0  | 1552.0  | 1560.0  |
| 20°   | 1645.3  | 1646.6  | 1653.4  | 1650.7  | 1650.7  | 1649.3  | 1652.0  | 1653.4  | 1658.7  | 1656.0  | 1661.3  |
| 22.5° | 1750.7  | 1757.3  | 1758.7  | 1764.0  | 1764.0  | 1762.7  | 1765.3  | 1770.7  | 1773.4  | 1777.3  | 1776.0  |
| 25°   | 1870.7  | 1874.7  | 1880.0  | 1873.4  | 1884.0  | 1884.0  | 1886.6  | 1893.4  | 1894.7  | 1894.7  | 1904.0  |
| 27.5° | 1982.7  | 1993.4  | 1994.7  | 2001.3  | 1997.3  | 2000.0  | 2009.3  | 2013.4  | 2018.7  | 2018.7  | 2021.3  |
| 30°   | 2109.3  | 2113.4  | 2116.0  | 2124.0  | 2122.7  | 2124.0  | 2125.3  | 2132.0  | 2132.0  | 2138.7  | 2145.3  |
| 32.5° | 2240.0  | 2242.7  | 2245.3  | 2253.4  | 2256.0  | 2261.3  | 2258.7  | 2264.0  | 2270.7  | 2272.0  | 2276.0  |
| 35°   | 2396.0  | 2398.7  | 2401.3  | 2413.4  | 2414.7  | 2424.0  | 2426.6  | 2424.0  | 2434.7  | 2428.0  | 2434.7  |
| 37.5° | 2486.6  | 2498.7  | 2501.3  | 2509.3  | 2506.6  | 2513.4  | 2517.3  | 2522.7  | 2525.3  | 2530.7  | 2541.3  |
| 40°   | 2597.3  | 2601.3  | 2609.3  | 2613.4  | 2618.7  | 2620.0  | 2625.3  | 2629.3  | 2633.4  | 2645.3  | 2657.3  |
| 42.5° | 2710.7  | 2716.0  | 2720.0  | 2725.3  | 2732.0  | 2737.3  | 2741.3  | 2753.4  | 2756.0  | 2764.0  | 2786.6  |
| 45°   | 2848.0  | 2845.3  | 2846.6  | 2848.0  | 2850.7  | 2857.3  | 2869.3  | 2881.3  | 2889.3  | 2908.0  | 2926.6  |
| 47.5° | 3018.7  | 3001.3  | 2994.7  | 2984.0  | 2986.6  | 3001.3  | 3004.0  | 3024.0  | 3040.0  | 3057.3  | 3080.0  |
| 50°   | 3277.3  | 3230.7  | 3202.7  | 3174.7  | 3172.0  | 3180.0  | 3190.7  | 3212.0  | 3230.7  | 3253.4  | 3285.3  |
| 52.5° | 3712.0  | 3622.7  | 3566.6  | 3489.3  | 3468.0  | 3464.0  | 3456.0  | 3468.0  | 3473.4  | 3504.0  | 3564.0  |
| 55°   | 4592.0  | 4426.6  | 4320.0  | 4200.0  | 4088.0  | 4054.7  | 3990.7  | 4004.0  | 3990.7  | 4009.3  | 4098.7  |
| 57.5° | 6429.3  | 6297.3  | 6193.4  | 6040.0  | 5848.0  | 5644.0  | 5593.4  | 5384.0  | 5425.3  | 5545.3  | 5468.0  |
| 60°   | 9097.3  | 9049.3  | 8974.7  | 8901.3  | 8638.7  | 8490.7  | 8249.3  | 8222.7  | 8053.4  | 8054.7  | 7944.0  |
| 62.5° | 10590.7 | 10652.0 | 10606.6 | 10585.3 | 10570.7 | 10524.0 | 10404.0 | 10260.0 | 10044.0 | 9888.0  | 9658.7  |
| 65°   | 11017.3 | 10965.3 | 10916.0 | 10909.3 | 10905.3 | 10981.3 | 10998.7 | 10897.3 | 10701.3 | 10458.7 | 10194.7 |
| 67.5° | 10520.0 | 10490.7 | 10493.4 | 10437.3 | 10472.0 | 10604.0 | 10696.0 | 10668.0 | 10488.0 | 10194.7 | 9858.7  |
| 70°   | 9336.0  | 9278.7  | 9337.3  | 9410.7  | 9462.7  | 9538.7  | 9630.7  | 9653.4  | 9489.3  | 9188.0  | 8845.3  |
| 72.5° | 6990.7  | 7000.0  | 7056.0  | 7076.0  | 7285.3  | 7264.0  | 7346.6  | 7077.3  | 6958.7  | 6672.0  | 6496.0  |
| 75°   | 3678.7  | 3618.7  | 3774.7  | 3444.0  | 3308.0  | 3402.7  | 3137.3  | 2882.7  | 2936.0  | 2980.0  | 2662.7  |
| 77.5° | 1300.0  | 1216.0  | 1073.4  | 1016.0  | 845.3   | 716.0   | 585.3   | 528.0   | 497.3   | 481.3   | 461.3   |
| 80°   | 933.4   | 960.0   | 930.7   | 861.3   | 732.0   | 586.6   | 462.7   | 365.3   | 313.4   | 285.3   | 266.6   |
| 82.5° | 944.0   | 1049.3  | 1096.0  | 1076.0  | 958.7   | 725.3   | 478.7   | 305.3   | 226.6   | 189.3   | 176.0   |
| 85°   | 506.6   | 554.7   | 533.4   | 449.3   | 404.0   | 241.3   | 165.3   | 110.7   | 93.4    | 85.3    | 78.7    |
| 87.5° | 20.0    | 16.0    | 13.4    | 13.4    | 14.7    | 16.0    | 13.4    | 14.7    | 13.4    | 13.4    | 13.4    |
| 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):**

|       | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 | 1225.3 |
| 2.5°  | 1229.3 | 1229.3 | 1229.3 | 1228.0 | 1225.3 | 1218.7 | 1212.0 | 1206.6 | 1202.7 | 1198.7 | 1193.4 |
| 5°    | 1253.4 | 1250.7 | 1250.7 | 1250.7 | 1240.0 | 1229.3 | 1220.0 | 1210.7 | 1202.7 | 1196.0 | 1190.7 |
| 7.5°  | 1293.4 | 1292.0 | 1286.6 | 1285.3 | 1277.3 | 1260.0 | 1249.3 | 1233.4 | 1224.0 | 1214.7 | 1212.0 |
| 10°   | 1341.3 | 1340.0 | 1338.7 | 1337.3 | 1326.6 | 1309.3 | 1296.0 | 1281.3 | 1268.0 | 1254.7 | 1241.3 |
| 12.5° | 1397.3 | 1396.0 | 1394.7 | 1390.7 | 1386.6 | 1377.3 | 1362.7 | 1346.6 | 1330.7 | 1302.7 | 1288.0 |
| 15°   | 1466.6 | 1469.3 | 1466.6 | 1465.3 | 1462.7 | 1464.0 | 1454.7 | 1432.0 | 1406.6 | 1370.7 | 1340.0 |
| 17.5° | 1558.7 | 1556.0 | 1554.7 | 1560.0 | 1558.7 | 1565.3 | 1562.7 | 1533.4 | 1494.7 | 1437.3 | 1384.0 |
| 20°   | 1660.0 | 1660.0 | 1665.3 | 1669.3 | 1681.3 | 1698.7 | 1690.7 | 1654.7 | 1584.0 | 1504.0 | 1434.7 |
| 22.5° | 1781.3 | 1784.0 | 1789.3 | 1786.6 | 1805.3 | 1833.4 | 1836.0 | 1785.3 | 1693.4 | 1582.7 | 1485.3 |
| 25°   | 1908.0 | 1910.7 | 1905.3 | 1913.4 | 1944.0 | 1984.0 | 1992.0 | 1920.0 | 1798.7 | 1654.7 | 1528.0 |
| 27.5° | 2028.0 | 2030.7 | 2030.7 | 2041.3 | 2070.7 | 2138.7 | 2146.6 | 2066.6 | 1905.3 | 1717.3 | 1558.7 |
| 30°   | 2145.3 | 2156.0 | 2158.7 | 2161.3 | 2205.3 | 2300.0 | 2317.3 | 2201.3 | 1998.7 | 1764.0 | 1580.0 |
| 32.5° | 2293.4 | 2297.3 | 2302.7 | 2309.3 | 2360.0 | 2476.0 | 2476.0 | 2317.3 | 2058.7 | 1793.4 | 1584.0 |
| 35°   | 2452.0 | 2453.4 | 2465.3 | 2466.6 | 2538.7 | 2654.7 | 2632.0 | 2413.4 | 2101.3 | 1786.6 | 1554.7 |
| 37.5° | 2548.0 | 2553.4 | 2565.3 | 2581.3 | 2657.3 | 2821.3 | 2769.3 | 2496.0 | 2109.3 | 1742.7 | 1488.0 |
| 40°   | 2666.6 | 2677.3 | 2689.3 | 2705.3 | 2818.7 | 2990.7 | 2885.3 | 2548.0 | 2076.0 | 1656.0 | 1388.0 |
| 42.5° | 2794.7 | 2809.3 | 2828.0 | 2857.3 | 2992.0 | 3140.0 | 2973.4 | 2556.0 | 2000.0 | 1558.7 | 1269.3 |
| 45°   | 2938.7 | 2965.3 | 2986.6 | 3021.3 | 3173.4 | 3269.3 | 3026.6 | 2509.3 | 1904.0 | 1430.7 | 1142.7 |
| 47.5° | 3105.3 | 3126.6 | 3164.0 | 3201.3 | 3353.4 | 3357.3 | 3032.0 | 2418.7 | 1773.4 | 1302.7 | 1008.0 |
| 50°   | 3310.7 | 3324.0 | 3380.0 | 3402.7 | 3545.3 | 3449.3 | 2993.4 | 2296.0 | 1636.0 | 1158.7 | 858.7  |
| 52.5° | 3584.0 | 3602.7 | 3674.7 | 3709.3 | 3810.7 | 3574.7 | 2938.7 | 2162.7 | 1478.7 | 997.3  | 705.3  |
| 55°   | 4124.0 | 4205.3 | 4256.0 | 4316.0 | 4381.3 | 3858.7 | 2914.7 | 2020.0 | 1301.3 | 810.7  | 558.7  |
| 57.5° | 5640.0 | 5613.4 | 5725.3 | 5861.3 | 5860.0 | 4508.0 | 3058.7 | 1897.3 | 1092.0 | 620.0  | 429.3  |
| 60°   | 7898.7 | 7924.0 | 7866.6 | 7948.0 | 7689.3 | 5313.4 | 3256.0 | 1768.0 | 856.0  | 461.3  | 328.0  |
| 62.5° | 9577.3 | 9430.7 | 9349.3 | 9253.4 | 8684.0 | 5401.3 | 3112.0 | 1502.7 | 622.7  | 324.0  | 252.0  |
| 65°   | 9974.7 | 9802.7 | 9628.0 | 9445.3 | 8586.6 | 4869.3 | 2553.4 | 1102.7 | 402.7  | 222.7  | 200.0  |
| 67.5° | 9582.7 | 9306.6 | 9084.0 | 8896.0 | 7868.0 | 4036.0 | 1866.6 | 677.3  | 230.7  | 180.0  | 170.7  |
| 70°   | 8566.6 | 8261.3 | 7901.3 | 7690.7 | 6625.3 | 2974.7 | 1196.0 | 365.3  | 177.3  | 160.0  | 156.0  |
| 72.5° | 6270.7 | 6020.0 | 5626.6 | 5385.3 | 4757.3 | 1808.0 | 668.0  | 205.3  | 165.3  | 153.4  | 148.0  |
| 75°   | 2442.7 | 2312.0 | 2148.0 | 2161.3 | 1929.3 | 800.0  | 302.7  | 177.3  | 161.3  | 150.7  | 145.3  |
| 77.5° | 420.0  | 409.3  | 378.7  | 378.7  | 430.7  | 292.0  | 201.3  | 178.7  | 160.0  | 148.0  | 138.7  |
| 80°   | 252.0  | 246.6  | 234.7  | 232.0  | 224.0  | 205.3  | 193.4  | 181.3  | 157.3  | 140.0  | 128.0  |
| 82.5° | 165.3  | 158.7  | 154.7  | 153.4  | 166.6  | 180.0  | 181.3  | 180.0  | 149.3  | 121.3  | 104.0  |
| 85°   | 70.7   | 70.7   | 70.7   | 72.0   | 96.0   | 145.3  | 149.3  | 160.0  | 122.7  | 94.7   | 74.7   |
| 87.5° | 12.0   | 14.7   | 14.7   | 16.0   | 17.3   | 32.0   | 40.0   | 52.0   | 41.3   | 40.0   | 36.0   |
| 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):**

|       | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|
| 0°    | 1225.3 | 1225.3 | 1225.3 |
| 2.5°  | 1192.0 | 1189.3 | 1189.3 |
| 5°    | 1188.0 | 1185.3 | 1186.6 |
| 7.5°  | 1204.0 | 1198.7 | 1200.0 |
| 10°   | 1233.4 | 1228.0 | 1225.3 |
| 12.5° | 1270.7 | 1264.0 | 1264.0 |
| 15°   | 1309.3 | 1293.4 | 1292.0 |
| 17.5° | 1341.3 | 1321.3 | 1318.7 |
| 20°   | 1377.3 | 1350.7 | 1346.6 |
| 22.5° | 1410.7 | 1374.7 | 1369.3 |
| 25°   | 1434.7 | 1390.7 | 1384.0 |
| 27.5° | 1445.3 | 1393.4 | 1388.0 |
| 30°   | 1453.4 | 1394.7 | 1386.6 |
| 32.5° | 1445.3 | 1382.7 | 1376.0 |
| 35°   | 1401.3 | 1333.4 | 1329.3 |
| 37.5° | 1325.3 | 1249.3 | 1244.0 |
| 40°   | 1225.3 | 1145.3 | 1132.0 |
| 42.5° | 1097.3 | 1022.7 | 1008.0 |
| 45°   | 973.4  | 888.0  | 881.3  |
| 47.5° | 840.0  | 758.7  | 762.7  |
| 50°   | 700.0  | 626.6  | 625.3  |
| 52.5° | 566.6  | 502.7  | 498.7  |
| 55°   | 446.6  | 401.3  | 397.3  |
| 57.5° | 353.4  | 329.3  | 325.3  |
| 60°   | 288.0  | 276.0  | 272.0  |
| 62.5° | 232.0  | 228.0  | 226.6  |
| 65°   | 193.4  | 193.4  | 193.4  |
| 67.5° | 168.0  | 169.3  | 169.3  |
| 70°   | 154.7  | 156.0  | 154.7  |
| 72.5° | 149.3  | 153.4  | 153.4  |
| 75°   | 145.3  | 148.0  | 142.7  |
| 77.5° | 142.7  | 144.0  | 134.7  |
| 80°   | 141.3  | 140.0  | 122.7  |
| 82.5° | 122.7  | 118.7  | 104.0  |
| 85°   | 112.0  | 85.3   | 72.0   |
| 87.5° | 57.3   | 40.0   | 30.7   |
| 90°   | 0.0    | 0.0    | 0.0    |

(END OF REPORT)