

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P158878

Luminaire Tested: **VST-E04-LED-E-U-SLL-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158878  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-E04-LED-E-U-SLL-8030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9072.2 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - 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: 28.75 FT

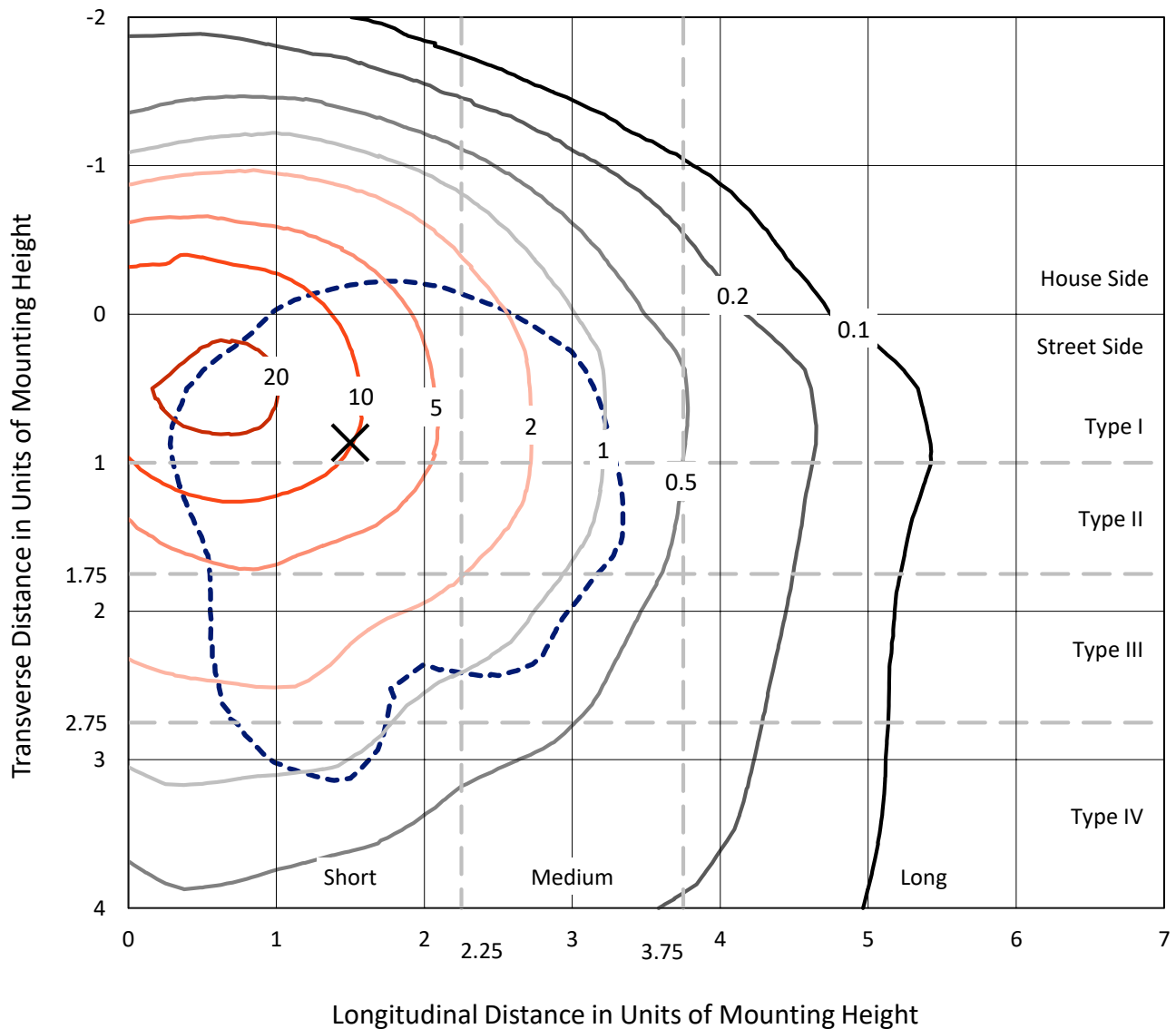


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

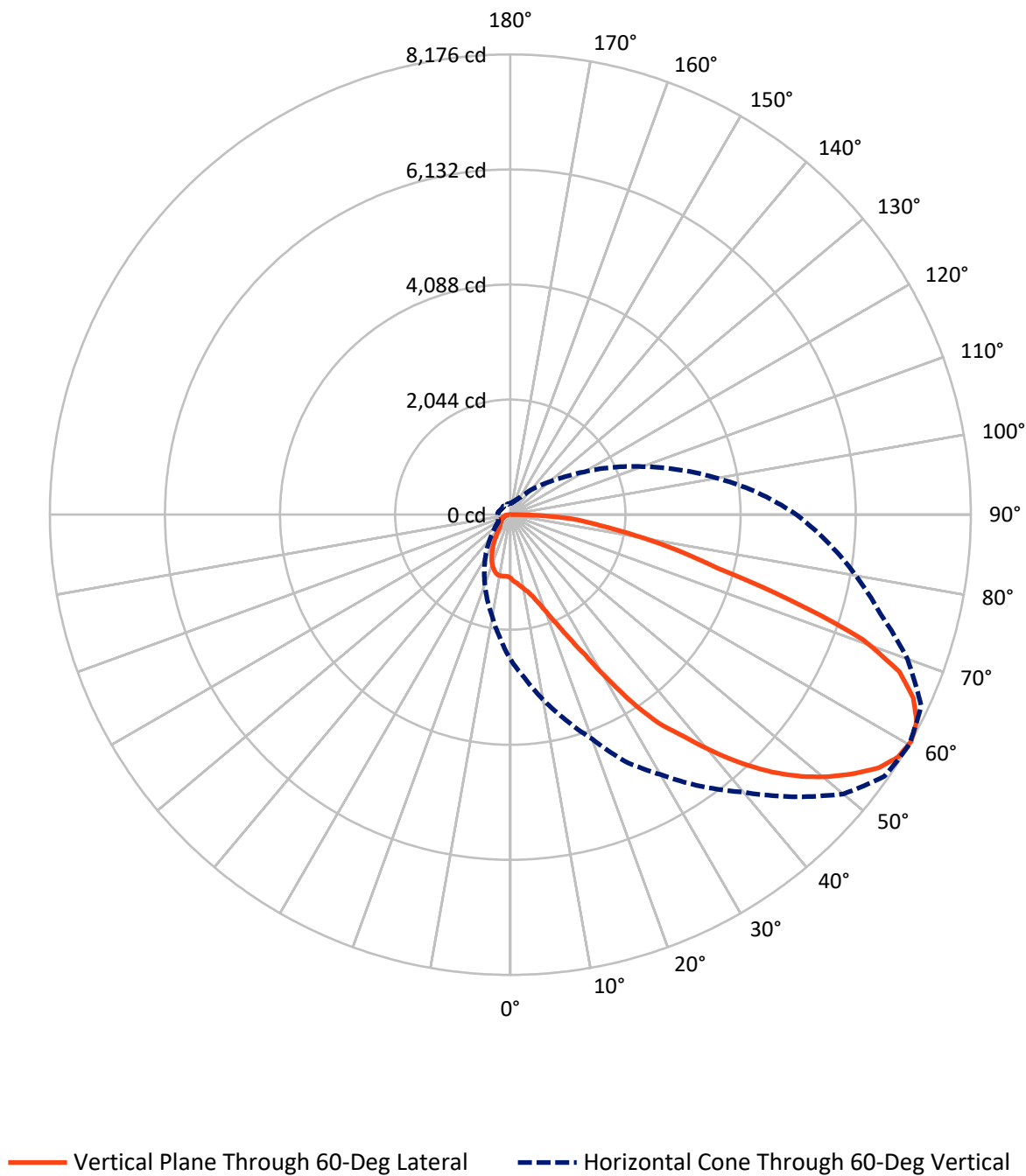


Based on 10 foot mounting height. Maximum calculated value = 26 fc  
Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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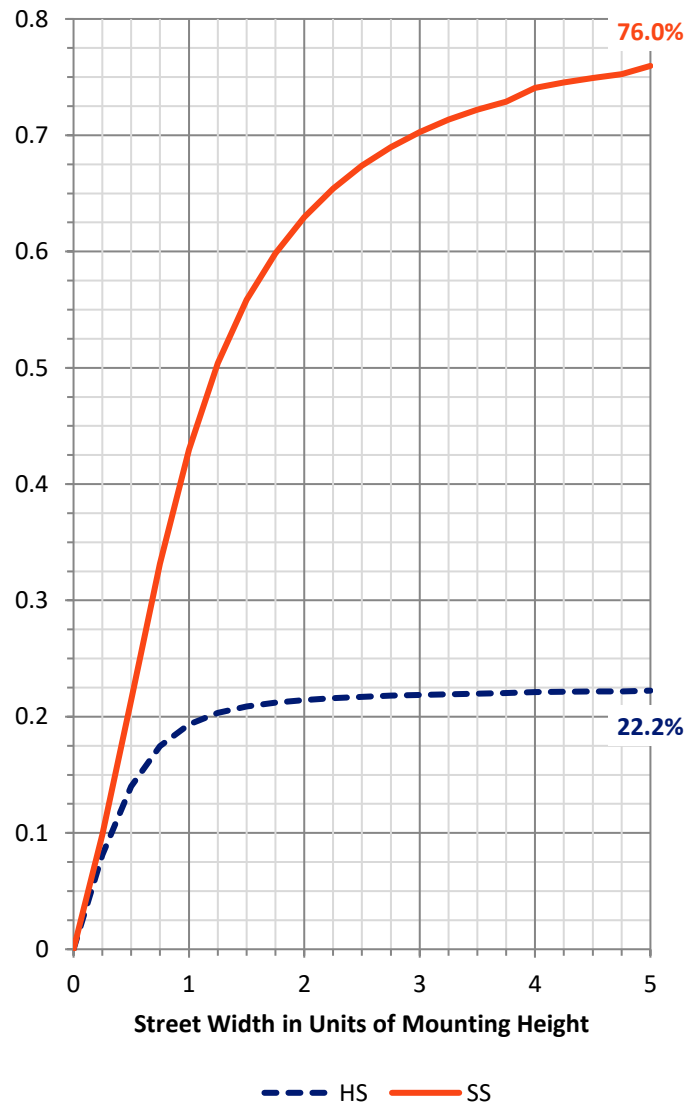
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2042.8   | 0.0    | 2042.8 |
|                    | % Fixture | 22.5     | 0.0    | 22.5   |
| <b>Street Side</b> | Lumens    | 7029.4   | 0.0    | 7029.4 |
|                    | % Fixture | 77.5     | 0.0    | 77.5   |
| <b>Total</b>       | Lumens    | 9072.2   | 0.0    | 9072.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.3  | 1.2       |
| 10°-20°   | 359.4  | 4.0       |
| 20°-30°   | 682.0  | 7.5       |
| 30°-40°   | 1074.0 | 11.8      |
| 40°-50°   | 1499.1 | 16.5      |
| 50°-60°   | 1854.0 | 20.4      |
| 60°-70°   | 1921.7 | 21.2      |
| 70°-80°   | 1209.2 | 13.3      |
| 80°-90°   | 361.5  | 4.0       |
| 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°    | 9072.2 | 100.0     |
| 0°-180°   | 9072.2 | 100.0     |

**Coefficient of Utilization**



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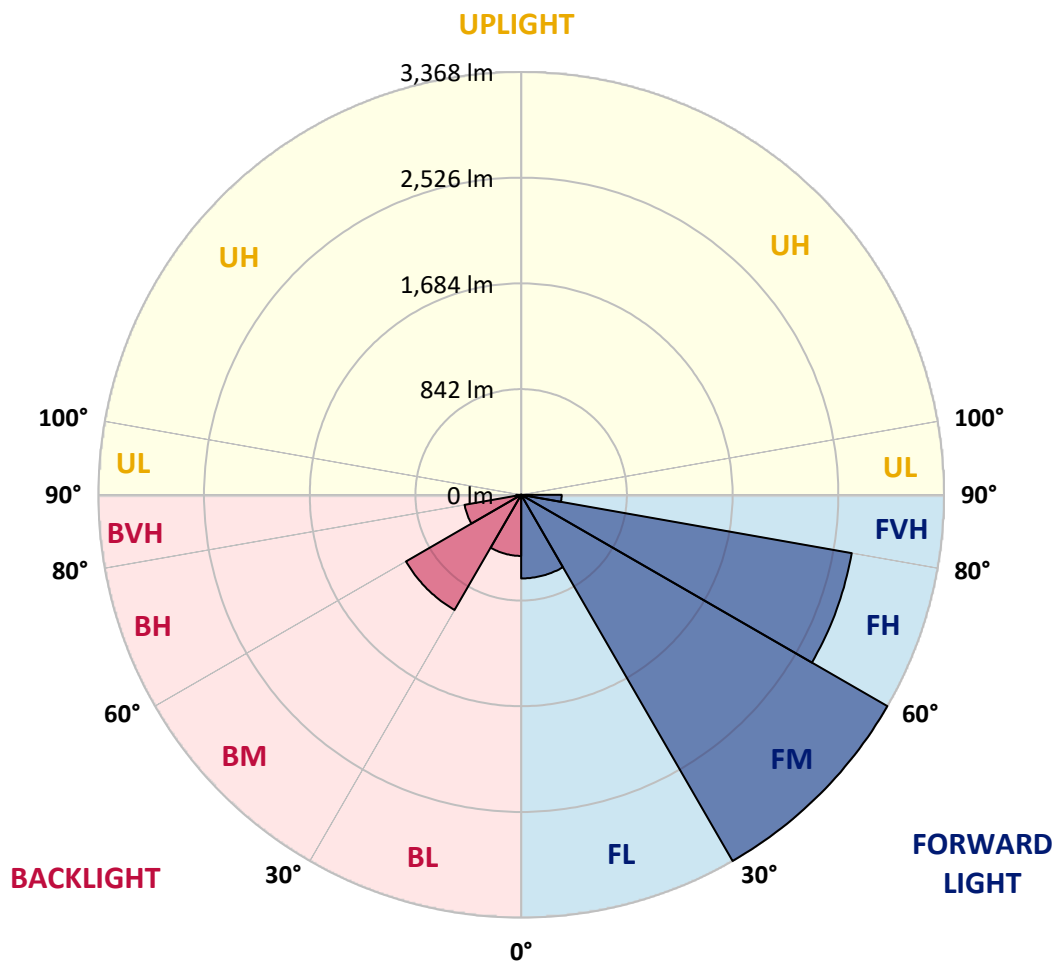
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 666.0  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 3367.7 | 37.1      |                         |      |         |
| FH   | (60°-80°)   | 2673.5 | 29.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 322.1  | 3.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 486.7  | 5.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1059.3 | 11.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 457.5  | 5.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 39.3   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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CATALOG NUMBER: VST-E04-LED-E-U-SLL-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 |
| 2.5°  | 1195.1 | 1193.7 | 1193.7 | 1193.7 | 1193.1 | 1191.7 | 1193.7 | 1193.1 | 1189.7 | 1187.7 | 1189.7 |
| 5°    | 1210.6 | 1211.3 | 1213.3 | 1214.0 | 1214.0 | 1216.0 | 1221.4 | 1222.1 | 1221.4 | 1222.8 | 1226.2 |
| 7.5°  | 1225.5 | 1228.9 | 1230.9 | 1234.3 | 1238.3 | 1241.7 | 1251.1 | 1260.6 | 1266.7 | 1271.4 | 1272.7 |
| 10°   | 1249.8 | 1255.2 | 1261.3 | 1270.0 | 1279.5 | 1296.4 | 1304.5 | 1313.9 | 1320.0 | 1329.5 | 1331.5 |
| 12.5° | 1311.9 | 1318.7 | 1322.7 | 1336.2 | 1348.4 | 1364.6 | 1376.0 | 1378.7 | 1392.9 | 1401.0 | 1410.5 |
| 15°   | 1416.6 | 1426.7 | 1440.9 | 1449.0 | 1462.5 | 1476.6 | 1486.8 | 1500.3 | 1502.3 | 1513.1 | 1520.5 |
| 17.5° | 1544.8 | 1559.0 | 1588.1 | 1607.6 | 1625.2 | 1639.4 | 1659.6 | 1675.2 | 1678.5 | 1690.7 | 1675.2 |
| 20°   | 1724.4 | 1758.9 | 1763.6 | 1802.8 | 1818.3 | 1846.7 | 1887.2 | 1894.6 | 1914.2 | 1894.6 | 1883.1 |
| 22.5° | 1967.5 | 2021.5 | 2036.4 | 2074.2 | 2093.1 | 2136.3 | 2148.5 | 2188.3 | 2201.8 | 2186.9 | 2155.9 |
| 25°   | 2247.0 | 2330.8 | 2374.0 | 2432.0 | 2441.5 | 2529.9 | 2539.4 | 2586.0 | 2561.0 | 2525.2 | 2525.9 |
| 27.5° | 2453.0 | 2595.4 | 2706.8 | 2806.1 | 2875.6 | 2975.6 | 3053.2 | 3074.8 | 3051.2 | 3004.6 | 2988.4 |
| 30°   | 2570.5 | 2731.8 | 2891.9 | 3028.9 | 3191.0 | 3343.6 | 3502.2 | 3581.2 | 3594.7 | 3619.0 | 3521.1 |
| 32.5° | 2646.1 | 2853.4 | 3043.8 | 3213.2 | 3379.3 | 3575.8 | 3788.5 | 3991.7 | 4162.6 | 4291.5 | 4230.8 |
| 35°   | 2709.5 | 2965.4 | 3209.2 | 3414.4 | 3610.9 | 3825.0 | 4039.7 | 4279.4 | 4562.3 | 4727.7 | 4762.1 |
| 37.5° | 2735.2 | 3047.8 | 3346.3 | 3609.6 | 3885.7 | 4126.8 | 4340.1 | 4553.5 | 4850.6 | 5145.6 | 5236.8 |
| 40°   | 2730.5 | 3088.3 | 3428.0 | 3758.8 | 4097.1 | 4398.2 | 4648.0 | 4900.5 | 5248.3 | 5593.3 | 5741.8 |
| 42.5° | 2698.7 | 3094.4 | 3479.9 | 3858.1 | 4243.6 | 4644.0 | 4963.3 | 5254.3 | 5587.9 | 6030.1 | 6240.1 |
| 45°   | 2658.9 | 3073.5 | 3490.7 | 3908.7 | 4352.3 | 4815.5 | 5219.2 | 5579.1 | 5970.1 | 6406.9 | 6660.8 |
| 47.5° | 2604.9 | 3040.4 | 3477.2 | 3926.2 | 4400.9 | 4925.5 | 5400.2 | 5833.0 | 6263.1 | 6766.1 | 7088.2 |
| 50°   | 2546.2 | 2993.1 | 3449.6 | 3913.4 | 4413.1 | 4985.6 | 5503.5 | 5996.4 | 6498.7 | 7041.6 | 7448.7 |
| 52.5° | 2505.0 | 2942.5 | 3424.6 | 3887.1 | 4400.9 | 5003.9 | 5541.3 | 6084.2 | 6643.2 | 7204.3 | 7690.4 |
| 55°   | 2454.3 | 2875.0 | 3357.7 | 3825.6 | 4356.3 | 4993.7 | 5537.3 | 6114.5 | 6683.1 | 7267.1 | 7822.1 |
| 57.5° | 2457.7 | 2843.9 | 3301.0 | 3752.0 | 4265.2 | 4899.9 | 5461.0 | 6084.2 | 6620.3 | 7226.6 | 7826.8 |
| 60°   | 2564.4 | 2910.8 | 3330.7 | 3766.9 | 4238.2 | 4840.5 | 5331.3 | 5888.4 | 6435.9 | 7086.8 | 7717.5 |
| 62.5° | 2784.5 | 3101.8 | 3483.3 | 3915.4 | 4390.1 | 4959.3 | 5272.6 | 5562.9 | 6049.1 | 6829.6 | 7531.1 |
| 65°   | 3047.1 | 3333.4 | 3664.3 | 4075.5 | 4607.5 | 5152.4 | 5239.5 | 5298.2 | 5544.0 | 6329.3 | 7181.4 |
| 67.5° | 3309.8 | 3565.7 | 3825.6 | 4166.6 | 4731.1 | 5207.8 | 5104.5 | 4964.7 | 5097.0 | 5747.9 | 6494.0 |
| 70°   | 3404.3 | 3743.9 | 3914.8 | 4149.1 | 4637.2 | 5078.8 | 4886.4 | 4534.6 | 4580.5 | 5172.0 | 5717.5 |
| 72.5° | 3262.5 | 3746.6 | 3803.4 | 3890.5 | 4219.3 | 4634.5 | 4431.3 | 3978.9 | 3969.5 | 4421.2 | 4862.1 |
| 75°   | 2736.6 | 3417.8 | 3417.2 | 3384.7 | 3459.0 | 3695.3 | 3590.0 | 3317.2 | 3432.7 | 3788.5 | 3933.7 |
| 77.5° | 1950.6 | 2667.0 | 2700.8 | 2482.7 | 2477.3 | 2584.0 | 2647.4 | 2964.8 | 3383.4 | 3583.2 | 3537.3 |
| 80°   | 1225.5 | 1799.4 | 1944.6 | 1675.2 | 1617.8 | 1769.0 | 2161.3 | 2623.1 | 3138.3 | 3317.9 | 3163.3 |
| 82.5° | 738.0  | 1159.3 | 1468.5 | 1316.0 | 1302.4 | 1577.9 | 2011.4 | 2191.0 | 2345.6 | 2536.7 | 2278.1 |
| 85°   | 501.0  | 772.4  | 1004.7 | 1035.1 | 1153.2 | 1438.2 | 1626.5 | 1546.9 | 1550.9 | 1501.0 | 1367.3 |
| 87.5° | 95.9   | 210.7  | 344.3  | 420.0  | 465.9  | 625.9  | 680.6  | 616.5  | 650.9  | 476.0  | 520.6  |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 |
| 2.5°  | 1186.3 | 1186.3 | 1186.3 | 1182.9 | 1183.6 | 1178.9 | 1176.9 | 1176.9 | 1174.8 | 1174.8 | 1174.2 |
| 5°    | 1223.4 | 1219.4 | 1221.4 | 1220.7 | 1220.7 | 1214.0 | 1210.6 | 1210.6 | 1201.8 | 1202.5 | 1199.8 |
| 7.5°  | 1278.8 | 1278.1 | 1280.2 | 1276.1 | 1270.7 | 1265.3 | 1259.9 | 1257.2 | 1245.1 | 1237.6 | 1232.9 |
| 10°   | 1341.6 | 1340.9 | 1343.0 | 1342.3 | 1332.8 | 1322.7 | 1307.8 | 1297.0 | 1282.2 | 1270.7 | 1259.2 |
| 12.5° | 1410.5 | 1409.8 | 1408.5 | 1402.4 | 1392.2 | 1376.0 | 1357.1 | 1338.9 | 1316.6 | 1301.8 | 1284.9 |
| 15°   | 1517.8 | 1515.8 | 1507.7 | 1498.9 | 1488.1 | 1463.1 | 1430.1 | 1403.7 | 1374.0 | 1348.4 | 1320.7 |
| 17.5° | 1676.5 | 1659.6 | 1658.3 | 1638.7 | 1609.7 | 1576.6 | 1545.5 | 1501.6 | 1459.1 | 1420.6 | 1382.8 |
| 20°   | 1895.3 | 1856.1 | 1845.3 | 1823.0 | 1784.5 | 1750.1 | 1682.6 | 1623.8 | 1565.8 | 1513.1 | 1465.2 |
| 22.5° | 2133.6 | 2105.3 | 2078.9 | 2042.5 | 1989.8 | 1939.8 | 1854.1 | 1780.5 | 1706.2 | 1638.7 | 1585.4 |
| 25°   | 2466.5 | 2417.2 | 2369.9 | 2311.9 | 2238.9 | 2179.5 | 2081.6 | 2007.3 | 1910.1 | 1848.7 | 1771.7 |
| 27.5° | 2896.6 | 2812.2 | 2732.5 | 2682.5 | 2554.3 | 2467.8 | 2342.9 | 2247.0 | 2129.6 | 2046.5 | 1955.4 |
| 30°   | 3456.3 | 3358.4 | 3240.2 | 3067.4 | 2914.8 | 2743.3 | 2588.7 | 2465.8 | 2340.9 | 2224.8 | 2119.4 |
| 32.5° | 4150.4 | 3977.6 | 3790.5 | 3516.4 | 3265.9 | 3021.5 | 2815.6 | 2664.3 | 2536.7 | 2392.2 | 2243.7 |
| 35°   | 4737.2 | 4558.9 | 4293.6 | 3945.2 | 3635.9 | 3356.4 | 3109.9 | 2903.3 | 2736.6 | 2553.6 | 2357.1 |
| 37.5° | 5200.3 | 4997.1 | 4748.0 | 4377.9 | 4051.2 | 3733.1 | 3474.5 | 3211.2 | 2992.5 | 2740.6 | 2492.1 |
| 40°   | 5731.0 | 5527.1 | 5253.0 | 4869.5 | 4482.6 | 4137.6 | 3834.4 | 3562.3 | 3293.6 | 2986.4 | 2667.0 |
| 42.5° | 6193.5 | 6046.4 | 5768.8 | 5372.5 | 4943.8 | 4559.6 | 4228.1 | 3916.8 | 3565.7 | 3222.0 | 2843.9 |
| 45°   | 6675.6 | 6525.7 | 6262.4 | 5847.8 | 5392.1 | 4964.0 | 4567.7 | 4232.8 | 3818.2 | 3409.0 | 2976.2 |
| 47.5° | 7101.7 | 6947.7 | 6681.7 | 6269.8 | 5785.7 | 5334.7 | 4898.5 | 4493.4 | 4012.0 | 3542.1 | 3062.7 |
| 50°   | 7508.1 | 7319.8 | 7076.0 | 6665.5 | 6148.3 | 5666.2 | 5192.9 | 4673.0 | 4162.6 | 3635.2 | 3121.4 |
| 52.5° | 7881.5 | 7641.8 | 7410.9 | 6988.2 | 6429.2 | 5925.5 | 5397.5 | 4825.6 | 4255.1 | 3708.8 | 3161.3 |
| 55°   | 8093.5 | 7938.9 | 7662.8 | 7247.5 | 6629.0 | 6103.7 | 5527.1 | 4933.0 | 4346.9 | 3760.8 | 3178.1 |
| 57.5° | 8159.0 | 8121.2 | 7889.6 | 7397.4 | 6746.5 | 6201.6 | 5614.9 | 5018.0 | 4408.3 | 3775.7 | 3154.5 |
| 60°   | 8107.0 | 8175.9 | 8049.0 | 7502.7 | 6799.9 | 6230.7 | 5658.1 | 5078.8 | 4419.1 | 3728.4 | 3082.9 |
| 62.5° | 7940.3 | 8096.9 | 8080.7 | 7537.9 | 6772.2 | 6194.2 | 5653.4 | 5047.7 | 4317.9 | 3581.2 | 2922.2 |
| 65°   | 7666.1 | 7863.3 | 7932.8 | 7407.5 | 6616.2 | 6061.2 | 5533.2 | 4852.6 | 4036.3 | 3293.6 | 2652.8 |
| 67.5° | 7150.3 | 7448.7 | 7516.2 | 6980.8 | 6208.4 | 5693.2 | 5186.8 | 4447.5 | 3515.1 | 2848.6 | 2232.2 |
| 70°   | 6116.6 | 6638.5 | 6729.6 | 6167.9 | 5489.3 | 5036.9 | 4607.5 | 3805.4 | 2927.0 | 2284.9 | 1713.0 |
| 72.5° | 4883.0 | 5211.1 | 5397.5 | 5010.6 | 4505.6 | 4177.4 | 3852.0 | 2919.5 | 2208.6 | 1686.0 | 1178.9 |
| 75°   | 3817.5 | 3798.0 | 3964.7 | 3707.5 | 3410.4 | 3257.1 | 3012.7 | 2037.1 | 1479.3 | 1116.8 | 746.1  |
| 77.5° | 3263.9 | 3012.7 | 2823.0 | 2642.0 | 2465.8 | 2417.2 | 2182.9 | 1264.0 | 914.2  | 669.1  | 446.3  |
| 80°   | 2712.9 | 2254.5 | 1908.1 | 1653.5 | 1590.8 | 1686.6 | 1428.7 | 745.4  | 541.5  | 384.2  | 280.2  |
| 82.5° | 1938.5 | 1621.8 | 1320.0 | 1158.6 | 1051.3 | 1203.9 | 842.6  | 413.9  | 293.7  | 230.2  | 185.7  |
| 85°   | 1256.5 | 1201.2 | 1188.3 | 1135.7 | 1005.4 | 949.3  | 640.1  | 356.5  | 220.1  | 143.1  | 115.5  |
| 87.5° | 483.4  | 619.8  | 715.0  | 766.3  | 828.5  | 738.0  | 333.5  | 122.9  | 120.9  | 74.3   | 56.0   |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 |
| 2.5°  | 1169.4 | 1166.7 | 1166.1 | 1164.0 | 1162.7 | 1162.7 | 1159.3 | 1097.9 | 1097.2 | 1097.2 | 1096.5 |
| 5°    | 1194.4 | 1191.0 | 1187.7 | 1187.0 | 1184.3 | 1184.3 | 1180.9 | 1119.5 | 1119.5 | 1119.5 | 1118.1 |
| 7.5°  | 1228.2 | 1221.4 | 1217.4 | 1215.3 | 1211.3 | 1213.3 | 1216.0 | 1153.9 | 1154.6 | 1153.9 | 1155.3 |
| 10°   | 1252.5 | 1248.4 | 1243.7 | 1242.4 | 1239.7 | 1241.7 | 1245.7 | 1184.3 | 1186.3 | 1187.0 | 1188.3 |
| 12.5° | 1276.1 | 1269.4 | 1263.3 | 1261.3 | 1259.9 | 1265.3 | 1270.0 | 1210.6 | 1212.6 | 1214.7 | 1214.7 |
| 15°   | 1305.1 | 1293.7 | 1285.6 | 1280.8 | 1278.1 | 1283.5 | 1290.3 | 1231.6 | 1232.2 | 1234.3 | 1233.6 |
| 17.5° | 1354.4 | 1337.6 | 1318.7 | 1315.3 | 1306.5 | 1308.5 | 1309.9 | 1244.4 | 1241.7 | 1237.0 | 1228.9 |
| 20°   | 1430.7 | 1405.1 | 1379.4 | 1368.6 | 1351.1 | 1343.6 | 1328.8 | 1245.1 | 1228.2 | 1214.0 | 1201.8 |
| 22.5° | 1540.1 | 1502.3 | 1474.6 | 1456.4 | 1420.6 | 1395.6 | 1355.1 | 1241.7 | 1209.9 | 1185.6 | 1166.7 |
| 25°   | 1717.0 | 1671.8 | 1629.2 | 1583.3 | 1527.3 | 1477.3 | 1417.9 | 1271.4 | 1222.1 | 1180.2 | 1143.8 |
| 27.5° | 1889.2 | 1817.6 | 1752.1 | 1683.3 | 1604.3 | 1529.3 | 1445.6 | 1280.8 | 1224.8 | 1170.8 | 1111.4 |
| 30°   | 2018.2 | 1914.2 | 1814.9 | 1714.3 | 1611.0 | 1513.8 | 1419.3 | 1248.4 | 1181.6 | 1120.8 | 1058.0 |
| 32.5° | 2096.5 | 1961.4 | 1832.5 | 1707.6 | 1586.0 | 1476.6 | 1370.6 | 1192.4 | 1118.8 | 1047.2 | 980.4  |
| 35°   | 2170.7 | 2003.3 | 1843.3 | 1696.1 | 1557.0 | 1435.5 | 1321.4 | 1126.9 | 1039.1 | 962.8  | 878.4  |
| 37.5° | 2262.6 | 2047.2 | 1850.0 | 1675.2 | 1514.5 | 1375.4 | 1249.8 | 1044.5 | 956.7  | 862.9  | 783.2  |
| 40°   | 2372.6 | 2092.4 | 1843.3 | 1633.3 | 1448.3 | 1296.4 | 1163.4 | 958.1  | 860.2  | 769.0  | 690.7  |
| 42.5° | 2477.3 | 2132.3 | 1825.7 | 1577.3 | 1376.0 | 1214.0 | 1084.4 | 881.1  | 783.2  | 690.0  | 612.4  |
| 45°   | 2554.9 | 2166.0 | 1816.9 | 1538.1 | 1320.7 | 1158.0 | 1014.8 | 819.0  | 715.7  | 621.9  | 542.9  |
| 47.5° | 2608.9 | 2186.3 | 1812.9 | 1516.5 | 1282.2 | 1099.9 | 951.3  | 756.9  | 648.2  | 553.7  | 476.7  |
| 50°   | 2637.3 | 2185.6 | 1802.8 | 1492.9 | 1225.5 | 1030.3 | 885.9  | 694.1  | 586.1  | 493.6  | 423.3  |
| 52.5° | 2644.7 | 2173.4 | 1781.2 | 1449.6 | 1156.6 | 960.8  | 815.6  | 628.6  | 531.4  | 442.9  | 372.0  |
| 55°   | 2627.9 | 2143.7 | 1735.9 | 1377.4 | 1083.0 | 887.2  | 751.5  | 577.3  | 478.0  | 394.3  | 338.9  |
| 57.5° | 2579.9 | 2091.1 | 1650.8 | 1278.1 | 1005.4 | 819.0  | 677.9  | 515.2  | 420.0  | 349.7  | 303.8  |
| 60°   | 2490.8 | 1979.7 | 1517.8 | 1160.7 | 906.8  | 715.0  | 576.6  | 434.1  | 358.5  | 305.9  | 268.7  |
| 62.5° | 2326.0 | 1804.8 | 1330.8 | 998.6  | 765.0  | 580.0  | 460.5  | 346.4  | 289.7  | 255.2  | 232.3  |
| 65°   | 2060.7 | 1541.5 | 1114.1 | 786.6  | 581.3  | 422.0  | 342.3  | 260.6  | 219.4  | 198.5  | 191.8  |
| 67.5° | 1681.9 | 1190.4 | 810.2  | 546.2  | 393.6  | 295.7  | 238.3  | 190.4  | 170.8  | 162.7  | 160.0  |
| 70°   | 1222.8 | 810.9  | 524.6  | 345.0  | 259.9  | 206.6  | 180.3  | 153.3  | 142.5  | 140.4  | 140.4  |
| 72.5° | 767.7  | 492.9  | 321.4  | 236.3  | 197.2  | 167.4  | 153.9  | 135.0  | 131.0  | 129.6  | 127.6  |
| 75°   | 450.4  | 299.1  | 227.5  | 193.8  | 168.8  | 149.9  | 138.4  | 122.9  | 120.2  | 119.5  | 117.5  |
| 77.5° | 287.0  | 215.4  | 183.7  | 165.4  | 152.6  | 135.7  | 125.6  | 109.4  | 108.7  | 108.0  | 107.4  |
| 80°   | 205.9  | 178.9  | 160.7  | 146.5  | 133.7  | 118.2  | 112.1  | 99.3   | 97.9   | 97.2   | 98.6   |
| 82.5° | 156.0  | 147.9  | 140.4  | 129.6  | 112.1  | 100.6  | 95.9   | 87.1   | 87.8   | 84.4   | 83.7   |
| 85°   | 107.4  | 106.0  | 105.3  | 100.6  | 87.8   | 77.6   | 74.3   | 69.5   | 72.9   | 69.5   | 65.5   |
| 87.5° | 52.7   | 52.0   | 47.9   | 56.7   | 52.7   | 41.9   | 37.8   | 41.9   | 46.6   | 45.2   | 41.9   |
| 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°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 |
| 2.5°  | 1093.8 | 1091.1 | 1093.1 | 1091.8 | 1091.8 | 1091.1 | 1092.5 | 1090.4 | 1089.1 | 1090.4 | 1091.1 |
| 5°    | 1115.4 | 1112.0 | 1112.7 | 1108.0 | 1110.0 | 1105.3 | 1106.6 | 1103.3 | 1099.9 | 1098.5 | 1098.5 |
| 7.5°  | 1151.9 | 1148.5 | 1144.5 | 1143.8 | 1136.3 | 1133.6 | 1128.9 | 1126.2 | 1124.2 | 1119.5 | 1116.8 |
| 10°   | 1185.0 | 1179.6 | 1174.8 | 1174.2 | 1166.7 | 1160.0 | 1153.9 | 1148.5 | 1145.1 | 1138.4 | 1135.0 |
| 12.5° | 1212.0 | 1206.6 | 1199.1 | 1195.1 | 1187.7 | 1179.6 | 1175.5 | 1167.4 | 1162.7 | 1155.3 | 1149.2 |
| 15°   | 1227.5 | 1218.0 | 1207.2 | 1199.8 | 1189.0 | 1180.2 | 1174.2 | 1168.1 | 1163.4 | 1153.9 | 1145.1 |
| 17.5° | 1220.1 | 1204.5 | 1189.7 | 1176.2 | 1161.3 | 1153.2 | 1144.5 | 1137.0 | 1135.7 | 1124.9 | 1111.4 |
| 20°   | 1189.0 | 1170.8 | 1151.2 | 1133.0 | 1113.4 | 1101.9 | 1091.1 | 1079.6 | 1076.3 | 1063.4 | 1045.9 |
| 22.5° | 1151.2 | 1130.3 | 1108.0 | 1085.7 | 1060.7 | 1044.5 | 1028.3 | 1014.1 | 1002.7 | 983.8  | 958.8  |
| 25°   | 1112.7 | 1081.7 | 1049.2 | 1020.9 | 991.9  | 971.6  | 954.7  | 939.2  | 925.7  | 895.3  | 869.6  |
| 27.5° | 1062.1 | 1013.5 | 980.4  | 948.0  | 912.9  | 886.5  | 867.6  | 846.0  | 831.2  | 796.1  | 769.0  |
| 30°   | 997.3  | 948.6  | 901.4  | 869.0  | 833.9  | 805.5  | 781.2  | 750.1  | 728.5  | 702.9  | 677.9  |
| 32.5° | 915.6  | 866.9  | 819.0  | 782.5  | 753.5  | 718.4  | 688.0  | 658.3  | 633.3  | 608.3  | 588.8  |
| 35°   | 816.3  | 769.0  | 723.8  | 687.3  | 654.9  | 627.3  | 598.2  | 572.6  | 544.2  | 517.2  | 505.7  |
| 37.5° | 711.7  | 661.0  | 611.0  | 579.3  | 553.7  | 534.1  | 507.1  | 486.1  | 460.5  | 444.3  | 430.8  |
| 40°   | 620.5  | 566.5  | 519.2  | 492.2  | 472.0  | 449.7  | 427.4  | 411.2  | 393.0  | 376.8  | 366.6  |
| 42.5° | 543.5  | 492.9  | 452.4  | 429.4  | 405.1  | 380.8  | 363.9  | 350.4  | 338.9  | 326.8  | 314.6  |
| 45°   | 472.6  | 424.0  | 390.3  | 361.9  | 341.6  | 322.1  | 310.6  | 304.5  | 297.8  | 290.3  | 282.2  |
| 47.5° | 413.2  | 371.4  | 338.3  | 311.9  | 291.0  | 277.5  | 272.1  | 270.1  | 267.4  | 261.3  | 257.2  |
| 50°   | 368.0  | 333.5  | 299.8  | 276.2  | 258.6  | 251.8  | 245.8  | 243.7  | 240.4  | 238.3  | 235.6  |
| 52.5° | 330.2  | 293.7  | 265.4  | 243.7  | 232.9  | 230.2  | 227.5  | 224.8  | 224.2  | 222.8  | 221.5  |
| 55°   | 299.1  | 267.4  | 241.0  | 224.8  | 219.4  | 217.4  | 216.7  | 214.0  | 213.4  | 213.4  | 211.3  |
| 57.5° | 271.4  | 244.4  | 220.8  | 210.7  | 207.3  | 205.3  | 203.9  | 202.6  | 202.6  | 203.9  | 203.2  |
| 60°   | 243.1  | 220.1  | 205.9  | 200.5  | 198.5  | 195.1  | 191.8  | 190.4  | 191.1  | 194.5  | 194.5  |
| 62.5° | 215.4  | 198.5  | 189.7  | 187.7  | 185.7  | 183.0  | 178.9  | 177.6  | 178.9  | 183.0  | 185.0  |
| 65°   | 185.0  | 177.6  | 174.9  | 173.5  | 172.2  | 170.1  | 167.4  | 166.1  | 166.8  | 168.8  | 171.5  |
| 67.5° | 157.3  | 156.6  | 156.6  | 157.3  | 156.6  | 156.0  | 154.6  | 152.6  | 151.9  | 151.9  | 153.3  |
| 70°   | 140.4  | 140.4  | 142.5  | 142.5  | 141.8  | 141.8  | 139.8  | 137.7  | 136.4  | 135.0  | 135.7  |
| 72.5° | 127.6  | 127.6  | 128.3  | 129.0  | 128.3  | 128.3  | 125.6  | 124.2  | 120.9  | 120.2  | 118.8  |
| 75°   | 116.8  | 115.5  | 115.5  | 114.8  | 114.1  | 114.8  | 112.1  | 108.7  | 107.4  | 106.7  | 105.3  |
| 77.5° | 106.0  | 103.3  | 102.0  | 100.6  | 101.3  | 100.6  | 98.6   | 96.6   | 94.5   | 93.9   | 93.2   |
| 80°   | 93.9   | 89.8   | 87.8   | 84.4   | 86.4   | 87.1   | 85.7   | 83.7   | 83.0   | 82.4   | 81.7   |
| 82.5° | 77.6   | 73.6   | 70.9   | 68.9   | 67.5   | 68.9   | 70.9   | 75.6   | 74.3   | 73.6   | 72.2   |
| 85°   | 60.8   | 54.0   | 50.6   | 51.3   | 47.9   | 48.6   | 54.7   | 57.4   | 57.4   | 58.7   | 57.4   |
| 87.5° | 34.4   | 33.1   | 25.0   | 23.0   | 24.3   | 29.0   | 32.4   | 35.8   | 35.8   | 33.8   | 37.8   |
| 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):**

|       | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 |
| 2.5°  | 1091.1 | 1092.5 | 1093.1 | 1095.8 | 1097.2 | 1097.9 | 1098.5 | 1099.9 | 1100.6 | 1099.9 | 1103.3 |
| 5°    | 1096.5 | 1096.5 | 1095.2 | 1097.2 | 1097.9 | 1097.9 | 1096.5 | 1097.9 | 1097.9 | 1097.9 | 1101.2 |
| 7.5°  | 1110.7 | 1106.6 | 1104.6 | 1101.9 | 1099.9 | 1097.2 | 1093.8 | 1093.8 | 1093.1 | 1093.8 | 1095.8 |
| 10°   | 1125.5 | 1119.5 | 1112.0 | 1105.3 | 1099.2 | 1094.5 | 1088.4 | 1086.4 | 1085.7 | 1085.0 | 1090.4 |
| 12.5° | 1137.0 | 1126.2 | 1114.7 | 1103.3 | 1091.1 | 1083.0 | 1072.9 | 1066.8 | 1066.1 | 1066.1 | 1072.9 |
| 15°   | 1128.9 | 1111.4 | 1089.1 | 1068.8 | 1058.0 | 1046.5 | 1035.1 | 1027.6 | 1027.0 | 1028.3 | 1032.4 |
| 17.5° | 1088.4 | 1060.1 | 1040.5 | 1020.9 | 1006.7 | 997.3  | 989.8  | 988.5  | 991.2  | 988.5  | 993.9  |
| 20°   | 1019.5 | 989.2  | 975.7  | 960.1  | 954.7  | 948.0  | 937.2  | 927.7  | 927.7  | 915.6  | 918.9  |
| 22.5° | 930.4  | 913.5  | 896.0  | 883.8  | 879.8  | 868.3  | 856.8  | 844.0  | 842.6  | 827.8  | 825.8  |
| 25°   | 837.2  | 820.4  | 806.2  | 803.5  | 791.3  | 775.8  | 765.0  | 750.1  | 746.8  | 731.9  | 729.9  |
| 27.5° | 742.0  | 728.5  | 714.4  | 706.3  | 699.5  | 682.6  | 673.2  | 655.6  | 648.9  | 632.7  | 630.6  |
| 30°   | 651.6  | 642.1  | 625.2  | 618.5  | 605.6  | 586.1  | 565.8  | 555.0  | 549.6  | 532.7  | 527.3  |
| 32.5° | 566.5  | 551.6  | 538.8  | 530.7  | 514.5  | 492.2  | 474.0  | 458.5  | 448.3  | 428.1  | 422.7  |
| 35°   | 485.5  | 470.6  | 464.5  | 443.6  | 429.4  | 414.6  | 389.6  | 380.1  | 361.9  | 346.4  | 341.0  |
| 37.5° | 413.9  | 399.7  | 391.6  | 374.1  | 359.9  | 345.0  | 330.2  | 318.0  | 309.2  | 305.9  | 305.9  |
| 40°   | 352.5  | 345.0  | 334.9  | 322.1  | 312.6  | 301.8  | 293.7  | 289.7  | 289.0  | 290.3  | 293.7  |
| 42.5° | 308.6  | 300.5  | 293.7  | 287.0  | 280.2  | 278.9  | 276.8  | 279.5  | 282.9  | 286.3  | 289.7  |
| 45°   | 275.5  | 268.7  | 264.7  | 262.0  | 261.3  | 263.3  | 267.4  | 271.4  | 277.5  | 281.6  | 284.3  |
| 47.5° | 251.8  | 246.4  | 245.1  | 244.4  | 247.8  | 253.9  | 259.3  | 265.4  | 270.1  | 274.1  | 276.8  |
| 50°   | 231.6  | 226.9  | 226.2  | 225.5  | 230.2  | 235.6  | 240.4  | 248.5  | 251.8  | 254.5  | 256.6  |
| 52.5° | 217.4  | 213.4  | 211.3  | 212.0  | 216.7  | 221.5  | 228.2  | 234.3  | 239.0  | 241.0  | 243.1  |
| 55°   | 205.9  | 204.6  | 199.9  | 201.9  | 206.6  | 212.7  | 219.4  | 226.2  | 230.9  | 234.3  | 237.7  |
| 57.5° | 197.2  | 193.8  | 190.4  | 193.8  | 198.5  | 204.6  | 212.7  | 218.8  | 224.8  | 229.6  | 232.9  |
| 60°   | 187.7  | 185.0  | 182.3  | 185.7  | 190.4  | 196.5  | 202.6  | 210.7  | 218.1  | 222.8  | 226.2  |
| 62.5° | 179.6  | 177.6  | 174.9  | 175.6  | 177.6  | 181.6  | 185.0  | 192.4  | 199.2  | 205.3  | 209.3  |
| 65°   | 168.1  | 167.4  | 163.4  | 164.1  | 165.4  | 169.5  | 172.2  | 178.9  | 185.7  | 191.1  | 194.5  |
| 67.5° | 151.2  | 149.9  | 149.9  | 151.9  | 152.6  | 154.6  | 156.6  | 163.4  | 168.8  | 172.8  | 176.9  |
| 70°   | 134.4  | 133.7  | 133.7  | 135.0  | 134.4  | 136.4  | 139.1  | 145.2  | 151.9  | 156.0  | 160.0  |
| 72.5° | 118.2  | 118.2  | 117.5  | 118.8  | 118.8  | 119.5  | 122.9  | 128.3  | 134.4  | 137.7  | 140.4  |
| 75°   | 104.0  | 103.3  | 103.3  | 103.3  | 104.0  | 104.0  | 107.4  | 112.1  | 118.2  | 120.2  | 124.2  |
| 77.5° | 91.2   | 91.2   | 91.2   | 91.2   | 91.8   | 91.2   | 93.2   | 96.6   | 98.6   | 102.0  | 102.0  |
| 80°   | 80.3   | 79.7   | 80.3   | 81.0   | 81.0   | 80.3   | 80.3   | 81.0   | 81.7   | 81.7   | 81.7   |
| 82.5° | 70.9   | 68.9   | 70.2   | 73.6   | 73.6   | 73.6   | 72.9   | 68.2   | 64.8   | 64.8   | 66.2   |
| 85°   | 56.7   | 56.7   | 57.4   | 62.1   | 62.8   | 60.1   | 62.8   | 56.0   | 49.3   | 47.3   | 48.6   |
| 87.5° | 35.1   | 27.7   | 33.8   | 38.5   | 38.5   | 36.5   | 40.5   | 37.8   | 31.7   | 25.7   | 24.3   |
| 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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REPORT N  
CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|       | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |       |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 0°    |
| 2.5°  | 1106.0 | 1106.6 | 1110.7 | 1112.7 | 1112.7 | 1115.4 | 1116.8 | 1120.8 | 1120.1 | 1120.1 | 1121.5 | 2.5°  |
| 5°    | 1104.6 | 1106.6 | 1110.7 | 1113.4 | 1114.7 | 1118.1 | 1120.8 | 1125.5 | 1124.9 | 1126.2 | 1126.9 | 5°    |
| 7.5°  | 1099.9 | 1105.3 | 1109.3 | 1114.7 | 1119.5 | 1122.2 | 1125.5 | 1129.6 | 1128.2 | 1128.9 | 1128.2 | 7.5°  |
| 10°   | 1095.8 | 1101.2 | 1109.3 | 1116.8 | 1123.5 | 1127.6 | 1129.6 | 1134.3 | 1133.6 | 1135.0 | 1135.0 | 10°   |
| 12.5° | 1079.6 | 1089.1 | 1099.2 | 1110.7 | 1120.8 | 1131.6 | 1138.4 | 1148.5 | 1153.2 | 1159.3 | 1166.1 | 12.5° |
| 15°   | 1038.4 | 1049.2 | 1065.5 | 1078.3 | 1097.9 | 1112.7 | 1132.3 | 1151.9 | 1169.4 | 1186.3 | 1205.9 | 15°   |
| 17.5° | 997.9  | 1002.7 | 1015.5 | 1033.0 | 1050.6 | 1072.9 | 1096.5 | 1131.6 | 1163.4 | 1197.8 | 1235.6 | 17.5° |
| 20°   | 923.0  | 931.1  | 939.9  | 960.8  | 981.7  | 1013.5 | 1042.5 | 1088.4 | 1135.0 | 1189.0 | 1247.1 | 20°   |
| 22.5° | 830.5  | 838.6  | 848.0  | 871.7  | 897.3  | 929.7  | 964.9  | 1016.2 | 1078.3 | 1148.5 | 1226.2 | 22.5° |
| 25°   | 730.6  | 735.3  | 742.7  | 766.3  | 781.9  | 824.4  | 866.9  | 920.3  | 987.8  | 1078.3 | 1168.8 | 25°   |
| 27.5° | 620.5  | 629.3  | 635.4  | 646.2  | 681.9  | 718.4  | 763.0  | 820.4  | 902.1  | 994.6  | 1103.9 | 27.5° |
| 30°   | 515.2  | 522.6  | 519.2  | 542.2  | 565.8  | 604.3  | 652.2  | 715.7  | 794.0  | 904.1  | 1030.3 | 30°   |
| 32.5° | 411.9  | 417.3  | 415.2  | 431.4  | 455.1  | 493.6  | 538.8  | 607.7  | 690.7  | 808.2  | 945.3  | 32.5° |
| 35°   | 339.6  | 341.0  | 348.4  | 355.8  | 376.1  | 407.1  | 445.6  | 505.7  | 590.8  | 698.8  | 844.0  | 35°   |
| 37.5° | 305.9  | 308.6  | 313.3  | 323.4  | 338.3  | 360.6  | 392.3  | 438.9  | 511.8  | 607.0  | 736.6  | 37.5° |
| 40°   | 295.7  | 297.8  | 300.5  | 307.2  | 321.4  | 341.0  | 369.3  | 408.5  | 461.8  | 542.2  | 647.5  | 40°   |
| 42.5° | 291.0  | 291.0  | 291.0  | 295.1  | 305.9  | 326.8  | 359.2  | 397.7  | 444.3  | 505.0  | 590.1  | 42.5° |
| 45°   | 284.3  | 284.3  | 283.6  | 285.6  | 293.0  | 314.0  | 349.1  | 392.3  | 442.3  | 500.3  | 573.9  | 45°   |
| 47.5° | 276.8  | 276.2  | 274.1  | 274.1  | 278.9  | 299.8  | 336.2  | 382.8  | 437.5  | 504.4  | 583.4  | 47.5° |
| 50°   | 256.6  | 256.6  | 256.6  | 258.6  | 262.6  | 281.6  | 320.7  | 370.0  | 432.8  | 507.1  | 598.2  | 50°   |
| 52.5° | 245.1  | 245.8  | 247.8  | 247.8  | 251.8  | 271.4  | 312.6  | 367.3  | 435.5  | 517.2  | 617.1  | 52.5° |
| 55°   | 239.7  | 241.7  | 243.7  | 243.7  | 247.1  | 267.4  | 309.9  | 369.3  | 445.6  | 538.1  | 649.5  | 55°   |
| 57.5° | 235.0  | 237.0  | 238.3  | 238.3  | 241.0  | 258.6  | 302.5  | 366.0  | 451.7  | 558.4  | 689.4  | 57.5° |
| 60°   | 226.2  | 227.5  | 228.2  | 228.2  | 228.9  | 243.7  | 285.6  | 349.7  | 438.2  | 557.0  | 711.0  | 60°   |
| 62.5° | 210.0  | 212.7  | 213.4  | 214.0  | 214.0  | 228.2  | 264.0  | 323.4  | 409.2  | 536.8  | 704.9  | 62.5° |
| 65°   | 197.8  | 199.2  | 201.2  | 202.6  | 205.3  | 214.7  | 243.1  | 291.7  | 371.4  | 496.3  | 671.1  | 65°   |
| 67.5° | 178.9  | 181.0  | 183.0  | 185.7  | 188.4  | 194.5  | 216.7  | 255.9  | 320.0  | 427.4  | 595.5  | 67.5° |
| 70°   | 162.0  | 162.7  | 164.7  | 168.1  | 168.8  | 172.2  | 188.4  | 215.4  | 262.0  | 343.0  | 479.4  | 70°   |
| 72.5° | 141.1  | 142.5  | 145.2  | 149.2  | 149.2  | 151.9  | 161.4  | 175.6  | 205.3  | 262.0  | 353.8  | 72.5° |
| 75°   | 122.9  | 124.2  | 126.3  | 126.3  | 122.9  | 123.6  | 130.3  | 140.4  | 162.7  | 197.2  | 257.9  | 75°   |
| 77.5° | 102.0  | 104.7  | 106.7  | 102.6  | 101.3  | 103.3  | 106.7  | 114.1  | 130.3  | 156.6  | 193.8  | 77.5° |
| 80°   | 84.4   | 85.7   | 86.4   | 87.1   | 85.7   | 87.8   | 90.5   | 95.2   | 106.0  | 126.3  | 153.3  | 80°   |
| 82.5° | 67.5   | 68.9   | 70.9   | 73.6   | 73.6   | 81.0   | 81.7   | 81.7   | 87.8   | 100.6  | 120.2  | 82.5° |
| 85°   | 50.0   | 52.7   | 55.4   | 58.7   | 59.4   | 63.5   | 61.4   | 60.8   | 62.8   | 74.9   | 83.0   | 85°   |
| 87.5° | 25.7   | 27.7   | 29.0   | 31.7   | 28.4   | 29.7   | 29.7   | 27.7   | 24.3   | 30.4   | 33.8   | 87.5° |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 90°   |



NUMBER: P158878

NUMBER: VST-E04-LED-E-U-SLL-8030

**DISTRIBUTION (continued):**

| 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|
| 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 | 1128.2 |
| 1122.8 | 1121.5 | 1122.8 | 1122.8 | 1124.9 | 1123.5 | 1195.1 |
| 1128.2 | 1126.9 | 1128.2 | 1129.6 | 1131.6 | 1131.6 | 1210.6 |
| 1128.9 | 1128.9 | 1127.6 | 1130.9 | 1133.6 | 1136.3 | 1225.5 |
| 1137.0 | 1137.0 | 1138.4 | 1139.1 | 1145.1 | 1151.9 | 1249.8 |
| 1170.1 | 1173.5 | 1179.6 | 1181.6 | 1192.4 | 1199.8 | 1311.9 |
| 1220.7 | 1239.7 | 1251.8 | 1255.9 | 1265.3 | 1279.5 | 1416.6 |
| 1272.1 | 1303.8 | 1336.9 | 1357.1 | 1369.3 | 1386.2 | 1544.8 |
| 1310.5 | 1370.0 | 1426.7 | 1477.3 | 1506.4 | 1539.4 | 1724.4 |
| 1313.9 | 1408.5 | 1504.3 | 1598.2 | 1675.8 | 1737.3 | 1967.5 |
| 1281.5 | 1405.8 | 1538.1 | 1681.9 | 1815.6 | 1926.3 | 2247.0 |
| 1240.3 | 1392.9 | 1561.7 | 1745.4 | 1920.9 | 2084.3 | 2453.0 |
| 1188.3 | 1371.3 | 1565.8 | 1772.4 | 1978.3 | 2174.8 | 2570.5 |
| 1109.3 | 1307.2 | 1517.2 | 1745.4 | 1984.4 | 2223.4 | 2646.1 |
| 1008.1 | 1209.9 | 1425.3 | 1685.3 | 1956.0 | 2243.0 | 2709.5 |
| 904.8  | 1103.9 | 1335.5 | 1604.9 | 1910.8 | 2239.6 | 2735.2 |
| 795.4  | 993.2  | 1230.2 | 1519.2 | 1849.4 | 2208.6 | 2730.5 |
| 721.1  | 901.4  | 1133.6 | 1432.1 | 1781.2 | 2167.4 | 2698.7 |
| 677.9  | 835.9  | 1057.4 | 1352.4 | 1719.0 | 2118.1 | 2658.9 |
| 677.2  | 816.3  | 1016.8 | 1295.7 | 1656.2 | 2063.4 | 2604.9 |
| 700.9  | 828.5  | 1012.1 | 1271.4 | 1621.8 | 2023.6 | 2546.2 |
| 728.5  | 862.2  | 1037.1 | 1280.2 | 1621.1 | 2006.0 | 2505.0 |
| 772.4  | 919.6  | 1091.8 | 1318.0 | 1638.7 | 2003.3 | 2454.3 |
| 828.5  | 997.3  | 1190.4 | 1411.2 | 1706.9 | 2056.6 | 2457.7 |
| 885.9  | 1088.4 | 1319.3 | 1570.5 | 1841.3 | 2180.9 | 2564.4 |
| 906.8  | 1158.6 | 1450.3 | 1757.5 | 2042.5 | 2367.2 | 2784.5 |
| 888.6  | 1174.8 | 1530.0 | 1902.7 | 2238.3 | 2585.3 | 3047.1 |
| 821.0  | 1109.3 | 1497.6 | 1943.9 | 2351.0 | 2739.9 | 3309.8 |
| 675.9  | 946.6  | 1350.4 | 1851.4 | 2342.2 | 2771.7 | 3404.3 |
| 495.6  | 733.9  | 1097.9 | 1573.2 | 2082.3 | 2573.2 | 3262.5 |
| 357.9  | 519.2  | 792.7  | 1185.0 | 1646.1 | 2072.2 | 2736.6 |
| 256.6  | 359.9  | 514.5  | 778.5  | 1121.5 | 1442.9 | 1950.6 |
| 184.3  | 244.4  | 320.7  | 467.2  | 683.3  | 885.9  | 1225.5 |
| 135.7  | 167.4  | 210.7  | 290.3  | 402.4  | 515.8  | 738.0  |
| 92.5   | 98.6   | 126.9  | 171.5  | 264.0  | 379.5  | 501.0  |
| 35.1   | 39.8   | 46.6   | 70.2   | 118.2  | 135.7  | 95.9   |
| 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)