

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: P158214

Luminaire Tested: **VST-F03-LED-E-U-SL2-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158214  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-F03-LED-E-U-SL2-7030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6805.8 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3  
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: 28.75 FT



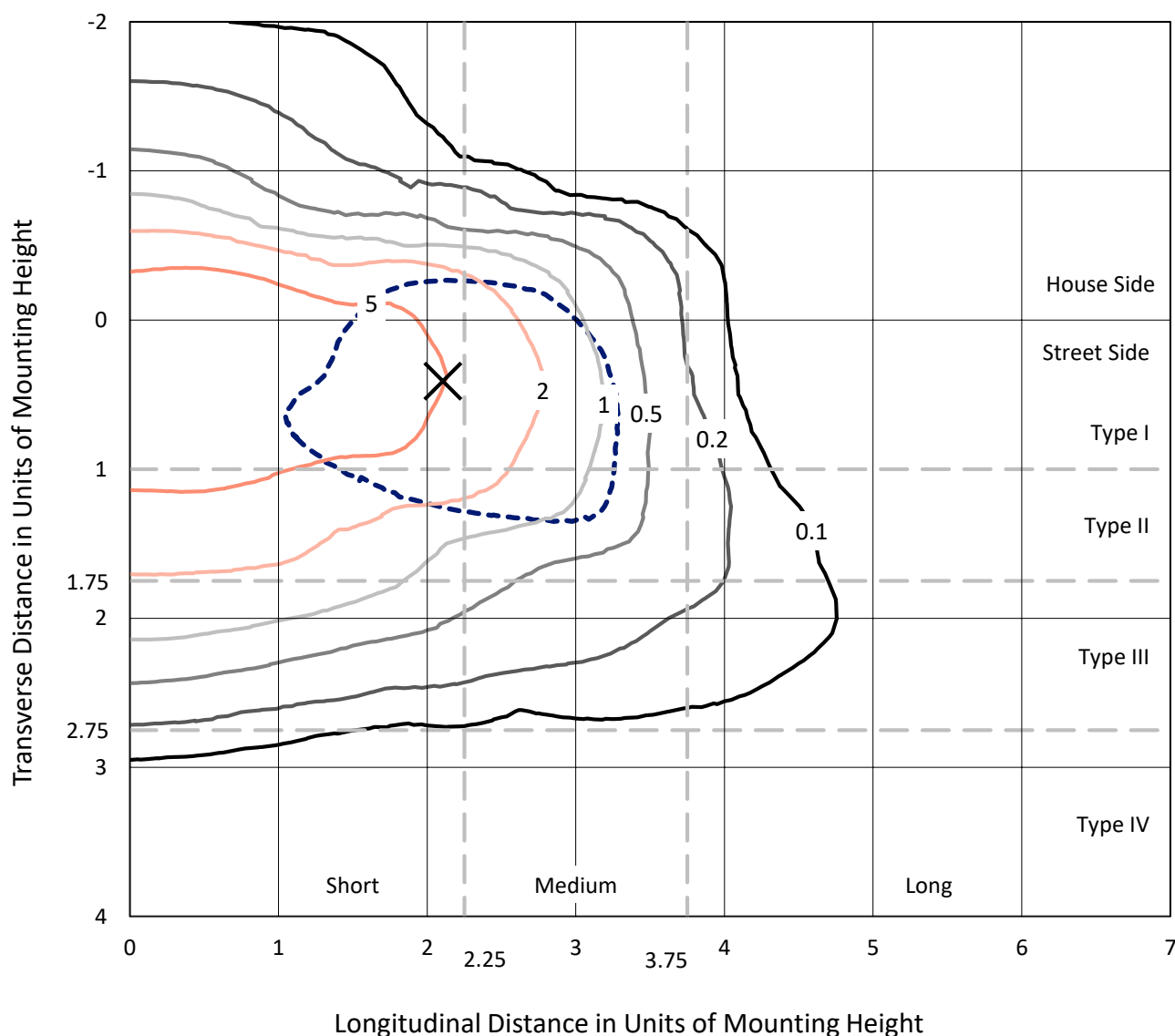
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

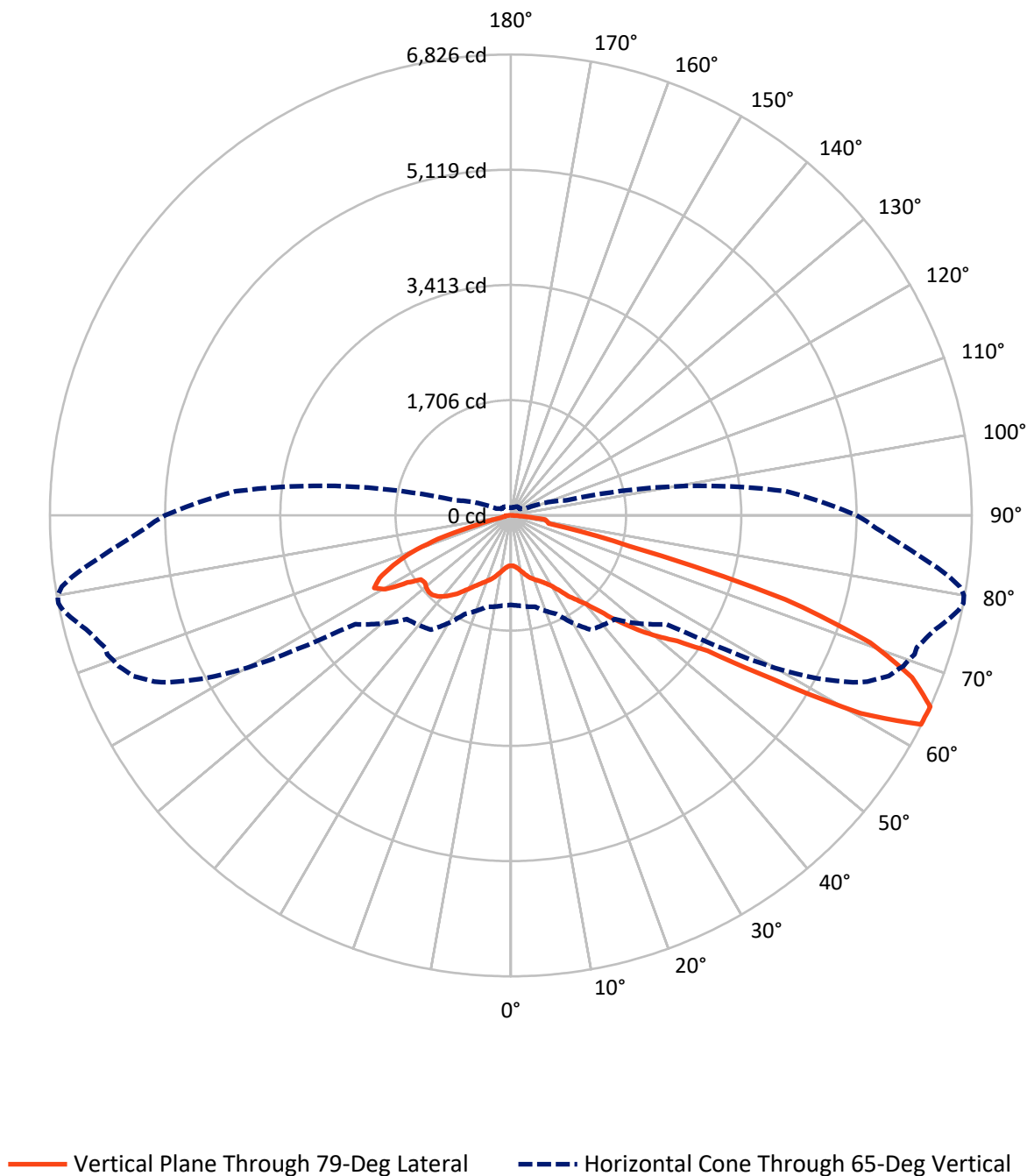


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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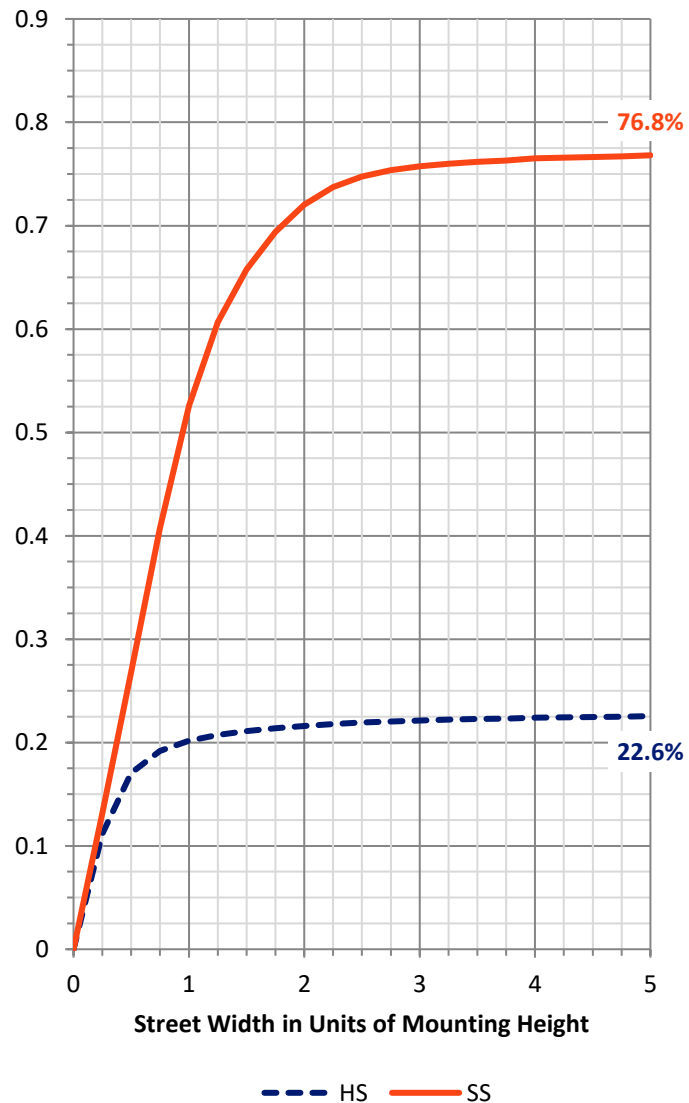
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1563.9   | 0.0    | 1563.9 |
|                    | % Fixture | 23.0     | 0.0    | 23.0   |
| <b>Street Side</b> | Lumens    | 5241.9   | 0.0    | 5241.9 |
|                    | % Fixture | 77.0     | 0.0    | 77.0   |
| <b>Total</b>       | Lumens    | 6805.8   | 0.0    | 6805.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.7   | 1.1       |
| 10°-20°   | 239.3  | 3.5       |
| 20°-30°   | 412.5  | 6.1       |
| 30°-40°   | 675.7  | 9.9       |
| 40°-50°   | 1131.5 | 16.6      |
| 50°-60°   | 1530.5 | 22.5      |
| 60°-70°   | 1884.8 | 27.7      |
| 70°-80°   | 729.6  | 10.7      |
| 80°-90°   | 128.3  | 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°    | 6805.8 | 100.0     |
| 0°-180°   | 6805.8 | 100.0     |

**Coefficient of Utilization**



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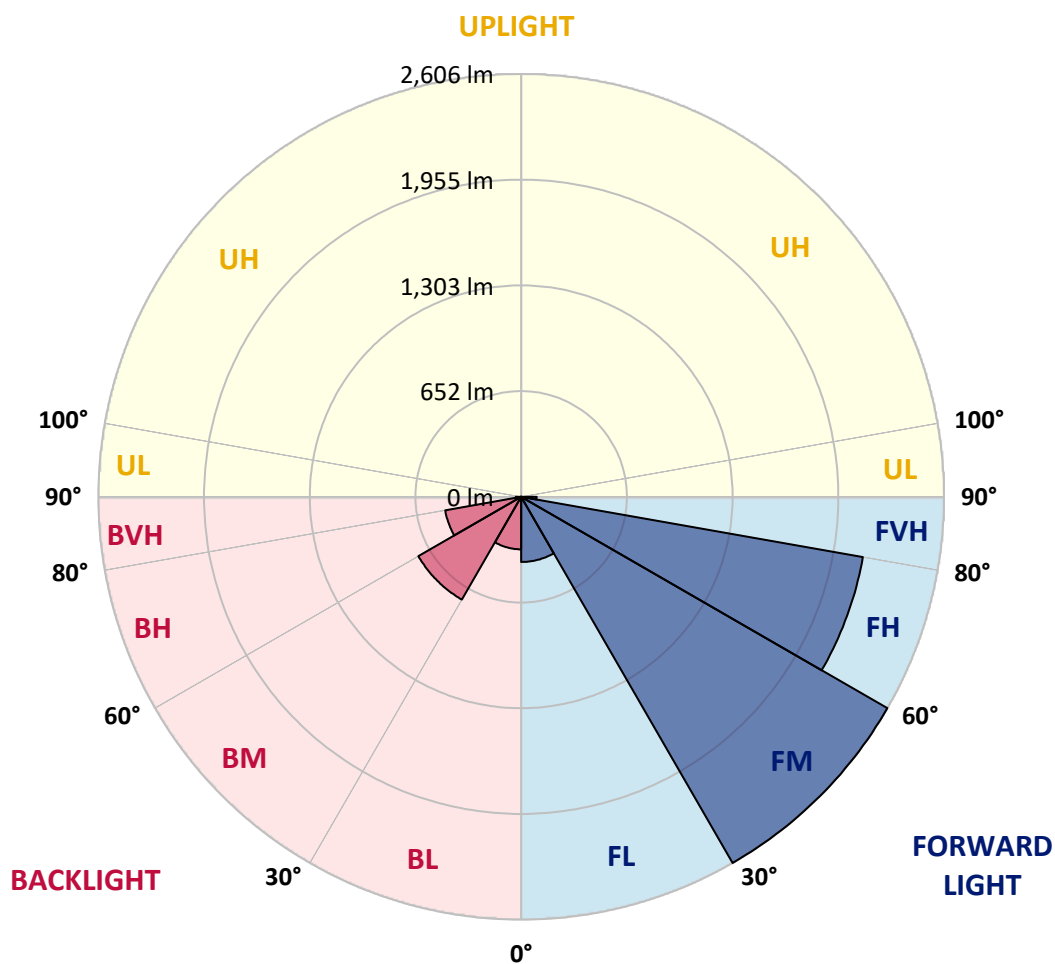
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 401.8  | 5.9       |                         |      |         |
| FM   | (30°-60°)   | 2606.3 | 38.3      |                         |      |         |
| FH   | (60°-80°)   | 2138.6 | 31.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 95.2   | 1.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 323.6  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 731.3  | 10.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 475.8  | 7.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 33.1   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 57°    | 58°    | 59°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  |
| 2.5°  | 746.0  | 743.8  | 746.0  | 747.8  | 749.2  | 751.0  | 750.5  | 750.1  | 749.6  | 750.1  | 750.1  |
| 5°    | 752.3  | 751.9  | 754.1  | 755.9  | 759.1  | 761.4  | 764.1  | 764.1  | 764.1  | 763.6  | 764.5  |
| 7.5°  | 772.7  | 772.3  | 774.5  | 776.3  | 779.0  | 783.5  | 787.1  | 789.0  | 788.5  | 788.5  | 788.5  |
| 10°   | 806.2  | 804.4  | 804.4  | 804.4  | 808.0  | 811.1  | 819.3  | 820.2  | 822.0  | 821.1  | 821.6  |
| 12.5° | 838.7  | 839.2  | 837.8  | 836.5  | 836.9  | 843.2  | 855.0  | 857.3  | 857.8  | 859.1  | 860.0  |
| 15°   | 868.1  | 867.7  | 864.5  | 861.4  | 865.4  | 876.3  | 891.7  | 895.7  | 895.7  | 898.4  | 900.2  |
| 17.5° | 895.3  | 894.4  | 888.5  | 883.1  | 887.2  | 905.7  | 929.7  | 932.4  | 936.5  | 937.8  | 939.6  |
| 20°   | 927.4  | 925.6  | 918.8  | 904.3  | 904.3  | 929.7  | 961.3  | 964.1  | 967.7  | 968.6  | 971.8  |
| 22.5° | 972.2  | 967.7  | 953.2  | 926.9  | 919.7  | 949.1  | 988.0  | 989.4  | 992.1  | 995.7  | 998.5  |
| 25°   | 1022.9 | 1023.8 | 1000.3 | 954.5  | 938.7  | 969.5  | 1013.8 | 1016.1 | 1021.1 | 1023.8 | 1027.0 |
| 27.5° | 1075.3 | 1076.7 | 1050.5 | 993.5  | 966.8  | 997.6  | 1048.7 | 1051.4 | 1057.3 | 1060.4 | 1065.4 |
| 30°   | 1135.1 | 1136.9 | 1111.6 | 1054.1 | 1013.3 | 1038.7 | 1100.2 | 1107.5 | 1112.5 | 1116.5 | 1124.6 |
| 32.5° | 1278.5 | 1267.6 | 1250.0 | 1188.9 | 1124.6 | 1122.8 | 1183.4 | 1191.6 | 1198.4 | 1207.0 | 1214.7 |
| 35°   | 1459.0 | 1465.7 | 1474.8 | 1433.6 | 1377.1 | 1335.9 | 1340.9 | 1336.4 | 1342.7 | 1355.4 | 1363.1 |
| 37.5° | 1601.9 | 1616.9 | 1656.2 | 1682.9 | 1680.7 | 1672.5 | 1596.5 | 1596.5 | 1600.6 | 1593.8 | 1592.9 |
| 40°   | 1714.1 | 1723.6 | 1804.1 | 1907.8 | 1995.1 | 2038.0 | 1977.9 | 1969.3 | 1973.8 | 1939.0 | 1940.3 |
| 42.5° | 1772.0 | 1786.1 | 1901.9 | 2083.7 | 2257.0 | 2395.0 | 2376.4 | 2370.5 | 2357.0 | 2348.4 | 2342.9 |
| 45°   | 1801.4 | 1818.2 | 1956.2 | 2205.9 | 2458.3 | 2671.4 | 2767.3 | 2766.4 | 2754.2 | 2744.2 | 2739.7 |
| 47.5° | 1786.5 | 1801.0 | 1948.0 | 2243.0 | 2564.2 | 2849.6 | 3061.8 | 3074.9 | 3071.3 | 3085.8 | 3091.7 |
| 50°   | 1688.8 | 1707.4 | 1854.8 | 2162.9 | 2519.8 | 2919.8 | 3265.9 | 3290.3 | 3323.3 | 3344.1 | 3371.7 |
| 52.5° | 1600.6 | 1616.0 | 1748.9 | 2033.0 | 2374.2 | 2862.8 | 3388.9 | 3439.1 | 3484.4 | 3526.9 | 3559.9 |
| 55°   | 1508.3 | 1523.7 | 1640.4 | 1898.3 | 2227.1 | 2694.5 | 3445.0 | 3518.3 | 3588.8 | 3660.8 | 3726.8 |
| 57.5° | 1473.5 | 1489.7 | 1576.6 | 1793.8 | 2106.8 | 2527.6 | 3472.6 | 3592.9 | 3707.8 | 3830.0 | 3956.6 |
| 60°   | 1564.0 | 1578.4 | 1644.5 | 1796.5 | 2015.0 | 2360.6 | 3416.9 | 3606.1 | 3803.8 | 4005.1 | 4199.6 |
| 62.5° | 1536.4 | 1544.0 | 1626.4 | 1862.0 | 2132.2 | 2195.9 | 3175.8 | 3425.5 | 3712.8 | 4007.8 | 4305.9 |
| 65°   | 1325.5 | 1340.5 | 1402.4 | 1609.6 | 2066.5 | 2173.7 | 2808.5 | 3059.6 | 3398.4 | 3747.2 | 4146.7 |
| 67.5° | 950.9  | 930.1  | 978.1  | 1159.5 | 1603.3 | 2170.1 | 2395.0 | 2580.9 | 2846.5 | 3113.8 | 3441.4 |
| 70°   | 432.1  | 422.1  | 459.7  | 603.1  | 967.2  | 1715.0 | 2024.9 | 2087.8 | 2186.5 | 2366.5 | 2587.7 |
| 72.5° | 170.6  | 170.1  | 194.5  | 249.3  | 457.4  | 1103.8 | 1702.8 | 1739.0 | 1773.8 | 1852.1 | 1947.5 |
| 75°   | 111.7  | 111.7  | 119.0  | 134.3  | 225.3  | 532.9  | 1440.4 | 1473.5 | 1526.8 | 1549.0 | 1589.7 |
| 77.5° | 84.1   | 84.6   | 87.8   | 91.4   | 124.4  | 280.5  | 1016.5 | 1133.7 | 1224.2 | 1291.6 | 1340.9 |
| 80°   | 59.7   | 62.5   | 68.3   | 70.6   | 81.0   | 159.7  | 574.6  | 659.2  | 761.4  | 870.4  | 1007.5 |
| 82.5° | 44.8   | 47.9   | 57.9   | 60.6   | 64.3   | 91.0   | 259.2  | 294.1  | 343.4  | 445.1  | 640.1  |
| 85°   | 20.8   | 23.1   | 39.8   | 43.4   | 46.6   | 52.5   | 131.6  | 147.0  | 166.9  | 182.8  | 213.1  |
| 87.5° | 3.2    | 2.3    | 6.8    | 9.5    | 14.9   | 15.4   | 45.2   | 53.8   | 58.4   | 70.1   | 72.8   |
| 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):**

|       | 60°    | 61°    | 62°    | 64°    | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  |
| 2.5°  | 750.1  | 750.5  | 751.0  | 750.1  | 750.5  | 750.5  | 749.6  | 749.2  | 749.2  | 749.2  | 749.6  |
| 5°    | 764.5  | 765.5  | 764.5  | 765.0  | 766.8  | 766.4  | 765.5  | 765.0  | 766.8  | 767.3  | 765.9  |
| 7.5°  | 790.3  | 790.8  | 789.0  | 791.2  | 792.1  | 792.6  | 792.6  | 793.5  | 793.5  | 794.9  | 793.5  |
| 10°   | 823.4  | 823.4  | 826.5  | 826.1  | 826.5  | 827.5  | 827.9  | 829.7  | 831.1  | 831.1  | 832.0  |
| 12.5° | 861.4  | 861.8  | 865.0  | 865.4  | 867.2  | 867.7  | 870.4  | 868.6  | 873.1  | 873.1  | 874.5  |
| 15°   | 900.7  | 903.9  | 904.3  | 908.9  | 909.8  | 910.2  | 913.9  | 913.9  | 917.0  | 917.5  | 918.4  |
| 17.5° | 939.6  | 942.4  | 944.2  | 947.8  | 950.9  | 952.3  | 953.6  | 956.3  | 958.6  | 959.5  | 961.8  |
| 20°   | 973.1  | 975.8  | 977.6  | 981.2  | 983.9  | 986.2  | 987.6  | 990.7  | 993.0  | 993.9  | 997.1  |
| 22.5° | 1001.2 | 1003.0 | 1006.1 | 1011.1 | 1012.0 | 1014.7 | 1018.8 | 1021.1 | 1022.0 | 1024.7 | 1028.3 |
| 25°   | 1031.0 | 1033.7 | 1035.5 | 1040.0 | 1043.7 | 1048.2 | 1051.8 | 1055.5 | 1056.4 | 1060.0 | 1063.1 |
| 27.5° | 1070.8 | 1073.5 | 1074.0 | 1083.1 | 1086.7 | 1093.0 | 1097.0 | 1102.5 | 1105.2 | 1108.4 | 1114.7 |
| 30°   | 1129.6 | 1136.0 | 1138.7 | 1149.1 | 1150.9 | 1158.1 | 1165.4 | 1167.2 | 1171.3 | 1171.7 | 1182.1 |
| 32.5° | 1219.7 | 1228.7 | 1232.3 | 1243.2 | 1245.9 | 1252.7 | 1256.8 | 1266.2 | 1266.7 | 1271.2 | 1273.5 |
| 35°   | 1367.2 | 1364.9 | 1378.9 | 1381.6 | 1389.8 | 1395.7 | 1399.7 | 1399.7 | 1408.3 | 1408.7 | 1411.5 |
| 37.5° | 1568.5 | 1564.0 | 1567.6 | 1551.2 | 1555.3 | 1548.1 | 1546.7 | 1548.5 | 1544.9 | 1545.8 | 1545.4 |
| 40°   | 1890.5 | 1870.2 | 1849.0 | 1798.7 | 1787.9 | 1767.1 | 1750.8 | 1737.7 | 1725.0 | 1711.4 | 1702.4 |
| 42.5° | 2294.6 | 2265.1 | 2233.5 | 2153.0 | 2115.4 | 2075.2 | 2035.8 | 2013.2 | 1967.9 | 1940.3 | 1925.4 |
| 45°   | 2718.0 | 2683.6 | 2639.3 | 2572.3 | 2518.9 | 2476.0 | 2404.0 | 2370.1 | 2300.0 | 2265.1 | 2218.1 |
| 47.5° | 3065.0 | 3065.5 | 3029.7 | 2961.8 | 2904.8 | 2876.3 | 2831.5 | 2765.9 | 2686.3 | 2641.6 | 2557.9 |
| 50°   | 3368.5 | 3368.1 | 3365.8 | 3325.1 | 3285.3 | 3254.1 | 3214.7 | 3155.5 | 3090.3 | 3039.7 | 2943.7 |
| 52.5° | 3592.9 | 3622.8 | 3635.5 | 3635.0 | 3630.0 | 3615.5 | 3585.7 | 3534.6 | 3468.5 | 3440.0 | 3363.5 |
| 55°   | 3778.4 | 3843.5 | 3877.5 | 3951.7 | 3958.4 | 3982.4 | 3956.2 | 3956.6 | 3917.8 | 3920.5 | 3896.0 |
| 57.5° | 4059.4 | 4178.3 | 4246.6 | 4410.8 | 4493.2 | 4592.7 | 4575.1 | 4658.3 | 4688.6 | 4727.1 | 4778.2 |
| 60°   | 4378.3 | 4600.4 | 4762.4 | 5089.0 | 5222.0 | 5383.1 | 5471.8 | 5566.3 | 5635.0 | 5705.6 | 5757.7 |
| 62.5° | 4606.3 | 4898.1 | 5164.1 | 5629.6 | 5802.4 | 5972.1 | 6083.8 | 6198.3 | 6275.6 | 6326.3 | 6363.8 |
| 65°   | 4513.1 | 4835.6 | 5150.1 | 5638.2 | 5826.4 | 5949.5 | 6082.4 | 6148.5 | 6225.9 | 6268.0 | 6321.8 |
| 67.5° | 3835.0 | 4158.4 | 4495.4 | 5071.4 | 5268.2 | 5438.3 | 5541.8 | 5627.3 | 5689.8 | 5743.1 | 5805.1 |
| 70°   | 2851.9 | 3205.7 | 3554.0 | 4185.5 | 4433.9 | 4679.6 | 4801.7 | 4907.6 | 4972.7 | 5026.6 | 5094.9 |
| 72.5° | 2052.5 | 2274.2 | 2491.8 | 3198.9 | 3447.2 | 3764.8 | 3891.5 | 4009.1 | 4093.7 | 4091.0 | 4163.4 |
| 75°   | 1634.0 | 1724.1 | 1820.9 | 2186.0 | 2364.2 | 2632.0 | 2703.1 | 2769.1 | 2729.3 | 2652.8 | 2648.3 |
| 77.5° | 1360.4 | 1397.5 | 1430.0 | 1544.5 | 1570.7 | 1634.5 | 1599.2 | 1562.6 | 1444.5 | 1345.0 | 1292.5 |
| 80°   | 1104.3 | 1177.6 | 1225.6 | 1307.0 | 1340.5 | 1359.5 | 1364.4 | 1351.7 | 1308.3 | 1248.2 | 1152.2 |
| 82.5° | 821.1  | 960.4  | 1055.5 | 1215.6 | 1274.4 | 1286.6 | 1310.2 | 1295.6 | 1267.1 | 1218.3 | 1149.5 |
| 85°   | 240.7  | 272.3  | 312.2  | 423.4  | 496.3  | 558.2  | 621.6  | 652.8  | 672.2  | 645.1  | 574.1  |
| 87.5° | 84.6   | 95.5   | 106.7  | 147.0  | 156.5  | 189.1  | 185.5  | 218.9  | 220.3  | 229.8  | 219.8  |
| 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):**

|       | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  |
| 2.5°  | 749.2  | 749.2  | 749.2  | 749.6  | 749.6  | 749.6  | 748.7  | 748.3  | 748.7  | 749.6  | 749.6  |
| 5°    | 766.8  | 767.3  | 768.2  | 766.4  | 766.8  | 768.2  | 767.3  | 766.8  | 767.3  | 768.2  | 767.3  |
| 7.5°  | 795.3  | 795.8  | 794.9  | 796.7  | 796.7  | 797.6  | 799.0  | 797.6  | 798.0  | 798.5  | 799.0  |
| 10°   | 832.4  | 832.9  | 833.8  | 835.1  | 835.6  | 836.5  | 837.4  | 838.7  | 838.7  | 837.8  | 840.1  |
| 12.5° | 876.7  | 876.3  | 877.2  | 879.0  | 879.9  | 881.3  | 884.0  | 884.0  | 885.8  | 885.4  | 887.6  |
| 15°   | 920.2  | 922.4  | 922.9  | 926.0  | 927.4  | 929.7  | 932.8  | 934.7  | 934.7  | 937.4  | 938.3  |
| 17.5° | 963.6  | 965.4  | 967.2  | 970.0  | 971.8  | 973.1  | 976.7  | 979.0  | 978.5  | 983.5  | 983.5  |
| 20°   | 997.1  | 1000.7 | 1003.0 | 1004.8 | 1007.9 | 1010.2 | 1012.9 | 1015.6 | 1017.4 | 1020.6 | 1021.5 |
| 22.5° | 1029.7 | 1031.9 | 1035.1 | 1037.3 | 1040.9 | 1043.7 | 1046.8 | 1049.1 | 1052.3 | 1056.4 | 1057.7 |
| 25°   | 1065.8 | 1069.4 | 1073.1 | 1076.3 | 1079.0 | 1082.2 | 1087.6 | 1092.5 | 1097.0 | 1100.7 | 1102.0 |
| 27.5° | 1116.1 | 1120.1 | 1125.5 | 1127.8 | 1131.9 | 1134.6 | 1142.8 | 1149.1 | 1151.3 | 1157.7 | 1159.5 |
| 30°   | 1183.9 | 1188.4 | 1193.9 | 1196.6 | 1203.8 | 1207.4 | 1216.0 | 1222.8 | 1225.1 | 1232.8 | 1234.1 |
| 32.5° | 1282.1 | 1284.8 | 1295.6 | 1295.2 | 1305.2 | 1315.6 | 1320.5 | 1326.0 | 1335.9 | 1340.0 | 1341.4 |
| 35°   | 1418.3 | 1424.6 | 1432.3 | 1431.8 | 1444.5 | 1450.4 | 1460.3 | 1466.2 | 1473.5 | 1473.0 | 1480.7 |
| 37.5° | 1549.9 | 1552.2 | 1554.9 | 1560.8 | 1569.8 | 1577.9 | 1581.6 | 1587.5 | 1592.9 | 1601.0 | 1611.0 |
| 40°   | 1693.3 | 1698.7 | 1699.2 | 1702.4 | 1706.9 | 1717.3 | 1724.1 | 1730.4 | 1748.9 | 1760.7 | 1766.6 |
| 42.5° | 1908.2 | 1906.9 | 1897.8 | 1903.7 | 1906.4 | 1922.2 | 1927.2 | 1946.6 | 1967.5 | 1992.4 | 1999.1 |
| 45°   | 2184.6 | 2166.5 | 2161.1 | 2158.9 | 2173.3 | 2181.5 | 2201.8 | 2238.0 | 2259.7 | 2283.2 | 2294.6 |
| 47.5° | 2524.8 | 2468.3 | 2441.6 | 2435.7 | 2450.6 | 2485.4 | 2492.3 | 2528.0 | 2556.5 | 2573.7 | 2585.0 |
| 50°   | 2865.5 | 2821.1 | 2765.0 | 2746.0 | 2742.0 | 2774.1 | 2781.8 | 2811.7 | 2840.6 | 2845.6 | 2839.7 |
| 52.5° | 3293.5 | 3221.0 | 3128.3 | 3094.9 | 3068.2 | 3070.4 | 3076.7 | 3089.4 | 3107.9 | 3100.3 | 3084.4 |
| 55°   | 3840.8 | 3758.5 | 3712.8 | 3649.5 | 3609.2 | 3602.0 | 3574.4 | 3536.4 | 3535.0 | 3540.0 | 3492.5 |
| 57.5° | 4752.4 | 4718.0 | 4737.5 | 4730.7 | 4690.9 | 4714.9 | 4590.5 | 4555.2 | 4527.1 | 4478.3 | 4434.4 |
| 60°   | 5803.8 | 5839.1 | 5879.3 | 5972.1 | 5968.0 | 6061.2 | 5974.8 | 5953.1 | 5926.9 | 5776.2 | 5702.5 |
| 62.5° | 6429.5 | 6443.5 | 6502.7 | 6589.1 | 6674.2 | 6763.3 | 6803.6 | 6817.6 | 6762.8 | 6639.8 | 6486.0 |
| 65°   | 6320.4 | 6382.4 | 6439.9 | 6514.5 | 6601.8 | 6691.0 | 6776.0 | 6825.8 | 6813.1 | 6731.6 | 6562.4 |
| 67.5° | 5825.0 | 5890.2 | 5974.3 | 6052.6 | 6146.7 | 6224.0 | 6317.3 | 6408.7 | 6411.4 | 6370.6 | 6253.0 |
| 70°   | 5102.1 | 5177.7 | 5264.5 | 5308.4 | 5410.2 | 5480.3 | 5557.7 | 5648.2 | 5677.6 | 5682.5 | 5545.5 |
| 72.5° | 4148.0 | 4179.7 | 4222.2 | 4199.2 | 4219.5 | 4264.3 | 4243.5 | 4250.7 | 4139.0 | 4159.8 | 3990.6 |
| 75°   | 2526.2 | 2497.2 | 2368.7 | 2251.6 | 2108.6 | 1998.7 | 2024.9 | 1815.0 | 1608.2 | 1597.9 | 1448.6 |
| 77.5° | 1281.2 | 1235.0 | 1155.4 | 1072.6 | 951.4  | 812.5  | 696.7  | 571.8  | 466.4  | 406.3  | 348.8  |
| 80°   | 1091.2 | 1058.6 | 1014.7 | 954.5  | 866.3  | 763.6  | 642.8  | 547.9  | 459.7  | 367.8  | 294.5  |
| 82.5° | 1044.1 | 944.6  | 880.8  | 830.6  | 735.1  | 640.1  | 574.1  | 508.9  | 446.5  | 389.9  | 309.0  |
| 85°   | 518.0  | 458.3  | 387.7  | 343.8  | 264.7  | 207.2  | 194.1  | 159.7  | 148.9  | 114.9  | 96.8   |
| 87.5° | 174.2  | 142.5  | 106.3  | 89.6   | 71.5   | 58.4   | 57.5   | 51.1   | 50.6   | 46.1   | 42.5   |
| 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: P158214

CATALOG NUMBER: VST-F03-LED-E-U-SL2-7030

**CANDELA DISTRIBUTION (continued):**

|       | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  | 744.7  |
| 2.5°  | 749.2  | 750.1  | 750.1  | 749.2  | 749.6  | 748.7  | 749.2  | 749.6  | 748.3  | 747.8  | 746.5  |
| 5°    | 767.7  | 767.3  | 767.3  | 767.7  | 769.1  | 769.5  | 767.3  | 768.2  | 768.6  | 766.4  | 761.4  |
| 7.5°  | 798.5  | 798.5  | 799.9  | 799.4  | 802.1  | 801.2  | 800.8  | 800.8  | 800.8  | 796.2  | 788.1  |
| 10°   | 840.1  | 840.1  | 841.4  | 843.2  | 843.7  | 842.8  | 842.8  | 843.2  | 845.5  | 836.5  | 823.8  |
| 12.5° | 886.7  | 889.0  | 888.5  | 888.5  | 893.9  | 892.6  | 890.8  | 892.6  | 894.8  | 882.2  | 864.1  |
| 15°   | 938.7  | 940.1  | 941.0  | 944.2  | 943.3  | 946.4  | 947.3  | 946.4  | 948.7  | 932.4  | 902.1  |
| 17.5° | 985.8  | 988.5  | 989.4  | 993.0  | 993.0  | 993.5  | 997.1  | 995.7  | 996.2  | 977.6  | 934.2  |
| 20°   | 1024.7 | 1027.4 | 1028.8 | 1032.8 | 1033.7 | 1035.5 | 1036.9 | 1037.8 | 1040.0 | 1017.9 | 960.4  |
| 22.5° | 1063.6 | 1065.8 | 1068.1 | 1070.8 | 1074.4 | 1076.7 | 1078.5 | 1079.4 | 1083.5 | 1057.7 | 985.3  |
| 25°   | 1107.0 | 1112.0 | 1114.3 | 1118.8 | 1122.4 | 1126.0 | 1128.7 | 1129.2 | 1136.0 | 1103.8 | 1005.7 |
| 27.5° | 1164.9 | 1171.7 | 1175.3 | 1182.5 | 1186.2 | 1189.8 | 1188.9 | 1194.3 | 1203.8 | 1156.8 | 1021.5 |
| 30°   | 1240.9 | 1249.5 | 1251.8 | 1259.0 | 1264.9 | 1268.5 | 1272.6 | 1277.1 | 1283.5 | 1215.6 | 1029.2 |
| 32.5° | 1346.8 | 1359.9 | 1363.1 | 1367.2 | 1375.7 | 1382.1 | 1384.8 | 1392.0 | 1393.9 | 1271.2 | 1027.0 |
| 35°   | 1492.0 | 1486.1 | 1501.5 | 1505.1 | 1517.3 | 1522.3 | 1525.5 | 1535.0 | 1527.7 | 1331.9 | 1012.0 |
| 37.5° | 1623.2 | 1621.4 | 1636.3 | 1644.5 | 1660.3 | 1656.7 | 1664.3 | 1670.7 | 1644.9 | 1374.8 | 984.4  |
| 40°   | 1783.3 | 1781.1 | 1801.9 | 1804.6 | 1829.0 | 1823.6 | 1826.8 | 1831.7 | 1774.3 | 1404.7 | 934.2  |
| 42.5° | 2006.8 | 2007.7 | 2029.9 | 2032.6 | 2035.8 | 2045.8 | 2029.4 | 2030.3 | 1911.8 | 1412.8 | 851.4  |
| 45°   | 2301.4 | 2317.2 | 2303.6 | 2304.1 | 2303.2 | 2284.1 | 2263.8 | 2239.8 | 2054.8 | 1384.8 | 744.7  |
| 47.5° | 2586.8 | 2575.9 | 2558.8 | 2542.9 | 2529.8 | 2500.0 | 2470.1 | 2429.3 | 2178.3 | 1318.3 | 625.7  |
| 50°   | 2831.1 | 2806.7 | 2791.3 | 2747.4 | 2716.2 | 2677.3 | 2635.7 | 2589.1 | 2279.6 | 1222.4 | 514.4  |
| 52.5° | 3058.2 | 3032.9 | 2975.4 | 2929.7 | 2884.9 | 2833.4 | 2785.0 | 2730.2 | 2369.2 | 1112.9 | 429.3  |
| 55°   | 3435.5 | 3413.3 | 3355.9 | 3272.2 | 3217.0 | 3146.0 | 3082.2 | 3008.0 | 2550.6 | 1024.2 | 373.2  |
| 57.5° | 4313.6 | 4294.6 | 4173.8 | 4120.9 | 4048.0 | 3869.8 | 3843.5 | 3727.7 | 3037.0 | 1013.8 | 340.2  |
| 60°   | 5550.0 | 5468.6 | 5368.1 | 5223.4 | 5052.8 | 4994.0 | 4862.8 | 4708.6 | 3819.6 | 1042.3 | 313.5  |
| 62.5° | 6309.1 | 6123.7 | 5976.2 | 5809.2 | 5652.2 | 5517.4 | 5374.0 | 5221.6 | 4220.0 | 1004.8 | 280.5  |
| 65°   | 6366.1 | 6148.1 | 5953.1 | 5757.2 | 5580.8 | 5412.9 | 5273.6 | 5121.1 | 4089.7 | 863.6  | 237.5  |
| 67.5° | 6052.1 | 5822.3 | 5609.7 | 5387.6 | 5209.3 | 5057.8 | 4880.5 | 4733.9 | 3722.3 | 672.2  | 197.7  |
| 70°   | 5404.8 | 5203.0 | 5019.8 | 4780.4 | 4632.5 | 4448.0 | 4335.3 | 4152.1 | 3244.6 | 458.3  | 163.3  |
| 72.5° | 3892.9 | 3740.9 | 3681.1 | 3514.2 | 3320.6 | 3212.0 | 3160.0 | 2982.2 | 2397.7 | 284.6  | 133.4  |
| 75°   | 1315.1 | 1352.6 | 1266.7 | 1135.1 | 1199.3 | 1100.2 | 1140.5 | 1055.9 | 1014.3 | 163.3  | 112.2  |
| 77.5° | 291.8  | 274.1  | 253.3  | 235.3  | 233.9  | 219.8  | 233.0  | 220.3  | 235.7  | 104.0  | 99.1   |
| 80°   | 230.3  | 181.9  | 154.7  | 141.1  | 133.9  | 129.8  | 126.7  | 123.1  | 112.2  | 88.7   | 91.4   |
| 82.5° | 248.8  | 187.7  | 137.5  | 109.9  | 94.1   | 88.2   | 86.9   | 83.2   | 82.3   | 86.0   | 92.3   |
| 85°   | 79.6   | 66.5   | 56.5   | 53.4   | 49.3   | 47.0   | 46.1   | 44.8   | 54.3   | 93.7   | 88.7   |
| 87.5° | 41.6   | 36.7   | 32.6   | 31.2   | 27.1   | 25.3   | 24.9   | 25.3   | 38.0   | 93.7   | 64.3   |
| 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: P158214

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**CANDELA DISTRIBUTION (continued):**

|       | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 744.7 | 744.7 | 744.7 | 744.7 | 744.7 | 744.7 | 744.7 |
| 2.5°  | 745.1 | 744.7 | 743.8 | 743.3 | 742.9 | 740.6 | 742.4 |
| 5°    | 759.1 | 754.6 | 750.5 | 745.6 | 742.9 | 740.6 | 740.6 |
| 7.5°  | 780.4 | 767.7 | 757.3 | 746.0 | 738.3 | 732.4 | 731.5 |
| 10°   | 807.1 | 782.6 | 758.6 | 738.3 | 723.8 | 713.0 | 711.6 |
| 12.5° | 832.4 | 795.3 | 757.3 | 723.8 | 701.2 | 685.9 | 684.9 |
| 15°   | 856.0 | 802.1 | 746.9 | 697.6 | 663.7 | 643.3 | 641.0 |
| 17.5° | 874.5 | 798.0 | 723.4 | 661.0 | 614.8 | 590.8 | 589.5 |
| 20°   | 878.6 | 781.7 | 689.9 | 615.7 | 566.9 | 541.5 | 535.6 |
| 22.5° | 874.9 | 752.3 | 648.3 | 565.9 | 509.9 | 484.5 | 481.3 |
| 25°   | 864.1 | 716.6 | 596.7 | 508.0 | 456.0 | 430.2 | 423.9 |
| 27.5° | 844.6 | 674.5 | 541.1 | 451.9 | 400.4 | 375.5 | 369.2 |
| 30°   | 815.7 | 623.9 | 481.8 | 399.5 | 346.1 | 326.2 | 319.9 |
| 32.5° | 775.4 | 562.3 | 423.4 | 345.7 | 301.3 | 285.5 | 282.7 |
| 35°   | 719.8 | 491.8 | 362.3 | 301.3 | 268.7 | 259.2 | 257.9 |
| 37.5° | 648.7 | 421.2 | 311.2 | 269.6 | 246.1 | 240.2 | 239.3 |
| 40°   | 556.0 | 348.8 | 275.0 | 247.0 | 229.8 | 224.8 | 223.9 |
| 42.5° | 460.6 | 294.5 | 248.3 | 228.9 | 214.9 | 210.4 | 209.0 |
| 45°   | 376.9 | 257.9 | 228.5 | 214.0 | 200.9 | 195.9 | 195.4 |
| 47.5° | 314.4 | 236.6 | 212.2 | 200.4 | 187.3 | 181.4 | 181.9 |
| 50°   | 268.7 | 217.1 | 198.6 | 188.6 | 173.7 | 168.3 | 168.7 |
| 52.5° | 237.5 | 197.7 | 185.9 | 174.6 | 161.9 | 156.5 | 156.5 |
| 55°   | 213.1 | 181.9 | 173.7 | 161.5 | 151.6 | 146.6 | 146.1 |
| 57.5° | 193.2 | 169.2 | 161.9 | 152.0 | 142.1 | 136.2 | 136.2 |
| 60°   | 181.0 | 160.1 | 154.3 | 145.2 | 133.4 | 127.1 | 126.7 |
| 62.5° | 173.7 | 157.4 | 152.5 | 139.8 | 126.7 | 120.4 | 119.0 |
| 65°   | 168.3 | 163.7 | 157.4 | 136.6 | 121.3 | 114.5 | 113.1 |
| 67.5° | 168.7 | 178.7 | 169.6 | 138.4 | 119.5 | 109.5 | 107.7 |
| 70°   | 171.5 | 190.4 | 178.3 | 142.5 | 127.1 | 107.2 | 103.1 |
| 72.5° | 157.9 | 172.4 | 160.6 | 135.7 | 124.0 | 103.1 | 98.2  |
| 75°   | 131.6 | 125.8 | 115.4 | 110.4 | 111.3 | 93.7  | 91.9  |
| 77.5° | 106.7 | 93.7  | 83.7  | 87.8  | 93.7  | 80.1  | 78.2  |
| 80°   | 92.8  | 76.0  | 71.0  | 77.8  | 85.1  | 68.3  | 63.8  |
| 82.5° | 86.9  | 64.3  | 61.1  | 81.0  | 89.1  | 58.8  | 51.6  |
| 85°   | 76.4  | 52.5  | 47.9  | 95.5  | 89.1  | 44.3  | 41.2  |
| 87.5° | 51.1  | 31.2  | 29.9  | 70.1  | 61.1  | 30.8  | 24.9  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)