

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: P158868

Luminaire Tested: **VST-E03-LED-E-U-SLL-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158868  
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-E03-LED-E-U-SLL-8030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6804.1 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 75.2  
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

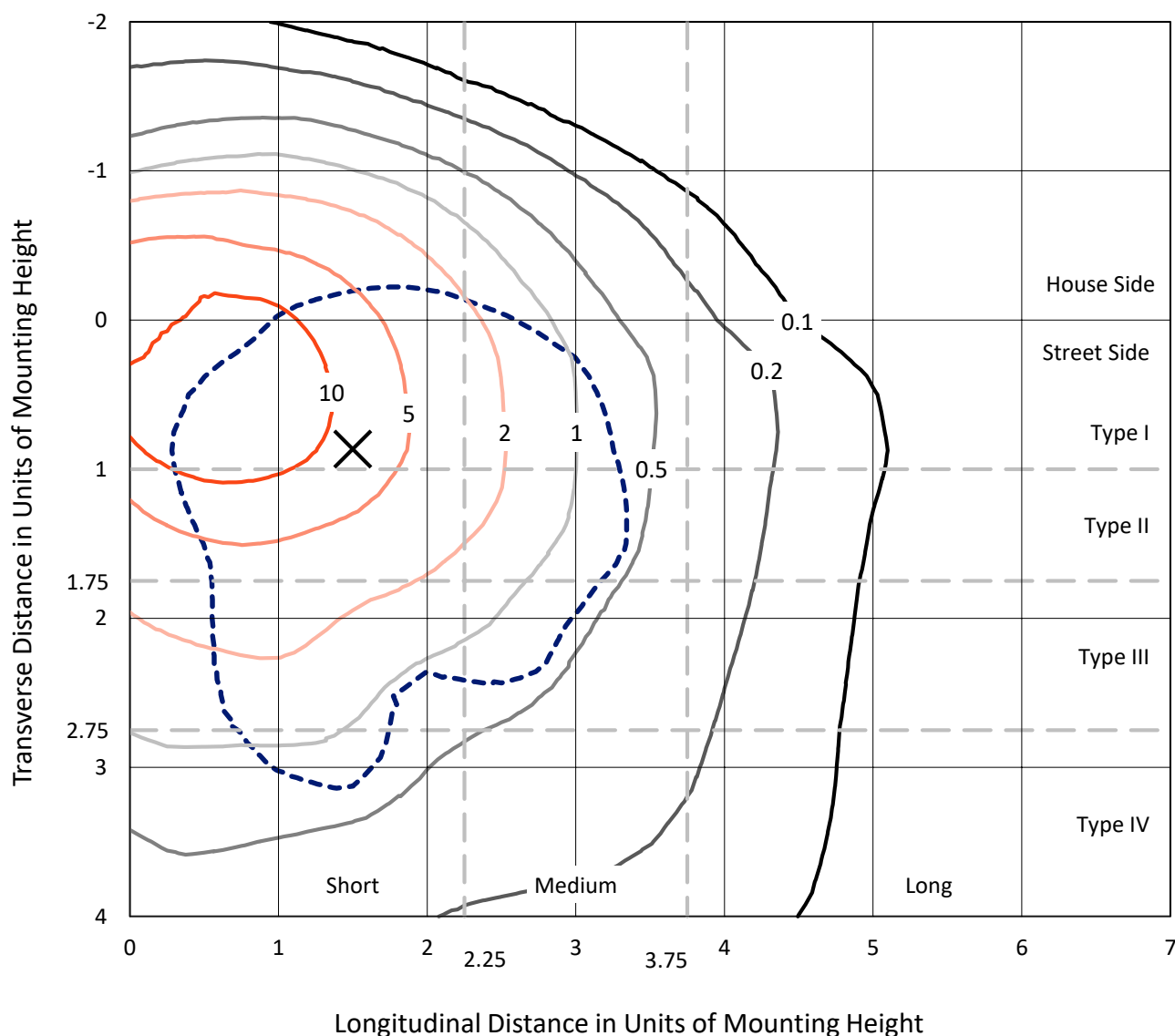


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

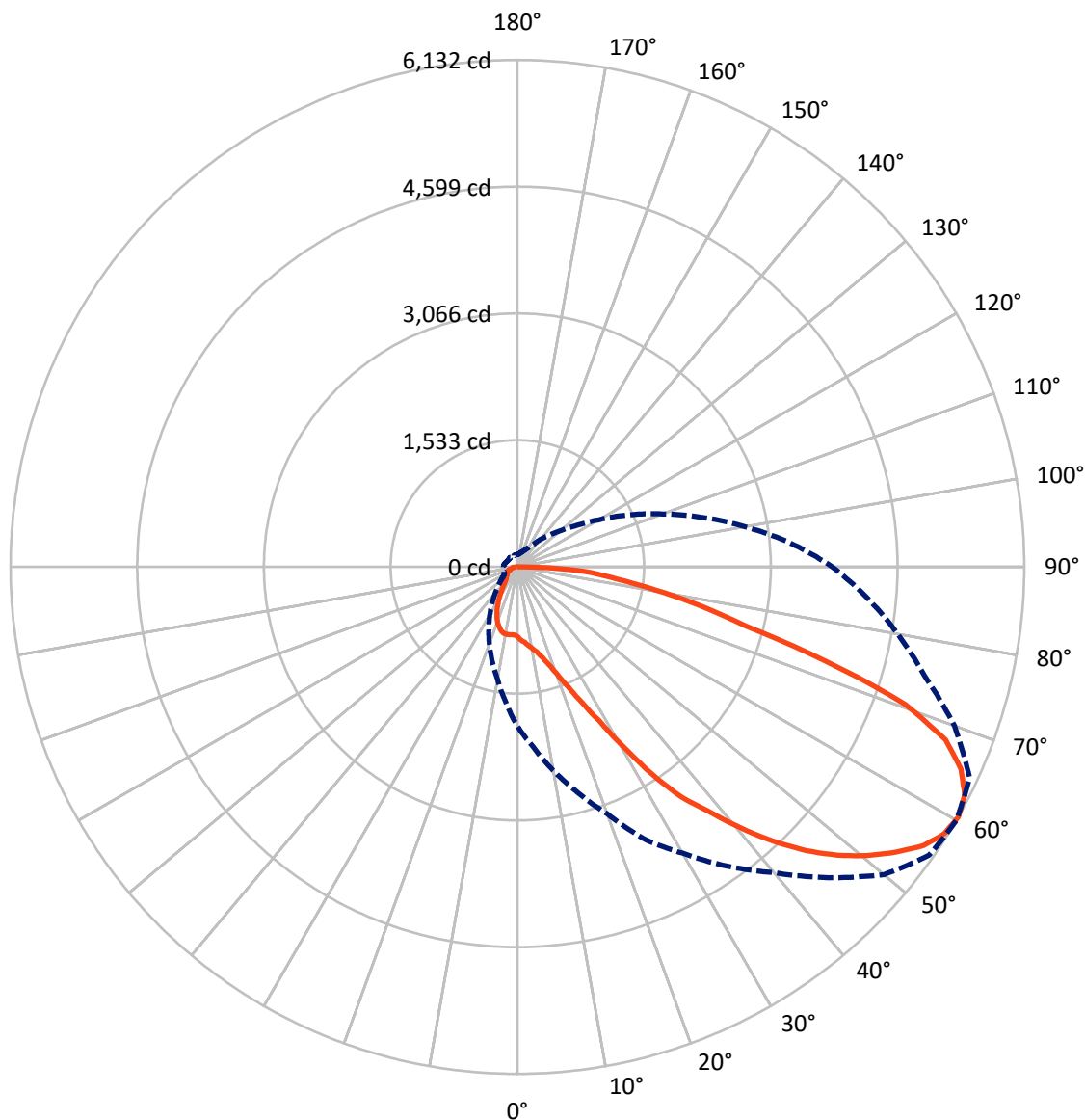


Based on 10 foot mounting height. Maximum calculated value = 19.5 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1532.1   | 0.0    | 1532.1 |
|                    | % Fixture | 22.5     | 0.0    | 22.5   |
| <b>Street Side</b> | Lumens    | 5272.0   | 0.0    | 5272.0 |
|                    | % Fixture | 77.5     | 0.0    | 77.5   |
| <b>Total</b>       | Lumens    | 6804.1   | 0.0    | 6804.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.5   | 1.2       |
| 10°-20°   | 269.5  | 4.0       |
| 20°-30°   | 511.5  | 7.5       |
| 30°-40°   | 805.5  | 11.8      |
| 40°-50°   | 1124.3 | 16.5      |
| 50°-60°   | 1390.5 | 20.4      |
| 60°-70°   | 1441.3 | 21.2      |
| 70°-80°   | 906.9  | 13.3      |
| 80°-90°   | 271.1  | 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°    | 6804.1 | 100.0     |
| 0°-180°   | 6804.1 | 100.0     |

**Coefficient of Utilization**



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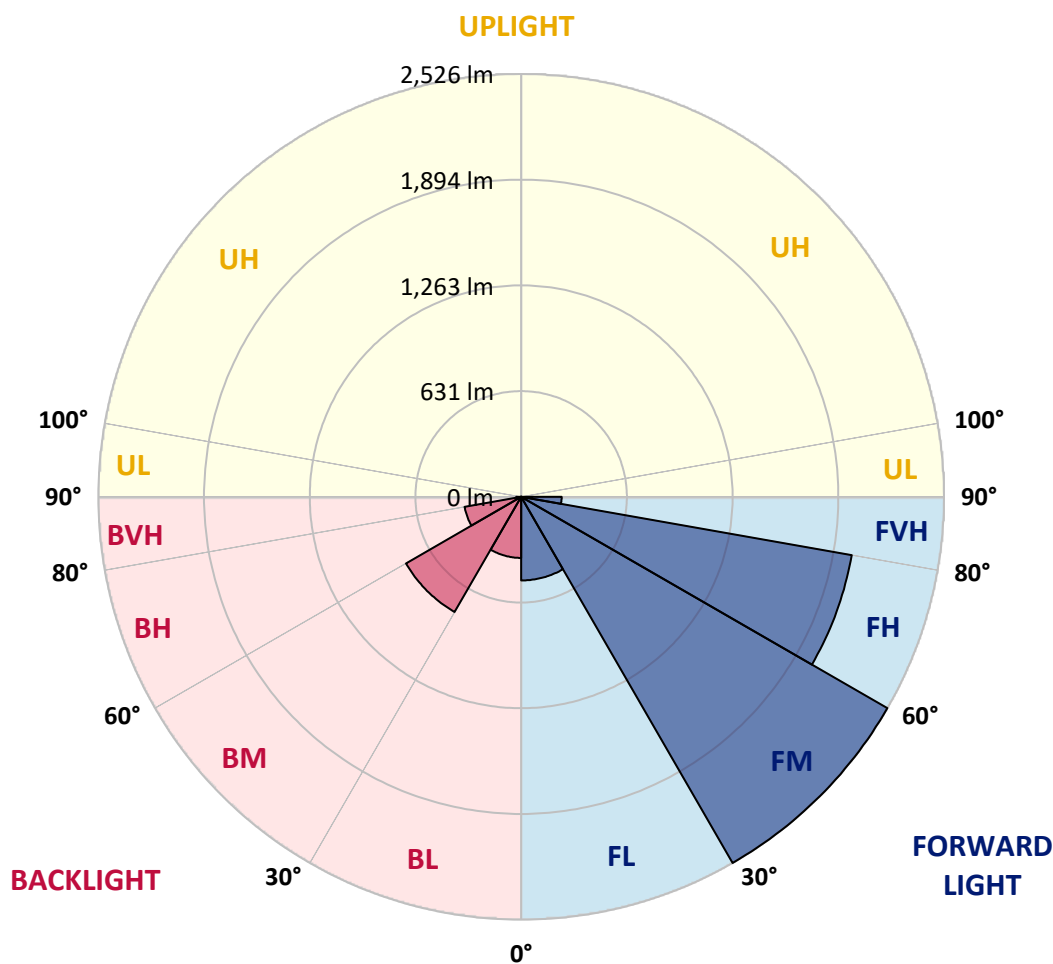
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 499.5  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 2525.8 | 37.1      |                         |      |         |
| FH   | (60°-80°)   | 2005.1 | 29.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 241.6  | 3.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 365.0  | 5.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 794.5  | 11.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 343.1  | 5.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 29.5   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  |
| 2.5°  | 896.3  | 895.3  | 895.3  | 895.3  | 894.8  | 893.8  | 895.3  | 894.8  | 892.3  | 890.8  | 892.3  |
| 5°    | 908.0  | 908.5  | 910.0  | 910.5  | 910.5  | 912.0  | 916.1  | 916.6  | 916.1  | 917.1  | 919.6  |
| 7.5°  | 919.1  | 921.7  | 923.2  | 925.7  | 928.7  | 931.3  | 938.3  | 945.4  | 950.0  | 953.5  | 954.5  |
| 10°   | 937.3  | 941.4  | 946.0  | 952.5  | 959.6  | 972.3  | 978.4  | 985.4  | 990.0  | 997.1  | 998.6  |
| 12.5° | 983.9  | 989.0  | 992.0  | 1002.2 | 1011.2 | 1023.4 | 1032.1 | 1034.0 | 1044.7 | 1050.8 | 1057.9 |
| 15°   | 1062.4 | 1070.0 | 1080.7 | 1086.7 | 1096.9 | 1107.5 | 1115.1 | 1125.2 | 1126.7 | 1134.8 | 1140.4 |
| 17.5° | 1158.7 | 1169.3 | 1191.1 | 1205.7 | 1218.9 | 1229.5 | 1244.7 | 1256.3 | 1258.9 | 1268.0 | 1256.3 |
| 20°   | 1293.4 | 1319.2 | 1322.7 | 1352.1 | 1363.7 | 1385.0 | 1415.4 | 1420.9 | 1435.6 | 1420.9 | 1412.3 |
| 22.5° | 1475.6 | 1516.1 | 1527.3 | 1555.6 | 1569.8 | 1602.2 | 1611.4 | 1641.2 | 1651.4 | 1640.2 | 1616.9 |
| 25°   | 1685.3 | 1748.1 | 1780.5 | 1824.1 | 1831.1 | 1897.4 | 1904.5 | 1939.5 | 1920.8 | 1893.9 | 1894.4 |
| 27.5° | 1839.7 | 1946.6 | 2030.2 | 2104.6 | 2156.8 | 2231.7 | 2289.9 | 2306.1 | 2288.4 | 2253.5 | 2241.3 |
| 30°   | 1927.9 | 2048.9 | 2168.9 | 2271.7 | 2393.2 | 2507.6 | 2626.7 | 2685.9 | 2696.0 | 2714.3 | 2640.8 |
| 32.5° | 1984.6 | 2140.0 | 2282.8 | 2410.0 | 2534.5 | 2681.9 | 2841.4 | 2993.8 | 3121.9 | 3218.6 | 3173.0 |
| 35°   | 2032.1 | 2224.1 | 2406.9 | 2560.9 | 2708.2 | 2868.7 | 3029.8 | 3209.5 | 3421.7 | 3545.8 | 3571.6 |
| 37.5° | 2051.4 | 2285.9 | 2509.7 | 2707.2 | 2914.3 | 3095.1 | 3255.1 | 3415.1 | 3637.9 | 3859.3 | 3927.6 |
| 40°   | 2047.9 | 2316.2 | 2570.9 | 2819.1 | 3072.8 | 3298.7 | 3486.0 | 3675.4 | 3936.2 | 4195.0 | 4306.4 |
| 42.5° | 2024.0 | 2320.8 | 2609.9 | 2893.6 | 3182.7 | 3483.0 | 3722.5 | 3940.7 | 4190.9 | 4522.6 | 4680.1 |
| 45°   | 1994.2 | 2305.1 | 2618.0 | 2931.5 | 3264.2 | 3611.6 | 3914.4 | 4184.3 | 4477.6 | 4805.2 | 4995.6 |
| 47.5° | 1953.7 | 2280.3 | 2608.0 | 2944.7 | 3300.7 | 3694.1 | 4050.1 | 4374.7 | 4697.3 | 5074.6 | 5316.1 |
| 50°   | 1909.6 | 2244.8 | 2587.1 | 2935.1 | 3309.8 | 3739.2 | 4127.6 | 4497.3 | 4874.0 | 5281.2 | 5586.5 |
| 52.5° | 1878.7 | 2206.9 | 2568.4 | 2915.3 | 3300.7 | 3752.9 | 4156.0 | 4563.1 | 4982.4 | 5403.2 | 5767.9 |
| 55°   | 1840.7 | 2156.2 | 2518.3 | 2869.3 | 3267.2 | 3745.3 | 4153.0 | 4585.9 | 5012.3 | 5450.3 | 5866.6 |
| 57.5° | 1843.3 | 2132.9 | 2475.8 | 2814.1 | 3198.9 | 3674.9 | 4095.7 | 4563.1 | 4965.2 | 5419.9 | 5870.1 |
| 60°   | 1923.3 | 2183.0 | 2498.0 | 2825.2 | 3178.6 | 3630.4 | 3998.5 | 4416.2 | 4826.9 | 5315.1 | 5788.1 |
| 62.5° | 2088.4 | 2326.4 | 2612.5 | 2936.6 | 3292.6 | 3719.5 | 3954.4 | 4172.2 | 4536.8 | 5122.2 | 5648.3 |
| 65°   | 2285.3 | 2500.1 | 2748.2 | 3056.6 | 3455.6 | 3864.3 | 3929.6 | 3973.7 | 4158.0 | 4747.0 | 5386.0 |
| 67.5° | 2482.3 | 2674.3 | 2869.3 | 3125.0 | 3548.3 | 3905.8 | 3828.4 | 3723.5 | 3822.8 | 4310.9 | 4870.5 |
| 70°   | 2553.2 | 2807.9 | 2936.1 | 3111.8 | 3477.9 | 3809.1 | 3664.8 | 3400.9 | 3435.4 | 3879.0 | 4288.1 |
| 72.5° | 2446.9 | 2810.0 | 2852.5 | 2917.9 | 3164.5 | 3475.9 | 3323.5 | 2984.2 | 2977.1 | 3315.9 | 3646.6 |
| 75°   | 2052.4 | 2563.4 | 2562.8 | 2538.5 | 2594.3 | 2771.5 | 2692.5 | 2487.9 | 2574.5 | 2841.4 | 2950.3 |
| 77.5° | 1463.0 | 2000.3 | 2025.6 | 1862.0 | 1858.0 | 1938.0 | 1985.6 | 2223.6 | 2537.5 | 2687.5 | 2653.0 |
| 80°   | 919.1  | 1349.5 | 1458.4 | 1256.3 | 1213.3 | 1326.8 | 1621.0 | 1967.3 | 2353.7 | 2488.4 | 2372.5 |
| 82.5° | 553.5  | 869.5  | 1101.4 | 986.9  | 976.9  | 1183.4 | 1508.5 | 1643.3 | 1759.2 | 1902.5 | 1708.6 |
| 85°   | 375.7  | 579.3  | 753.5  | 776.3  | 864.9  | 1078.6 | 1219.9 | 1160.2 | 1163.2 | 1125.7 | 1025.5 |
| 87.5° | 71.9   | 158.0  | 258.2  | 315.0  | 349.4  | 469.4  | 510.4  | 462.4  | 488.2  | 357.0  | 390.4  |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  |
| 2.5°  | 889.7  | 889.7  | 889.7  | 887.2  | 887.7  | 884.2  | 882.7  | 882.7  | 881.1  | 881.1  | 880.6  |
| 5°    | 917.6  | 914.5  | 916.1  | 915.5  | 915.5  | 910.5  | 908.0  | 908.0  | 901.4  | 901.9  | 899.9  |
| 7.5°  | 959.1  | 958.6  | 960.1  | 957.1  | 953.0  | 949.0  | 944.9  | 942.9  | 933.8  | 928.2  | 924.7  |
| 10°   | 1006.2 | 1005.7 | 1007.2 | 1006.7 | 999.6  | 992.0  | 980.9  | 972.8  | 961.6  | 953.0  | 944.4  |
| 12.5° | 1057.9 | 1057.4 | 1056.4 | 1051.8 | 1044.2 | 1032.1 | 1017.8 | 1004.2 | 987.5  | 976.3  | 963.7  |
| 15°   | 1138.4 | 1136.9 | 1130.8 | 1124.2 | 1116.1 | 1097.3 | 1072.6 | 1052.8 | 1030.5 | 1011.2 | 990.5  |
| 17.5° | 1257.4 | 1244.7 | 1243.7 | 1229.0 | 1207.3 | 1182.4 | 1159.1 | 1126.2 | 1094.3 | 1065.5 | 1037.1 |
| 20°   | 1421.5 | 1392.1 | 1384.0 | 1367.3 | 1338.4 | 1312.6 | 1261.9 | 1217.9 | 1174.3 | 1134.8 | 1098.9 |
| 22.5° | 1600.2 | 1579.0 | 1559.2 | 1531.9 | 1492.3 | 1454.9 | 1390.6 | 1335.4 | 1279.7 | 1229.0 | 1189.0 |
| 25°   | 1849.9 | 1812.9 | 1777.4 | 1733.9 | 1679.2 | 1634.6 | 1561.2 | 1505.5 | 1432.6 | 1386.5 | 1328.8 |
| 27.5° | 2172.4 | 2109.1 | 2049.4 | 2011.9 | 1915.7 | 1850.9 | 1757.2 | 1685.3 | 1597.1 | 1534.9 | 1466.5 |
| 30°   | 2592.2 | 2518.8 | 2430.2 | 2300.6 | 2186.1 | 2057.5 | 1941.5 | 1849.4 | 1755.7 | 1668.6 | 1589.6 |
| 32.5° | 3112.8 | 2983.2 | 2842.9 | 2637.3 | 2449.4 | 2266.1 | 2111.6 | 1998.2 | 1902.5 | 1794.2 | 1682.8 |
| 35°   | 3552.8 | 3419.2 | 3220.1 | 2958.8 | 2726.9 | 2517.3 | 2332.4 | 2177.5 | 2052.4 | 1915.2 | 1767.8 |
| 37.5° | 3900.2 | 3747.8 | 3560.9 | 3283.4 | 3038.3 | 2799.8 | 2605.9 | 2408.4 | 2244.4 | 2055.5 | 1869.1 |
| 40°   | 4298.3 | 4145.3 | 3939.7 | 3652.1 | 3362.0 | 3103.2 | 2875.8 | 2671.7 | 2470.2 | 2239.8 | 2000.3 |
| 42.5° | 4645.1 | 4534.7 | 4326.7 | 4029.4 | 3707.8 | 3419.7 | 3171.1 | 2937.6 | 2674.3 | 2416.5 | 2132.9 |
| 45°   | 5006.7 | 4894.3 | 4696.8 | 4385.9 | 4044.1 | 3723.0 | 3425.8 | 3174.6 | 2863.7 | 2556.8 | 2232.2 |
| 47.5° | 5326.3 | 5210.8 | 5011.3 | 4702.4 | 4339.3 | 4001.0 | 3673.9 | 3370.1 | 3009.0 | 2656.6 | 2297.0 |
| 50°   | 5631.1 | 5489.8 | 5307.0 | 4999.1 | 4611.2 | 4249.7 | 3894.7 | 3504.8 | 3121.9 | 2726.4 | 2341.1 |
| 52.5° | 5911.1 | 5731.4 | 5558.2 | 5241.2 | 4821.9 | 4444.1 | 4048.1 | 3619.2 | 3191.3 | 2781.6 | 2371.0 |
| 55°   | 6070.1 | 5954.2 | 5747.1 | 5435.6 | 4971.8 | 4577.8 | 4145.3 | 3699.7 | 3260.2 | 2820.6 | 2383.6 |
| 57.5° | 6119.3 | 6090.9 | 5917.2 | 5548.1 | 5059.9 | 4651.3 | 4211.2 | 3763.5 | 3306.2 | 2831.8 | 2365.9 |
| 60°   | 6080.3 | 6131.9 | 6036.7 | 5627.0 | 5099.9 | 4673.0 | 4243.6 | 3809.1 | 3314.3 | 2796.3 | 2312.2 |
| 62.5° | 5955.2 | 6072.7 | 6060.5 | 5653.4 | 5079.1 | 4645.7 | 4240.0 | 3785.8 | 3238.4 | 2685.9 | 2191.7 |
| 65°   | 5749.6 | 5897.5 | 5949.6 | 5555.6 | 4962.2 | 4545.9 | 4149.9 | 3639.5 | 3027.2 | 2470.2 | 1989.6 |
| 67.5° | 5362.7 | 5586.5 | 5637.2 | 5235.6 | 4656.3 | 4269.9 | 3890.1 | 3335.6 | 2636.3 | 2136.5 | 1674.1 |
| 70°   | 4587.4 | 4978.9 | 5047.3 | 4625.9 | 4117.0 | 3777.7 | 3455.6 | 2854.0 | 2195.2 | 1713.7 | 1284.7 |
| 72.5° | 3662.2 | 3908.3 | 4048.1 | 3758.0 | 3379.2 | 3133.1 | 2889.0 | 2189.6 | 1656.4 | 1264.4 | 884.2  |
| 75°   | 2863.1 | 2848.4 | 2973.5 | 2780.6 | 2557.8 | 2442.8 | 2259.5 | 1527.8 | 1109.5 | 837.6  | 559.6  |
| 77.5° | 2447.9 | 2259.5 | 2117.2 | 1981.5 | 1849.4 | 1812.9 | 1637.2 | 948.0  | 685.7  | 501.8  | 334.7  |
| 80°   | 2034.7 | 1690.9 | 1431.1 | 1240.1 | 1193.0 | 1265.0 | 1071.5 | 559.1  | 406.1  | 288.1  | 210.2  |
| 82.5° | 1453.9 | 1216.4 | 990.0  | 869.0  | 788.5  | 902.9  | 632.0  | 310.4  | 220.3  | 172.7  | 139.3  |
| 85°   | 942.4  | 900.9  | 891.2  | 851.8  | 754.0  | 712.0  | 480.1  | 267.4  | 165.1  | 107.3  | 86.6   |
| 87.5° | 362.6  | 464.9  | 536.3  | 574.7  | 621.4  | 553.5  | 250.1  | 92.2   | 90.7   | 55.7   | 42.1   |
| 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°    | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2 | 846.2 | 846.2 | 846.2 |
| 2.5°  | 877.1  | 875.0  | 874.6  | 873.0  | 872.0  | 872.0  | 869.5  | 823.4 | 822.9 | 822.9 | 822.4 |
| 5°    | 895.8  | 893.3  | 890.8  | 890.2  | 888.2  | 888.2  | 885.7  | 839.6 | 839.6 | 839.6 | 838.6 |
| 7.5°  | 921.1  | 916.1  | 913.0  | 911.5  | 908.5  | 910.0  | 912.0  | 865.4 | 865.9 | 865.4 | 866.5 |
| 10°   | 939.4  | 936.3  | 932.8  | 931.7  | 929.8  | 931.3  | 934.3  | 888.2 | 889.7 | 890.2 | 891.2 |
| 12.5° | 957.1  | 952.0  | 947.5  | 946.0  | 944.9  | 949.0  | 952.5  | 908.0 | 909.5 | 911.0 | 911.0 |
| 15°   | 978.8  | 970.3  | 964.2  | 960.7  | 958.6  | 962.6  | 967.7  | 923.6 | 924.2 | 925.7 | 925.2 |
| 17.5° | 1015.8 | 1003.1 | 989.0  | 986.5  | 979.9  | 981.4  | 982.4  | 933.3 | 931.3 | 927.7 | 921.7 |
| 20°   | 1073.0 | 1053.8 | 1034.6 | 1026.5 | 1013.3 | 1007.7 | 996.6  | 933.8 | 921.1 | 910.5 | 901.4 |
| 22.5° | 1155.1 | 1126.7 | 1106.0 | 1092.3 | 1065.5 | 1046.7 | 1016.3 | 931.3 | 907.4 | 889.2 | 875.0 |
| 25°   | 1287.8 | 1253.8 | 1222.0 | 1187.5 | 1145.5 | 1108.0 | 1063.4 | 953.5 | 916.6 | 885.2 | 857.8 |
| 27.5° | 1416.9 | 1363.2 | 1314.1 | 1262.5 | 1203.2 | 1147.0 | 1084.2 | 960.7 | 918.6 | 878.1 | 833.5 |
| 30°   | 1513.6 | 1435.6 | 1361.2 | 1285.7 | 1208.3 | 1135.3 | 1064.5 | 936.3 | 886.2 | 840.6 | 793.5 |
| 32.5° | 1572.4 | 1471.1 | 1374.4 | 1280.7 | 1189.5 | 1107.5 | 1028.0 | 894.3 | 839.1 | 785.4 | 735.3 |
| 35°   | 1628.0 | 1502.5 | 1382.5 | 1272.1 | 1167.7 | 1076.6 | 991.0  | 845.2 | 779.3 | 722.1 | 658.8 |
| 37.5° | 1696.9 | 1535.4 | 1387.5 | 1256.3 | 1135.9 | 1031.5 | 937.3  | 783.4 | 717.5 | 647.2 | 587.4 |
| 40°   | 1779.5 | 1569.3 | 1382.5 | 1225.0 | 1086.2 | 972.3  | 872.5  | 718.6 | 645.1 | 576.8 | 518.0 |
| 42.5° | 1858.0 | 1599.2 | 1369.3 | 1183.0 | 1032.1 | 910.5  | 813.2  | 660.8 | 587.4 | 517.6 | 459.3 |
| 45°   | 1916.2 | 1624.5 | 1362.7 | 1153.6 | 990.5  | 868.4  | 761.1  | 614.3 | 536.8 | 466.4 | 407.2 |
| 47.5° | 1956.7 | 1639.7 | 1359.7 | 1137.4 | 961.6  | 824.9  | 713.5  | 567.7 | 486.1 | 415.3 | 357.5 |
| 50°   | 1978.0 | 1639.2 | 1352.1 | 1119.7 | 919.1  | 772.7  | 664.4  | 520.6 | 439.6 | 370.2 | 317.5 |
| 52.5° | 1983.5 | 1630.1 | 1335.8 | 1087.2 | 867.5  | 720.6  | 611.7  | 471.5 | 398.5 | 332.2 | 279.0 |
| 55°   | 1970.9 | 1607.8 | 1301.9 | 1033.0 | 812.3  | 665.4  | 563.6  | 433.0 | 358.5 | 295.7 | 254.2 |
| 57.5° | 1934.9 | 1568.3 | 1238.2 | 958.6  | 754.0  | 614.3  | 508.4  | 386.4 | 315.0 | 262.3 | 227.9 |
| 60°   | 1868.1 | 1484.8 | 1138.4 | 870.5  | 680.1  | 536.3  | 432.5  | 325.6 | 268.9 | 229.4 | 201.5 |
| 62.5° | 1744.5 | 1353.6 | 998.1  | 749.0  | 573.7  | 435.0  | 345.4  | 259.8 | 217.3 | 191.4 | 174.2 |
| 65°   | 1545.5 | 1156.1 | 835.6  | 589.9  | 436.0  | 316.5  | 256.7  | 195.5 | 164.6 | 148.9 | 143.8 |
| 67.5° | 1261.4 | 892.8  | 607.7  | 409.7  | 295.2  | 221.8  | 178.7  | 142.8 | 128.1 | 122.0 | 120.0 |
| 70°   | 917.1  | 608.2  | 393.5  | 258.8  | 194.9  | 155.0  | 135.2  | 115.0 | 106.9 | 105.4 | 105.4 |
| 72.5° | 575.8  | 369.7  | 241.0  | 177.2  | 147.8  | 125.6  | 115.4  | 101.3 | 98.2  | 97.2  | 95.7  |
| 75°   | 337.7  | 224.3  | 170.6  | 145.3  | 126.6  | 112.4  | 103.8  | 92.2  | 90.1  | 89.6  | 88.1  |
| 77.5° | 215.2  | 161.5  | 137.8  | 124.1  | 114.4  | 101.8  | 94.2   | 82.0  | 81.5  | 81.0  | 80.5  |
| 80°   | 154.4  | 134.2  | 120.5  | 109.9  | 100.3  | 88.6   | 84.1   | 74.5  | 73.4  | 72.9  | 73.9  |
| 82.5° | 117.0  | 110.9  | 105.4  | 97.2   | 84.1   | 75.5   | 71.9   | 65.3  | 65.8  | 63.3  | 62.8  |
| 85°   | 80.5   | 79.5   | 79.0   | 75.5   | 65.8   | 58.3   | 55.7   | 52.1  | 54.7  | 52.1  | 49.1  |
| 87.5° | 39.5   | 39.0   | 35.9   | 42.5   | 39.5   | 31.4   | 28.4   | 31.4  | 34.9  | 33.9  | 31.4  |
| 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):**

|       | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 |
| 2.5°  | 820.4 | 818.3 | 819.8 | 818.8 | 818.8 | 818.3 | 819.4 | 817.8 | 816.8 | 817.8 | 818.3 |
| 5°    | 836.6 | 834.1 | 834.5 | 831.0 | 832.5 | 829.0 | 830.0 | 827.5 | 824.9 | 823.9 | 823.9 |
| 7.5°  | 863.9 | 861.4 | 858.4 | 857.8 | 852.2 | 850.3 | 846.7 | 844.7 | 843.1 | 839.6 | 837.6 |
| 10°   | 888.7 | 884.7 | 881.1 | 880.6 | 875.0 | 870.0 | 865.4 | 861.4 | 858.8 | 853.8 | 851.2 |
| 12.5° | 909.0 | 904.9 | 899.3 | 896.3 | 890.8 | 884.7 | 881.6 | 875.6 | 872.0 | 866.5 | 861.9 |
| 15°   | 920.6 | 913.6 | 905.5 | 899.9 | 891.8 | 885.2 | 880.6 | 876.1 | 872.5 | 865.4 | 858.8 |
| 17.5° | 915.1 | 903.4 | 892.3 | 882.1 | 871.0 | 864.9 | 858.4 | 852.8 | 851.8 | 843.7 | 833.5 |
| 20°   | 891.8 | 878.1 | 863.4 | 849.7 | 835.0 | 826.4 | 818.3 | 809.7 | 807.2 | 797.6 | 784.4 |
| 22.5° | 863.4 | 847.7 | 831.0 | 814.3 | 795.5 | 783.4 | 771.2 | 760.6 | 752.0 | 737.8 | 719.1 |
| 25°   | 834.5 | 811.3 | 787.0 | 765.7 | 743.9 | 728.7 | 716.0 | 704.4 | 694.3 | 671.5 | 652.3 |
| 27.5° | 796.6 | 760.1 | 735.3 | 711.0 | 684.7 | 664.9 | 650.7 | 634.5 | 623.4 | 597.1 | 576.8 |
| 30°   | 748.0 | 711.5 | 676.0 | 651.7 | 625.4 | 604.1 | 585.9 | 562.6 | 546.4 | 527.2 | 508.4 |
| 32.5° | 686.7 | 650.2 | 614.3 | 586.9 | 565.1 | 538.8 | 516.0 | 493.7 | 475.0 | 456.2 | 441.6 |
| 35°   | 612.2 | 576.8 | 542.9 | 515.5 | 491.2 | 470.5 | 448.7 | 429.4 | 408.2 | 387.9 | 379.3 |
| 37.5° | 533.8 | 495.8 | 458.3 | 434.5 | 415.3 | 400.6 | 380.3 | 364.6 | 345.4 | 333.2 | 323.1 |
| 40°   | 465.4 | 424.9 | 389.4 | 369.2 | 353.9 | 337.3 | 320.5 | 308.4 | 294.7 | 282.5 | 275.0 |
| 42.5° | 407.6 | 369.7 | 339.3 | 322.1 | 303.8 | 285.6 | 272.9 | 262.8 | 254.2 | 245.1 | 236.0 |
| 45°   | 354.5 | 318.0 | 292.7 | 271.4 | 256.3 | 241.6 | 232.9 | 228.4 | 223.3 | 217.7 | 211.7 |
| 47.5° | 309.9 | 278.5 | 253.7 | 233.9 | 218.3 | 208.1 | 204.1 | 202.6 | 200.5 | 196.0 | 193.0 |
| 50°   | 276.0 | 250.1 | 224.8 | 207.1 | 193.9 | 188.9 | 184.3 | 182.8 | 180.3 | 178.7 | 176.8 |
| 52.5° | 247.6 | 220.3 | 199.0 | 182.8 | 174.7 | 172.7 | 170.6 | 168.6 | 168.1 | 167.1 | 166.1 |
| 55°   | 224.3 | 200.5 | 180.8 | 168.6 | 164.6 | 163.1 | 162.5 | 160.5 | 160.0 | 160.0 | 158.5 |
| 57.5° | 203.6 | 183.3 | 165.6 | 158.0 | 155.5 | 154.0 | 152.9 | 151.9 | 151.9 | 152.9 | 152.4 |
| 60°   | 182.3 | 165.1 | 154.4 | 150.4 | 148.9 | 146.3 | 143.8 | 142.8 | 143.3 | 145.9 | 145.9 |
| 62.5° | 161.5 | 148.9 | 142.3 | 140.8 | 139.3 | 137.2 | 134.2 | 133.2 | 134.2 | 137.2 | 138.8 |
| 65°   | 138.8 | 133.2 | 131.2 | 130.1 | 129.1 | 127.6 | 125.6 | 124.6 | 125.1 | 126.6 | 128.6 |
| 67.5° | 118.0 | 117.5 | 117.5 | 118.0 | 117.5 | 117.0 | 116.0 | 114.4 | 113.9 | 113.9 | 115.0 |
| 70°   | 105.4 | 105.4 | 106.9 | 106.9 | 106.3 | 106.3 | 104.8 | 103.3 | 102.3 | 101.3 | 101.8 |
| 72.5° | 95.7  | 95.7  | 96.2  | 96.7  | 96.2  | 96.2  | 94.2  | 93.2  | 90.7  | 90.1  | 89.1  |
| 75°   | 87.6  | 86.6  | 86.6  | 86.1  | 85.6  | 86.1  | 84.1  | 81.5  | 80.5  | 80.0  | 79.0  |
| 77.5° | 79.5  | 77.5  | 76.4  | 75.5  | 76.0  | 75.5  | 73.9  | 72.4  | 70.9  | 70.4  | 69.9  |
| 80°   | 70.4  | 67.4  | 65.8  | 63.3  | 64.8  | 65.3  | 64.3  | 62.8  | 62.3  | 61.8  | 61.3  |
| 82.5° | 58.3  | 55.2  | 53.2  | 51.7  | 50.6  | 51.7  | 53.2  | 56.7  | 55.7  | 55.2  | 54.2  |
| 85°   | 45.6  | 40.5  | 38.0  | 38.5  | 35.9  | 36.5  | 41.0  | 43.0  | 43.0  | 44.0  | 43.0  |
| 87.5° | 25.8  | 24.8  | 18.7  | 17.2  | 18.2  | 21.8  | 24.3  | 26.8  | 26.8  | 25.3  | 28.4  |
| 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):**

|       | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 |
| 2.5°  | 818.3 | 819.4 | 819.8 | 821.9 | 822.9 | 823.4 | 823.9 | 824.9 | 825.4 | 824.9 | 827.5 |
| 5°    | 822.4 | 822.4 | 821.4 | 822.9 | 823.4 | 823.4 | 822.4 | 823.4 | 823.4 | 823.4 | 825.9 |
| 7.5°  | 833.0 | 830.0 | 828.5 | 826.4 | 824.9 | 822.9 | 820.4 | 820.4 | 819.8 | 820.4 | 821.9 |
| 10°   | 844.1 | 839.6 | 834.1 | 829.0 | 824.4 | 820.9 | 816.3 | 814.8 | 814.3 | 813.8 | 817.8 |
| 12.5° | 852.8 | 844.7 | 836.0 | 827.5 | 818.3 | 812.3 | 804.7 | 800.1 | 799.6 | 799.6 | 804.7 |
| 15°   | 846.7 | 833.5 | 816.8 | 801.6 | 793.5 | 784.9 | 776.3 | 770.8 | 770.2 | 771.2 | 774.3 |
| 17.5° | 816.3 | 795.1 | 780.4 | 765.7 | 755.0 | 748.0 | 742.4 | 741.4 | 743.4 | 741.4 | 745.4 |
| 20°   | 764.6 | 741.8 | 731.8 | 720.1 | 716.0 | 711.0 | 702.9 | 695.8 | 695.8 | 686.7 | 689.2 |
| 22.5° | 697.8 | 685.1 | 672.0 | 662.9 | 659.8 | 651.2 | 642.6 | 633.0 | 632.0 | 620.8 | 619.3 |
| 25°   | 627.9 | 615.2 | 604.6 | 602.6 | 593.5 | 581.8 | 573.7 | 562.6 | 560.1 | 548.9 | 547.4 |
| 27.5° | 556.5 | 546.4 | 535.7 | 529.7 | 524.6 | 512.0 | 504.9 | 491.7 | 486.7 | 474.5 | 473.0 |
| 30°   | 488.7 | 481.6 | 468.9 | 463.9 | 454.3 | 439.6 | 424.4 | 416.3 | 412.2 | 399.5 | 395.5 |
| 32.5° | 424.9 | 413.7 | 404.1 | 398.0 | 385.9 | 369.2 | 355.5 | 343.9 | 336.2 | 321.1 | 317.0 |
| 35°   | 364.1 | 353.0 | 348.4 | 332.7 | 322.1 | 310.9 | 292.2 | 285.1 | 271.4 | 259.8 | 255.7 |
| 37.5° | 310.4 | 299.8 | 293.7 | 280.6 | 269.9 | 258.8 | 247.6 | 238.5 | 231.9 | 229.4 | 229.4 |
| 40°   | 264.4 | 258.8 | 251.2 | 241.6 | 234.5 | 226.4 | 220.3 | 217.3 | 216.7 | 217.7 | 220.3 |
| 42.5° | 231.4 | 225.4 | 220.3 | 215.2 | 210.2 | 209.2 | 207.6 | 209.6 | 212.2 | 214.7 | 217.3 |
| 45°   | 206.6 | 201.5 | 198.5 | 196.5 | 196.0 | 197.5 | 200.5 | 203.6 | 208.1 | 211.1 | 213.2 |
| 47.5° | 188.9 | 184.9 | 183.8 | 183.3 | 185.8 | 190.4 | 194.5 | 199.0 | 202.6 | 205.6 | 207.6 |
| 50°   | 173.7 | 170.2 | 169.6 | 169.1 | 172.7 | 176.8 | 180.3 | 186.4 | 188.9 | 190.9 | 192.4 |
| 52.5° | 163.1 | 160.0 | 158.5 | 159.0 | 162.5 | 166.1 | 171.2 | 175.7 | 179.3 | 180.8 | 182.3 |
| 55°   | 154.4 | 153.4 | 149.9 | 151.4 | 155.0 | 159.5 | 164.6 | 169.6 | 173.2 | 175.7 | 178.3 |
| 57.5° | 147.8 | 145.3 | 142.8 | 145.3 | 148.9 | 153.4 | 159.5 | 164.1 | 168.6 | 172.2 | 174.7 |
| 60°   | 140.8 | 138.8 | 136.7 | 139.3 | 142.8 | 147.4 | 151.9 | 158.0 | 163.6 | 167.1 | 169.6 |
| 62.5° | 134.7 | 133.2 | 131.2 | 131.6 | 133.2 | 136.2 | 138.8 | 144.3 | 149.4 | 154.0 | 157.0 |
| 65°   | 126.1 | 125.6 | 122.5 | 123.1 | 124.1 | 127.1 | 129.1 | 134.2 | 139.3 | 143.3 | 145.9 |
| 67.5° | 113.5 | 112.4 | 112.4 | 113.9 | 114.4 | 116.0 | 117.5 | 122.5 | 126.6 | 129.7 | 132.7 |
| 70°   | 100.8 | 100.3 | 100.3 | 101.3 | 100.8 | 102.3 | 104.3 | 108.9 | 113.9 | 117.0 | 120.0 |
| 72.5° | 88.6  | 88.6  | 88.1  | 89.1  | 89.1  | 89.6  | 92.2  | 96.2  | 100.8 | 103.3 | 105.4 |
| 75°   | 78.0  | 77.5  | 77.5  | 77.5  | 78.0  | 78.0  | 80.5  | 84.1  | 88.6  | 90.1  | 93.2  |
| 77.5° | 68.3  | 68.3  | 68.3  | 68.3  | 68.9  | 68.3  | 69.9  | 72.4  | 73.9  | 76.4  | 76.4  |
| 80°   | 60.2  | 59.8  | 60.2  | 60.8  | 60.8  | 60.2  | 60.2  | 60.8  | 61.3  | 61.3  | 61.3  |
| 82.5° | 53.2  | 51.7  | 52.7  | 55.2  | 55.2  | 55.2  | 54.7  | 51.1  | 48.6  | 48.6  | 49.6  |
| 85°   | 42.5  | 42.5  | 43.0  | 46.6  | 47.1  | 45.1  | 47.1  | 42.1  | 37.0  | 35.5  | 36.5  |
| 87.5° | 26.3  | 20.8  | 25.3  | 28.9  | 28.9  | 27.4  | 30.4  | 28.4  | 23.8  | 19.3  | 18.2  |
| 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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REPORT N  
CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|       | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 0°    |
| 2.5°  | 829.5 | 830.0 | 833.0 | 834.5 | 834.5 | 836.6 | 837.6 | 840.6 | 840.1 | 840.1 | 841.1 | 2.5°  |
| 5°    | 828.5 | 830.0 | 833.0 | 835.0 | 836.0 | 838.6 | 840.6 | 844.1 | 843.7 | 844.7 | 845.2 | 5°    |
| 7.5°  | 824.9 | 829.0 | 832.0 | 836.0 | 839.6 | 841.6 | 844.1 | 847.2 | 846.2 | 846.7 | 846.2 | 7.5°  |
| 10°   | 821.9 | 825.9 | 832.0 | 837.6 | 842.6 | 845.7 | 847.2 | 850.7 | 850.3 | 851.2 | 851.2 | 10°   |
| 12.5° | 809.7 | 816.8 | 824.4 | 833.0 | 840.6 | 848.7 | 853.8 | 861.4 | 864.9 | 869.5 | 874.6 | 12.5° |
| 15°   | 778.9 | 787.0 | 799.1 | 808.7 | 823.4 | 834.5 | 849.2 | 863.9 | 877.1 | 889.7 | 904.4 | 15°   |
| 17.5° | 748.4 | 752.0 | 761.6 | 774.8 | 787.9 | 804.7 | 822.4 | 848.7 | 872.5 | 898.3 | 926.7 | 17.5° |
| 20°   | 692.2 | 698.3 | 704.9 | 720.6 | 736.3 | 760.1 | 781.9 | 816.3 | 851.2 | 891.8 | 935.3 | 20°   |
| 22.5° | 622.9 | 628.9 | 636.1 | 653.8 | 673.0 | 697.3 | 723.7 | 762.1 | 808.7 | 861.4 | 919.6 | 22.5° |
| 25°   | 547.9 | 551.5 | 557.0 | 574.7 | 586.4 | 618.3 | 650.2 | 690.2 | 740.9 | 808.7 | 876.5 | 25°   |
| 27.5° | 465.4 | 472.0 | 476.5 | 484.6 | 511.4 | 538.8 | 572.2 | 615.2 | 676.6 | 745.9 | 827.9 | 27.5° |
| 30°   | 386.4 | 391.9 | 389.4 | 406.6 | 424.4 | 453.2 | 489.2 | 536.8 | 595.5 | 678.1 | 772.7 | 30°   |
| 32.5° | 308.9 | 313.0 | 311.5 | 323.6 | 341.3 | 370.2 | 404.1 | 455.8 | 518.0 | 606.2 | 709.0 | 32.5° |
| 35°   | 254.7 | 255.7 | 261.3 | 266.9 | 282.1 | 305.3 | 334.2 | 379.3 | 443.1 | 524.1 | 633.0 | 35°   |
| 37.5° | 229.4 | 231.4 | 235.0 | 242.6 | 253.7 | 270.4 | 294.2 | 329.2 | 383.8 | 455.2 | 552.5 | 37.5° |
| 40°   | 221.8 | 223.3 | 225.4 | 230.4 | 241.0 | 255.7 | 277.0 | 306.4 | 346.4 | 406.6 | 485.6 | 40°   |
| 42.5° | 218.3 | 218.3 | 218.3 | 221.3 | 229.4 | 245.1 | 269.4 | 298.3 | 333.2 | 378.8 | 442.6 | 42.5° |
| 45°   | 213.2 | 213.2 | 212.7 | 214.2 | 219.8 | 235.5 | 261.8 | 294.2 | 331.7 | 375.2 | 430.4 | 45°   |
| 47.5° | 207.6 | 207.1 | 205.6 | 205.6 | 209.2 | 224.8 | 252.2 | 287.1 | 328.1 | 378.3 | 437.5 | 47.5° |
| 50°   | 192.4 | 192.4 | 192.4 | 193.9 | 197.0 | 211.1 | 240.5 | 277.5 | 324.6 | 380.3 | 448.7 | 50°   |
| 52.5° | 183.8 | 184.3 | 185.8 | 185.8 | 188.9 | 203.6 | 234.5 | 275.5 | 326.6 | 387.9 | 462.8 | 52.5° |
| 55°   | 179.8 | 181.3 | 182.8 | 182.8 | 185.3 | 200.5 | 232.4 | 277.0 | 334.2 | 403.6 | 487.1 | 55°   |
| 57.5° | 176.2 | 177.7 | 178.7 | 178.7 | 180.8 | 193.9 | 226.9 | 274.4 | 338.8 | 418.8 | 517.0 | 57.5° |
| 60°   | 169.6 | 170.6 | 171.2 | 171.2 | 171.7 | 182.8 | 214.2 | 262.3 | 328.7 | 417.8 | 533.2 | 60°   |
| 62.5° | 157.5 | 159.5 | 160.0 | 160.5 | 160.5 | 171.2 | 198.0 | 242.6 | 306.9 | 402.6 | 528.7 | 62.5° |
| 65°   | 148.4 | 149.4 | 150.9 | 151.9 | 154.0 | 161.0 | 182.3 | 218.8 | 278.5 | 372.2 | 503.3 | 65°   |
| 67.5° | 134.2 | 135.7 | 137.2 | 139.3 | 141.3 | 145.9 | 162.5 | 191.9 | 240.1 | 320.5 | 446.6 | 67.5° |
| 70°   | 121.6 | 122.0 | 123.5 | 126.1 | 126.6 | 129.1 | 141.3 | 161.5 | 196.5 | 257.2 | 359.5 | 70°   |
| 72.5° | 105.8 | 106.9 | 108.9 | 111.9 | 111.9 | 113.9 | 121.0 | 131.6 | 154.0 | 196.5 | 265.4 | 72.5° |
| 75°   | 92.2  | 93.2  | 94.7  | 94.7  | 92.2  | 92.7  | 97.7  | 105.4 | 122.0 | 147.8 | 193.4 | 75°   |
| 77.5° | 76.4  | 78.5  | 80.0  | 77.0  | 76.0  | 77.5  | 80.0  | 85.6  | 97.7  | 117.5 | 145.3 | 77.5° |
| 80°   | 63.3  | 64.3  | 64.8  | 65.3  | 64.3  | 65.8  | 67.9  | 71.4  | 79.5  | 94.7  | 115.0 | 80°   |
| 82.5° | 50.6  | 51.7  | 53.2  | 55.2  | 55.2  | 60.8  | 61.3  | 61.3  | 65.8  | 75.5  | 90.1  | 82.5° |
| 85°   | 37.5  | 39.5  | 41.5  | 44.0  | 44.6  | 47.6  | 46.1  | 45.6  | 47.1  | 56.2  | 62.3  | 85°   |
| 87.5° | 19.3  | 20.8  | 21.8  | 23.8  | 21.2  | 22.3  | 22.3  | 20.8  | 18.2  | 22.8  | 25.3  | 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: P158868

NUMBER: VST-E03-LED-E-U-SLL-8030

**DISTRIBUTION (continued):**

| 330°  | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 846.2 | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  | 846.2  |
| 842.2 | 841.1  | 842.2  | 842.2  | 843.7  | 842.6  | 896.3  |
| 846.2 | 845.2  | 846.2  | 847.2  | 848.7  | 848.7  | 908.0  |
| 846.7 | 846.7  | 845.7  | 848.2  | 850.3  | 852.2  | 919.1  |
| 852.8 | 852.8  | 853.8  | 854.3  | 858.8  | 863.9  | 937.3  |
| 877.6 | 880.1  | 884.7  | 886.2  | 894.3  | 899.9  | 983.9  |
| 915.5 | 929.8  | 938.9  | 941.9  | 949.0  | 959.6  | 1062.4 |
| 954.1 | 977.8  | 1002.7 | 1017.8 | 1027.0 | 1039.6 | 1158.7 |
| 982.9 | 1027.5 | 1070.0 | 1108.0 | 1129.7 | 1154.6 | 1293.4 |
| 985.4 | 1056.4 | 1128.2 | 1198.6 | 1256.9 | 1303.0 | 1475.6 |
| 961.1 | 1054.3 | 1153.6 | 1261.4 | 1361.7 | 1444.7 | 1685.3 |
| 930.2 | 1044.7 | 1171.3 | 1309.0 | 1440.7 | 1563.2 | 1839.7 |
| 891.2 | 1028.5 | 1174.3 | 1329.3 | 1483.7 | 1631.1 | 1927.9 |
| 832.0 | 980.4  | 1137.8 | 1309.0 | 1488.3 | 1667.6 | 1984.6 |
| 756.1 | 907.4  | 1069.0 | 1264.0 | 1467.0 | 1682.2 | 2032.1 |
| 678.5 | 827.9  | 1001.6 | 1203.7 | 1433.1 | 1679.7 | 2051.4 |
| 596.5 | 744.9  | 922.7  | 1139.4 | 1387.0 | 1656.4 | 2047.9 |
| 540.8 | 676.0  | 850.3  | 1074.1 | 1335.8 | 1625.5 | 2024.0 |
| 508.4 | 626.9  | 793.0  | 1014.3 | 1289.3 | 1588.6 | 1994.2 |
| 507.9 | 612.2  | 762.7  | 971.8  | 1242.2 | 1547.5 | 1953.7 |
| 525.7 | 621.4  | 759.1  | 953.5  | 1216.4 | 1517.6 | 1909.6 |
| 546.4 | 646.7  | 777.8  | 960.1  | 1215.8 | 1504.5 | 1878.7 |
| 579.3 | 689.7  | 818.8  | 988.5  | 1229.0 | 1502.5 | 1840.7 |
| 621.4 | 748.0  | 892.8  | 1058.3 | 1280.2 | 1542.5 | 1843.3 |
| 664.4 | 816.3  | 989.5  | 1177.9 | 1381.0 | 1635.7 | 1923.3 |
| 680.1 | 869.0  | 1087.7 | 1318.1 | 1531.9 | 1775.4 | 2088.4 |
| 666.4 | 881.1  | 1147.5 | 1427.0 | 1678.7 | 1939.0 | 2285.3 |
| 615.8 | 832.0  | 1123.2 | 1457.9 | 1763.3 | 2054.9 | 2482.3 |
| 506.9 | 710.0  | 1012.8 | 1388.5 | 1756.7 | 2078.8 | 2553.2 |
| 371.7 | 550.4  | 823.4  | 1179.9 | 1561.7 | 1929.8 | 2446.9 |
| 268.4 | 389.4  | 594.5  | 888.7  | 1234.6 | 1554.1 | 2052.4 |
| 192.4 | 269.9  | 385.9  | 583.9  | 841.1  | 1082.2 | 1463.0 |
| 138.2 | 183.3  | 240.5  | 350.4  | 512.5  | 664.4  | 919.1  |
| 101.8 | 125.6  | 158.0  | 217.7  | 301.8  | 386.9  | 553.5  |
| 69.4  | 73.9   | 95.2   | 128.6  | 198.0  | 284.6  | 375.7  |
| 26.3  | 29.9   | 34.9   | 52.7   | 88.6   | 101.8  | 71.9   |
| 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)