

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: P165286

Luminaire Tested: **VST-E07-LED-E-U-SL3-HSS-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165286  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-E07-LED-E-U-SL3-HSS-7030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (147) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

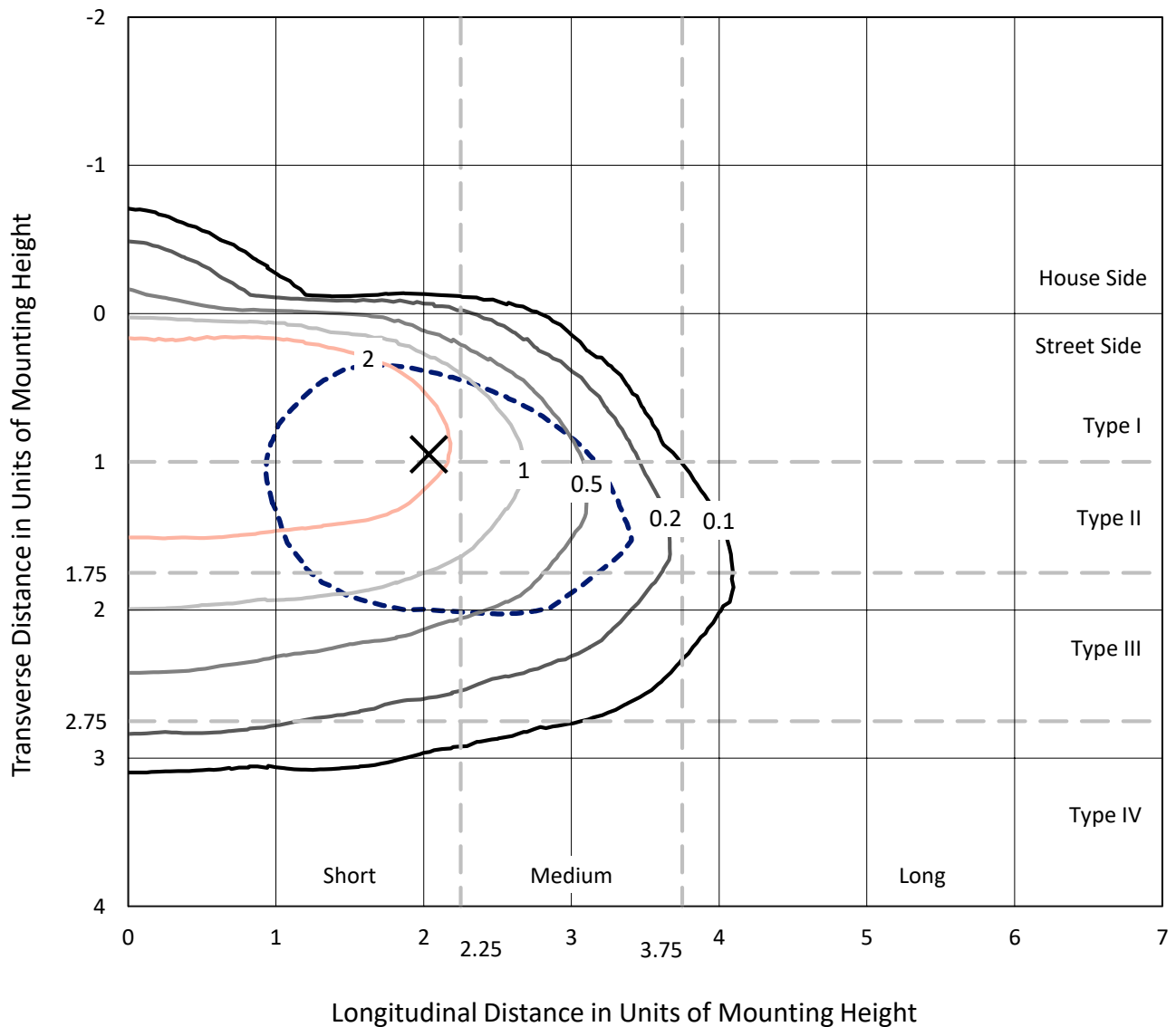
Lumens per Lamp: N/A  
Luminaire Lumens: 10952.6 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G3  
  
Input Watts (W): 172.5  
Input Voltage (V): 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

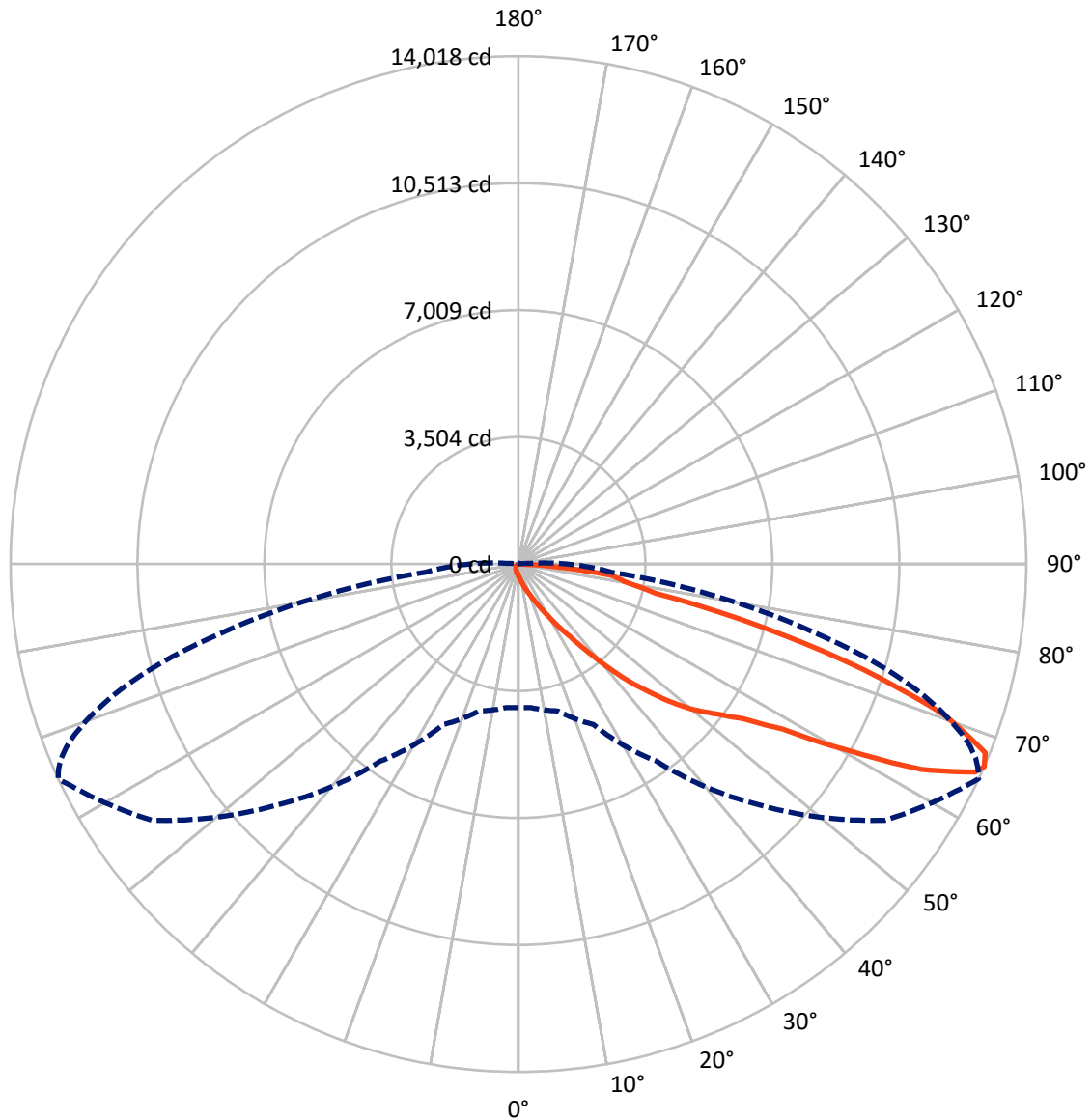
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 237.4    | 0.0    | 237.4   |
|                    | % Fixture | 2.2      | 0.0    | 2.2     |
| <b>Street Side</b> | Lumens    | 10715.3  | 0.0    | 10715.3 |
|                    | % Fixture | 97.8     | 0.0    | 97.8    |
| <b>Total</b>       | Lumens    | 10952.6  | 0.0    | 10952.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 37.0    | 0.3       |
| 10°-20°   | 156.9   | 1.4       |
| 20°-30°   | 338.5   | 3.1       |
| 30°-40°   | 722.8   | 6.6       |
| 40°-50°   | 1598.4  | 14.6      |
| 50°-60°   | 2708.8  | 24.7      |
| 60°-70°   | 3614.7  | 33.0      |
| 70°-80°   | 1592.2  | 14.5      |
| 80°-90°   | 183.4   | 1.7       |
| 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°    | 10952.6 | 100.0     |
| 0°-180°   | 10952.6 | 100.0     |



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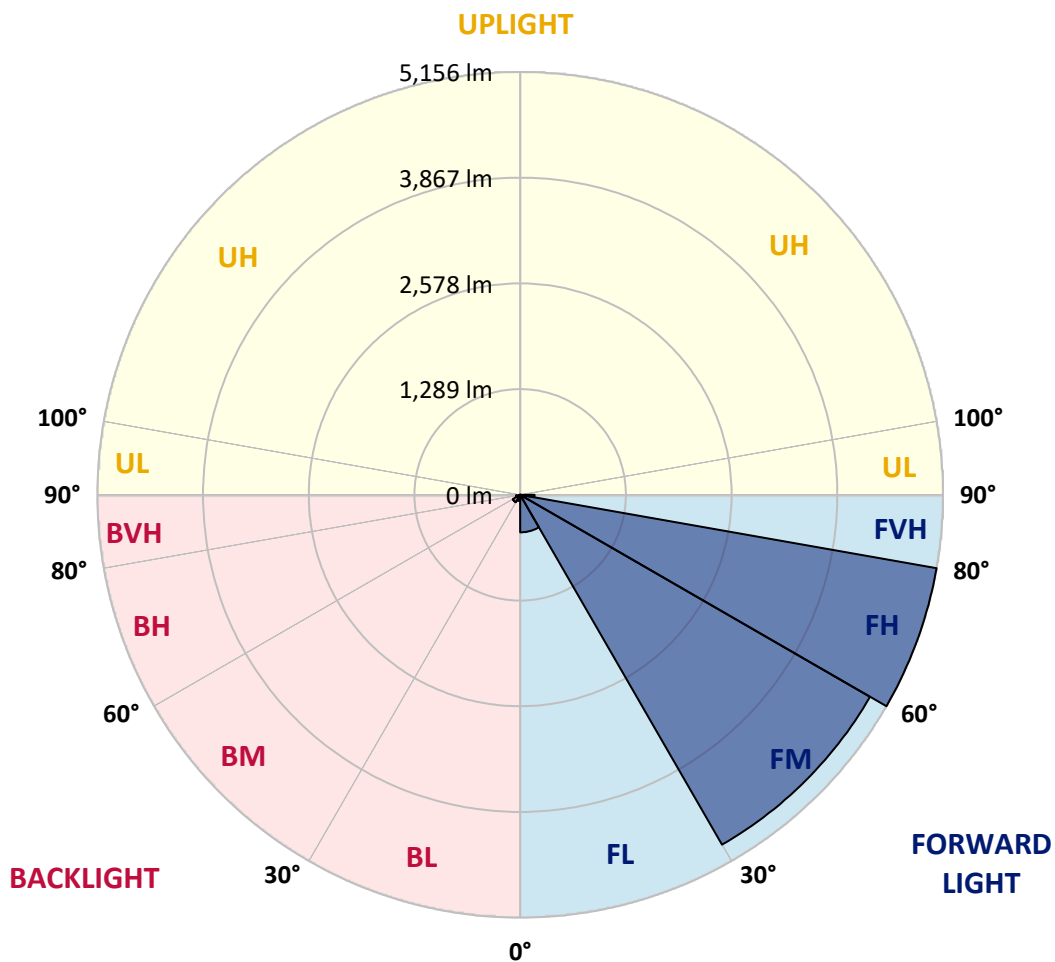
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 457.5  | 4.2       |                         |      |         |
| FM   | (30°-60°)   | 4925.7 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 5156.0 | 47.1      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 176.1  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 74.9   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 104.2  | 1.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 50.9   | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 7.3    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 66°     | 67°     | 68°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 330.5  | 330.5  | 330.5  | 330.5  | 330.5  | 330.5  | 330.5   | 330.5   | 330.5   | 330.5   | 330.5   |
| 2.5°  | 417.0  | 414.8  | 406.4  | 406.4  | 393.7  | 385.4  | 374.8   | 364.3   | 364.3   | 362.1   | 360.1   |
| 5°    | 551.6  | 539.1  | 536.9  | 513.8  | 494.9  | 467.5  | 442.2   | 408.5   | 404.3   | 400.1   | 397.9   |
| 7.5°  | 701.2  | 699.1  | 680.1  | 652.8  | 614.9  | 564.3  | 513.8   | 459.0   | 450.6   | 446.4   | 438.0   |
| 10°   | 895.0  | 884.3  | 859.2  | 812.7  | 756.0  | 688.6  | 606.5   | 520.0   | 509.6   | 501.1   | 496.9   |
| 12.5° | 1080.2 | 1061.3 | 1046.5 | 987.5  | 915.9  | 817.0  | 718.0   | 593.8   | 585.4   | 574.9   | 558.0   |
| 15°   | 1252.9 | 1236.0 | 1210.8 | 1160.3 | 1080.2 | 955.9  | 840.2   | 688.6   | 667.5   | 652.8   | 640.1   |
| 17.5° | 1387.6 | 1377.1 | 1347.6 | 1290.8 | 1204.4 | 1094.9 | 955.9   | 785.4   | 768.6   | 749.6   | 726.4   |
| 20°   | 1516.1 | 1501.3 | 1455.0 | 1377.1 | 1284.4 | 1200.2 | 1092.9  | 911.7   | 888.6   | 865.4   | 840.2   |
| 22.5° | 1638.3 | 1623.4 | 1547.7 | 1419.2 | 1320.2 | 1284.4 | 1246.6  | 1054.9  | 1019.1  | 1000.2  | 974.9   |
| 25°   | 1808.8 | 1777.3 | 1659.2 | 1455.0 | 1322.4 | 1349.8 | 1415.0  | 1240.2  | 1206.6  | 1179.2  | 1139.2  |
| 27.5° | 2038.4 | 1996.2 | 1810.9 | 1507.7 | 1330.7 | 1421.4 | 1608.7  | 1465.5  | 1429.7  | 1398.1  | 1354.0  |
| 30°   | 2297.3 | 2269.9 | 2048.8 | 1634.0 | 1391.9 | 1526.6 | 1825.6  | 1751.9  | 1709.9  | 1671.9  | 1619.3  |
| 32.5° | 2558.4 | 2520.6 | 2301.5 | 1874.0 | 1556.0 | 1730.8 | 2097.3  | 2084.6  | 2029.9  | 1994.1  | 1937.2  |
| 35°   | 2787.9 | 2769.0 | 2606.9 | 2267.8 | 1931.0 | 2088.9 | 2459.4  | 2474.1  | 2425.8  | 2387.8  | 2324.7  |
| 37.5° | 2943.8 | 2943.8 | 2912.2 | 2691.0 | 2526.8 | 2644.7 | 2992.1  | 2994.3  | 2945.8  | 2859.5  | 2828.0  |
| 40°   | 3023.7 | 3046.9 | 3160.7 | 3202.7 | 3194.3 | 3345.9 | 3691.3  | 3653.3  | 3613.3  | 3569.1  | 3463.8  |
| 42.5° | 3188.0 | 3209.0 | 3451.2 | 3741.8 | 3931.3 | 4131.3 | 4369.3  | 4356.6  | 4308.3  | 4228.2  | 4131.3  |
| 45°   | 3466.0 | 3493.4 | 3781.9 | 4243.0 | 4632.4 | 4916.8 | 5068.3  | 5009.4  | 4960.9  | 4885.2  | 4834.6  |
| 47.5° | 3819.7 | 3872.4 | 4198.7 | 4769.4 | 5238.9 | 5708.5 | 5866.4  | 5710.6  | 5668.6  | 5609.5  | 5527.4  |
| 50°   | 4196.7 | 4247.2 | 4594.6 | 5247.4 | 5778.0 | 6338.1 | 6601.4  | 6338.1  | 6277.1  | 6258.0  | 6165.5  |
| 52.5° | 4523.0 | 4565.2 | 4899.9 | 5615.9 | 6190.7 | 6847.6 | 7230.9  | 6883.4  | 6839.2  | 6776.0  | 6708.6  |
| 55°   | 4716.7 | 4750.5 | 5064.1 | 5792.7 | 6470.8 | 7306.7 | 7839.5  | 7534.2  | 7468.8  | 7443.6  | 7346.7  |
| 57.5° | 4782.0 | 4815.7 | 5097.9 | 5815.9 | 6622.3 | 7725.7 | 8578.6  | 8589.1  | 8511.2  | 8420.7  | 8391.2  |
| 60°   | 4782.0 | 4819.9 | 5057.9 | 5759.1 | 6769.8 | 8172.1 | 9564.0  | 10442.0 | 10273.6 | 10256.8 | 10149.3 |
| 62.5° | 4584.1 | 4619.9 | 4859.9 | 5584.3 | 6967.7 | 8774.4 | 10936.9 | 12486.7 | 12438.3 | 12328.7 | 12151.9 |
| 65°   | 4154.5 | 4175.6 | 4411.4 | 5137.9 | 6891.9 | 9328.2 | 12126.6 | 13846.9 | 13769.1 | 13554.2 | 13326.9 |
| 66°   | 3960.7 | 3977.6 | 4198.7 | 4883.1 | 6643.4 | 9404.0 | 12337.2 | 14017.5 | 13889.1 | 13707.9 | 13451.1 |
| 67.5° | 3680.7 | 3710.2 | 3866.0 | 4409.3 | 6047.6 | 9140.7 | 12204.6 | 13897.6 | 13785.9 | 13566.9 | 13310.0 |
| 70°   | 2457.4 | 2436.3 | 2985.9 | 3383.8 | 4607.2 | 7447.9 | 10949.6 | 12478.2 | 12480.4 | 12377.2 | 12274.0 |
| 72.5° | 1166.5 | 1179.2 | 1339.2 | 2082.5 | 3015.3 | 4975.8 | 8715.4  | 9959.8  | 10103.1 | 9917.8  | 9789.3  |
| 75°   | 838.1  | 857.0  | 953.9  | 1274.0 | 1798.2 | 2985.9 | 5649.5  | 6965.5  | 6969.8  | 6641.3  | 6348.7  |
| 77.5° | 244.2  | 254.8  | 357.9  | 785.4  | 1347.6 | 2015.1 | 3244.8  | 3872.4  | 3781.9  | 3545.9  | 3324.9  |
| 80°   | 101.0  | 101.0  | 105.2  | 250.6  | 541.1  | 1368.7 | 2269.9  | 2981.7  | 2971.2  | 2880.6  | 2750.1  |
| 82.5° | 37.8   | 40.0   | 50.5   | 103.2  | 128.5  | 336.9  | 1514.0  | 2587.9  | 2581.5  | 2453.2  | 2360.5  |
| 85°   | 4.2    | 4.2    | 12.7   | 44.2   | 48.5   | 63.2   | 303.2   | 1141.2  | 1135.0  | 1141.2  | 1000.2  |
| 87.5° | 0.0    | 0.0    | 2.0    | 4.2    | 6.3    | 8.4    | 12.7    | 44.2    | 48.5    | 46.3    | 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):**

|       | 69°     | 70°     | 71°     | 72°     | 73°     | 74°     | 75°     | 76°    | 77°    | 78°    | 79°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 330.5   | 330.5   | 330.5   | 330.5   | 330.5   | 330.5   | 330.5   | 330.5  | 330.5  | 330.5  | 330.5  |
| 2.5°  | 360.1   | 355.9   | 355.9   | 353.8   | 353.8   | 353.8   | 351.6   | 349.6  | 349.6  | 347.4  | 345.4  |
| 5°    | 393.7   | 389.5   | 387.4   | 383.2   | 381.2   | 379.0   | 374.8   | 372.7  | 368.5  | 366.3  | 364.3  |
| 7.5°  | 433.7   | 425.3   | 423.2   | 417.0   | 410.6   | 406.4   | 402.1   | 395.9  | 391.7  | 383.2  | 381.2  |
| 10°   | 484.4   | 473.8   | 465.3   | 456.9   | 450.6   | 440.1   | 433.7   | 425.3  | 417.0  | 410.6  | 404.3  |
| 12.5° | 549.6   | 534.9   | 522.2   | 513.8   | 499.1   | 486.4   | 473.8   | 467.5  | 450.6  | 442.2  | 431.7  |
| 15°   | 621.2   | 604.3   | 589.6   | 572.7   | 562.2   | 541.1   | 524.3   | 505.3  | 496.9  | 482.2  | 465.3  |
| 17.5° | 713.8   | 686.4   | 663.3   | 646.5   | 625.4   | 604.3   | 585.4   | 566.5  | 541.1  | 524.3  | 503.3  |
| 20°   | 812.7   | 789.6   | 758.0   | 728.6   | 703.3   | 678.1   | 650.6   | 625.4  | 602.3  | 574.9  | 549.6  |
| 22.5° | 939.2   | 905.4   | 867.6   | 838.1   | 804.4   | 777.1   | 739.1   | 705.5  | 667.5  | 631.7  | 602.3  |
| 25°   | 1099.2  | 1054.9  | 1019.1  | 977.0   | 937.0   | 895.0   | 848.5   | 806.5  | 758.0  | 724.4  | 673.9  |
| 27.5° | 1297.1  | 1255.0  | 1206.6  | 1151.8  | 1111.8  | 1048.7  | 987.5   | 935.0  | 878.1  | 825.4  | 768.6  |
| 30°   | 1549.8  | 1488.8  | 1438.1  | 1385.6  | 1305.5  | 1244.4  | 1172.8  | 1101.3 | 1023.3 | 970.8  | 884.3  |
| 32.5° | 1853.0  | 1787.7  | 1711.9  | 1636.1  | 1562.4  | 1476.1  | 1387.6  | 1299.1 | 1212.8 | 1116.0 | 1027.6 |
| 35°   | 2223.6  | 2145.6  | 2059.3  | 1977.2  | 1863.6  | 1770.9  | 1659.2  | 1537.1 | 1440.3 | 1328.7 | 1217.1 |
| 37.5° | 2714.3  | 2585.8  | 2509.9  | 2423.6  | 2269.9  | 2143.6  | 2019.3  | 1897.2 | 1726.6 | 1608.7 | 1450.8 |
| 40°   | 3329.1  | 3253.2  | 3129.1  | 2990.1  | 2851.1  | 2684.7  | 2516.3  | 2354.2 | 2156.3 | 1991.9 | 1808.8 |
| 42.5° | 4051.3  | 3939.8  | 3813.4  | 3613.3  | 3472.3  | 3276.4  | 3084.8  | 2870.0 | 2627.8 | 2417.4 | 2202.5 |
| 45°   | 4729.4  | 4596.8  | 4499.8  | 4299.9  | 4152.4  | 3920.7  | 3689.1  | 3461.8 | 3181.6 | 2910.0 | 2661.6 |
| 47.5° | 5462.2  | 5352.6  | 5192.6  | 5030.5  | 4881.0  | 4619.9  | 4369.3  | 4093.5 | 3798.6 | 3476.5 | 3154.3 |
| 50°   | 6106.5  | 6020.2  | 5910.6  | 5714.9  | 5548.5  | 5329.5  | 5034.7  | 4733.6 | 4360.8 | 4040.8 | 3674.4 |
| 52.5° | 6653.9  | 6586.5  | 6432.8  | 6293.8  | 6144.4  | 5938.0  | 5674.8  | 5386.4 | 4984.2 | 4632.4 | 4215.6 |
| 55°   | 7300.4  | 7252.0  | 7117.2  | 7030.9  | 6898.3  | 6700.3  | 6453.9  | 6186.6 | 5761.1 | 5377.9 | 4906.2 |
| 57.5° | 8359.6  | 8321.7  | 8203.7  | 8167.9  | 8037.3  | 7864.7  | 7561.5  | 7275.1 | 6778.2 | 6302.3 | 5763.3 |
| 60°   | 10113.5 | 10037.8 | 9865.1  | 9776.7  | 9500.8  | 9269.2  | 8875.5  | 8481.7 | 7881.6 | 7275.1 | 6626.6 |
| 62.5° | 11991.8 | 11779.2 | 11450.7 | 11168.6 | 10776.9 | 10374.7 | 9848.2  | 9246.1 | 8542.8 | 7822.6 | 7077.2 |
| 65°   | 13004.7 | 12642.5 | 12227.7 | 11779.2 | 11271.8 | 10680.0 | 10016.7 | 9294.5 | 8538.6 | 7778.4 | 6990.9 |
| 66°   | 13120.5 | 12712.0 | 12272.0 | 11772.9 | 11208.6 | 10579.0 | 9905.1  | 9147.1 | 8361.6 | 7620.5 | 6832.9 |
| 67.5° | 12975.3 | 12547.8 | 12082.5 | 11528.7 | 10918.0 | 10265.2 | 9557.7  | 8770.2 | 8014.2 | 7262.5 | 6496.0 |
| 70°   | 11958.2 | 11532.8 | 11118.0 | 10534.7 | 9884.0  | 9227.2  | 8557.5  | 7677.4 | 6961.4 | 6270.7 | 5588.5 |
| 72.5° | 9549.3  | 9260.8  | 8850.2  | 8351.1  | 7717.3  | 6946.6  | 6388.6  | 5601.2 | 4980.0 | 4310.3 | 3781.9 |
| 75°   | 5967.5  | 5561.2  | 5053.6  | 4417.7  | 3933.4  | 3308.0  | 2981.7  | 2383.6 | 2029.9 | 1720.4 | 1421.4 |
| 77.5° | 3051.1  | 2745.9  | 2390.0  | 2032.0  | 1688.8  | 1347.6  | 1042.3  | 737.0  | 496.9  | 345.4  | 256.9  |
| 80°   | 2520.6  | 2251.0  | 1956.1  | 1629.8  | 1326.6  | 1029.7  | 741.3   | 505.3  | 322.2  | 210.6  | 164.2  |
| 82.5° | 2082.5  | 1855.1  | 1591.8  | 1288.7  | 1025.5  | 808.6   | 562.2   | 366.3  | 227.4  | 147.4  | 115.8  |
| 85°   | 886.5   | 804.4   | 621.2   | 492.7   | 370.6   | 273.8   | 191.7   | 128.5  | 90.5   | 73.7   | 67.4   |
| 87.5° | 37.8    | 42.1    | 40.0    | 31.6    | 23.1    | 23.1    | 21.1    | 16.9   | 16.9   | 16.9   | 16.9   |
| 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):**

|       | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 95°   | 105°  | 115°  | 125°  | 135°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0°    | 330.5  | 330.5  | 330.5  | 330.5  | 330.5  | 330.5  | 330.5 | 330.5 | 330.5 | 330.5 | 330.5 |
| 2.5°  | 345.4  | 343.2  | 341.2  | 341.2  | 339.0  | 336.9  | 324.3 | 313.8 | 301.1 | 292.7 | 284.3 |
| 5°    | 360.1  | 357.9  | 353.8  | 351.6  | 347.4  | 345.4  | 318.0 | 294.7 | 275.8 | 261.1 | 250.6 |
| 7.5°  | 374.8  | 372.7  | 366.3  | 360.1  | 357.9  | 353.8  | 309.6 | 280.0 | 254.8 | 238.0 | 227.4 |
| 10°   | 393.7  | 387.4  | 381.2  | 372.7  | 366.3  | 360.1  | 301.1 | 263.2 | 235.8 | 221.1 | 210.6 |
| 12.5° | 421.1  | 410.6  | 400.1  | 389.5  | 381.2  | 370.6  | 296.9 | 248.4 | 221.1 | 204.2 | 193.7 |
| 15°   | 452.8  | 438.0  | 425.3  | 412.8  | 397.9  | 387.4  | 288.5 | 235.8 | 208.4 | 191.7 | 179.0 |
| 17.5° | 482.2  | 465.3  | 446.4  | 427.5  | 412.8  | 397.9  | 280.0 | 223.3 | 195.8 | 179.0 | 166.4 |
| 20°   | 524.3  | 499.1  | 475.9  | 452.8  | 431.7  | 412.8  | 267.4 | 210.6 | 185.3 | 166.4 | 153.7 |
| 22.5° | 570.7  | 541.1  | 511.7  | 480.1  | 452.8  | 427.5  | 256.9 | 200.0 | 174.8 | 155.9 | 141.0 |
| 25°   | 629.6  | 593.8  | 553.8  | 513.8  | 482.2  | 448.6  | 246.4 | 189.5 | 164.2 | 145.3 | 130.6 |
| 27.5° | 711.7  | 661.2  | 617.0  | 566.5  | 518.0  | 480.1  | 238.0 | 181.1 | 153.7 | 134.8 | 120.1 |
| 30°   | 823.3  | 749.6  | 680.1  | 625.4  | 568.5  | 513.8  | 229.5 | 170.6 | 145.3 | 124.3 | 107.4 |
| 32.5° | 947.5  | 861.2  | 781.2  | 699.1  | 627.5  | 564.3  | 221.1 | 162.1 | 134.8 | 113.7 | 99.0  |
| 35°   | 1101.3 | 991.8  | 884.3  | 789.6  | 703.3  | 619.0  | 212.6 | 153.7 | 126.3 | 103.2 | 88.5  |
| 37.5° | 1322.4 | 1185.5 | 1044.4 | 922.3  | 810.7  | 699.1  | 206.4 | 145.3 | 115.8 | 92.7  | 77.9  |
| 40°   | 1625.6 | 1448.8 | 1276.0 | 1109.6 | 964.4  | 825.4  | 197.9 | 136.8 | 107.4 | 84.3  | 69.4  |
| 42.5° | 1954.1 | 1739.3 | 1511.9 | 1324.5 | 1124.5 | 949.7  | 189.5 | 128.5 | 99.0  | 75.8  | 61.1  |
| 45°   | 2362.6 | 2095.1 | 1819.3 | 1564.5 | 1320.2 | 1094.9 | 181.1 | 120.1 | 88.5  | 67.4  | 52.7  |
| 47.5° | 2809.0 | 2467.9 | 2156.3 | 1836.2 | 1545.6 | 1276.0 | 170.6 | 113.7 | 80.0  | 58.9  | 46.3  |
| 50°   | 3268.1 | 2908.0 | 2514.2 | 2149.9 | 1804.6 | 1457.2 | 160.1 | 103.2 | 71.6  | 52.7  | 37.8  |
| 52.5° | 3762.8 | 3337.5 | 2935.4 | 2482.6 | 2080.4 | 1695.0 | 149.5 | 94.8  | 65.2  | 46.3  | 31.6  |
| 55°   | 4392.4 | 3916.6 | 3444.9 | 2937.4 | 2453.2 | 1971.0 | 139.0 | 84.3  | 56.9  | 40.0  | 25.3  |
| 57.5° | 5184.2 | 4619.9 | 4040.8 | 3468.1 | 2880.6 | 2333.1 | 130.6 | 73.7  | 48.5  | 33.6  | 21.1  |
| 60°   | 5931.7 | 5272.7 | 4571.4 | 3912.4 | 3249.0 | 2611.1 | 117.9 | 65.2  | 42.1  | 27.4  | 21.1  |
| 62.5° | 6319.2 | 5567.4 | 4811.5 | 4085.0 | 3377.5 | 2710.1 | 105.2 | 54.7  | 35.8  | 23.1  | 18.9  |
| 65°   | 6224.4 | 5458.0 | 4725.1 | 3992.3 | 3299.7 | 2646.9 | 92.7  | 48.5  | 31.6  | 21.1  | 18.9  |
| 66°   | 6087.6 | 5329.5 | 4592.5 | 3895.5 | 3234.3 | 2579.5 | 86.3  | 46.3  | 29.5  | 21.1  | 16.9  |
| 67.5° | 5788.5 | 5055.7 | 4352.4 | 3703.9 | 3055.3 | 2451.0 | 77.9  | 42.1  | 27.4  | 18.9  | 16.9  |
| 70°   | 4944.2 | 4278.8 | 3716.5 | 3139.6 | 2611.1 | 2065.7 | 63.2  | 35.8  | 23.1  | 16.9  | 16.9  |
| 72.5° | 3272.2 | 2819.5 | 2444.7 | 2103.6 | 1758.2 | 1364.5 | 52.7  | 29.5  | 18.9  | 16.9  | 14.7  |
| 75°   | 1233.9 | 1116.0 | 958.1  | 861.2  | 751.7  | 659.0  | 42.1  | 18.9  | 14.7  | 14.7  | 14.7  |
| 77.5° | 219.0  | 202.2  | 179.0  | 164.2  | 151.7  | 139.0  | 33.6  | 12.7  | 12.7  | 14.7  | 14.7  |
| 80°   | 147.4  | 136.8  | 124.3  | 113.7  | 105.2  | 94.8   | 23.1  | 10.5  | 12.7  | 12.7  | 14.7  |
| 82.5° | 105.2  | 99.0   | 92.7   | 84.3   | 77.9   | 69.4   | 14.7  | 10.5  | 12.7  | 12.7  | 12.7  |
| 85°   | 63.2   | 58.9   | 54.7   | 50.5   | 44.2   | 42.1   | 10.5  | 10.5  | 10.5  | 12.7  | 12.7  |
| 87.5° | 16.9   | 14.7   | 16.9   | 16.9   | 12.7   | 14.7   | 8.4   | 8.4   | 8.4   | 10.5  | 10.5  |
| 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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|       | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|
| 0°    | 330.5 | 330.5 | 330.5 | 330.5 | 330.5 |
| 2.5°  | 280.0 | 280.0 | 275.8 | 282.2 | 282.2 |
| 5°    | 242.2 | 242.2 | 240.0 | 242.2 | 242.2 |
| 7.5°  | 221.1 | 219.0 | 219.0 | 219.0 | 221.1 |
| 10°   | 202.2 | 200.0 | 200.0 | 200.0 | 200.0 |
| 12.5° | 185.3 | 183.2 | 181.1 | 183.2 | 183.2 |
| 15°   | 170.6 | 166.4 | 166.4 | 166.4 | 166.4 |
| 17.5° | 157.9 | 153.7 | 151.7 | 151.7 | 151.7 |
| 20°   | 145.3 | 139.0 | 139.0 | 139.0 | 139.0 |
| 22.5° | 132.6 | 126.3 | 126.3 | 126.3 | 126.3 |
| 25°   | 120.1 | 113.7 | 113.7 | 113.7 | 113.7 |
| 27.5° | 109.5 | 103.2 | 103.2 | 103.2 | 103.2 |
| 30°   | 96.9  | 92.7  | 92.7  | 94.8  | 92.7  |
| 32.5° | 88.5  | 82.1  | 82.1  | 84.3  | 84.3  |
| 35°   | 77.9  | 73.7  | 73.7  | 73.7  | 73.7  |
| 37.5° | 67.4  | 63.2  | 63.2  | 63.2  | 63.2  |
| 40°   | 58.9  | 54.7  | 52.7  | 54.7  | 54.7  |
| 42.5° | 50.5  | 46.3  | 44.2  | 44.2  | 44.2  |
| 45°   | 44.2  | 37.8  | 35.8  | 37.8  | 37.8  |
| 47.5° | 35.8  | 31.6  | 31.6  | 33.6  | 33.6  |
| 50°   | 27.4  | 27.4  | 29.5  | 33.6  | 33.6  |
| 52.5° | 25.3  | 25.3  | 29.5  | 33.6  | 33.6  |
| 55°   | 23.1  | 25.3  | 29.5  | 31.6  | 33.6  |
| 57.5° | 21.1  | 25.3  | 29.5  | 31.6  | 31.6  |
| 60°   | 21.1  | 23.1  | 27.4  | 31.6  | 31.6  |
| 62.5° | 18.9  | 21.1  | 25.3  | 29.5  | 29.5  |
| 65°   | 18.9  | 21.1  | 25.3  | 29.5  | 29.5  |
| 66°   | 18.9  | 21.1  | 25.3  | 29.5  | 29.5  |
| 67.5° | 18.9  | 21.1  | 25.3  | 29.5  | 29.5  |
| 70°   | 18.9  | 21.1  | 25.3  | 27.4  | 27.4  |
| 72.5° | 16.9  | 18.9  | 23.1  | 27.4  | 27.4  |
| 75°   | 16.9  | 18.9  | 23.1  | 27.4  | 27.4  |
| 77.5° | 16.9  | 18.9  | 23.1  | 27.4  | 27.4  |
| 80°   | 16.9  | 18.9  | 23.1  | 25.3  | 27.4  |
| 82.5° | 14.7  | 18.9  | 21.1  | 25.3  | 25.3  |
| 85°   | 14.7  | 16.9  | 21.1  | 23.1  | 25.3  |
| 87.5° | 12.7  | 14.7  | 16.9  | 21.1  | 21.1  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)