

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: P165544

Luminaire Tested: **VST-F10-LED-E-U-SL4-HSS-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165544  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-F10-LED-E-U-SL4-HSS-7060  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (70) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17030.4 lumens  
Efficiency: N/A  
Efficacy: 65.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G4  
  
Input Watts (W): 258.7  
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



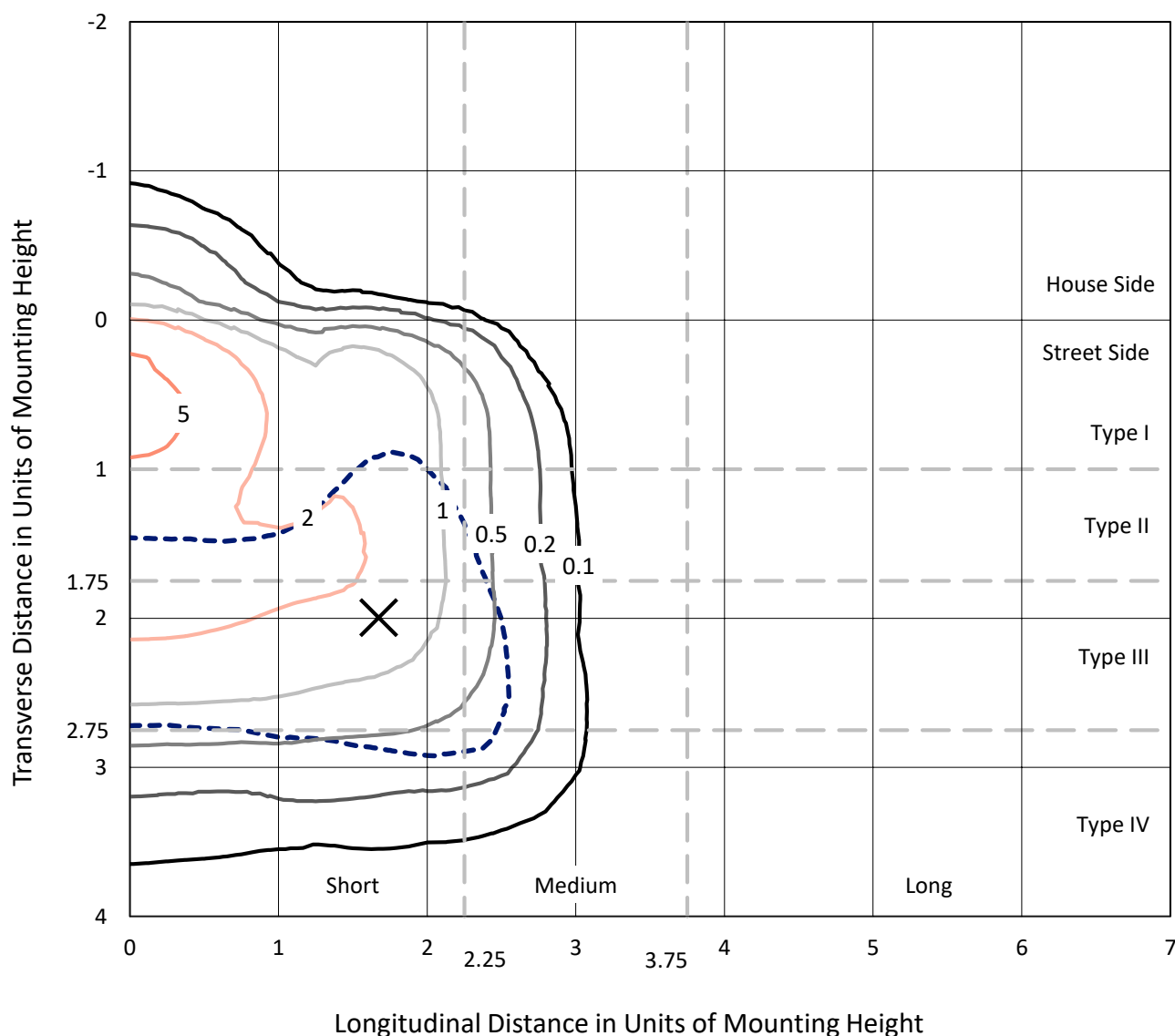
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

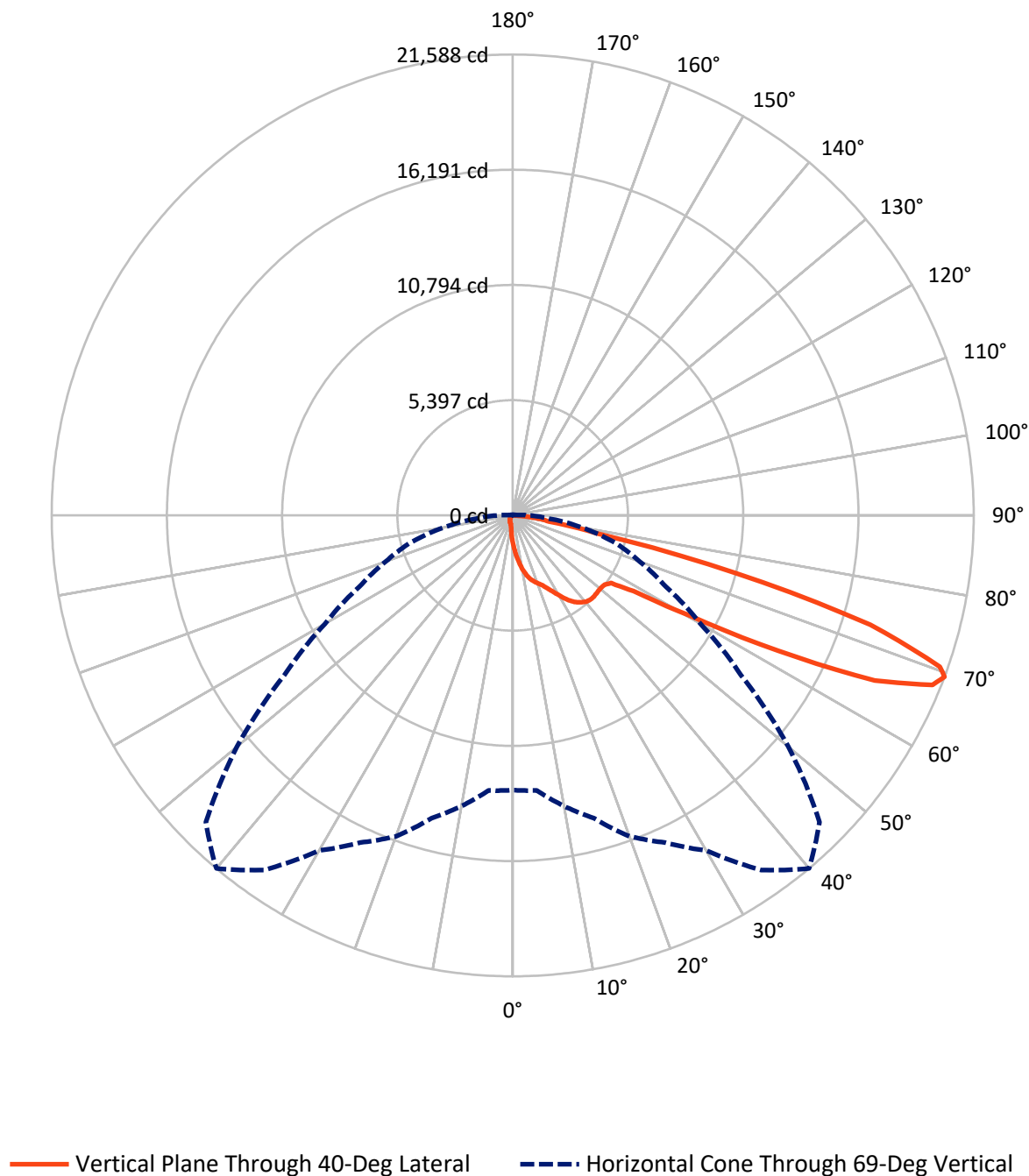


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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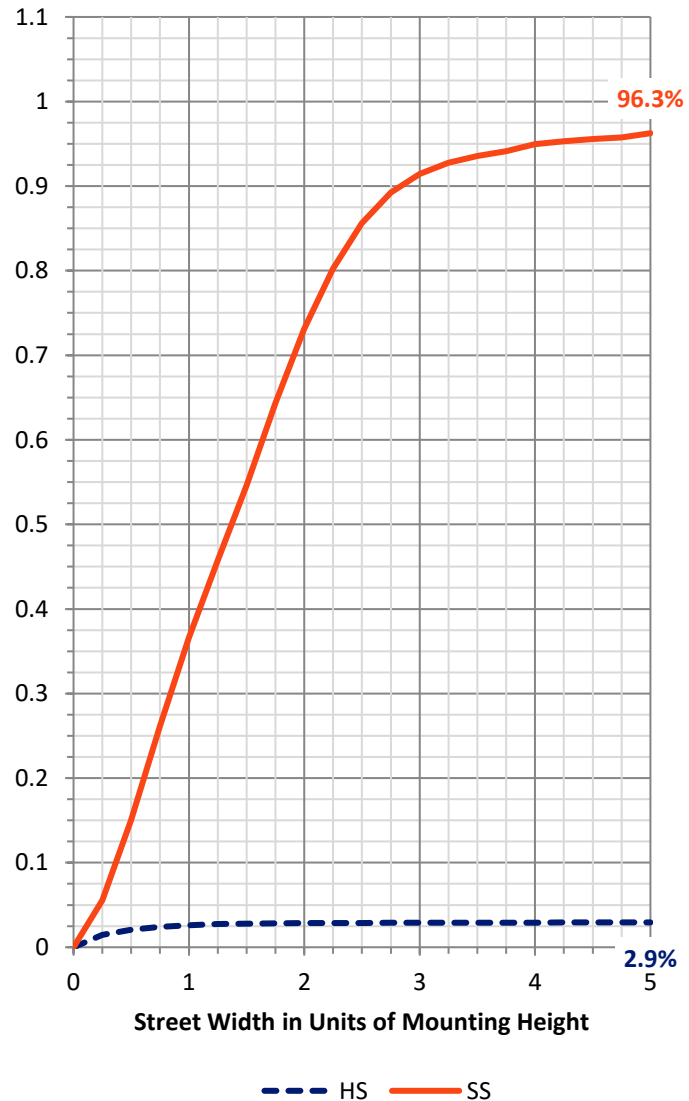
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 507.2    | 0.0    | 507.2   |
|                    | % Fixture | 3.0      | 0.0    | 3.0     |
| <b>Street Side</b> | Lumens    | 16523.2  | 0.0    | 16523.2 |
|                    | % Fixture | 97.0     | 0.0    | 97.0    |
| <b>Total</b>       | Lumens    | 17030.4  | 0.0    | 17030.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 132.2   | 0.8       |
| 10°-20°   | 455.8   | 2.7       |
| 20°-30°   | 872.3   | 5.1       |
| 30°-40°   | 1450.7  | 8.5       |
| 40°-50°   | 1963.0  | 11.5      |
| 50°-60°   | 3070.0  | 18.0      |
| 60°-70°   | 6311.8  | 37.1      |
| 70°-80°   | 2539.8  | 14.9      |
| 80°-90°   | 234.9   | 1.4       |
| 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°    | 17030.4 | 100.0     |
| 0°-180°   | 17030.4 | 100.0     |

**Coefficient of Utilization**



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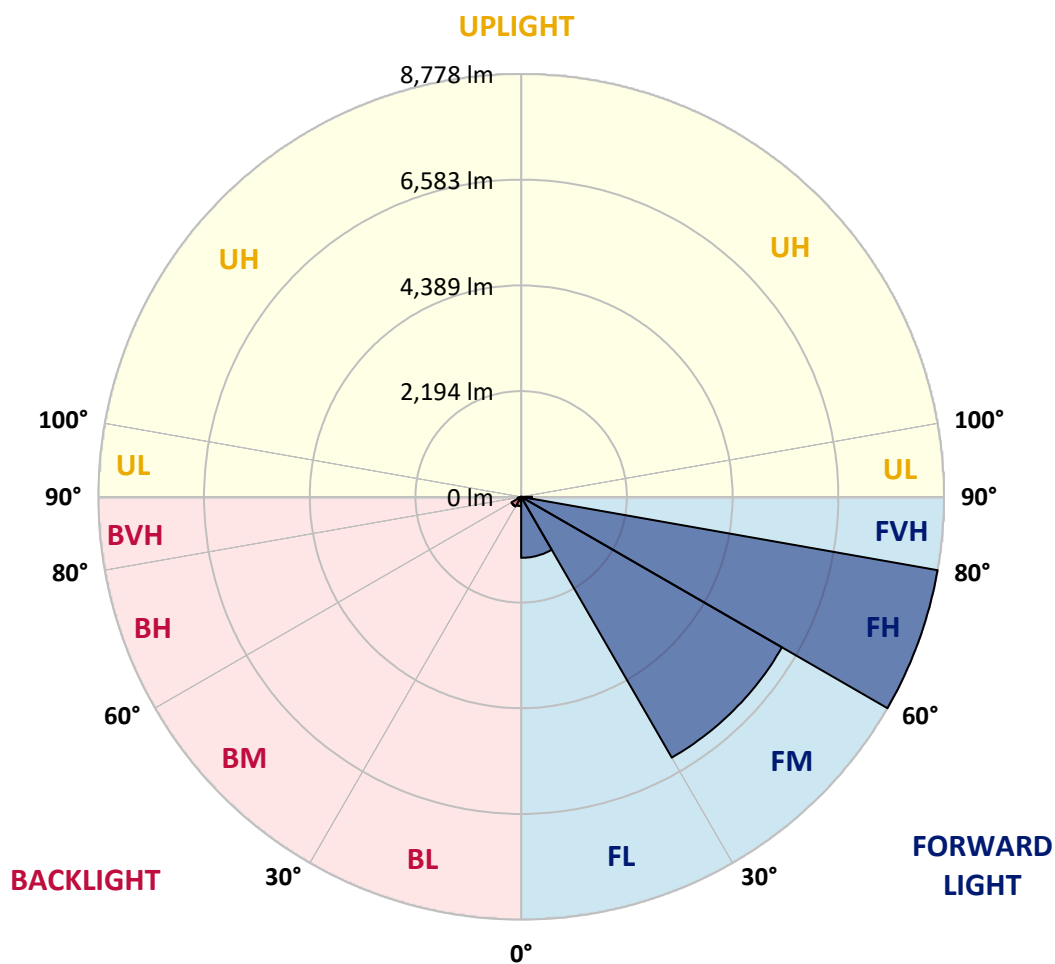
CATALOG NUMBER: VST-F10-LED-E-U-SL4-HSS-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1267.4 | 7.4       |                         |      |          |
| FM   | (30°-60°)   | 6252.1 | 36.7      |                         |      |          |
| FH   | (60°-80°)   | 8777.5 | 51.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 226.2  | 1.3       |                         |      | G3/500   |
| BL   | (0°-30°)    | 192.9  | 1.1       | B1/500                  |      |          |
| BM   | (30°-60°)   | 231.6  | 1.4       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 74.0   | 0.4       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 8.7    | 0.1       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B1-U0-G4**

Type IV Short





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CATALOG NUMBER: VST-F10-LED-E-U-SL4-HSS-7060

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1286.2  | 1286.2  | 1286.2  | 1286.2  | 1286.2  | 1286.2  | 1286.2  | 1286.2  | 1286.2  | 1286.2  | 1286.2  |
| 2.5°  | 1715.8  | 1696.2  | 1673.8  | 1673.8  | 1646.0  | 1646.0  | 1629.3  | 1584.7  | 1579.1  | 1553.9  | 1528.8  |
| 5°    | 2190.0  | 2173.3  | 2145.5  | 2120.2  | 2098.0  | 2058.9  | 2030.9  | 1977.9  | 1919.5  | 1863.6  | 1813.4  |
| 7.5°  | 2653.2  | 2644.7  | 2594.6  | 2586.1  | 2549.9  | 2485.8  | 2429.9  | 2351.8  | 2251.4  | 2173.3  | 2081.3  |
| 10°   | 3082.8  | 3063.2  | 3052.0  | 3004.6  | 2951.7  | 2881.9  | 2795.3  | 2700.6  | 2583.4  | 2460.6  | 2329.5  |
| 12.5° | 3423.2  | 3412.0  | 3361.7  | 3342.2  | 3286.5  | 3216.7  | 3107.9  | 2985.1  | 2868.0  | 2708.9  | 2555.5  |
| 15°   | 3677.0  | 3657.5  | 3624.0  | 3593.3  | 3526.4  | 3465.0  | 3364.6  | 3230.6  | 3088.4  | 2915.5  | 2731.3  |
| 17.5° | 3889.1  | 3852.8  | 3844.4  | 3796.9  | 3727.3  | 3654.6  | 3543.1  | 3420.3  | 3252.9  | 3080.0  | 2879.0  |
| 20°   | 4173.5  | 4123.4  | 4106.6  | 4036.8  | 3956.0  | 3855.5  | 3727.3  | 3573.8  | 3398.0  | 3208.4  | 3001.9  |
| 22.5° | 4508.3  | 4472.1  | 4435.8  | 4374.5  | 4271.3  | 4129.0  | 3942.1  | 3774.7  | 3551.4  | 3342.2  | 3119.1  |
| 25°   | 4982.7  | 4952.0  | 4893.4  | 4809.7  | 4681.3  | 4511.2  | 4285.2  | 4039.7  | 3777.4  | 3509.6  | 3247.3  |
| 27.5° | 5443.0  | 5415.0  | 5373.2  | 5309.1  | 5163.9  | 4977.1  | 4698.1  | 4385.6  | 4053.6  | 3730.0  | 3439.8  |
| 30°   | 5875.5  | 5850.2  | 5808.4  | 5744.4  | 5615.9  | 5431.8  | 5116.5  | 4781.7  | 4368.9  | 3992.3  | 3643.6  |
| 32.5° | 6341.4  | 6332.9  | 6285.5  | 6193.5  | 6081.8  | 5833.6  | 5490.4  | 5130.6  | 4712.1  | 4276.9  | 3869.4  |
| 35°   | 6868.6  | 6804.4  | 6759.8  | 6667.7  | 6478.1  | 6213.0  | 5811.3  | 5417.9  | 4977.1  | 4530.7  | 4076.0  |
| 37.5° | 7315.0  | 7253.7  | 7197.8  | 7080.7  | 6849.1  | 6511.5  | 6056.8  | 5624.2  | 5169.5  | 4714.8  | 4251.6  |
| 40°   | 7641.3  | 7610.6  | 7543.7  | 7390.2  | 7130.9  | 6729.2  | 6238.0  | 5766.6  | 5309.1  | 4851.5  | 4394.0  |
| 42.5° | 7884.1  | 7836.6  | 7761.4  | 7602.3  | 7295.5  | 6837.9  | 6310.5  | 5825.2  | 5373.2  | 4935.2  | 4486.1  |
| 45°   | 7973.4  | 7934.4  | 7864.6  | 7691.6  | 7359.6  | 6868.6  | 6307.8  | 5808.4  | 5376.1  | 4960.3  | 4547.4  |
| 47.5° | 7920.3  | 7881.4  | 7819.9  | 7658.1  | 7331.8  | 6832.3  | 6257.7  | 5761.0  | 5348.1  | 4968.8  | 4603.2  |
| 50°   | 7744.6  | 7722.3  | 7674.8  | 7538.1  | 7245.2  | 6762.5  | 6213.0  | 5735.9  | 5342.5  | 5010.6  | 4681.3  |
| 52.5° | 7727.9  | 7714.0  | 7655.4  | 7518.6  | 7220.1  | 6740.2  | 6207.4  | 5749.9  | 5389.9  | 5063.6  | 4737.2  |
| 55°   | 9443.5  | 9245.5  | 8802.0  | 8425.4  | 7806.0  | 7069.5  | 6489.1  | 5975.8  | 5590.9  | 5272.9  | 5044.0  |
| 57.5° | 13421.9 | 13126.3 | 12543.2 | 11826.2 | 10403.3 | 9005.6  | 7887.0  | 7077.8  | 6678.9  | 6533.8  | 6620.2  |
| 60°   | 15285.5 | 15232.6 | 15140.5 | 14800.1 | 14072.0 | 12869.6 | 11530.4 | 10082.6 | 9502.2  | 9452.0  | 9627.7  |
| 62.5° | 16170.0 | 16136.5 | 16164.4 | 16122.6 | 15896.6 | 15545.0 | 15159.9 | 14535.1 | 13960.3 | 13589.3 | 12802.5 |
| 65°   | 16577.3 | 16599.6 | 16758.5 | 16884.1 | 16912.0 | 17004.0 | 17285.9 | 18064.2 | 18633.3 | 17676.4 | 15492.0 |
| 67.5° | 15542.1 | 15673.3 | 16038.9 | 16496.3 | 17032.0 | 17550.9 | 18387.8 | 20028.3 | 21197.2 | 20073.0 | 16970.7 |
| 69°   | 12866.7 | 12930.9 | 13823.6 | 14685.7 | 15994.1 | 16909.3 | 18122.8 | 20273.7 | 21587.9 | 20318.5 | 16853.4 |
| 70°   | 10129.8 | 10188.5 | 11145.5 | 12317.2 | 14529.5 | 15706.8 | 17294.2 | 19858.2 | 21222.3 | 19992.0 | 16250.8 |
| 72.5° | 4569.8  | 4486.1  | 4823.6  | 5451.3  | 7856.1  | 9725.4  | 12501.3 | 16089.0 | 17509.1 | 16016.5 | 12158.1 |
| 75°   | 3191.6  | 3155.4  | 3191.6  | 3194.3  | 3568.2  | 4603.2  | 5808.4  | 8721.0  | 10785.5 | 9307.0  | 5808.4  |
| 77.5° | 2471.8  | 2446.7  | 2421.6  | 2393.7  | 2438.4  | 2731.3  | 2848.4  | 3093.9  | 4017.3  | 3799.8  | 2215.1  |
| 80°   | 1955.7  | 1933.4  | 1994.7  | 1975.2  | 1975.2  | 2008.8  | 1986.4  | 1894.2  | 1721.3  | 1595.7  | 1428.3  |
| 82.5° | 909.4   | 915.0   | 915.0   | 993.1   | 1196.9  | 1397.7  | 1461.9  | 1369.9  | 1216.4  | 1035.0  | 834.2   |
| 85°   | 86.4    | 97.6    | 164.7   | 254.0   | 505.0   | 569.1   | 571.9   | 474.2   | 474.2   | 373.9   | 301.2   |
| 87.5° | 0.0     | 2.7     | 2.7     | 2.7     | 25.1    | 69.8    | 58.6    | 16.8    | 8.3     | 8.3     | 13.9    |
| 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):**

|       | 55°     | 60°     | 65°     | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1286.2  | 1286.2  | 1286.2  | 1286.2 | 1286.2 | 1286.2 | 1286.2 | 1286.2 | 1286.2 | 1286.2 | 1286.2 |
| 2.5°  | 1484.2  | 1475.8  | 1442.4  | 1408.9 | 1378.2 | 1344.6 | 1314.0 | 1283.3 | 1249.8 | 1224.7 | 1194.0 |
| 5°    | 1735.3  | 1673.8  | 1604.2  | 1537.3 | 1470.2 | 1400.6 | 1328.0 | 1263.8 | 1196.9 | 1135.4 | 1076.8 |
| 7.5°  | 1989.1  | 1869.2  | 1774.3  | 1654.3 | 1545.6 | 1436.8 | 1336.3 | 1233.2 | 1138.3 | 1049.0 | 965.3  |
| 10°   | 2203.9  | 2058.9  | 1911.0  | 1757.7 | 1601.3 | 1456.3 | 1316.9 | 1194.0 | 1068.5 | 959.7  | 856.6  |
| 12.5° | 2379.8  | 2195.6  | 2014.3  | 1821.7 | 1646.0 | 1461.9 | 1288.9 | 1141.0 | 993.1  | 870.5  | 764.4  |
| 15°   | 2538.7  | 2326.7  | 2109.0  | 1885.9 | 1662.8 | 1453.6 | 1261.0 | 1076.8 | 926.2  | 786.8  | 666.8  |
| 17.5° | 2667.1  | 2424.3  | 2178.8  | 1927.8 | 1687.9 | 1442.4 | 1224.7 | 1032.2 | 856.6  | 711.4  | 594.3  |
| 20°   | 2778.7  | 2524.8  | 2259.8  | 1977.9 | 1704.7 | 1439.5 | 1194.0 | 976.5  | 795.1  | 641.7  | 527.2  |
| 22.5° | 2881.9  | 2628.0  | 2343.5  | 2042.1 | 1729.7 | 1436.8 | 1166.1 | 934.7  | 742.0  | 588.7  | 474.2  |
| 25°   | 2999.2  | 2731.3  | 2432.8  | 2109.0 | 1774.3 | 1448.0 | 1149.5 | 901.1  | 694.6  | 538.4  | 432.3  |
| 27.5° | 3130.3  | 2848.4  | 2538.7  | 2192.7 | 1832.9 | 1470.2 | 1143.9 | 864.9  | 652.8  | 491.0  | 399.0  |
| 30°   | 3314.3  | 2988.0  | 2644.7  | 2276.4 | 1885.9 | 1495.4 | 1138.3 | 842.5  | 610.9  | 454.7  | 365.4  |
| 32.5° | 3476.2  | 3124.7  | 2762.0  | 2363.0 | 1944.5 | 1520.5 | 1135.4 | 811.8  | 571.9  | 418.5  | 340.4  |
| 35°   | 3646.3  | 3250.2  | 2862.4  | 2446.7 | 1994.7 | 1548.3 | 1132.7 | 789.5  | 535.7  | 382.2  | 315.3  |
| 37.5° | 3794.2  | 3356.1  | 2940.5  | 2519.2 | 2050.6 | 1573.5 | 1135.4 | 770.0  | 502.1  | 351.5  | 292.9  |
| 40°   | 3919.8  | 3465.0  | 3026.9  | 2586.1 | 2109.0 | 1612.5 | 1138.3 | 750.5  | 468.8  | 323.6  | 273.4  |
| 42.5° | 4031.4  | 3568.2  | 3119.1  | 2661.5 | 2176.1 | 1657.2 | 1155.1 | 733.7  | 440.8  | 298.5  | 254.0  |
| 45°   | 4117.8  | 3663.1  | 3219.4  | 2767.6 | 2284.9 | 1729.7 | 1185.7 | 722.6  | 412.9  | 276.1  | 237.2  |
| 47.5° | 4207.1  | 3802.5  | 3389.7  | 2934.9 | 2444.0 | 1844.1 | 1238.8 | 719.8  | 390.5  | 259.4  | 223.1  |
| 50°   | 4329.9  | 3942.1  | 3540.3  | 3105.0 | 2589.0 | 1961.3 | 1302.8 | 722.6  | 362.7  | 242.8  | 209.2  |
| 52.5° | 4419.2  | 4084.3  | 3735.6  | 3400.8 | 2934.9 | 2318.3 | 1551.2 | 772.7  | 348.7  | 228.7  | 192.5  |
| 55°   | 4946.4  | 4887.8  | 4896.1  | 4952.0 | 4592.2 | 3944.8 | 2594.6 | 1115.9 | 410.2  | 259.4  | 189.7  |
| 57.5° | 6974.7  | 7181.0  | 7300.9  | 7298.2 | 6703.9 | 5560.2 | 3484.5 | 1433.9 | 457.6  | 301.2  | 226.0  |
| 60°   | 9641.8  | 9485.6  | 9265.1  | 8721.0 | 7931.5 | 6347.0 | 3897.4 | 1542.9 | 396.1  | 239.9  | 206.5  |
| 62.5° | 11999.2 | 11084.0 | 10272.1 | 9390.7 | 8355.6 | 6620.2 | 3981.1 | 1534.4 | 345.9  | 181.3  | 145.0  |
| 65°   | 13469.3 | 11823.3 | 10512.2 | 9407.3 | 8188.2 | 6391.5 | 3766.3 | 1408.9 | 292.9  | 147.9  | 119.9  |
| 67.5° | 13820.9 | 11424.3 | 9569.2  | 8160.2 | 6840.6 | 4974.4 | 2764.7 | 1060.2 | 228.7  | 122.8  | 106.1  |
| 69°   | 13053.6 | 10155.1 | 7928.8  | 6330.2 | 4977.1 | 3300.4 | 1710.2 | 669.5  | 175.7  | 111.6  | 97.6   |
| 70°   | 12007.5 | 8832.6  | 6458.4  | 5080.3 | 3685.5 | 2318.3 | 1196.9 | 471.5  | 142.3  | 103.2  | 89.3   |
| 72.5° | 7725.2  | 4639.4  | 3174.8  | 2209.5 | 1520.5 | 923.5  | 468.8  | 212.1  | 108.8  | 86.4   | 72.5   |
| 75°   | 2996.3  | 1715.8  | 1244.4  | 945.7  | 739.3  | 513.3  | 284.6  | 136.7  | 92.0   | 72.5   | 55.7   |
| 77.5° | 1475.8  | 1129.8  | 923.5   | 633.3  | 368.3  | 228.7  | 153.5  | 106.1  | 75.4   | 53.0   | 36.3   |
| 80°   | 1166.1  | 775.6   | 463.2   | 287.3  | 217.5  | 164.7  | 117.2  | 86.4   | 55.7   | 33.5   | 25.1   |
| 82.5° | 597.0   | 326.5   | 239.9   | 195.3  | 161.8  | 128.4  | 94.9   | 61.3   | 36.3   | 22.4   | 19.5   |
| 85°   | 186.9   | 136.7   | 122.8   | 119.9  | 111.6  | 92.0   | 66.9   | 39.1   | 22.4   | 13.9   | 13.9   |
| 87.5° | 13.9    | 19.5    | 25.1    | 19.5   | 22.4   | 19.5   | 25.1   | 16.8   | 11.2   | 11.2   | 8.3    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1286.2 | 1286.2 | 1286.2 | 1286.2 | 1286.2 | 1286.2 | 1286.2 | 1286.2 | 1286.2 | 1286.2 | 1286.2 |
| 2.5°  | 1171.7 | 1138.3 | 1107.6 | 1088.0 | 1051.7 | 1037.8 | 1023.9 | 1018.4 | 993.1  | 998.7  | 976.5  |
| 5°    | 1023.9 | 965.3  | 920.6  | 876.0  | 834.2  | 803.5  | 778.3  | 747.6  | 722.6  | 711.4  | 689.0  |
| 7.5°  | 889.9  | 814.7  | 756.1  | 708.7  | 658.3  | 619.4  | 585.8  | 563.5  | 541.3  | 518.9  | 507.7  |
| 10°   | 772.7  | 691.9  | 625.0  | 577.5  | 530.1  | 496.6  | 471.5  | 454.7  | 440.8  | 432.3  | 429.6  |
| 12.5° | 663.9  | 585.8  | 524.5  | 482.7  | 446.4  | 429.6  | 418.5  | 410.2  | 407.3  | 404.6  | 404.6  |
| 15°   | 580.2  | 502.1  | 454.7  | 424.0  | 407.3  | 399.0  | 396.1  | 390.5  | 385.1  | 382.2  | 382.2  |
| 17.5° | 502.1  | 443.5  | 410.2  | 393.4  | 385.1  | 379.5  | 373.9  | 368.3  | 362.7  | 359.8  | 359.8  |
| 20°   | 449.1  | 401.7  | 385.1  | 373.9  | 365.4  | 359.8  | 351.5  | 345.9  | 343.2  | 340.4  | 337.6  |
| 22.5° | 407.3  | 376.6  | 365.4  | 357.1  | 345.9  | 337.6  | 332.1  | 326.5  | 320.9  | 318.0  | 315.3  |
| 25°   | 376.6  | 357.1  | 348.7  | 337.6  | 326.5  | 318.0  | 309.7  | 301.2  | 295.8  | 292.9  | 287.3  |
| 27.5° | 354.2  | 340.4  | 329.2  | 315.3  | 304.1  | 295.8  | 287.3  | 279.0  | 273.4  | 267.8  | 265.0  |
| 30°   | 334.8  | 320.9  | 306.8  | 295.8  | 281.7  | 273.4  | 262.3  | 254.0  | 251.1  | 245.5  | 239.9  |
| 32.5° | 315.3  | 301.2  | 287.3  | 273.4  | 259.4  | 248.4  | 242.8  | 231.6  | 226.0  | 223.1  | 217.5  |
| 35°   | 292.9  | 279.0  | 262.3  | 251.1  | 237.2  | 226.0  | 217.5  | 209.2  | 203.6  | 198.0  | 195.3  |
| 37.5° | 273.4  | 256.7  | 239.9  | 226.0  | 214.8  | 203.6  | 195.3  | 186.9  | 181.3  | 175.7  | 173.0  |
| 40°   | 251.1  | 234.3  | 217.5  | 203.6  | 192.5  | 184.2  | 175.7  | 167.4  | 161.8  | 159.1  | 159.1  |
| 42.5° | 231.6  | 212.1  | 195.3  | 184.2  | 175.7  | 164.7  | 156.2  | 147.9  | 145.0  | 142.3  | 145.0  |
| 45°   | 212.1  | 192.5  | 178.6  | 167.4  | 159.1  | 147.9  | 139.4  | 133.8  | 131.1  | 133.8  | 136.7  |
| 47.5° | 195.3  | 175.7  | 161.8  | 153.5  | 145.0  | 136.7  | 128.4  | 122.8  | 122.8  | 128.4  | 133.8  |
| 50°   | 178.6  | 159.1  | 147.9  | 142.3  | 133.8  | 125.5  | 114.4  | 111.6  | 114.4  | 119.9  | 125.5  |
| 52.5° | 161.8  | 139.4  | 131.1  | 128.4  | 119.9  | 111.6  | 103.2  | 100.5  | 103.2  | 108.8  | 106.1  |
| 55°   | 145.0  | 122.8  | 119.9  | 117.2  | 108.8  | 97.6   | 89.3   | 89.3   | 89.3   | 86.4   | 81.0   |
| 57.5° | 139.4  | 108.8  | 106.1  | 103.2  | 94.9   | 83.7   | 78.1   | 72.5   | 69.8   | 61.3   | 58.6   |
| 60°   | 145.0  | 97.6   | 97.6   | 92.0   | 83.7   | 72.5   | 64.2   | 55.7   | 50.1   | 44.6   | 44.6   |
| 62.5° | 117.2  | 89.3   | 86.4   | 81.0   | 69.8   | 58.6   | 50.1   | 41.8   | 39.1   | 36.3   | 36.3   |
| 65°   | 94.9   | 81.0   | 75.4   | 66.9   | 58.6   | 47.4   | 39.1   | 33.5   | 30.7   | 30.7   | 33.5   |
| 67.5° | 86.4   | 72.5   | 64.2   | 55.7   | 47.4   | 36.3   | 30.7   | 28.0   | 28.0   | 30.7   | 30.7   |
| 69°   | 81.0   | 66.9   | 58.6   | 50.1   | 41.8   | 33.5   | 28.0   | 28.0   | 28.0   | 28.0   | 30.7   |
| 70°   | 75.4   | 64.2   | 55.7   | 47.4   | 36.3   | 28.0   | 25.1   | 25.1   | 28.0   | 28.0   | 30.7   |
| 72.5° | 58.6   | 50.1   | 47.4   | 39.1   | 28.0   | 25.1   | 22.4   | 25.1   | 25.1   | 28.0   | 28.0   |
| 75°   | 44.6   | 36.3   | 36.3   | 30.7   | 22.4   | 19.5   | 19.5   | 22.4   | 22.4   | 25.1   | 25.1   |
| 77.5° | 30.7   | 25.1   | 25.1   | 22.4   | 19.5   | 16.8   | 16.8   | 19.5   | 22.4   | 22.4   | 25.1   |
| 80°   | 22.4   | 19.5   | 16.8   | 19.5   | 16.8   | 13.9   | 16.8   | 19.5   | 19.5   | 22.4   | 22.4   |
| 82.5° | 16.8   | 16.8   | 16.8   | 16.8   | 13.9   | 13.9   | 16.8   | 16.8   | 19.5   | 22.4   | 22.4   |
| 85°   | 13.9   | 13.9   | 13.9   | 13.9   | 13.9   | 13.9   | 13.9   | 16.8   | 16.8   | 19.5   | 19.5   |
| 87.5° | 8.3    | 8.3    | 8.3    | 11.2   | 11.2   | 13.9   | 13.9   | 13.9   | 13.9   | 16.8   | 16.8   |
| 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):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1286.2 | 1286.2 | 1286.2 | 1286.2 |
| 2.5°  | 970.9  | 968.0  | 956.9  | 959.7  |
| 5°    | 680.7  | 663.9  | 675.1  | 672.4  |
| 7.5°  | 499.4  | 496.6  | 493.8  | 499.4  |
| 10°   | 426.9  | 426.9  | 424.0  | 426.9  |
| 12.5° | 401.7  | 401.7  | 401.7  | 401.7  |
| 15°   | 382.2  | 382.2  | 379.5  | 379.5  |
| 17.5° | 359.8  | 359.8  | 359.8  | 357.1  |
| 20°   | 337.6  | 334.8  | 334.8  | 334.8  |
| 22.5° | 312.4  | 309.7  | 309.7  | 309.7  |
| 25°   | 287.3  | 284.6  | 284.6  | 284.6  |
| 27.5° | 262.3  | 259.4  | 256.7  | 256.7  |
| 30°   | 237.2  | 234.3  | 231.6  | 231.6  |
| 32.5° | 212.1  | 209.2  | 206.5  | 206.5  |
| 35°   | 189.7  | 189.7  | 186.9  | 184.2  |
| 37.5° | 170.3  | 170.3  | 170.3  | 170.3  |
| 40°   | 156.2  | 159.1  | 159.1  | 159.1  |
| 42.5° | 147.9  | 150.6  | 153.5  | 156.2  |
| 45°   | 142.3  | 147.9  | 150.6  | 150.6  |
| 47.5° | 139.4  | 142.3  | 145.0  | 145.0  |
| 50°   | 128.4  | 125.5  | 125.5  | 125.5  |
| 52.5° | 103.2  | 97.6   | 94.9   | 92.0   |
| 55°   | 75.4   | 72.5   | 66.9   | 66.9   |
| 57.5° | 53.0   | 53.0   | 50.1   | 50.1   |
| 60°   | 41.8   | 41.8   | 39.1   | 41.8   |
| 62.5° | 36.3   | 36.3   | 36.3   | 36.3   |
| 65°   | 33.5   | 33.5   | 33.5   | 33.5   |
| 67.5° | 33.5   | 33.5   | 33.5   | 33.5   |
| 69°   | 30.7   | 30.7   | 30.7   | 30.7   |
| 70°   | 30.7   | 30.7   | 30.7   | 30.7   |
| 72.5° | 28.0   | 28.0   | 28.0   | 28.0   |
| 75°   | 25.1   | 28.0   | 28.0   | 28.0   |
| 77.5° | 25.1   | 25.1   | 25.1   | 25.1   |
| 80°   | 22.4   | 22.4   | 25.1   | 25.1   |
| 82.5° | 22.4   | 22.4   | 22.4   | 22.4   |
| 85°   | 19.5   | 19.5   | 22.4   | 22.4   |
| 87.5° | 16.8   | 16.8   | 19.5   | 19.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)