

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: P165538

Luminaire Tested: **VST-E10-LED-E-U-SL4-HSS-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165538  
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-E10-LED-E-U-SL4-HSS-7050  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (210) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20629.7 lumens  
Efficiency: N/A  
Efficacy: 83.3 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): 247.7  
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



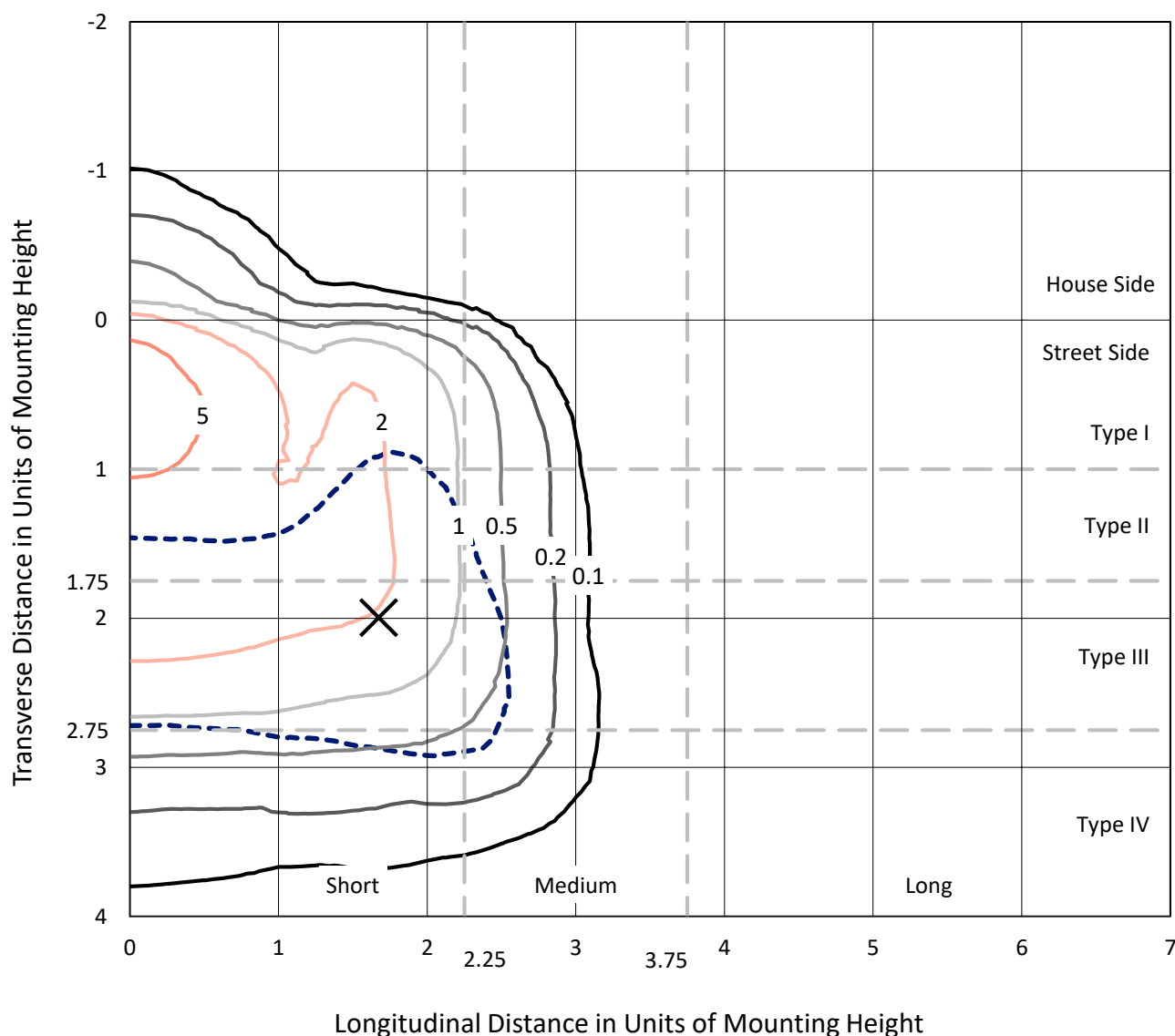
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

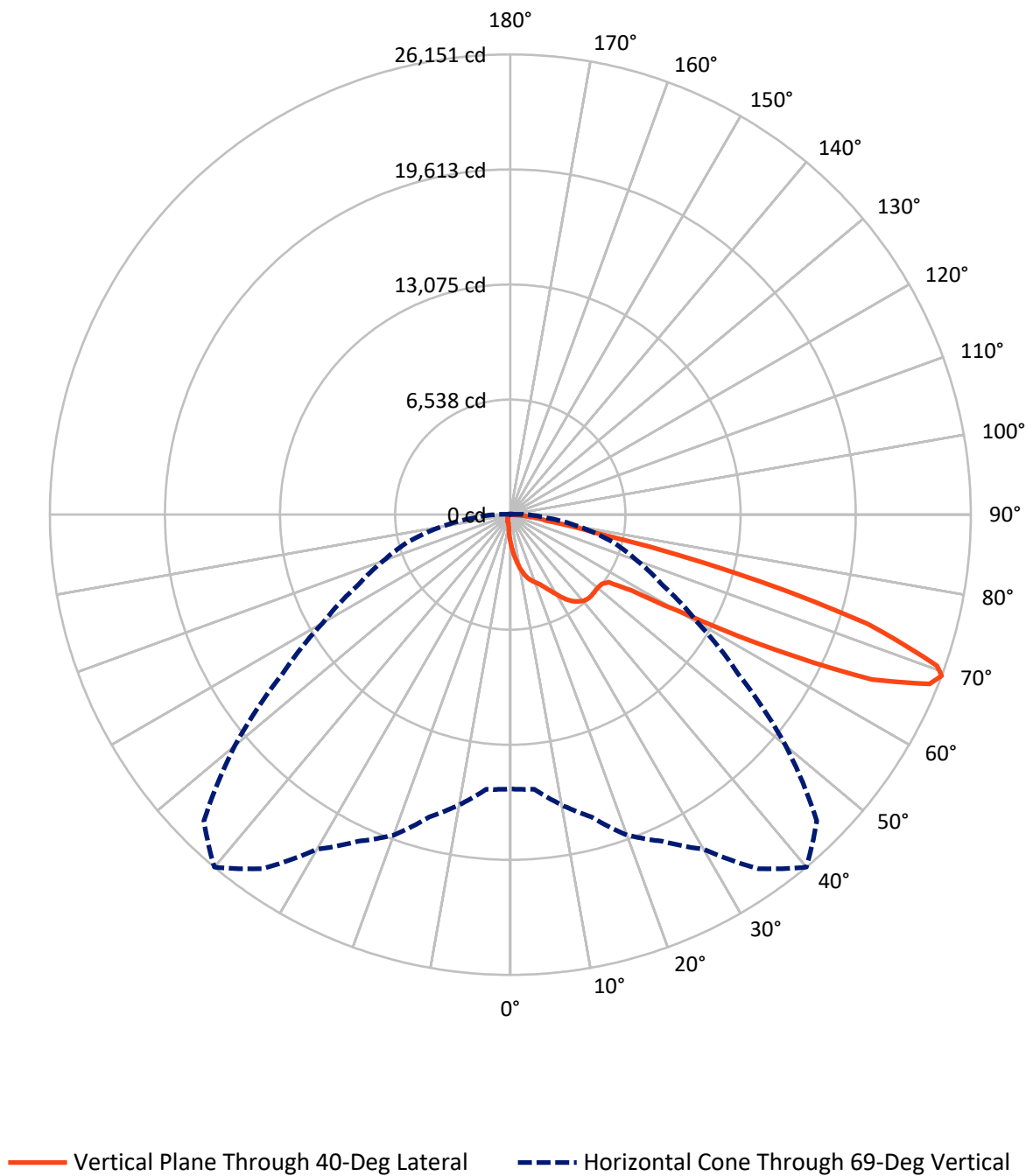


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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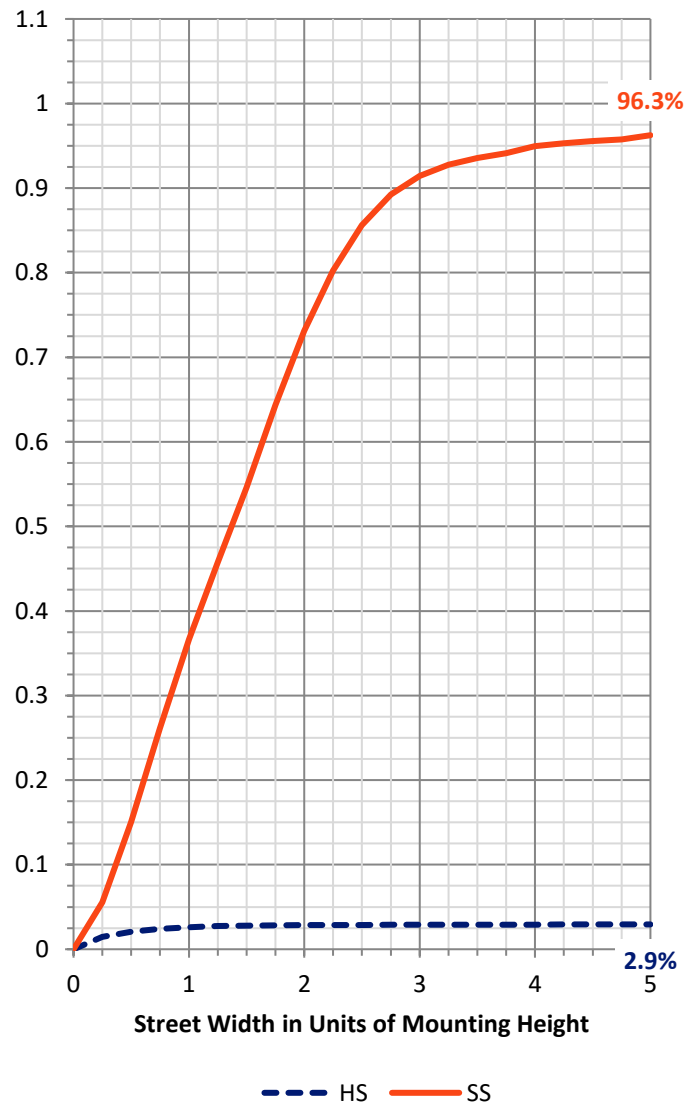
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 614.3    | 0.0    | 614.3   |
|                    | % Fixture | 3.0      | 0.0    | 3.0     |
| <b>Street Side</b> | Lumens    | 20015.4  | 0.0    | 20015.4 |
|                    | % Fixture | 97.0     | 0.0    | 97.0    |
| <b>Total</b>       | Lumens    | 20629.7  | 0.0    | 20629.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 160.1   | 0.8       |
| 10°-20°   | 552.1   | 2.7       |
| 20°-30°   | 1056.7  | 5.1       |
| 30°-40°   | 1757.3  | 8.5       |
| 40°-50°   | 2377.9  | 11.5      |
| 50°-60°   | 3718.8  | 18.0      |
| 60°-70°   | 7645.7  | 37.1      |
| 70°-80°   | 3076.5  | 14.9      |
| 80°-90°   | 284.6   | 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°    | 20629.7 | 100.0     |
| 0°-180°   | 20629.7 | 100.0     |

**Coefficient of Utilization**



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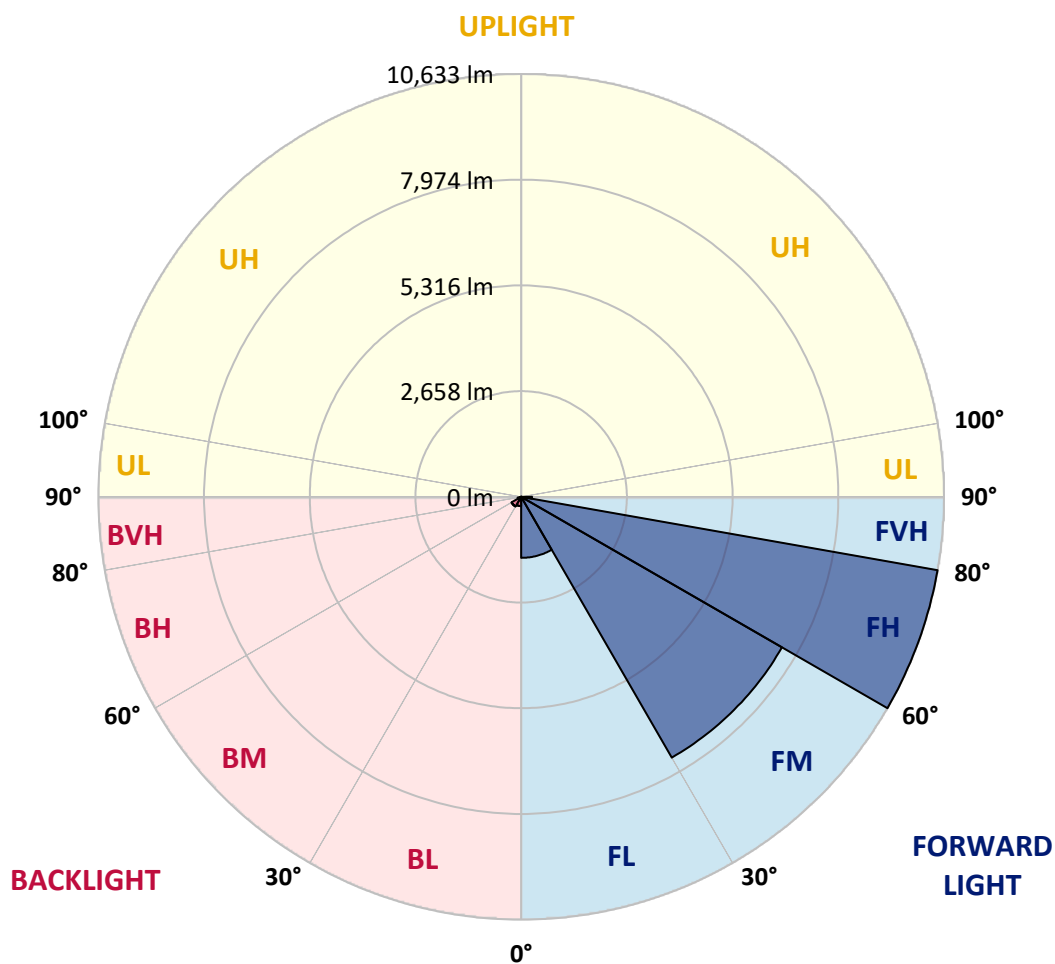
CATALOG NUMBER: VST-E10-LED-E-U-SL4-HSS-7050

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1535.3  | 7.4       |                         |      |          |
| FM   | (30°-60°)   | 7573.5  | 36.7      |                         |      |          |
| FH   | (60°-80°)   | 10632.7 | 51.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 274.0   | 1.3       |                         |      | G3/500   |
| BL   | (0°-30°)    | 233.7   | 1.1       | B1/500                  |      |          |
| BM   | (30°-60°)   | 280.5   | 1.4       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 89.6    | 0.4       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 10.6    | 0.1       |                         |      | G1/100   |
| 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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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1558.0  | 1558.0  | 1558.0  | 1558.0  | 1558.0  | 1558.0  | 1558.0  | 1558.0  | 1558.0  | 1558.0  | 1558.0  |
| 2.5°  | 2078.5  | 2054.7  | 2027.6  | 2027.6  | 1993.9  | 1993.9  | 1973.6  | 1919.6  | 1912.9  | 1882.3  | 1851.9  |
| 5°    | 2652.9  | 2632.6  | 2598.9  | 2568.3  | 2541.5  | 2494.1  | 2460.2  | 2396.0  | 2325.2  | 2257.4  | 2196.7  |
| 7.5°  | 3214.0  | 3203.7  | 3143.0  | 3132.7  | 3088.8  | 3011.2  | 2943.5  | 2848.9  | 2727.2  | 2632.6  | 2521.1  |
| 10°   | 3734.4  | 3710.6  | 3697.1  | 3639.6  | 3575.6  | 3491.0  | 3386.1  | 3271.4  | 3129.4  | 2980.6  | 2821.8  |
| 12.5° | 4146.7  | 4133.2  | 4072.2  | 4048.6  | 3981.1  | 3896.5  | 3764.8  | 3616.0  | 3474.2  | 3281.5  | 3095.6  |
| 15°   | 4454.1  | 4430.5  | 4389.9  | 4352.7  | 4271.7  | 4197.4  | 4075.7  | 3913.4  | 3741.2  | 3531.6  | 3308.6  |
| 17.5° | 4711.1  | 4667.1  | 4656.9  | 4599.4  | 4515.1  | 4427.0  | 4292.0  | 4143.2  | 3940.5  | 3730.9  | 3487.5  |
| 20°   | 5055.6  | 4994.9  | 4974.6  | 4890.0  | 4792.1  | 4670.4  | 4515.1  | 4329.1  | 4116.1  | 3886.5  | 3636.3  |
| 22.5° | 5461.1  | 5417.2  | 5373.3  | 5299.0  | 5174.0  | 5001.6  | 4775.3  | 4572.5  | 4302.0  | 4048.6  | 3778.3  |
| 25°   | 6035.8  | 5998.6  | 5927.6  | 5826.2  | 5670.7  | 5464.6  | 5190.9  | 4893.5  | 4575.8  | 4251.4  | 3933.7  |
| 27.5° | 6593.3  | 6559.5  | 6508.8  | 6431.2  | 6255.3  | 6029.0  | 5691.0  | 5312.6  | 4910.3  | 4518.4  | 4166.8  |
| 30°   | 7117.3  | 7086.7  | 7036.0  | 6958.4  | 6802.9  | 6579.8  | 6197.9  | 5792.4  | 5292.2  | 4836.0  | 4413.7  |
| 32.5° | 7681.6  | 7671.4  | 7613.9  | 7502.5  | 7367.2  | 7066.6  | 6650.8  | 6214.9  | 5708.0  | 5180.8  | 4687.2  |
| 35°   | 8320.3  | 8242.5  | 8188.5  | 8076.9  | 7847.2  | 7526.1  | 7039.5  | 6563.0  | 6029.0  | 5488.2  | 4937.4  |
| 37.5° | 8861.0  | 8786.7  | 8719.0  | 8577.2  | 8296.7  | 7887.7  | 7336.9  | 6812.9  | 6262.1  | 5711.3  | 5150.2  |
| 40°   | 9256.3  | 9219.1  | 9138.1  | 8952.2  | 8638.0  | 8151.4  | 7556.4  | 6985.3  | 6431.2  | 5876.9  | 5322.6  |
| 42.5° | 9550.4  | 9492.9  | 9401.8  | 9209.1  | 8837.4  | 8283.1  | 7644.3  | 7056.3  | 6508.8  | 5978.3  | 5434.3  |
| 45°   | 9658.5  | 9611.3  | 9526.8  | 9317.2  | 8915.0  | 8320.3  | 7641.0  | 7036.0  | 6512.3  | 6008.7  | 5508.5  |
| 47.5° | 9594.3  | 9547.1  | 9472.6  | 9276.6  | 8881.4  | 8276.4  | 7580.3  | 6978.5  | 6478.4  | 6018.9  | 5576.1  |
| 50°   | 9381.5  | 9354.4  | 9296.9  | 9131.3  | 8776.5  | 8191.8  | 7526.1  | 6948.2  | 6471.6  | 6069.6  | 5670.7  |
| 52.5° | 9361.2  | 9344.3  | 9273.3  | 9107.7  | 8746.1  | 8164.7  | 7519.3  | 6965.2  | 6529.1  | 6133.9  | 5738.4  |
| 55°   | 11439.4 | 11199.5 | 10662.3 | 10206.1 | 9455.8  | 8563.7  | 7860.6  | 7238.8  | 6772.5  | 6387.3  | 6110.0  |
| 57.5° | 16258.6 | 15900.5 | 15194.2 | 14325.7 | 12602.0 | 10908.9 | 9553.9  | 8573.7  | 8090.4  | 7914.8  | 8019.4  |
| 60°   | 18516.1 | 18452.0 | 18340.4 | 17928.1 | 17046.1 | 15589.6 | 13967.3 | 12213.5 | 11510.4 | 11449.7 | 11662.5 |
| 62.5° | 19587.5 | 19546.9 | 19580.8 | 19530.1 | 19256.3 | 18830.5 | 18364.0 | 17607.1 | 16910.8 | 16461.4 | 15508.4 |
| 65°   | 20080.9 | 20108.0 | 20300.5 | 20452.5 | 20486.4 | 20597.8 | 20939.3 | 21882.1 | 22571.4 | 21412.4 | 18766.2 |
| 67.5° | 18827.0 | 18985.8 | 19428.7 | 19982.8 | 20631.7 | 21260.3 | 22274.1 | 24261.2 | 25677.3 | 24315.4 | 20557.4 |
| 69°   | 15586.1 | 15663.9 | 16745.2 | 17789.6 | 19374.5 | 20483.1 | 21953.1 | 24558.6 | 26150.5 | 24612.8 | 20415.4 |
| 70°   | 12270.8 | 12341.8 | 13501.1 | 14920.4 | 17600.4 | 19026.5 | 20949.4 | 24055.2 | 25707.6 | 24217.3 | 19685.4 |
| 72.5° | 5535.6  | 5434.3  | 5843.1  | 6603.4  | 9516.5  | 11780.9 | 15143.5 | 19489.4 | 21209.6 | 19401.6 | 14727.7 |
| 75°   | 3866.2  | 3822.2  | 3866.2  | 3869.4  | 4322.4  | 5576.1  | 7036.0  | 10564.2 | 13065.0 | 11274.0 | 7036.0  |
| 77.5° | 2994.2  | 2963.8  | 2933.4  | 2899.6  | 2953.7  | 3308.6  | 3450.4  | 3747.7  | 4866.4  | 4602.9  | 2683.3  |
| 80°   | 2369.1  | 2342.0  | 2416.3  | 2392.7  | 2392.7  | 2433.3  | 2406.2  | 2294.6  | 2085.0  | 1933.0  | 1730.2  |
| 82.5° | 1101.6  | 1108.4  | 1108.4  | 1203.0  | 1449.9  | 1693.1  | 1770.9  | 1659.4  | 1473.5  | 1253.7  | 1010.5  |
| 85°   | 104.7   | 118.2   | 199.5   | 307.6   | 611.8   | 689.3   | 692.8   | 574.4   | 574.4   | 452.9   | 364.9   |
| 87.5° | 0.0     | 3.3     | 3.3     | 3.3     | 30.4    | 84.6    | 71.0    | 20.3    | 10.1    | 10.1    | 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):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0°    | 1558.0  | 1558.0  | 1558.0  | 1558.0  | 1558.0  | 1558.0 | 1558.0 | 1558.0 | 1558.0 | 1558.0 | 1558.0 |
| 2.5°  | 1797.9  | 1787.7  | 1747.3  | 1706.6  | 1669.5  | 1628.8 | 1591.7 | 1554.5 | 1513.9 | 1483.5 | 1446.4 |
| 5°    | 2102.1  | 2027.6  | 1943.2  | 1862.2  | 1780.9  | 1696.6 | 1608.7 | 1530.9 | 1449.9 | 1375.4 | 1304.4 |
| 7.5°  | 2409.5  | 2264.2  | 2149.3  | 2004.0  | 1872.2  | 1740.5 | 1618.8 | 1493.8 | 1378.9 | 1270.7 | 1169.3 |
| 10°   | 2669.7  | 2494.1  | 2314.9  | 2129.2  | 1939.7  | 1764.1 | 1595.2 | 1446.4 | 1294.3 | 1162.6 | 1037.6 |
| 12.5° | 2882.7  | 2659.7  | 2440.1  | 2206.7  | 1993.9  | 1770.9 | 1561.3 | 1382.2 | 1203.0 | 1054.4 | 926.0  |
| 15°   | 3075.2  | 2818.5  | 2554.8  | 2284.5  | 2014.2  | 1760.8 | 1527.5 | 1304.4 | 1121.9 | 953.0  | 807.8  |
| 17.5° | 3230.8  | 2936.7  | 2639.3  | 2335.2  | 2044.6  | 1747.3 | 1483.5 | 1250.4 | 1037.6 | 861.7  | 719.9  |
| 20°   | 3366.0  | 3058.4  | 2737.4  | 2396.0  | 2064.9  | 1743.8 | 1446.4 | 1182.9 | 963.1  | 777.4  | 638.6  |
| 22.5° | 3491.0  | 3183.4  | 2838.8  | 2473.7  | 2095.3  | 1740.5 | 1412.5 | 1132.2 | 898.9  | 713.1  | 574.4  |
| 25°   | 3633.0  | 3308.6  | 2947.0  | 2554.8  | 2149.3  | 1754.0 | 1392.4 | 1091.6 | 841.4  | 652.2  | 523.7  |
| 27.5° | 3791.9  | 3450.4  | 3075.2  | 2656.2  | 2220.3  | 1780.9 | 1385.7 | 1047.7 | 790.7  | 594.7  | 483.3  |
| 30°   | 4014.7  | 3619.5  | 3203.7  | 2757.6  | 2284.5  | 1811.5 | 1378.9 | 1020.6 | 740.0  | 550.8  | 442.7  |
| 32.5° | 4210.9  | 3785.1  | 3345.7  | 2862.4  | 2355.5  | 1841.9 | 1375.4 | 983.4  | 692.8  | 506.9  | 412.3  |
| 35°   | 4417.0  | 3937.2  | 3467.4  | 2963.8  | 2416.3  | 1875.5 | 1372.1 | 956.3  | 648.9  | 463.0  | 381.9  |
| 37.5° | 4596.1  | 4065.4  | 3562.0  | 3051.6  | 2484.0  | 1906.1 | 1375.4 | 932.7  | 608.3  | 425.8  | 354.8  |
| 40°   | 4748.2  | 4197.4  | 3666.7  | 3132.7  | 2554.8  | 1953.3 | 1378.9 | 909.1  | 567.8  | 392.0  | 331.2  |
| 42.5° | 4883.4  | 4322.4  | 3778.3  | 3224.0  | 2636.1  | 2007.5 | 1399.2 | 888.8  | 534.0  | 361.6  | 307.6  |
| 45°   | 4988.1  | 4437.3  | 3899.8  | 3352.5  | 2767.8  | 2095.3 | 1436.3 | 875.3  | 500.1  | 334.5  | 287.3  |
| 47.5° | 5096.3  | 4606.2  | 4106.1  | 3555.3  | 2960.5  | 2233.8 | 1500.6 | 872.0  | 473.0  | 314.2  | 270.3  |
| 50°   | 5245.0  | 4775.3  | 4288.5  | 3761.3  | 3136.2  | 2375.8 | 1578.2 | 875.3  | 439.4  | 294.1  | 253.4  |
| 52.5° | 5353.2  | 4947.5  | 4525.1  | 4119.6  | 3555.3  | 2808.2 | 1879.0 | 936.0  | 422.3  | 277.0  | 233.1  |
| 55°   | 5991.8  | 5920.8  | 5930.9  | 5998.6  | 5562.7  | 4778.6 | 3143.0 | 1351.8 | 496.8  | 314.2  | 229.8  |
| 57.5° | 8448.7  | 8698.7  | 8844.0  | 8840.7  | 8120.8  | 6735.4 | 4221.0 | 1737.0 | 554.3  | 364.9  | 273.8  |
| 60°   | 11679.5 | 11490.3 | 11223.3 | 10564.2 | 9607.8  | 7688.4 | 4721.1 | 1868.9 | 479.8  | 290.6  | 250.2  |
| 62.5° | 14535.2 | 13426.6 | 12443.2 | 11375.4 | 10121.5 | 8019.4 | 4822.5 | 1858.7 | 419.1  | 219.6  | 175.7  |
| 65°   | 16316.1 | 14322.2 | 12734.0 | 11395.5 | 9918.7  | 7742.4 | 4562.3 | 1706.6 | 354.8  | 179.2  | 145.3  |
| 67.5° | 16741.9 | 13838.9 | 11591.7 | 9884.9  | 8286.4  | 6025.7 | 3349.0 | 1284.3 | 277.0  | 148.8  | 128.5  |
| 69°   | 15812.5 | 12301.4 | 9604.6  | 7668.1  | 6029.0  | 3997.9 | 2071.7 | 811.0  | 212.8  | 135.2  | 118.2  |
| 70°   | 14545.2 | 10699.4 | 7823.4  | 6154.0  | 4464.4  | 2808.2 | 1449.9 | 571.1  | 172.4  | 125.0  | 108.2  |
| 72.5° | 9357.9  | 5620.0  | 3845.8  | 2676.5  | 1841.9  | 1118.7 | 567.8  | 256.9  | 131.8  | 104.7  | 87.8   |
| 75°   | 3629.5  | 2078.5  | 1507.3  | 1145.5  | 895.6   | 621.8  | 344.8  | 165.6  | 111.4  | 87.8   | 67.5   |
| 77.5° | 1787.7  | 1368.6  | 1118.7  | 767.1   | 446.2   | 277.0  | 185.9  | 128.5  | 91.3   | 64.2   | 43.9   |
| 80°   | 1412.5  | 939.5   | 561.1   | 348.1   | 263.5   | 199.5  | 142.0  | 104.7  | 67.5   | 40.6   | 30.4   |
| 82.5° | 723.2   | 395.5   | 290.6   | 236.6   | 196.0   | 155.6  | 114.9  | 74.3   | 43.9   | 27.1   | 23.6   |
| 85°   | 226.4   | 165.6   | 148.8   | 145.3   | 135.2   | 111.4  | 81.1   | 47.4   | 27.1   | 16.8   | 16.8   |
| 87.5° | 16.8    | 23.6    | 30.4    | 23.6    | 27.1    | 23.6   | 30.4   | 20.3   | 13.5   | 13.5   | 10.1   |
| 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°    | 1558.0 | 1558.0 | 1558.0 | 1558.0 | 1558.0 | 1558.0 | 1558.0 | 1558.0 | 1558.0 | 1558.0 | 1558.0 |
| 2.5°  | 1419.3 | 1378.9 | 1341.7 | 1317.9 | 1274.0 | 1257.2 | 1240.4 | 1233.6 | 1203.0 | 1209.8 | 1182.9 |
| 5°    | 1240.4 | 1169.3 | 1115.2 | 1061.2 | 1010.5 | 973.4  | 942.8  | 905.6  | 875.3  | 861.7  | 834.6  |
| 7.5°  | 1078.0 | 986.9  | 915.9  | 858.4  | 797.5  | 750.3  | 709.7  | 682.6  | 655.7  | 628.6  | 615.0  |
| 10°   | 936.0  | 838.1  | 757.1  | 699.6  | 642.1  | 601.5  | 571.1  | 550.8  | 534.0  | 523.7  | 520.4  |
| 12.5° | 804.3  | 709.7  | 635.4  | 584.7  | 540.8  | 520.4  | 506.9  | 496.8  | 493.4  | 490.1  | 490.1  |
| 15°   | 702.9  | 608.3  | 550.8  | 513.7  | 493.4  | 483.3  | 479.8  | 473.0  | 466.5  | 463.0  | 463.0  |
| 17.5° | 608.3  | 537.3  | 496.8  | 476.5  | 466.5  | 459.7  | 452.9  | 446.2  | 439.4  | 435.9  | 435.9  |
| 20°   | 544.0  | 486.6  | 466.5  | 452.9  | 442.7  | 435.9  | 425.8  | 419.1  | 415.8  | 412.3  | 409.0  |
| 22.5° | 493.4  | 456.2  | 442.7  | 432.6  | 419.1  | 409.0  | 402.2  | 395.5  | 388.7  | 385.2  | 381.9  |
| 25°   | 456.2  | 432.6  | 422.3  | 409.0  | 395.5  | 385.2  | 375.1  | 364.9  | 358.3  | 354.8  | 348.1  |
| 27.5° | 429.1  | 412.3  | 398.7  | 381.9  | 368.4  | 358.3  | 348.1  | 338.0  | 331.2  | 324.5  | 321.0  |
| 30°   | 405.5  | 388.7  | 371.7  | 358.3  | 341.3  | 331.2  | 317.7  | 307.6  | 304.1  | 297.4  | 290.6  |
| 32.5° | 381.9  | 364.9  | 348.1  | 331.2  | 314.2  | 300.9  | 294.1  | 280.5  | 273.8  | 270.3  | 263.5  |
| 35°   | 354.8  | 338.0  | 317.7  | 304.1  | 287.3  | 273.8  | 263.5  | 253.4  | 246.7  | 239.9  | 236.6  |
| 37.5° | 331.2  | 310.9  | 290.6  | 273.8  | 260.2  | 246.7  | 236.6  | 226.4  | 219.6  | 212.8  | 209.5  |
| 40°   | 304.1  | 283.8  | 263.5  | 246.7  | 233.1  | 223.1  | 212.8  | 202.8  | 196.0  | 192.7  | 192.7  |
| 42.5° | 280.5  | 256.9  | 236.6  | 223.1  | 212.8  | 199.5  | 189.2  | 179.2  | 175.7  | 172.4  | 175.7  |
| 45°   | 256.9  | 233.1  | 216.3  | 202.8  | 192.7  | 179.2  | 168.9  | 162.1  | 158.8  | 162.1  | 165.6  |
| 47.5° | 236.6  | 212.8  | 196.0  | 185.9  | 175.7  | 165.6  | 155.6  | 148.8  | 148.8  | 155.6  | 162.1  |
| 50°   | 216.3  | 192.7  | 179.2  | 172.4  | 162.1  | 152.1  | 138.5  | 135.2  | 138.5  | 145.3  | 152.1  |
| 52.5° | 196.0  | 168.9  | 158.8  | 155.6  | 145.3  | 135.2  | 125.0  | 121.7  | 125.0  | 131.8  | 128.5  |
| 55°   | 175.7  | 148.8  | 145.3  | 142.0  | 131.8  | 118.2  | 108.2  | 108.2  | 108.2  | 104.7  | 98.1   |
| 57.5° | 168.9  | 131.8  | 128.5  | 125.0  | 114.9  | 101.4  | 94.6   | 87.8   | 84.6   | 74.3   | 71.0   |
| 60°   | 175.7  | 118.2  | 118.2  | 111.4  | 101.4  | 87.8   | 77.8   | 67.5   | 60.7   | 54.0   | 54.0   |
| 62.5° | 142.0  | 108.2  | 104.7  | 98.1   | 84.6   | 71.0   | 60.7   | 50.7   | 47.4   | 43.9   | 43.9   |
| 65°   | 114.9  | 98.1   | 91.3   | 81.1   | 71.0   | 57.5   | 47.4   | 40.6   | 37.1   | 37.1   | 40.6   |
| 67.5° | 104.7  | 87.8   | 77.8   | 67.5   | 57.5   | 43.9   | 37.1   | 33.9   | 33.9   | 37.1   | 37.1   |
| 69°   | 98.1   | 81.1   | 71.0   | 60.7   | 50.7   | 40.6   | 33.9   | 33.9   | 33.9   | 33.9   | 37.1   |
| 70°   | 91.3   | 77.8   | 67.5   | 57.5   | 43.9   | 33.9   | 30.4   | 30.4   | 33.9   | 33.9   | 37.1   |
| 72.5° | 71.0   | 60.7   | 57.5   | 47.4   | 33.9   | 30.4   | 27.1   | 30.4   | 30.4   | 33.9   | 33.9   |
| 75°   | 54.0   | 43.9   | 43.9   | 37.1   | 27.1   | 23.6   | 23.6   | 27.1   | 27.1   | 30.4   | 30.4   |
| 77.5° | 37.1   | 30.4   | 30.4   | 27.1   | 23.6   | 20.3   | 20.3   | 23.6   | 27.1   | 27.1   | 30.4   |
| 80°   | 27.1   | 23.6   | 20.3   | 23.6   | 20.3   | 16.8   | 20.3   | 23.6   | 23.6   | 27.1   | 27.1   |
| 82.5° | 20.3   | 20.3   | 20.3   | 20.3   | 16.8   | 16.8   | 20.3   | 20.3   | 23.6   | 27.1   | 27.1   |
| 85°   | 16.8   | 16.8   | 16.8   | 16.8   | 16.8   | 16.8   | 16.8   | 20.3   | 20.3   | 23.6   | 23.6   |
| 87.5° | 10.1   | 10.1   | 10.1   | 13.5   | 13.5   | 16.8   | 16.8   | 16.8   | 16.8   | 20.3   | 20.3   |
| 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):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1558.0 | 1558.0 | 1558.0 | 1558.0 |
| 2.5°  | 1176.1 | 1172.6 | 1159.1 | 1162.6 |
| 5°    | 824.6  | 804.3  | 817.8  | 814.5  |
| 7.5°  | 605.0  | 601.5  | 598.2  | 605.0  |
| 10°   | 517.2  | 517.2  | 513.7  | 517.2  |
| 12.5° | 486.6  | 486.6  | 486.6  | 486.6  |
| 15°   | 463.0  | 463.0  | 459.7  | 459.7  |
| 17.5° | 435.9  | 435.9  | 435.9  | 432.6  |
| 20°   | 409.0  | 405.5  | 405.5  | 405.5  |
| 22.5° | 378.4  | 375.1  | 375.1  | 375.1  |
| 25°   | 348.1  | 344.8  | 344.8  | 344.8  |
| 27.5° | 317.7  | 314.2  | 310.9  | 310.9  |
| 30°   | 287.3  | 283.8  | 280.5  | 280.5  |
| 32.5° | 256.9  | 253.4  | 250.2  | 250.2  |
| 35°   | 229.8  | 229.8  | 226.4  | 223.1  |
| 37.5° | 206.2  | 206.2  | 206.2  | 206.2  |
| 40°   | 189.2  | 192.7  | 192.7  | 192.7  |
| 42.5° | 179.2  | 182.4  | 185.9  | 189.2  |
| 45°   | 172.4  | 179.2  | 182.4  | 182.4  |
| 47.5° | 168.9  | 172.4  | 175.7  | 175.7  |
| 50°   | 155.6  | 152.1  | 152.1  | 152.1  |
| 52.5° | 125.0  | 118.2  | 114.9  | 111.4  |
| 55°   | 91.3   | 87.8   | 81.1   | 81.1   |
| 57.5° | 64.2   | 64.2   | 60.7   | 60.7   |
| 60°   | 50.7   | 50.7   | 47.4   | 50.7   |
| 62.5° | 43.9   | 43.9   | 43.9   | 43.9   |
| 65°   | 40.6   | 40.6   | 40.6   | 40.6   |
| 67.5° | 40.6   | 40.6   | 40.6   | 40.6   |
| 69°   | 37.1   | 37.1   | 37.1   | 37.1   |
| 70°   | 37.1   | 37.1   | 37.1   | 37.1   |
| 72.5° | 33.9   | 33.9   | 33.9   | 33.9   |
| 75°   | 30.4   | 33.9   | 33.9   | 33.9   |
| 77.5° | 30.4   | 30.4   | 30.4   | 30.4   |
| 80°   | 27.1   | 27.1   | 30.4   | 30.4   |
| 82.5° | 27.1   | 27.1   | 27.1   | 27.1   |
| 85°   | 23.6   | 23.6   | 27.1   | 27.1   |
| 87.5° | 20.3   | 20.3   | 23.6   | 23.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)