

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: P159787

Luminaire Tested: **VST-F06-LED-E-U-T4-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159787  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-F06-LED-E-U-T4-7060  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT  
Light Source: (42) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15127.2 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

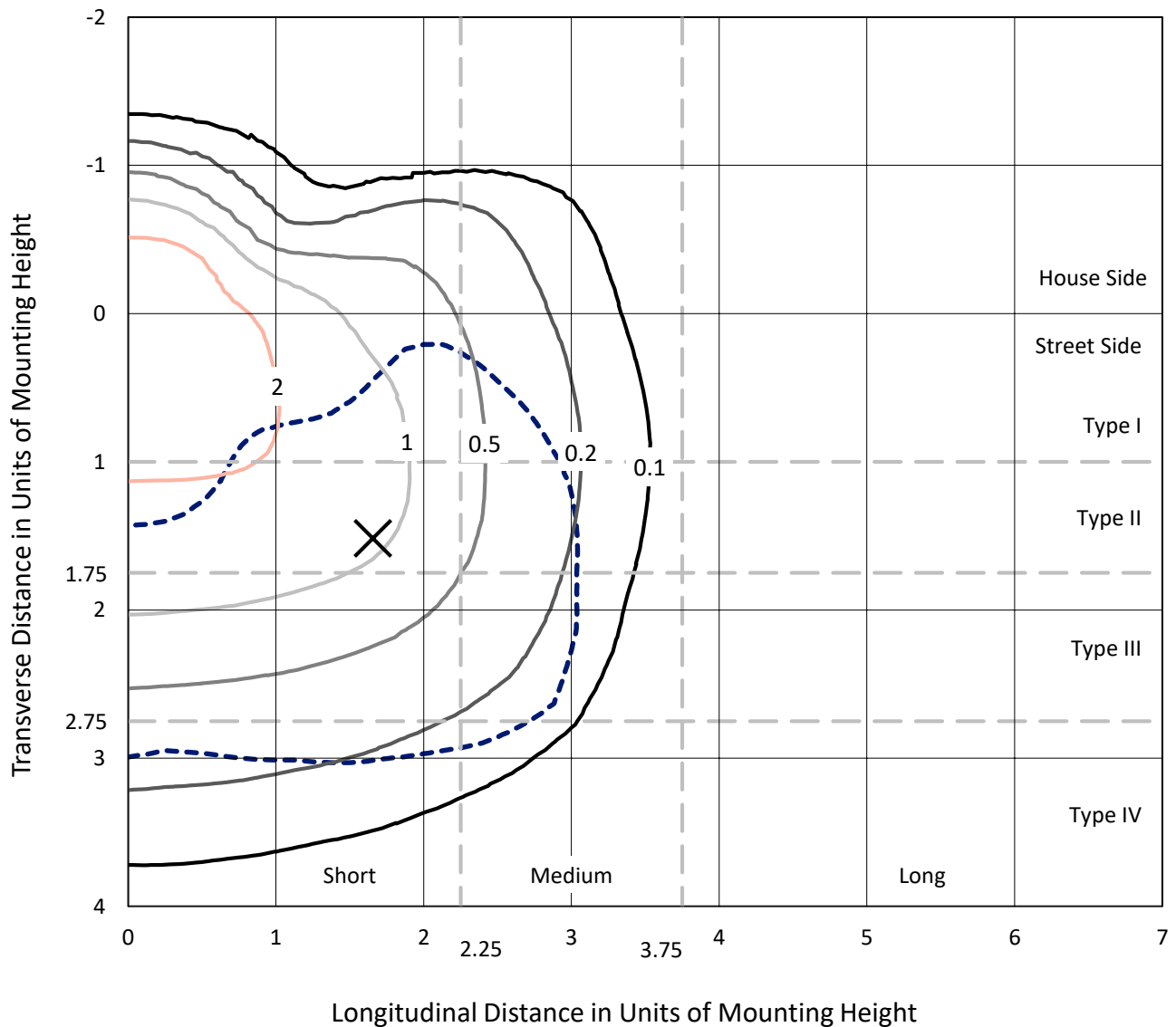
Input Watts (W): 156.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

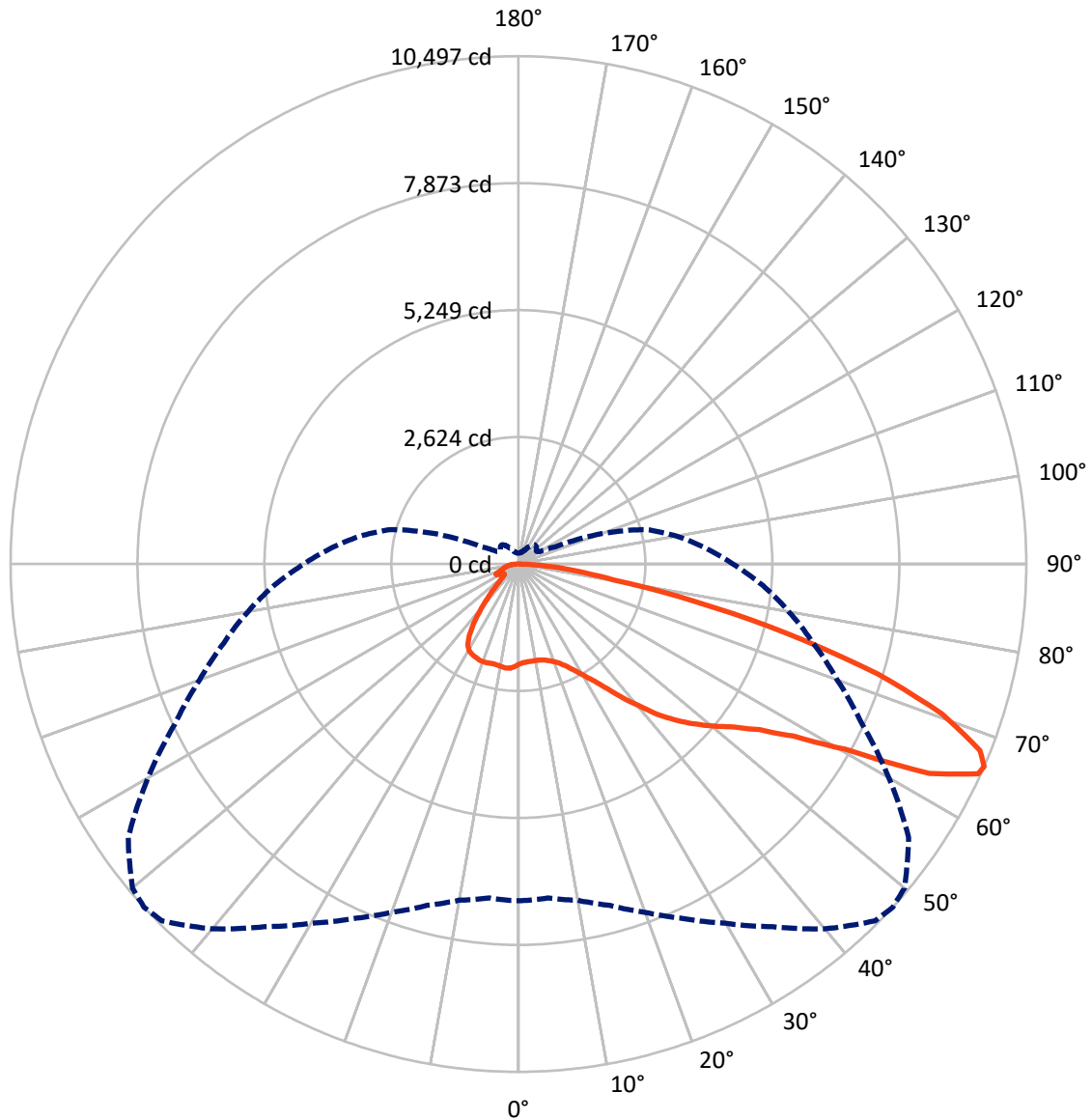


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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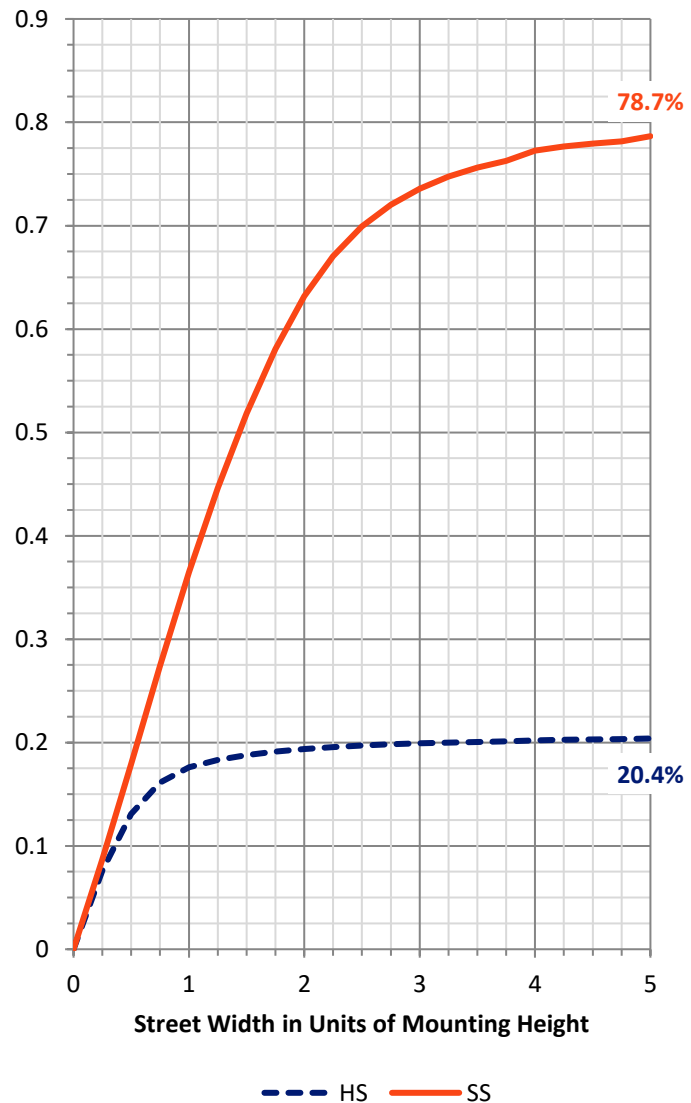
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3132.0   | 0.0    | 3132.0  |
|                    | % Fixture | 20.7     | 0.0    | 20.7    |
| <b>Street Side</b> | Lumens    | 11995.2  | 0.0    | 11995.2 |
|                    | % Fixture | 79.3     | 0.0    | 79.3    |
| <b>Total</b>       | Lumens    | 15127.2  | 0.0    | 15127.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 199.5   | 1.3       |
| 10°-20°   | 598.2   | 4.0       |
| 20°-30°   | 1020.6  | 6.7       |
| 30°-40°   | 1540.5  | 10.2      |
| 40°-50°   | 2002.3  | 13.2      |
| 50°-60°   | 2746.9  | 18.2      |
| 60°-70°   | 4225.6  | 27.9      |
| 70°-80°   | 2442.7  | 16.1      |
| 80°-90°   | 350.9   | 2.3       |
| 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°    | 15127.2 | 100.0     |
| 0°-180°   | 15127.2 | 100.0     |



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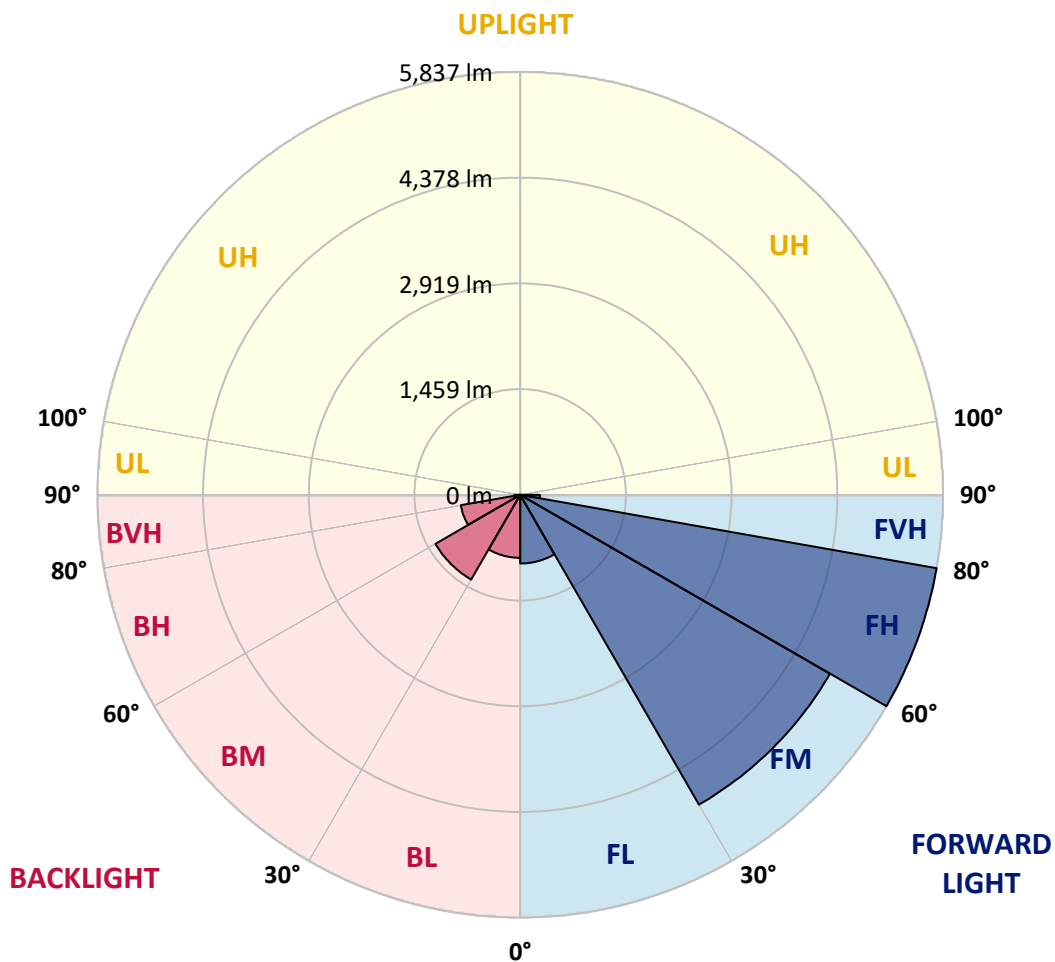
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 948.2  | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 4938.4 | 32.6      |                         |      |         |
| FH   | (60°-80°)   | 5837.1 | 38.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 271.6  | 1.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 870.1  | 5.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1351.3 | 8.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 831.3  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 79.4   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°     | 47.5°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6  | 2069.6  |
| 2.5°  | 2016.7 | 2017.7 | 2018.8 | 2018.8 | 2021.8 | 2021.8 | 2026.9 | 2029.9 | 2030.9 | 2037.0  | 2041.1  |
| 5°    | 1979.1 | 1978.1 | 1979.1 | 1981.1 | 1986.2 | 1990.3 | 2000.5 | 2007.6 | 2013.7 | 2023.8  | 2028.9  |
| 7.5°  | 1962.8 | 1964.9 | 1966.9 | 1967.9 | 1972.0 | 1982.2 | 1991.3 | 1998.4 | 2010.6 | 2022.8  | 2027.9  |
| 10°   | 1984.2 | 1987.2 | 1984.2 | 1986.2 | 1986.2 | 1995.4 | 1999.4 | 2004.5 | 2013.7 | 2024.8  | 2027.9  |
| 12.5° | 2034.0 | 2040.1 | 2034.0 | 2028.9 | 2024.8 | 2033.0 | 2030.9 | 2026.9 | 2032.0 | 2035.0  | 2035.0  |
| 15°   | 2116.3 | 2116.3 | 2112.3 | 2105.2 | 2095.0 | 2096.0 | 2086.9 | 2077.7 | 2073.6 | 2066.5  | 2061.4  |
| 17.5° | 2196.6 | 2194.6 | 2185.5 | 2176.3 | 2169.2 | 2166.1 | 2152.9 | 2140.7 | 2126.5 | 2115.3  | 2103.1  |
| 20°   | 2274.9 | 2283.0 | 2271.9 | 2258.6 | 2247.5 | 2240.3 | 2230.2 | 2205.8 | 2188.5 | 2170.2  | 2158.0  |
| 22.5° | 2410.1 | 2403.0 | 2390.8 | 2371.5 | 2360.3 | 2348.1 | 2326.7 | 2300.3 | 2273.9 | 2251.5  | 2236.3  |
| 25°   | 2549.4 | 2542.2 | 2525.0 | 2510.7 | 2494.5 | 2484.3 | 2460.9 | 2428.4 | 2403.0 | 2368.4  | 2348.1  |
| 27.5° | 2698.8 | 2692.7 | 2672.4 | 2661.2 | 2650.0 | 2637.8 | 2617.5 | 2583.9 | 2560.5 | 2520.9  | 2499.6  |
| 30°   | 2867.5 | 2866.5 | 2839.1 | 2837.0 | 2820.8 | 2807.5 | 2793.3 | 2764.9 | 2741.5 | 2701.8  | 2676.4  |
| 32.5° | 3047.4 | 3043.4 | 3024.1 | 3018.0 | 3029.1 | 3020.0 | 2999.7 | 2970.2 | 2939.7 | 2916.3  | 2887.9  |
| 35°   | 3303.6 | 3296.5 | 3285.3 | 3290.4 | 3297.5 | 3322.9 | 3291.4 | 3266.0 | 3229.4 | 3198.9  | 3159.3  |
| 37.5° | 3490.6 | 3480.5 | 3493.7 | 3522.1 | 3562.8 | 3582.1 | 3609.6 | 3610.6 | 3593.3 | 3552.6  | 3518.1  |
| 40°   | 3662.4 | 3658.4 | 3688.8 | 3728.5 | 3803.7 | 3858.6 | 3910.4 | 3935.9 | 3942.0 | 3915.5  | 3863.7  |
| 42.5° | 3807.8 | 3820.0 | 3860.6 | 3921.6 | 4027.3 | 4110.7 | 4207.3 | 4267.2 | 4304.8 | 4290.6  | 4267.2  |
| 45°   | 3980.6 | 3986.7 | 4036.5 | 4113.7 | 4214.4 | 4352.6 | 4479.7 | 4581.3 | 4647.4 | 4646.4  | 4620.0  |
| 47.5° | 4197.1 | 4198.1 | 4240.8 | 4331.3 | 4439.0 | 4579.3 | 4739.9 | 4875.1 | 4962.5 | 4966.6  | 4946.2  |
| 50°   | 4454.3 | 4452.2 | 4499.0 | 4584.4 | 4699.2 | 4834.4 | 5005.2 | 5173.9 | 5295.9 | 5295.9  | 5266.4  |
| 52.5° | 4785.6 | 4781.6 | 4807.0 | 4882.2 | 4993.0 | 5135.3 | 5305.1 | 5500.2 | 5632.4 | 5660.8  | 5596.8  |
| 55°   | 5227.8 | 5233.9 | 5240.0 | 5306.1 | 5400.6 | 5513.4 | 5708.6 | 5888.5 | 6065.4 | 6081.7  | 6044.1  |
| 57.5° | 5739.1 | 5718.8 | 5762.5 | 5870.2 | 5978.0 | 6119.3 | 6257.5 | 6470.0 | 6679.4 | 6714.9  | 6709.9  |
| 60°   | 6538.1 | 6511.6 | 6556.4 | 6693.6 | 6812.5 | 7035.1 | 7272.0 | 7546.4 | 7794.5 | 7867.6  | 7779.2  |
| 62.5° | 7273.0 | 7305.5 | 7366.5 | 7526.1 | 7698.9 | 7995.7 | 8351.5 | 8822.1 | 9292.8 | 9548.9  | 9530.6  |
| 65°   | 7206.9 | 7176.4 | 7293.3 | 7510.9 | 7823.9 | 8202.1 | 8644.2 | 9211.4 | 9889.4 | 10403.8 | 10449.5 |
| 66°   | 6961.9 | 6930.4 | 7056.5 | 7305.5 | 7663.3 | 8084.2 | 8575.1 | 9152.5 | 9845.7 | 10427.2 | 10497.3 |
| 67.5° | 6557.4 | 6525.9 | 6668.2 | 6894.9 | 7263.8 | 7793.4 | 8324.0 | 8955.3 | 9676.0 | 10233.0 | 10289.9 |
| 70°   | 5776.7 | 5734.0 | 5844.8 | 6101.0 | 6399.8 | 6912.1 | 7417.3 | 8086.2 | 8826.2 | 9271.4  | 9292.8  |
| 72.5° | 4893.4 | 4793.8 | 4911.7 | 5108.9 | 5322.3 | 5746.2 | 6186.4 | 6643.8 | 7233.3 | 7645.0  | 7762.9  |
| 75°   | 3550.6 | 3602.4 | 3637.0 | 3767.1 | 3908.4 | 4259.1 | 4517.3 | 4900.5 | 5356.9 | 5654.7  | 5749.3  |
| 77.5° | 1883.6 | 1961.8 | 2010.6 | 2140.7 | 2374.5 | 2641.9 | 2921.4 | 3158.2 | 3458.1 | 3624.8  | 3740.7  |
| 80°   | 1057.2 | 1112.0 | 1191.3 | 1294.0 | 1407.8 | 1613.2 | 1778.9 | 1900.8 | 1943.5 | 1973.0  | 1999.4  |
| 82.5° | 581.4  | 720.7  | 838.6  | 909.8  | 976.8  | 1059.2 | 1157.8 | 1259.4 | 1292.0 | 1243.2  | 1217.8  |
| 85°   | 90.5   | 133.2  | 405.6  | 495.0  | 538.7  | 601.8  | 672.9  | 748.1  | 749.2  | 644.5   | 703.4   |
| 87.5° | 25.4   | 28.5   | 57.9   | 87.4   | 85.4   | 69.1   | 85.4   | 155.5  | 91.5   | 45.7    | 52.9    |
| 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):**

|       | 50°     | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2069.6  | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 |
| 2.5°  | 2043.1  | 2045.2 | 2050.3 | 2055.3 | 2060.4 | 2065.5 | 2068.6 | 2073.6 | 2077.7 | 2083.8 | 2090.9 |
| 5°    | 2035.0  | 2040.1 | 2049.2 | 2060.4 | 2070.6 | 2079.7 | 2086.9 | 2097.0 | 2106.2 | 2114.3 | 2126.5 |
| 7.5°  | 2035.0  | 2045.2 | 2060.4 | 2072.6 | 2081.8 | 2093.0 | 2104.1 | 2114.3 | 2124.5 | 2132.6 | 2140.7 |
| 10°   | 2036.0  | 2046.2 | 2061.4 | 2075.7 | 2085.8 | 2098.0 | 2107.2 | 2116.3 | 2127.5 | 2132.6 | 2142.8 |
| 12.5° | 2040.1  | 2044.2 | 2055.3 | 2069.6 | 2081.8 | 2094.0 | 2103.1 | 2112.3 | 2124.5 | 2126.5 | 2133.6 |
| 15°   | 2060.4  | 2054.3 | 2057.4 | 2067.5 | 2080.8 | 2090.9 | 2101.1 | 2108.2 | 2116.3 | 2114.3 | 2120.4 |
| 17.5° | 2098.0  | 2082.8 | 2076.7 | 2077.7 | 2083.8 | 2090.9 | 2095.0 | 2096.0 | 2097.0 | 2087.9 | 2088.9 |
| 20°   | 2148.9  | 2127.5 | 2113.3 | 2106.2 | 2098.0 | 2090.9 | 2079.7 | 2066.5 | 2054.3 | 2036.0 | 2034.0 |
| 22.5° | 2225.1  | 2193.6 | 2178.3 | 2159.0 | 2134.6 | 2104.1 | 2076.7 | 2044.2 | 2017.7 | 1990.3 | 1980.1 |
| 25°   | 2335.9  | 2303.4 | 2287.1 | 2256.6 | 2212.9 | 2169.2 | 2129.5 | 2085.8 | 2047.2 | 2014.7 | 1999.4 |
| 27.5° | 2484.3  | 2451.8 | 2434.5 | 2403.0 | 2349.1 | 2305.4 | 2250.5 | 2203.8 | 2157.0 | 2109.2 | 2089.9 |
| 30°   | 2664.2  | 2635.8 | 2616.4 | 2591.0 | 2544.3 | 2496.5 | 2432.5 | 2360.3 | 2286.1 | 2209.9 | 2172.2 |
| 32.5° | 2876.7  | 2845.2 | 2830.9 | 2801.4 | 2752.7 | 2702.8 | 2631.7 | 2539.2 | 2415.2 | 2295.2 | 2220.0 |
| 35°   | 3142.0  | 3106.4 | 3090.1 | 3051.5 | 2994.6 | 2921.4 | 2845.2 | 2721.1 | 2553.4 | 2386.7 | 2263.7 |
| 37.5° | 3496.7  | 3417.4 | 3363.6 | 3275.1 | 3183.6 | 3081.0 | 2972.2 | 2845.2 | 2646.9 | 2440.6 | 2269.8 |
| 40°   | 3810.8  | 3730.5 | 3626.8 | 3499.8 | 3357.5 | 3216.2 | 3092.2 | 2947.8 | 2732.3 | 2479.2 | 2250.5 |
| 42.5° | 4201.2  | 4058.8 | 3893.2 | 3721.4 | 3532.3 | 3358.5 | 3211.1 | 3041.3 | 2790.3 | 2489.4 | 2196.6 |
| 45°   | 4557.9  | 4388.2 | 4166.6 | 3937.9 | 3703.1 | 3484.5 | 3318.8 | 3129.8 | 2840.1 | 2489.4 | 2131.6 |
| 47.5° | 4883.2  | 4679.9 | 4414.6 | 4130.0 | 3856.6 | 3617.7 | 3429.6 | 3220.2 | 2910.2 | 2520.9 | 2112.3 |
| 50°   | 5184.1  | 4950.3 | 4648.4 | 4318.1 | 4011.1 | 3755.9 | 3553.7 | 3336.1 | 3016.9 | 2602.2 | 2159.0 |
| 52.5° | 5501.2  | 5253.2 | 4885.3 | 4534.6 | 4196.1 | 3922.6 | 3707.1 | 3479.4 | 3155.2 | 2730.3 | 2241.4 |
| 55°   | 5917.0  | 5626.3 | 5208.5 | 4822.2 | 4450.2 | 4148.3 | 3903.3 | 3651.2 | 3306.6 | 2874.6 | 2342.0 |
| 57.5° | 6572.6  | 6150.8 | 5733.0 | 5230.9 | 4880.2 | 4482.7 | 4214.4 | 3924.7 | 3552.6 | 3062.7 | 2493.5 |
| 60°   | 7720.2  | 7201.8 | 6699.7 | 6122.3 | 5689.3 | 5273.6 | 4868.0 | 4489.8 | 4041.6 | 3487.6 | 2825.8 |
| 62.5° | 9358.8  | 8832.3 | 8043.5 | 7337.0 | 6683.4 | 6132.5 | 5603.9 | 5123.1 | 4547.8 | 3942.0 | 3235.5 |
| 65°   | 10337.7 | 9734.9 | 8794.7 | 7845.3 | 7051.4 | 6368.3 | 5763.5 | 5175.0 | 4553.9 | 3963.3 | 3359.5 |
| 66°   | 10416.0 | 9845.7 | 8841.4 | 7838.2 | 7013.8 | 6305.3 | 5676.1 | 5067.2 | 4430.9 | 3865.7 | 3318.8 |
| 67.5° | 10270.6 | 9779.7 | 8745.9 | 7699.9 | 6857.2 | 6091.8 | 5445.3 | 4807.0 | 4167.6 | 3644.1 | 3183.6 |
| 70°   | 9245.0  | 8890.2 | 8003.8 | 7024.0 | 6183.3 | 5508.4 | 4826.3 | 4212.3 | 3606.5 | 3166.4 | 2824.8 |
| 72.5° | 7579.0  | 7129.7 | 6509.6 | 5850.9 | 5189.2 | 4590.5 | 3970.4 | 3447.9 | 2939.7 | 2619.5 | 2377.6 |
| 75°   | 5567.3  | 5162.8 | 4479.7 | 4069.0 | 3631.9 | 3255.8 | 2838.0 | 2343.0 | 1982.2 | 1821.6 | 1762.6 |
| 77.5° | 3529.3  | 3090.1 | 2513.8 | 2060.4 | 1771.7 | 1522.7 | 1200.5 | 954.5  | 764.4  | 795.9  | 881.3  |
| 80°   | 1782.9  | 1535.9 | 1149.7 | 907.7  | 784.7  | 652.6  | 516.4  | 391.3  | 285.6  | 326.3  | 369.0  |
| 82.5° | 1144.6  | 955.5  | 761.4  | 599.7  | 506.2  | 446.2  | 356.8  | 259.2  | 193.1  | 217.5  | 266.3  |
| 85°   | 689.2   | 582.4  | 464.5  | 380.2  | 330.4  | 275.5  | 202.3  | 143.3  | 142.3  | 152.5  | 188.1  |
| 87.5° | 104.7   | 149.4  | 86.4   | 92.5   | 97.6   | 104.7  | 92.5   | 78.3   | 68.1   | 88.4   | 111.8  |
| 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):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 | 2069.6 |
| 2.5°  | 2098.0 | 2100.1 | 2104.1 | 2109.2 | 2108.2 | 2115.3 | 2119.4 | 2115.3 | 2124.5 | 2124.5 | 2129.5 |
| 5°    | 2136.7 | 2139.7 | 2146.8 | 2151.9 | 2153.9 | 2160.0 | 2162.1 | 2161.1 | 2163.1 | 2164.1 | 2166.1 |
| 7.5°  | 2147.8 | 2156.0 | 2159.0 | 2162.1 | 2163.1 | 2165.1 | 2165.1 | 2163.1 | 2163.1 | 2162.1 | 2164.1 |
| 10°   | 2144.8 | 2147.8 | 2149.9 | 2148.9 | 2148.9 | 2146.8 | 2145.8 | 2144.8 | 2144.8 | 2142.8 | 2145.8 |
| 12.5° | 2134.6 | 2134.6 | 2134.6 | 2132.6 | 2132.6 | 2131.6 | 2131.6 | 2131.6 | 2133.6 | 2134.6 | 2139.7 |
| 15°   | 2114.3 | 2114.3 | 2116.3 | 2115.3 | 2118.4 | 2123.4 | 2129.5 | 2133.6 | 2138.7 | 2139.7 | 2142.8 |
| 17.5° | 2082.8 | 2083.8 | 2089.9 | 2103.1 | 2116.3 | 2131.6 | 2142.8 | 2145.8 | 2141.7 | 2131.6 | 2124.5 |
| 20°   | 2027.9 | 2041.1 | 2065.5 | 2097.0 | 2126.5 | 2145.8 | 2150.9 | 2138.7 | 2119.4 | 2093.0 | 2078.7 |
| 22.5° | 1979.1 | 2005.5 | 2049.2 | 2101.1 | 2137.7 | 2150.9 | 2135.6 | 2107.2 | 2072.6 | 2042.1 | 2020.8 |
| 25°   | 1998.4 | 2028.9 | 2074.7 | 2119.4 | 2142.8 | 2135.6 | 2105.2 | 2064.5 | 2027.9 | 1992.3 | 1957.8 |
| 27.5° | 2079.7 | 2110.2 | 2142.8 | 2156.0 | 2147.8 | 2121.4 | 2078.7 | 2035.0 | 1986.2 | 1935.4 | 1892.7 |
| 30°   | 2157.0 | 2174.3 | 2176.3 | 2163.1 | 2133.6 | 2090.9 | 2041.1 | 1990.3 | 1928.3 | 1867.3 | 1813.4 |
| 32.5° | 2181.4 | 2161.1 | 2124.5 | 2086.9 | 2046.2 | 2002.5 | 1944.5 | 1877.5 | 1811.4 | 1742.3 | 1682.3 |
| 35°   | 2174.3 | 2091.9 | 2001.5 | 1921.2 | 1872.4 | 1822.6 | 1769.7 | 1680.3 | 1606.1 | 1547.1 | 1508.5 |
| 37.5° | 2110.2 | 1959.8 | 1820.5 | 1703.6 | 1627.4 | 1568.4 | 1490.2 | 1416.0 | 1351.9 | 1325.5 | 1294.0 |
| 40°   | 2020.8 | 1791.1 | 1597.9 | 1434.3 | 1355.0 | 1279.8 | 1192.3 | 1135.4 | 1117.1 | 1092.7 | 1093.7 |
| 42.5° | 1892.7 | 1593.9 | 1344.8 | 1156.8 | 1070.4 | 988.0  | 926.0  | 892.5  | 893.5  | 873.2  | 877.2  |
| 45°   | 1757.5 | 1395.6 | 1082.6 | 895.5  | 810.1  | 740.0  | 705.4  | 695.3  | 696.3  | 697.3  | 691.2  |
| 47.5° | 1675.2 | 1241.1 | 868.1  | 679.0  | 603.8  | 564.2  | 545.9  | 540.8  | 541.8  | 542.8  | 535.7  |
| 50°   | 1663.0 | 1160.8 | 724.8  | 519.4  | 470.6  | 448.3  | 439.1  | 434.0  | 434.0  | 430.0  | 423.9  |
| 52.5° | 1697.5 | 1140.5 | 654.6  | 450.3  | 403.5  | 383.2  | 376.1  | 372.0  | 365.9  | 357.8  | 346.6  |
| 55°   | 1752.4 | 1158.8 | 633.3  | 426.9  | 381.2  | 360.9  | 351.7  | 349.7  | 339.5  | 324.3  | 306.0  |
| 57.5° | 1854.1 | 1224.9 | 647.5  | 433.0  | 385.2  | 367.0  | 360.9  | 358.8  | 344.6  | 321.2  | 297.8  |
| 60°   | 2145.8 | 1417.0 | 718.7  | 467.6  | 414.7  | 399.5  | 399.5  | 396.4  | 377.1  | 343.6  | 310.0  |
| 62.5° | 2548.3 | 1698.6 | 815.2  | 515.4  | 455.4  | 453.4  | 470.6  | 471.7  | 437.1  | 383.2  | 330.4  |
| 65°   | 2742.5 | 1830.7 | 848.8  | 525.5  | 466.6  | 489.9  | 524.5  | 524.5  | 475.7  | 401.5  | 333.4  |
| 66°   | 2743.5 | 1827.7 | 838.6  | 513.3  | 454.4  | 484.9  | 520.4  | 520.4  | 469.6  | 396.4  | 328.3  |
| 67.5° | 2673.4 | 1770.7 | 805.1  | 491.0  | 426.9  | 455.4  | 486.9  | 485.9  | 440.1  | 376.1  | 314.1  |
| 70°   | 2397.9 | 1566.4 | 709.5  | 454.4  | 394.4  | 395.4  | 406.6  | 399.5  | 369.0  | 325.3  | 285.6  |
| 72.5° | 2067.5 | 1310.3 | 615.0  | 431.0  | 369.0  | 349.7  | 340.5  | 334.4  | 315.1  | 288.7  | 264.3  |
| 75°   | 1585.7 | 1017.5 | 535.7  | 409.6  | 346.6  | 313.1  | 300.9  | 295.8  | 282.6  | 267.3  | 248.0  |
| 77.5° | 971.8  | 697.3  | 454.4  | 375.1  | 321.2  | 290.7  | 277.5  | 267.3  | 254.1  | 239.9  | 226.7  |
| 80°   | 418.8  | 420.8  | 363.9  | 318.2  | 279.5  | 244.0  | 226.7  | 214.5  | 207.4  | 202.3  | 195.2  |
| 82.5° | 292.7  | 301.9  | 277.5  | 247.0  | 213.5  | 188.1  | 172.8  | 169.8  | 170.8  | 170.8  | 168.7  |
| 85°   | 219.6  | 215.5  | 194.1  | 176.9  | 161.6  | 145.4  | 133.2  | 132.1  | 136.2  | 136.2  | 133.2  |
| 87.5° | 127.1  | 128.1  | 109.8  | 102.7  | 106.7  | 91.5   | 83.4   | 84.4   | 94.5   | 93.5   | 91.5   |
| 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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| 47.5° | 537.7  | 533.7  | 536.7  | 541.8  | 544.8  |
| 50°   | 406.6  | 403.5  | 398.5  | 394.4  | 390.3  |
| 52.5° | 327.3  | 321.2  | 307.0  | 302.9  | 298.8  |
| 55°   | 288.7  | 277.5  | 267.3  | 263.3  | 263.3  |
| 57.5° | 277.5  | 263.3  | 252.1  | 247.0  | 245.0  |
| 60°   | 279.5  | 259.2  | 245.0  | 236.8  | 233.8  |
| 62.5° | 288.7  | 260.2  | 240.9  | 231.8  | 228.7  |
| 65°   | 287.7  | 258.2  | 239.9  | 229.7  | 226.7  |
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| 72.5° | 245.0  | 234.8  | 224.6  | 216.5  | 214.5  |
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