

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: P287011

Luminaire Tested: **USSL-C027-D-U-T2-AP-7050-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P287011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-C027-D-U-T2-AP-7050-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, GRAY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 13105.7 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 96  
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



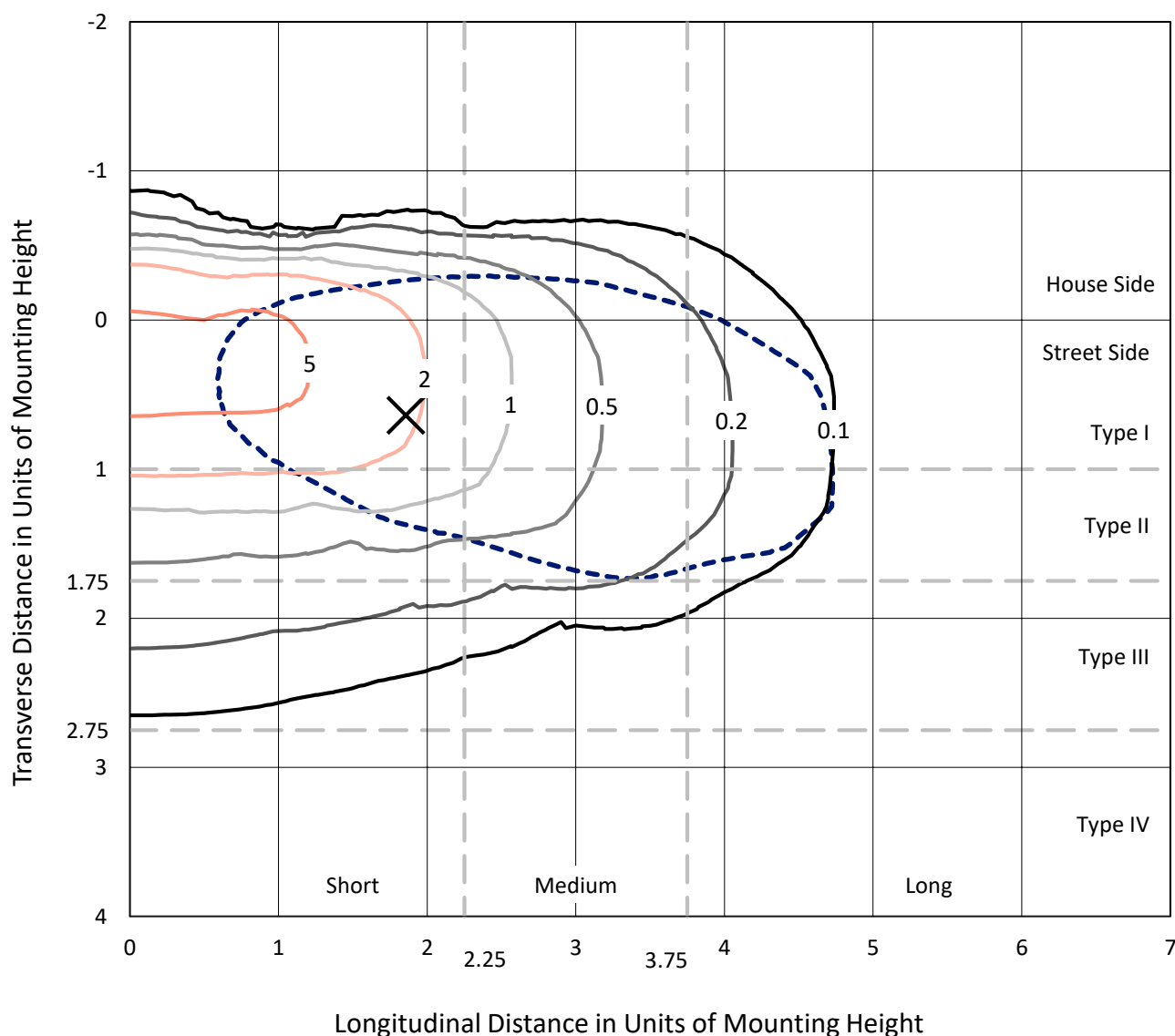
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

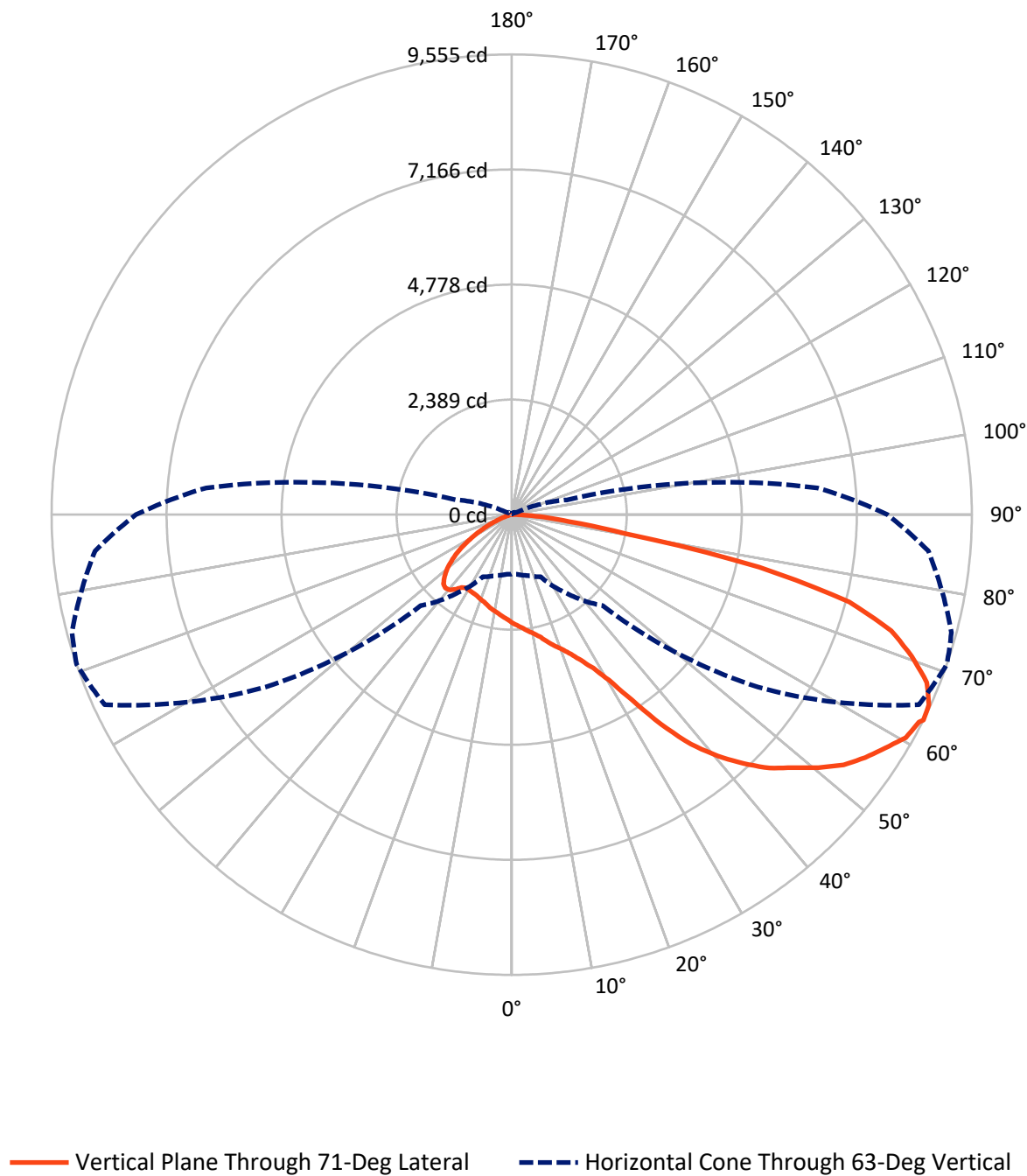


Based on 20 foot mounting height. Maximum calculated value = 7.5 fc  
Type II - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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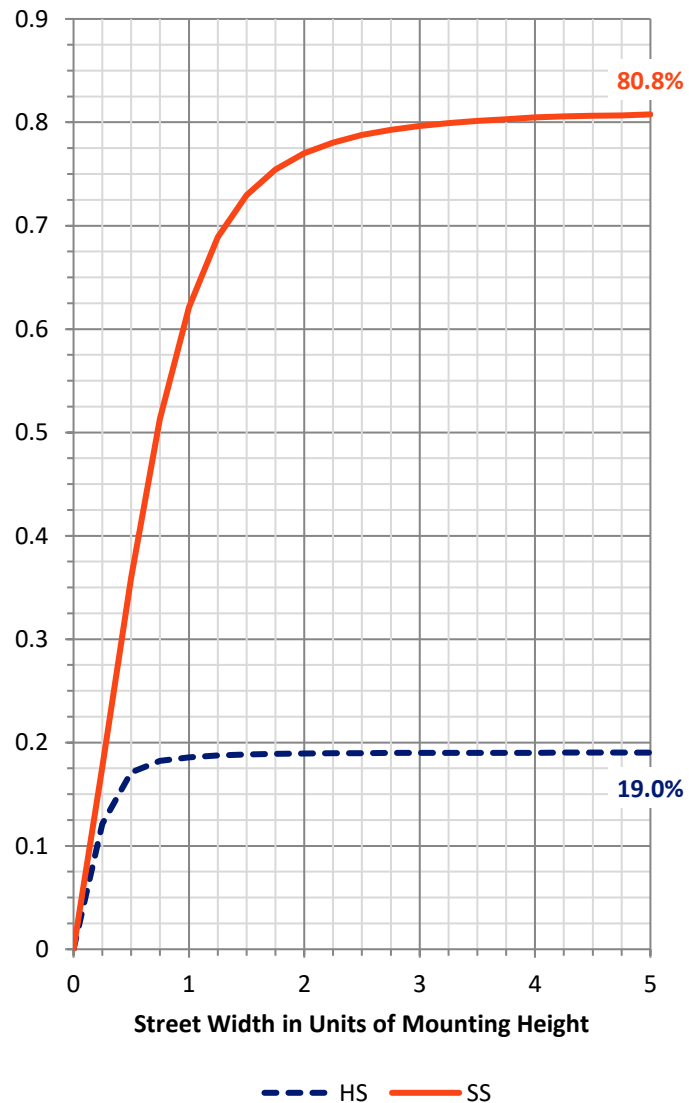
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2522.3   | 0.0    | 2522.3  |
|                    | % Fixture | 19.2     | 0.0    | 19.2    |
| <b>Street Side</b> | Lumens    | 10583.3  | 0.0    | 10583.3 |
|                    | % Fixture | 80.8     | 0.0    | 80.8    |
| <b>Total</b>       | Lumens    | 13105.7  | 0.0    | 13105.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 214.5   | 1.6       |
| 10°-20°   | 644.3   | 4.9       |
| 20°-30°   | 1083.5  | 8.3       |
| 30°-40°   | 1655.9  | 12.6      |
| 40°-50°   | 2306.8  | 17.6      |
| 50°-60°   | 2671.7  | 20.4      |
| 60°-70°   | 2645.9  | 20.2      |
| 70°-80°   | 1640.2  | 12.5      |
| 80°-90°   | 242.9   | 1.9       |
| 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°    | 13105.7 | 100.0     |
| 0°-180°   | 13105.7 | 100.0     |

**Coefficient of Utilization**



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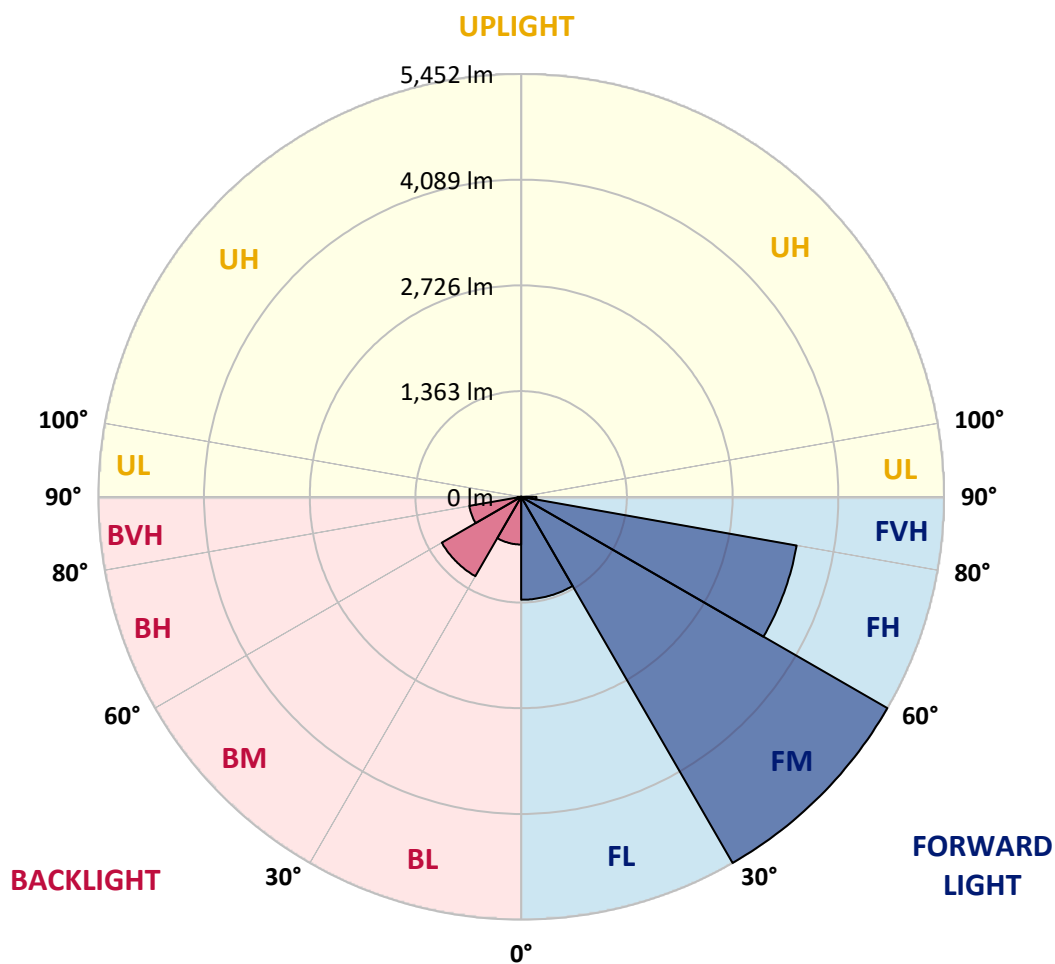
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1327.2 | 10.1      |                         |      |         |
| FM   | (30°-60°)   | 5452.1 | 41.6      |                         |      |         |
| FH   | (60°-80°)   | 3607.3 | 27.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 196.7  | 1.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 615.1  | 4.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1182.4 | 9.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 678.7  | 5.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 46.1   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 71°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 |
| 2.5°  | 2480.6 | 2457.0 | 2456.3 | 2426.4 | 2404.2 | 2391.6 | 2357.5 | 2327.6 | 2301.9 | 2299.1 | 2253.2 |
| 5°    | 2615.5 | 2610.0 | 2602.4 | 2555.7 | 2534.9 | 2507.1 | 2469.5 | 2411.8 | 2365.2 | 2353.4 | 2280.4 |
| 7.5°  | 2767.8 | 2763.7 | 2748.3 | 2706.7 | 2653.8 | 2621.1 | 2548.1 | 2490.3 | 2440.9 | 2415.9 | 2317.2 |
| 10°   | 2855.5 | 2854.7 | 2853.4 | 2818.6 | 2777.6 | 2729.6 | 2651.7 | 2566.9 | 2509.8 | 2483.5 | 2340.9 |
| 12.5° | 2994.5 | 2975.8 | 2969.5 | 2927.1 | 2875.0 | 2840.2 | 2768.6 | 2677.4 | 2600.3 | 2553.6 | 2394.4 |
| 15°   | 3106.6 | 3107.2 | 3095.4 | 3057.2 | 3018.2 | 2962.5 | 2902.1 | 2811.0 | 2726.1 | 2690.7 | 2486.2 |
| 17.5° | 3245.6 | 3233.1 | 3219.1 | 3178.9 | 3137.8 | 3079.4 | 3041.8 | 2931.3 | 2861.7 | 2783.8 | 2566.9 |
| 20°   | 3333.9 | 3312.4 | 3297.0 | 3271.4 | 3254.6 | 3208.1 | 3174.0 | 3075.9 | 2980.7 | 2913.9 | 2657.3 |
| 22.5° | 3395.2 | 3417.3 | 3411.1 | 3369.4 | 3375.7 | 3361.8 | 3318.7 | 3252.5 | 3145.5 | 3035.6 | 2761.6 |
| 25°   | 3432.7 | 3427.8 | 3464.0 | 3491.1 | 3538.4 | 3535.6 | 3503.6 | 3445.8 | 3350.7 | 3232.4 | 2917.4 |
| 27.5° | 3443.8 | 3443.8 | 3502.2 | 3578.8 | 3690.0 | 3714.3 | 3718.6 | 3715.1 | 3609.3 | 3502.2 | 3121.8 |
| 30°   | 3460.5 | 3479.2 | 3535.6 | 3630.9 | 3792.2 | 3888.9 | 3934.8 | 4011.9 | 3985.5 | 3892.4 | 3455.6 |
| 32.5° | 3394.4 | 3396.6 | 3478.6 | 3662.2 | 3897.3 | 4098.2 | 4188.6 | 4462.0 | 4578.0 | 4621.2 | 4132.3 |
| 35°   | 3181.6 | 3203.2 | 3352.7 | 3605.9 | 3945.9 | 4278.3 | 4523.9 | 5088.5 | 5344.4 | 5350.0 | 4779.7 |
| 37.5° | 3034.2 | 3055.1 | 3215.7 | 3524.5 | 3984.2 | 4459.8 | 4907.0 | 5792.2 | 6051.0 | 5987.1 | 5338.2 |
| 40°   | 2872.9 | 2907.6 | 3078.1 | 3414.6 | 3978.5 | 4637.9 | 5316.7 | 6415.4 | 6587.9 | 6503.8 | 5795.1 |
| 42.5° | 2715.7 | 2721.3 | 2888.9 | 3262.3 | 3950.0 | 4782.5 | 5717.2 | 6875.8 | 7066.4 | 6957.8 | 6242.9 |
| 45°   | 2525.1 | 2550.1 | 2715.7 | 3059.9 | 3855.5 | 4871.5 | 6069.7 | 7380.7 | 7507.3 | 7386.2 | 6617.1 |
| 47.5° | 2305.4 | 2337.4 | 2550.1 | 2872.9 | 3645.5 | 4884.8 | 6386.9 | 7834.8 | 7847.3 | 7751.4 | 7010.7 |
| 50°   | 1780.3 | 1800.5 | 2237.9 | 2688.5 | 3394.4 | 4831.9 | 6689.5 | 8174.9 | 8256.2 | 8131.0 | 7346.6 |
| 52.5° | 1612.0 | 1628.7 | 1751.1 | 2448.7 | 3058.6 | 4655.3 | 6900.8 | 8565.7 | 8631.7 | 8521.9 | 7674.8 |
| 55°   | 1545.2 | 1552.9 | 1596.0 | 1984.8 | 2776.8 | 4341.7 | 7034.3 | 8857.8 | 8905.1 | 8768.8 | 7946.8 |
| 57.5° | 1428.4 | 1435.4 | 1527.2 | 1692.7 | 2540.5 | 3822.8 | 7017.7 | 9145.7 | 9142.3 | 8990.0 | 8228.4 |
| 60°   | 1340.1 | 1354.8 | 1432.6 | 1556.4 | 2255.3 | 3198.4 | 6788.9 | 9366.1 | 9400.3 | 9260.5 | 8433.5 |
| 62.5° | 1256.6 | 1262.2 | 1328.3 | 1447.9 | 2023.8 | 2742.8 | 6358.3 | 9346.0 | 9489.9 | 9386.4 | 8691.6 |
| 63°   | 1233.0 | 1243.5 | 1308.8 | 1424.9 | 1990.4 | 2671.2 | 6242.3 | 9330.0 | 9555.3 | 9453.8 | 8685.4 |
| 65°   | 1160.0 | 1161.3 | 1225.4 | 1335.3 | 1831.1 | 2447.9 | 5856.3 | 9118.5 | 9521.2 | 9460.0 | 8793.1 |
| 67.5° | 1020.9 | 1031.3 | 1088.4 | 1195.5 | 1565.5 | 2164.2 | 4859.0 | 8978.1 | 9300.1 | 9332.1 | 8617.2 |
| 70°   | 866.5  | 872.7  | 943.0  | 1048.0 | 1315.8 | 1836.0 | 3634.4 | 8488.5 | 8810.5 | 8850.2 | 8154.7 |
| 72.5° | 679.4  | 682.9  | 759.4  | 881.8  | 1076.5 | 1516.1 | 2507.7 | 7635.2 | 8239.6 | 8239.6 | 7364.0 |
| 75°   | 213.5  | 252.5  | 532.0  | 710.8  | 870.0  | 1173.2 | 1647.5 | 5923.8 | 7242.3 | 7422.4 | 6304.8 |
| 77.5° | 69.5   | 75.1   | 168.3  | 374.9  | 548.0  | 900.6  | 1093.9 | 3149.0 | 5261.0 | 5756.1 | 4973.1 |
| 80°   | 50.0   | 58.4   | 104.3  | 281.0  | 344.9  | 383.2  | 678.0  | 1716.3 | 2390.9 | 3133.6 | 3321.4 |
| 82.5° | 25.8   | 33.4   | 73.8   | 178.7  | 196.1  | 193.3  | 301.1  | 811.6  | 1194.1 | 1442.3 | 1723.3 |
| 85°   | 11.9   | 14.6   | 32.0   | 62.6   | 54.3   | 50.8   | 106.4  | 424.9  | 673.1  | 795.6  | 859.6  |
| 87.5° | 2.8    | 4.1    | 11.9   | 22.3   | 13.9   | 11.1   | 12.5   | 134.9  | 245.5  | 306.0  | 316.4  |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 | 2252.5 |
| 2.5°  | 2233.7 | 2244.9 | 2192.0 | 2166.3 | 2122.4 | 2108.6 | 2087.0 | 2061.3 | 2052.9 | 2073.8 | 2059.9 |
| 5°    | 2253.2 | 2237.9 | 2161.5 | 2091.9 | 2033.4 | 1987.5 | 1952.8 | 1909.0 | 1882.6 | 1888.8 | 1893.0 |
| 7.5°  | 2260.9 | 2226.7 | 2118.3 | 2032.8 | 1934.0 | 1874.9 | 1811.6 | 1749.7 | 1723.3 | 1727.4 | 1730.3 |
| 10°   | 2268.5 | 2217.1 | 2089.1 | 1963.3 | 1845.7 | 1754.6 | 1682.3 | 1600.2 | 1560.6 | 1562.0 | 1575.1 |
| 12.5° | 2313.8 | 2213.6 | 2064.8 | 1912.5 | 1760.2 | 1646.8 | 1558.5 | 1467.3 | 1411.0 | 1415.2 | 1425.7 |
| 15°   | 2377.7 | 2243.5 | 2033.4 | 1837.3 | 1677.4 | 1548.7 | 1438.8 | 1338.0 | 1294.9 | 1301.1 | 1310.9 |
| 17.5° | 2432.7 | 2276.9 | 2009.1 | 1758.1 | 1577.2 | 1438.8 | 1339.4 | 1253.2 | 1174.6 | 1186.5 | 1179.5 |
| 20°   | 2488.3 | 2324.1 | 2001.5 | 1691.3 | 1491.1 | 1331.8 | 1219.1 | 1149.6 | 1052.2 | 1025.8 | 1017.4 |
| 22.5° | 2577.3 | 2377.0 | 1994.5 | 1630.1 | 1388.8 | 1237.9 | 1097.4 | 995.1  | 855.3  | 807.4  | 788.7  |
| 25°   | 2694.2 | 2452.8 | 1984.1 | 1575.1 | 1304.0 | 1125.9 | 935.4  | 751.8  | 648.1  | 587.0  | 558.5  |
| 27.5° | 2852.0 | 2561.2 | 1999.4 | 1526.5 | 1218.4 | 993.1  | 710.0  | 546.0  | 453.4  | 400.5  | 370.6  |
| 30°   | 3116.2 | 2703.2 | 2002.9 | 1482.7 | 1114.1 | 792.1  | 505.6  | 379.7  | 301.1  | 265.0  | 246.9  |
| 32.5° | 3696.9 | 3133.6 | 2034.2 | 1432.6 | 1002.1 | 582.7  | 351.9  | 254.5  | 191.9  | 168.9  | 179.4  |
| 35°   | 4307.5 | 3662.2 | 2146.8 | 1361.7 | 826.8  | 394.3  | 232.2  | 164.8  | 123.1  | 126.6  | 130.0  |
| 37.5° | 4770.7 | 4072.5 | 2383.3 | 1274.7 | 621.7  | 269.9  | 139.8  | 112.7  | 108.5  | 118.2  | 136.3  |
| 40°   | 5226.3 | 4480.7 | 2594.0 | 1169.7 | 421.4  | 162.1  | 94.5   | 103.7  | 97.4   | 101.5  | 102.9  |
| 42.5° | 5625.4 | 4806.1 | 2744.9 | 1014.6 | 260.8  | 95.3   | 82.8   | 95.9   | 89.0   | 86.9   | 76.5   |
| 45°   | 6011.3 | 5087.8 | 2838.1 | 800.4  | 149.6  | 75.8   | 75.8   | 91.8   | 86.3   | 81.4   | 69.5   |
| 47.5° | 6352.8 | 5402.8 | 2815.1 | 552.8  | 91.2   | 68.2   | 70.9   | 82.8   | 80.7   | 74.4   | 68.2   |
| 50°   | 6667.2 | 5630.9 | 2755.3 | 313.6  | 80.0   | 64.7   | 68.9   | 68.9   | 72.3   | 56.3   | 51.5   |
| 52.5° | 6941.2 | 5833.4 | 2562.7 | 167.6  | 74.4   | 61.9   | 61.9   | 54.9   | 58.4   | 43.1   | 41.0   |
| 55°   | 7222.8 | 6045.5 | 2291.5 | 131.4  | 70.9   | 61.9   | 54.9   | 48.0   | 43.8   | 31.3   | 33.4   |
| 57.5° | 7454.4 | 6201.9 | 1940.3 | 118.2  | 73.0   | 59.1   | 50.0   | 41.8   | 34.8   | 24.4   | 23.6   |
| 60°   | 7668.6 | 6331.3 | 1599.5 | 105.0  | 78.5   | 59.8   | 41.8   | 34.8   | 24.4   | 19.5   | 17.4   |
| 62.5° | 7797.9 | 6360.5 | 1240.6 | 95.3   | 78.5   | 54.9   | 37.5   | 29.3   | 18.8   | 13.2   | 12.5   |
| 63°   | 7802.1 | 6369.5 | 1184.3 | 94.5   | 80.0   | 54.9   | 37.5   | 28.5   | 17.4   | 12.5   | 11.9   |
| 65°   | 7863.3 | 6181.0 | 934.6  | 92.5   | 81.4   | 52.1   | 35.5   | 23.0   | 14.6   | 9.8    | 9.0    |
| 67.5° | 7629.7 | 5818.0 | 614.7  | 91.2   | 81.4   | 50.8   | 31.3   | 19.5   | 12.5   | 7.6    | 6.3    |
| 70°   | 7012.1 | 5197.0 | 376.3  | 87.7   | 82.8   | 50.0   | 38.9   | 16.6   | 11.1   | 5.5    | 4.9    |
| 72.5° | 6160.9 | 4590.5 | 216.3  | 77.9   | 81.4   | 41.0   | 22.3   | 14.6   | 9.8    | 4.1    | 3.5    |
| 75°   | 5215.1 | 3690.0 | 136.3  | 60.5   | 63.3   | 34.1   | 18.8   | 13.2   | 8.4    | 2.1    | 2.1    |
| 77.5° | 3962.6 | 2655.2 | 116.8  | 46.6   | 37.5   | 29.9   | 16.0   | 10.4   | 5.5    | 0.7    | 0.7    |
| 80°   | 2798.5 | 1876.3 | 84.2   | 29.3   | 20.9   | 18.8   | 11.9   | 7.0    | 2.1    | 0.0    | 0.0    |
| 82.5° | 1575.1 | 1025.0 | 45.9   | 10.4   | 6.3    | 7.0    | 5.5    | 2.8    | 0.0    | 0.0    | 0.0    |
| 85°   | 742.8  | 400.5  | 23.0   | 7.0    | 3.5    | 2.8    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 276.1  | 96.7   | 5.5    | 2.8    | 2.1    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)