

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: P286940

Luminaire Tested: **USSL-C029-D-U-T2-BZ-7030**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P286940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-4)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-C029-D-U-T2-BZ-7030  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 16860 lumens  
Efficiency: N/A  
Efficacy: 128.7 lumens/watt  
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 131  
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



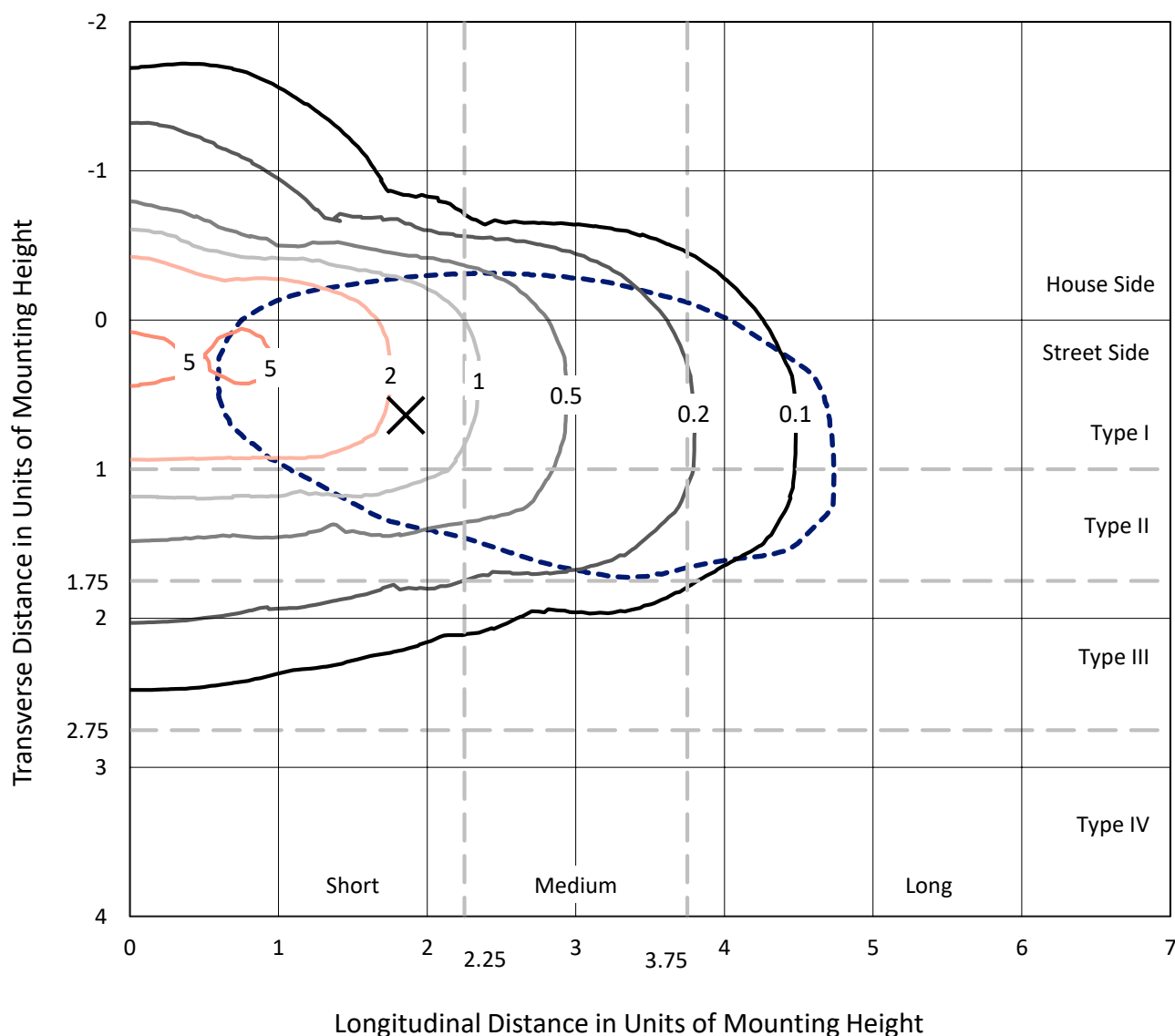
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

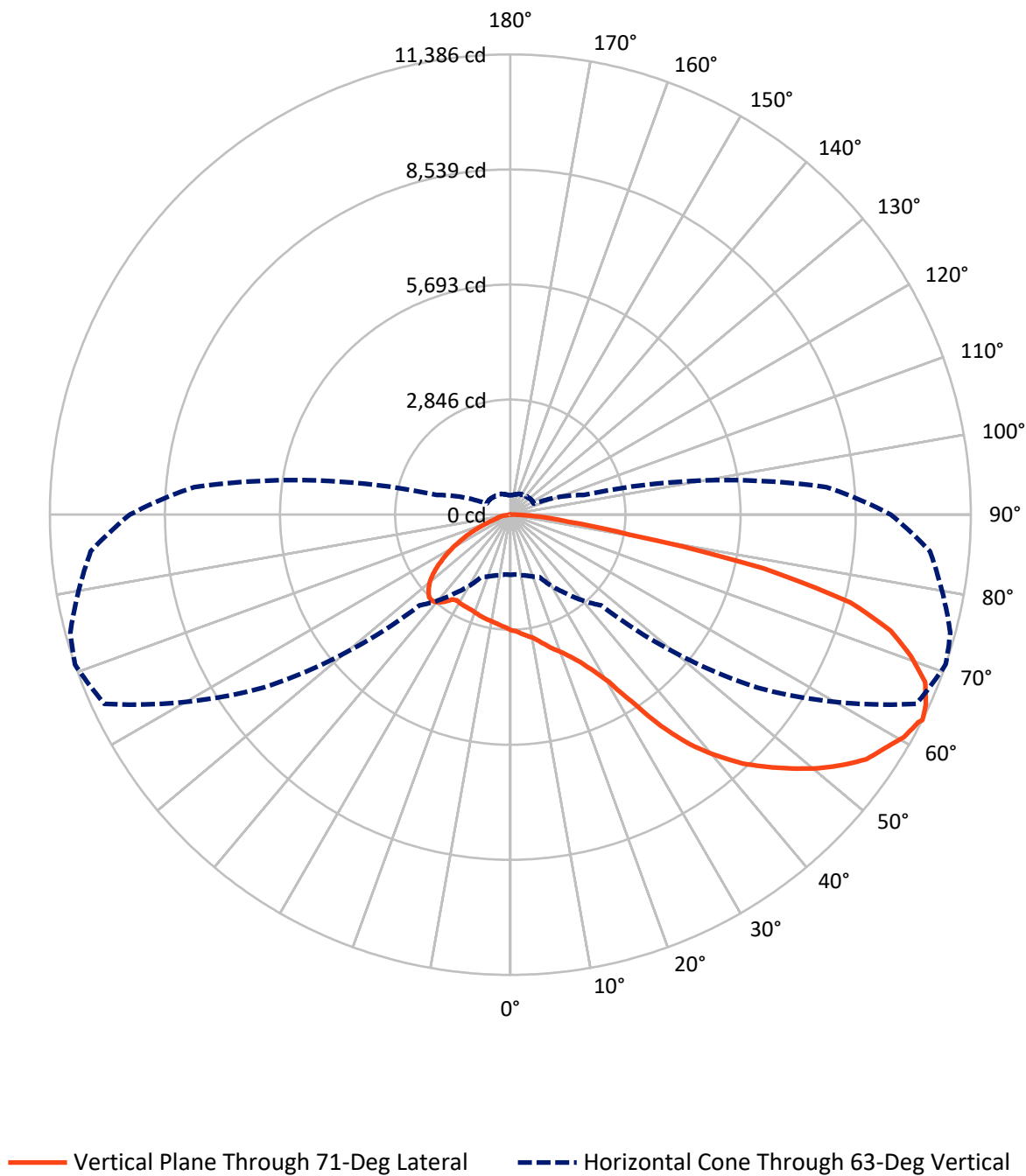


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
Type II - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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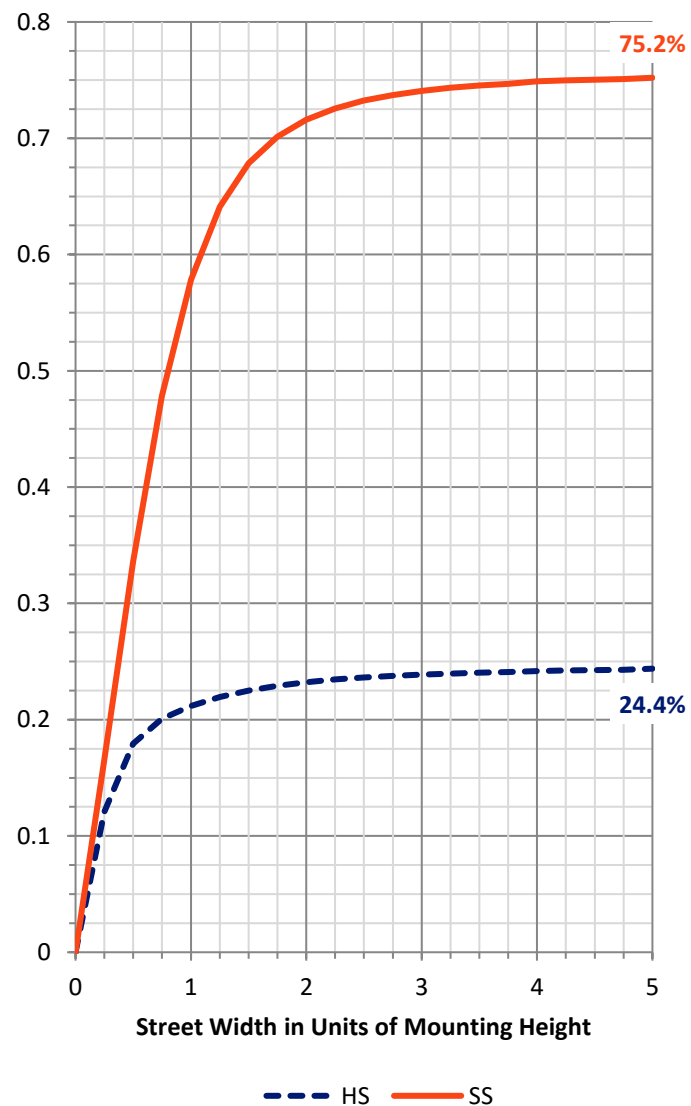
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4181.5   | 0.0    | 4181.5  |
|                    | % Fixture | 24.8     | 0.0    | 24.8    |
| <b>Street Side</b> | Lumens    | 12678.5  | 0.0    | 12678.5 |
|                    | % Fixture | 75.2     | 0.0    | 75.2    |
| <b>Total</b>       | Lumens    | 16860.0  | 0.0    | 16860.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 275.2   | 1.6       |
| 10°-20°   | 839.0   | 5.0       |
| 20°-30°   | 1416.7  | 8.4       |
| 30°-40°   | 2129.1  | 12.6      |
| 40°-50°   | 2926.6  | 17.4      |
| 50°-60°   | 3402.9  | 20.2      |
| 60°-70°   | 3383.2  | 20.1      |
| 70°-80°   | 2135.4  | 12.7      |
| 80°-90°   | 351.8   | 2.1       |
| 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°    | 16860.0 | 100.0     |
| 0°-180°   | 16860.0 | 100.0     |

**Coefficient of Utilization**



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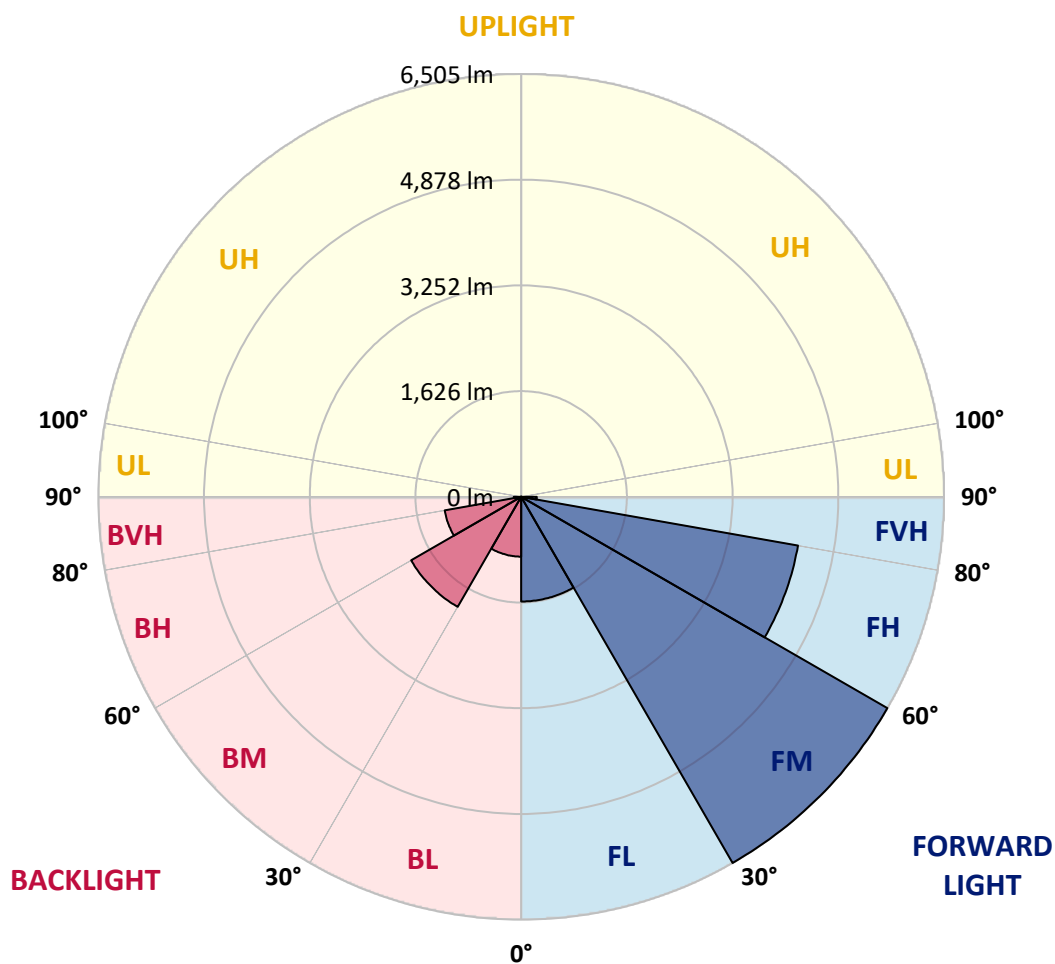
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1610.6 | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 6504.6 | 38.6      |                         |      |         |
| FH   | (60°-80°)   | 4324.0 | 25.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 239.3  | 1.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 920.3  | 5.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1954.1 | 11.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1194.6 | 7.1       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 112.5  | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 71°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2861.9 | 2861.9 | 2861.9 | 2861.9 | 2861.9 | 2861.9 | 2861.9 | 2861.9  | 2861.9  | 2861.9  | 2861.9  |
| 2.5°  | 3064.3 | 3059.4 | 3052.8 | 3010.8 | 3003.4 | 2977.9 | 2950.7 | 2921.1  | 2888.2  | 2892.3  | 2852.0  |
| 5°    | 3236.3 | 3225.6 | 3221.5 | 3158.9 | 3112.8 | 3084.9 | 3047.8 | 2980.4  | 2961.4  | 2946.6  | 2868.4  |
| 7.5°  | 3374.5 | 3379.4 | 3370.4 | 3311.1 | 3265.1 | 3219.0 | 3153.2 | 3053.6  | 3028.9  | 2997.6  | 2920.3  |
| 10°   | 3486.4 | 3498.8 | 3492.2 | 3424.7 | 3385.2 | 3339.9 | 3260.1 | 3158.1  | 3101.3  | 3056.1  | 2932.6  |
| 12.5° | 3621.4 | 3614.0 | 3615.6 | 3551.4 | 3516.9 | 3455.1 | 3396.7 | 3280.7  | 3215.7  | 3153.2  | 2989.4  |
| 15°   | 3790.0 | 3780.2 | 3767.8 | 3706.1 | 3654.3 | 3618.1 | 3555.5 | 3426.3  | 3355.6  | 3296.3  | 3079.9  |
| 17.5° | 3939.8 | 3905.2 | 3899.5 | 3831.2 | 3790.0 | 3741.5 | 3698.7 | 3588.4  | 3500.4  | 3423.9  | 3179.5  |
| 20°   | 4040.2 | 4022.9 | 3999.9 | 3960.4 | 3943.1 | 3906.9 | 3853.4 | 3732.4  | 3633.7  | 3555.5  | 3264.2  |
| 22.5° | 4107.7 | 4097.8 | 4097.8 | 4085.4 | 4093.7 | 4078.9 | 4036.1 | 3921.7  | 3820.5  | 3709.4  | 3394.2  |
| 25°   | 4127.4 | 4097.0 | 4140.6 | 4188.3 | 4245.9 | 4271.4 | 4231.9 | 4152.9  | 4051.7  | 3943.1  | 3562.1  |
| 27.5° | 4141.4 | 4136.5 | 4190.8 | 4272.2 | 4417.9 | 4476.3 | 4476.3 | 4431.9  | 4366.9  | 4238.5  | 3805.7  |
| 30°   | 4143.0 | 4144.7 | 4217.9 | 4343.8 | 4540.5 | 4702.6 | 4710.8 | 4829.3  | 4795.6  | 4696.8  | 4178.4  |
| 32.5° | 4025.4 | 4021.3 | 4131.5 | 4351.2 | 4635.1 | 4893.5 | 5027.6 | 5352.6  | 5508.1  | 5514.7  | 4989.8  |
| 35°   | 3787.6 | 3818.0 | 3991.6 | 4278.8 | 4701.8 | 5110.7 | 5420.9 | 6083.3  | 6419.9  | 6411.6  | 5782.2  |
| 37.5° | 3600.0 | 3624.6 | 3824.6 | 4201.5 | 4745.4 | 5309.0 | 5862.8 | 6894.6  | 7205.7  | 7178.5  | 6413.3  |
| 40°   | 3429.6 | 3458.4 | 3657.6 | 4066.5 | 4730.6 | 5534.5 | 6354.0 | 7596.5  | 7832.7  | 7794.8  | 7007.4  |
| 42.5° | 3225.6 | 3247.0 | 3444.4 | 3878.1 | 4688.6 | 5689.2 | 6795.9 | 8237.5  | 8414.4  | 8312.4  | 7472.3  |
| 45°   | 3023.1 | 3038.8 | 3254.4 | 3631.2 | 4556.1 | 5791.2 | 7237.0 | 8820.1  | 8902.4  | 8820.9  | 7985.7  |
| 47.5° | 2766.4 | 2782.1 | 3031.4 | 3415.6 | 4328.2 | 5787.9 | 7649.2 | 9311.4  | 9388.7  | 9280.1  | 8372.5  |
| 50°   | 2127.1 | 2142.7 | 2653.7 | 3195.1 | 4010.6 | 5709.7 | 7979.2 | 9766.4  | 9862.7  | 9703.9  | 8808.6  |
| 52.5° | 1932.9 | 1940.3 | 2079.3 | 2921.1 | 3604.9 | 5491.7 | 8219.4 | 10173.7 | 10291.4 | 10118.6 | 9187.1  |
| 55°   | 1844.0 | 1837.4 | 1894.2 | 2352.5 | 3292.2 | 5144.4 | 8402.1 | 10559.6 | 10679.7 | 10506.1 | 9524.5  |
| 57.5° | 1704.1 | 1714.8 | 1811.1 | 2014.3 | 3009.2 | 4510.9 | 8337.1 | 10921.7 | 10910.1 | 10776.8 | 9856.1  |
| 60°   | 1603.7 | 1608.7 | 1704.1 | 1848.9 | 2670.1 | 3790.0 | 8062.3 | 11122.4 | 11177.6 | 10999.8 | 10142.4 |
| 62.5° | 1499.2 | 1505.8 | 1587.3 | 1718.9 | 2406.0 | 3260.9 | 7621.2 | 11110.9 | 11319.9 | 11210.5 | 10401.6 |
| 63°   | 1486.1 | 1484.4 | 1558.5 | 1701.7 | 2365.7 | 3171.3 | 7459.1 | 11074.7 | 11385.8 | 11262.3 | 10414.0 |
| 65°   | 1382.4 | 1389.0 | 1468.0 | 1599.6 | 2192.9 | 2925.2 | 7000.8 | 10830.3 | 11293.6 | 11304.3 | 10527.5 |
| 67.5° | 1231.8 | 1241.7 | 1309.2 | 1430.9 | 1862.9 | 2565.6 | 5797.8 | 10689.6 | 11059.9 | 11124.9 | 10384.3 |
| 70°   | 1054.1 | 1064.8 | 1135.5 | 1248.3 | 1579.0 | 2190.4 | 4309.3 | 10079.1 | 10511.1 | 10627.1 | 9737.6  |
| 72.5° | 835.2  | 849.2  | 938.9  | 1052.4 | 1295.2 | 1799.6 | 3033.0 | 9081.8  | 9836.3  | 9860.2  | 8834.9  |
| 75°   | 544.7  | 555.4  | 685.4  | 844.2  | 1047.5 | 1425.2 | 2003.6 | 6953.1  | 8687.6  | 8834.1  | 7572.7  |
| 77.5° | 321.7  | 336.5  | 400.7  | 464.9  | 663.2  | 1073.8 | 1301.7 | 3702.8  | 6399.3  | 6865.8  | 5975.5  |
| 80°   | 87.2   | 96.3   | 303.6  | 354.6  | 423.8  | 463.3  | 801.5  | 2044.0  | 2962.3  | 3761.2  | 4024.6  |
| 82.5° | 45.3   | 56.0   | 169.5  | 227.9  | 242.7  | 235.3  | 370.3  | 950.4   | 1448.2  | 1696.7  | 2020.9  |
| 85°   | 20.6   | 24.7   | 56.0   | 83.1   | 67.5   | 64.2   | 123.4  | 496.2   | 809.7   | 939.7   | 1016.2  |
| 87.5° | 7.4    | 9.1    | 19.7   | 30.4   | 18.1   | 14.0   | 17.3   | 149.8   | 312.7   | 395.0   | 358.8   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2861.9 | 2861.9 | 2861.9 | 2861.9 | 2861.9 | 2861.9 | 2861.9 | 2861.9 | 2861.9 | 2861.9 | 2861.9 |
| 2.5°  | 2823.2 | 2847.9 | 2815.0 | 2777.1 | 2750.8 | 2736.0 | 2723.6 | 2695.7 | 2703.9 | 2714.6 | 2712.9 |
| 5°    | 2850.3 | 2853.6 | 2777.1 | 2728.6 | 2671.0 | 2638.1 | 2625.7 | 2578.0 | 2582.9 | 2587.9 | 2587.0 |
| 7.5°  | 2867.6 | 2837.2 | 2744.2 | 2673.4 | 2612.5 | 2562.3 | 2515.4 | 2467.7 | 2458.7 | 2467.7 | 2475.1 |
| 10°   | 2872.6 | 2826.5 | 2721.2 | 2622.4 | 2540.1 | 2468.5 | 2427.4 | 2352.5 | 2339.4 | 2357.5 | 2369.0 |
| 12.5° | 2917.8 | 2841.3 | 2704.7 | 2588.7 | 2492.4 | 2397.8 | 2326.2 | 2243.1 | 2203.6 | 2218.4 | 2232.4 |
| 15°   | 2973.8 | 2867.6 | 2690.7 | 2545.9 | 2417.5 | 2311.4 | 2217.6 | 2127.9 | 2078.5 | 2098.3 | 2108.1 |
| 17.5° | 3041.2 | 2916.2 | 2689.9 | 2476.0 | 2337.7 | 2209.3 | 2114.7 | 2017.6 | 1926.3 | 1958.4 | 1947.7 |
| 20°   | 3116.1 | 2958.1 | 2685.0 | 2410.9 | 2239.8 | 2085.1 | 1959.2 | 1895.0 | 1800.4 | 1801.2 | 1787.2 |
| 22.5° | 3205.0 | 3015.7 | 2679.2 | 2349.2 | 2120.5 | 1964.1 | 1807.0 | 1732.9 | 1655.6 | 1626.8 | 1617.7 |
| 25°   | 3344.9 | 3107.9 | 2689.1 | 2307.3 | 2017.6 | 1806.2 | 1621.8 | 1526.4 | 1493.5 | 1457.3 | 1441.6 |
| 27.5° | 3535.0 | 3236.3 | 2710.5 | 2253.8 | 1888.4 | 1639.1 | 1412.8 | 1320.7 | 1297.6 | 1270.5 | 1252.4 |
| 30°   | 3813.9 | 3419.8 | 2736.0 | 2192.9 | 1738.7 | 1412.8 | 1204.7 | 1138.0 | 1101.0 | 1087.0 | 1076.3 |
| 32.5° | 4522.4 | 3935.7 | 2755.7 | 2113.1 | 1583.2 | 1194.8 | 1044.2 | 977.5  | 925.7  | 901.0  | 903.5  |
| 35°   | 5248.9 | 4561.0 | 2895.6 | 2017.6 | 1392.3 | 1012.9 | 903.5  | 821.2  | 757.8  | 741.4  | 729.9  |
| 37.5° | 5818.4 | 5075.3 | 3215.7 | 1921.4 | 1209.6 | 907.6  | 765.2  | 693.7  | 640.2  | 636.1  | 661.6  |
| 40°   | 6355.7 | 5547.6 | 3479.8 | 1810.3 | 1020.3 | 787.5  | 625.4  | 596.6  | 572.7  | 578.5  | 613.0  |
| 42.5° | 6801.7 | 5971.4 | 3697.1 | 1650.6 | 867.3  | 651.7  | 534.0  | 564.5  | 571.9  | 579.3  | 581.8  |
| 45°   | 7238.6 | 6305.5 | 3814.7 | 1441.6 | 732.3  | 542.3  | 524.2  | 580.9  | 593.3  | 604.0  | 590.8  |
| 47.5° | 7689.5 | 6682.4 | 3813.1 | 1184.9 | 631.1  | 529.9  | 544.7  | 580.9  | 602.3  | 615.5  | 611.4  |
| 50°   | 8049.9 | 6962.1 | 3764.5 | 932.3  | 605.6  | 558.7  | 555.4  | 557.1  | 591.6  | 600.7  | 601.5  |
| 52.5° | 8391.4 | 7226.3 | 3564.6 | 766.1  | 641.0  | 591.6  | 567.8  | 548.0  | 562.8  | 584.2  | 560.4  |
| 55°   | 8724.7 | 7455.8 | 3209.9 | 720.8  | 658.3  | 619.6  | 593.3  | 558.7  | 543.9  | 539.0  | 547.2  |
| 57.5° | 8998.7 | 7646.7 | 2793.6 | 700.2  | 663.2  | 622.1  | 636.9  | 557.9  | 541.4  | 503.6  | 499.5  |
| 60°   | 9266.1 | 7827.8 | 2383.8 | 671.4  | 659.1  | 617.1  | 594.1  | 571.9  | 532.4  | 475.6  | 455.0  |
| 62.5° | 9432.3 | 7883.7 | 1955.1 | 646.8  | 641.0  | 611.4  | 579.3  | 568.6  | 523.3  | 479.7  | 474.0  |
| 63°   | 9408.4 | 7844.2 | 1880.2 | 642.6  | 636.9  | 607.3  | 580.1  | 564.5  | 519.2  | 484.7  | 482.2  |
| 65°   | 9466.0 | 7617.9 | 1549.4 | 617.1  | 619.6  | 595.7  | 567.8  | 539.8  | 482.2  | 457.5  | 453.4  |
| 67.5° | 9192.9 | 7204.9 | 1118.3 | 570.2  | 593.3  | 577.6  | 543.1  | 492.1  | 438.6  | 406.5  | 404.8  |
| 70°   | 8476.2 | 6422.3 | 768.5  | 486.3  | 551.3  | 552.1  | 530.7  | 464.9  | 406.5  | 370.3  | 375.2  |
| 72.5° | 7463.2 | 5611.8 | 495.4  | 378.5  | 474.0  | 507.7  | 495.4  | 439.4  | 362.9  | 297.0  | 292.1  |
| 75°   | 6376.3 | 4576.7 | 365.3  | 305.3  | 349.7  | 451.7  | 432.8  | 357.9  | 304.5  | 262.5  | 259.2  |
| 77.5° | 4785.7 | 3309.5 | 323.4  | 260.8  | 260.0  | 306.1  | 356.3  | 352.2  | 361.2  | 434.5  | 424.6  |
| 80°   | 3312.8 | 2335.2 | 257.6  | 211.5  | 158.8  | 193.4  | 300.3  | 372.8  | 464.9  | 269.9  | 253.4  |
| 82.5° | 1917.2 | 1268.0 | 83.9   | 66.7   | 97.1   | 125.1  | 220.5  | 463.3  | 307.7  | 161.3  | 144.8  |
| 85°   | 902.7  | 481.4  | 36.2   | 20.6   | 28.8   | 42.0   | 124.3  | 391.7  | 196.7  | 80.6   | 14.8   |
| 87.5° | 279.8  | 132.5  | 8.2    | 6.6    | 7.4    | 9.1    | 52.7   | 205.7  | 134.9  | 9.1    | 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)