

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: P1211035

Luminaire Tested: **ARCH4-150-727-U-T3RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-150-727-U-T3RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 23034 lumens  
Efficiency: N/A  
Efficacy: 152.7 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 150.8  
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: 24 FT

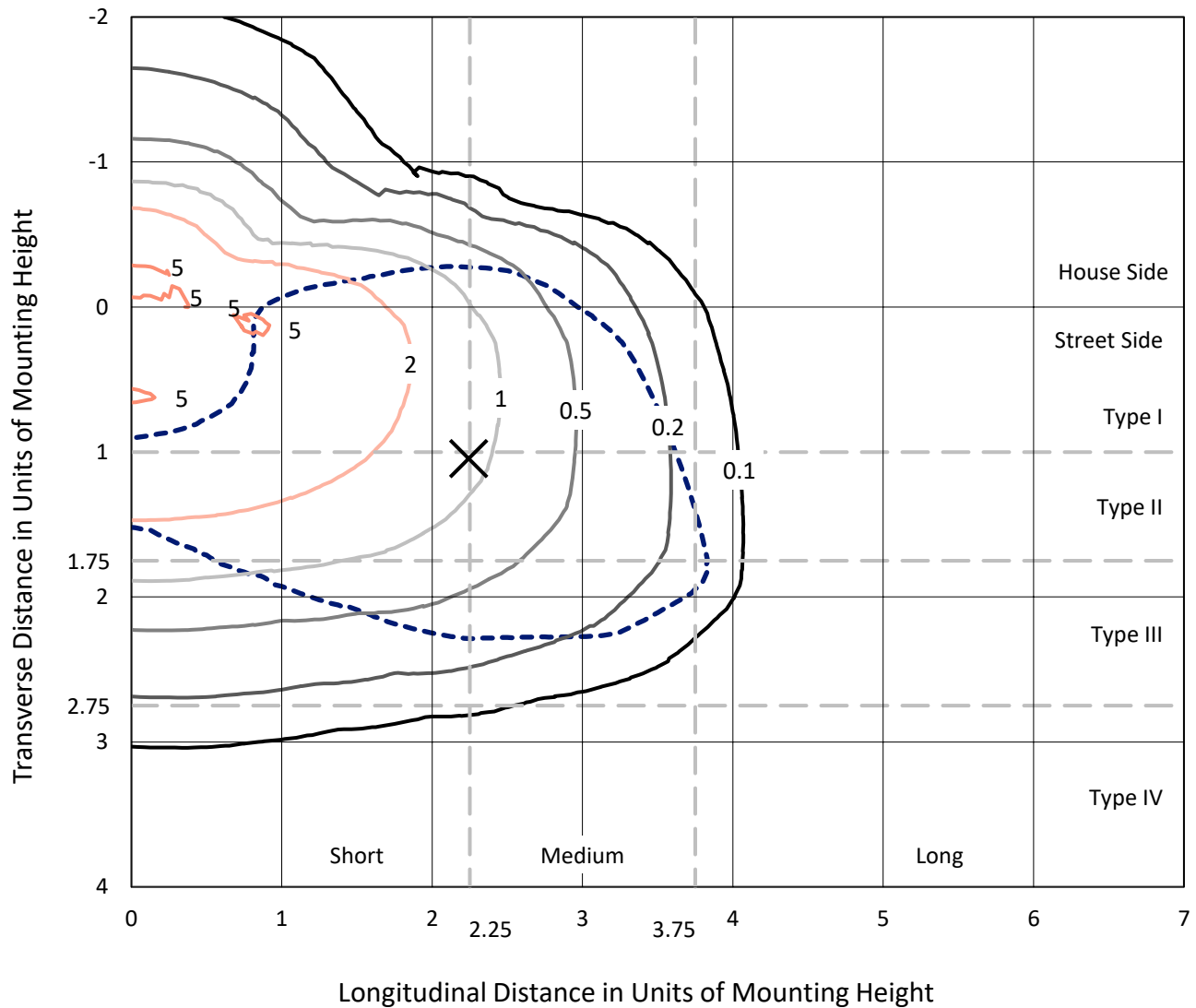


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

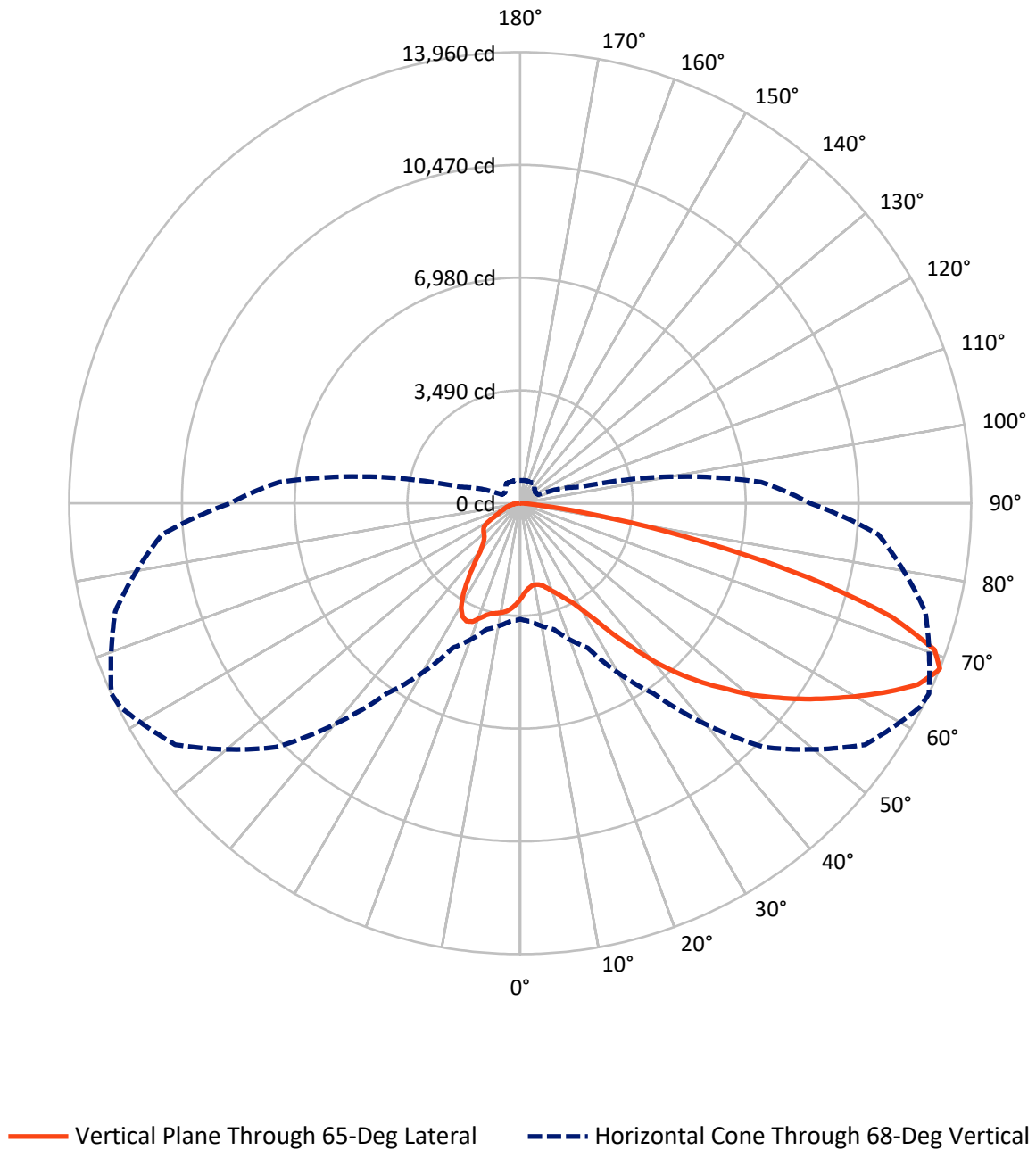


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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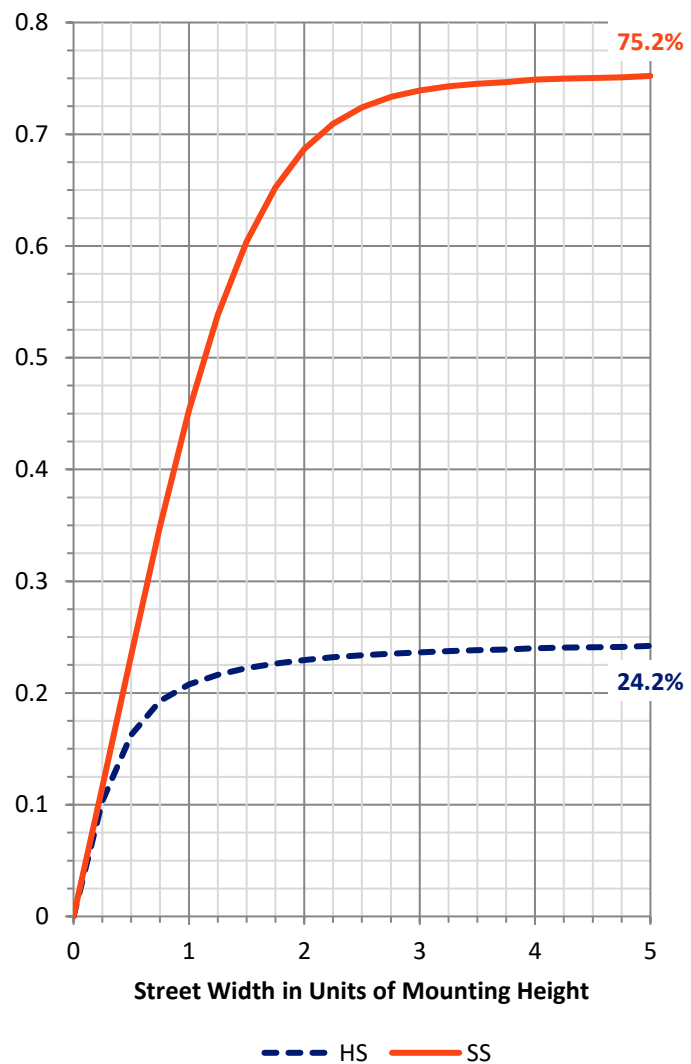
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5647.3   | 0.0    | 5647.3  |
|                    | % Fixture | 24.5     | 0.0    | 24.5    |
| <b>Street Side</b> | Lumens    | 17386.7  | 0.0    | 17386.7 |
|                    | % Fixture | 75.5     | 0.0    | 75.5    |
| <b>Total</b>       | Lumens    | 23034.0  | 0.0    | 23034.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 281.3   | 1.2       |
| 10°-20°   | 915.9   | 4.0       |
| 20°-30°   | 1657.8  | 7.2       |
| 30°-40°   | 2607.8  | 11.3      |
| 40°-50°   | 3884.1  | 16.9      |
| 50°-60°   | 5095.1  | 22.1      |
| 60°-70°   | 5571.8  | 24.2      |
| 70°-80°   | 2757.1  | 12.0      |
| 80°-90°   | 263.0   | 1.1       |
| 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°    | 23034.0 | 100.0     |
| 0°-180°   | 23034.0 | 100.0     |

**Coefficient of Utilization**



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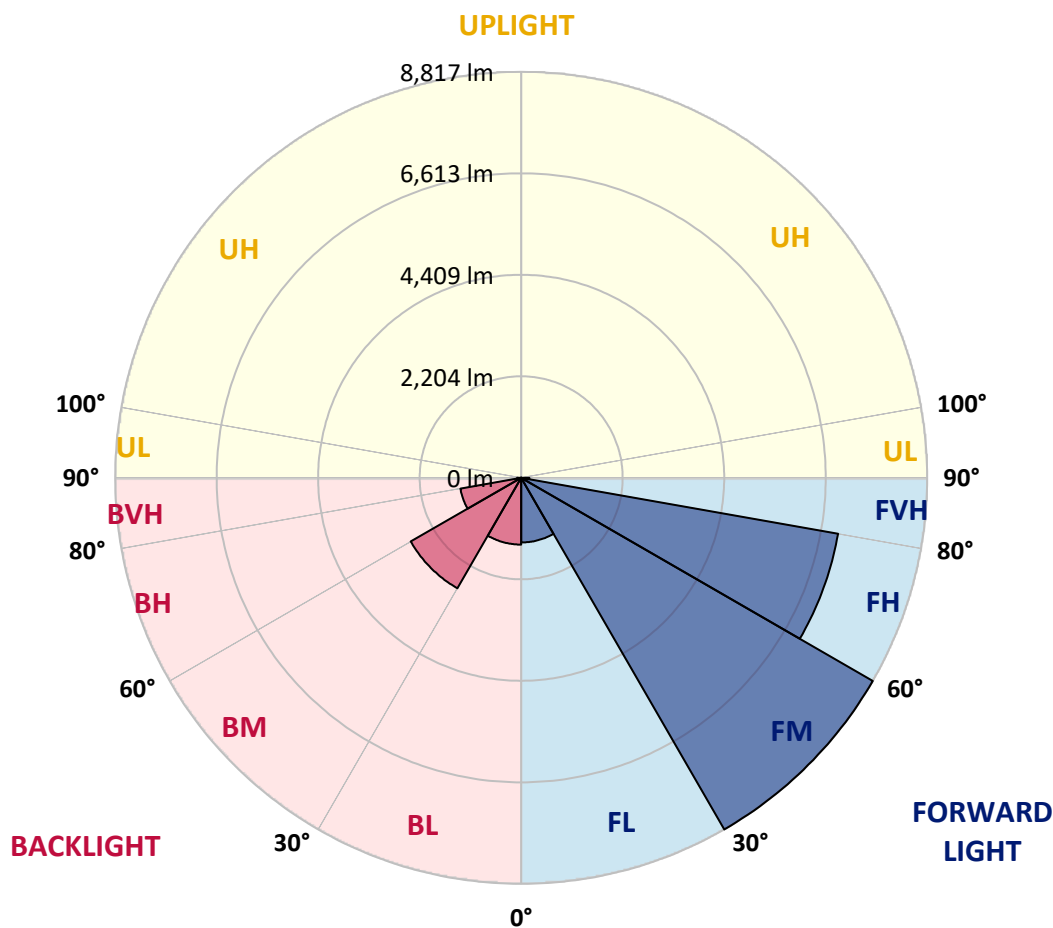
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1404.2 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 8817.1 | 38.3      |                         |      |         |
| FH   | (60°-80°)   | 6988.6 | 30.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 176.9  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1450.8 | 6.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2769.9 | 12.0      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1340.4 | 5.8       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 86.1   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 63°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 2943.5 | 2943.5 | 2943.5 | 2943.5 | 2943.5 | 2943.5  | 2943.5  | 2943.5  | 2943.5  | 2943.5  | 2943.5  |
| 2.5°  | 2569.2 | 2563.3 | 2578.1 | 2593.0 | 2625.7 | 2664.3  | 2717.7  | 2762.3  | 2768.2  | 2851.4  | 2916.7  |
| 5°    | 2417.7 | 2408.8 | 2423.7 | 2441.5 | 2456.4 | 2503.9  | 2560.3  | 2625.7  | 2652.4  | 2774.2  | 2913.8  |
| 7.5°  | 2432.6 | 2429.6 | 2435.6 | 2429.6 | 2429.6 | 2450.4  | 2489.0  | 2554.4  | 2584.1  | 2729.6  | 2928.6  |
| 10°   | 2518.7 | 2524.7 | 2527.6 | 2509.8 | 2492.0 | 2483.1  | 2495.0  | 2539.5  | 2560.3  | 2732.6  | 2994.0  |
| 12.5° | 2661.3 | 2670.2 | 2673.2 | 2640.5 | 2616.7 | 2578.1  | 2557.3  | 2575.2  | 2590.0  | 2762.3  | 3086.0  |
| 15°   | 2854.4 | 2860.3 | 2839.5 | 2818.7 | 2759.3 | 2711.8  | 2661.3  | 2646.4  | 2652.4  | 2824.7  | 3190.0  |
| 17.5° | 3080.1 | 3071.2 | 3071.2 | 3020.7 | 2943.5 | 2869.2  | 2786.0  | 2774.2  | 2774.2  | 2925.6  | 3338.5  |
| 20°   | 3326.6 | 3335.5 | 3308.8 | 3240.5 | 3163.3 | 3047.4  | 2964.3  | 2910.8  | 2916.7  | 3041.5  | 3519.7  |
| 22.5° | 3683.0 | 3697.9 | 3626.6 | 3528.6 | 3409.8 | 3276.1  | 3157.3  | 3071.2  | 3074.2  | 3193.0  | 3706.8  |
| 25°   | 4066.2 | 4072.1 | 4027.6 | 3896.9 | 3736.5 | 3546.4  | 3389.0  | 3279.1  | 3276.1  | 3362.3  | 3947.4  |
| 27.5° | 4458.3 | 4485.0 | 4395.9 | 4271.1 | 4122.6 | 3885.0  | 3677.1  | 3528.6  | 3504.8  | 3620.7  | 4247.4  |
| 30°   | 4862.2 | 4894.9 | 4808.7 | 4687.0 | 4502.8 | 4300.8  | 4054.3  | 3882.0  | 3867.2  | 4021.6  | 4648.4  |
| 32.5° | 5269.1 | 5278.0 | 5209.7 | 5108.7 | 4942.4 | 4752.3  | 4553.3  | 4363.2  | 4348.4  | 4600.8  | 5168.1  |
| 35°   | 5601.8 | 5628.5 | 5581.0 | 5557.2 | 5435.5 | 5260.2  | 5067.2  | 4957.3  | 4995.9  | 5319.6  | 5842.4  |
| 37.5° | 6002.8 | 6029.5 | 5976.0 | 5970.1 | 5931.5 | 5780.0  | 5646.3  | 5655.3  | 5693.9  | 6133.5  | 6552.3  |
| 40°   | 6582.0 | 6611.7 | 6475.0 | 6415.6 | 6415.6 | 6267.1  | 6222.6  | 6433.4  | 6483.9  | 6935.4  | 7291.8  |
| 42.5° | 7072.0 | 7119.6 | 7039.4 | 7000.8 | 6884.9 | 6781.0  | 6834.4  | 7131.4  | 7217.6  | 7701.7  | 7936.4  |
| 45°   | 7309.7 | 7345.3 | 7440.3 | 7553.2 | 7440.3 | 7259.2  | 7461.1  | 7796.8  | 7918.5  | 8408.6  | 8580.9  |
| 47.5° | 7437.4 | 7470.0 | 7579.9 | 7882.9 | 7960.1 | 7808.6  | 8093.8  | 8512.6  | 8595.7  | 9109.6  | 9195.7  |
| 50°   | 7455.2 | 7559.2 | 7701.7 | 8004.7 | 8358.1 | 8378.9  | 8729.4  | 9240.3  | 9338.3  | 9798.7  | 9736.3  |
| 52.5° | 7309.7 | 7351.2 | 7645.3 | 8156.2 | 8548.2 | 8904.7  | 9421.5  | 9938.3  | 10009.6 | 10446.2 | 10214.5 |
| 55°   | 7072.0 | 7131.4 | 7425.5 | 8120.5 | 8732.4 | 9403.6  | 10125.4 | 10624.4 | 10704.6 | 11075.9 | 10657.1 |
| 57.5° | 6858.2 | 6887.9 | 7202.7 | 8016.6 | 8916.5 | 9902.6  | 10752.1 | 11340.2 | 11393.7 | 11628.3 | 10983.8 |
| 60°   | 6620.6 | 6653.2 | 6968.1 | 7793.8 | 9053.2 | 10279.9 | 11405.6 | 12062.0 | 12109.5 | 12210.5 | 11364.0 |
| 62.5° | 6005.7 | 6091.9 | 6486.9 | 7425.5 | 9017.5 | 10710.5 | 12103.6 | 12774.8 | 12834.2 | 12724.3 | 11664.0 |
| 65°   | 4877.1 | 4998.8 | 5483.0 | 6590.9 | 8684.9 | 10989.7 | 12673.8 | 13431.2 | 13532.2 | 13110.4 | 11744.2 |
| 67.5° | 3787.0 | 3873.1 | 4262.2 | 5230.5 | 7517.6 | 10850.1 | 13042.1 | 13882.7 | 13912.4 | 13048.1 | 11298.6 |
| 68°   | 3591.0 | 3677.1 | 4048.4 | 4945.4 | 7193.8 | 10683.8 | 13033.2 | 13894.6 | 13959.9 | 12979.8 | 11126.4 |
| 70°   | 2747.4 | 2845.4 | 3198.9 | 3917.7 | 5797.8 | 9626.4  | 12489.7 | 13609.4 | 13600.5 | 12154.0 | 10057.1 |
| 72.5° | 1716.8 | 1773.2 | 2016.8 | 2471.2 | 3834.5 | 7324.5  | 10600.6 | 12002.6 | 12026.3 | 9908.6  | 7713.6  |
| 75°   | 1090.1 | 1090.1 | 1078.2 | 1197.0 | 1966.3 | 4173.1  | 7879.9  | 9240.3  | 9258.1  | 6938.4  | 4862.2  |
| 77.5° | 947.5  | 920.8  | 793.0  | 671.3  | 784.1  | 1621.7  | 4663.2  | 5967.1  | 5869.1  | 3736.5  | 2307.8  |
| 80°   | 799.0  | 754.4  | 650.5  | 540.6  | 504.9  | 507.9   | 1791.0  | 3029.6  | 2898.9  | 1345.5  | 766.3   |
| 82.5° | 576.2  | 537.6  | 490.1  | 424.7  | 389.1  | 303.0   | 374.2   | 876.2   | 855.4   | 389.1   | 249.5   |
| 85°   | 311.9  | 282.2  | 276.2  | 279.2  | 234.6  | 187.1   | 157.4   | 193.1   | 193.1   | 169.3   | 142.6   |
| 87.5° | 109.9  | 80.2   | 95.0   | 106.9  | 92.1   | 77.2    | 62.4    | 74.3    | 77.2    | 74.3    | 68.3    |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2943.5 | 2943.5 | 2943.5 | 2943.5 | 2943.5 | 2943.5 | 2943.5 | 2943.5 | 2943.5 | 2943.5 | 2943.5 |
| 2.5°  | 2955.3 | 2985.0 | 3056.3 | 3118.7 | 3163.3 | 3201.9 | 3222.7 | 3231.6 | 3252.4 | 3255.3 | 3249.4 |
| 5°    | 2979.1 | 3056.3 | 3163.3 | 3255.3 | 3305.8 | 3326.6 | 3332.6 | 3335.5 | 3326.6 | 3332.6 | 3326.6 |
| 7.5°  | 3041.5 | 3139.5 | 3291.0 | 3371.2 | 3380.1 | 3347.4 | 3350.4 | 3338.5 | 3350.4 | 3362.3 | 3362.3 |
| 10°   | 3136.5 | 3261.3 | 3403.8 | 3433.5 | 3394.9 | 3377.1 | 3412.8 | 3484.0 | 3507.8 | 3540.5 | 3540.5 |
| 12.5° | 3261.3 | 3409.8 | 3510.8 | 3484.0 | 3448.4 | 3507.8 | 3611.8 | 3683.0 | 3706.8 | 3718.7 | 3709.8 |
| 15°   | 3403.8 | 3564.2 | 3614.7 | 3525.6 | 3591.0 | 3718.7 | 3754.3 | 3712.7 | 3653.3 | 3626.6 | 3641.5 |
| 17.5° | 3585.0 | 3718.7 | 3689.0 | 3629.6 | 3778.1 | 3795.9 | 3680.1 | 3546.4 | 3451.4 | 3415.7 | 3439.5 |
| 20°   | 3775.1 | 3891.0 | 3754.3 | 3781.1 | 3873.1 | 3683.0 | 3463.2 | 3291.0 | 3207.8 | 3193.0 | 3216.7 |
| 22.5° | 3977.1 | 4051.3 | 3819.7 | 3956.3 | 3819.7 | 3433.5 | 3169.2 | 3080.1 | 3059.3 | 3083.1 | 3103.9 |
| 25°   | 4205.8 | 4196.9 | 3932.5 | 4009.8 | 3620.7 | 3127.6 | 2970.2 | 2964.3 | 2964.3 | 2979.1 | 3008.8 |
| 27.5° | 4464.2 | 4324.6 | 4045.4 | 3938.5 | 3276.1 | 2875.2 | 2845.4 | 2848.4 | 2839.5 | 2842.5 | 2857.3 |
| 30°   | 4764.2 | 4496.9 | 4170.2 | 3703.8 | 2890.0 | 2685.1 | 2673.2 | 2664.3 | 2643.5 | 2637.5 | 2643.5 |
| 32.5° | 5141.4 | 4678.1 | 4297.9 | 3317.7 | 2551.4 | 2489.0 | 2483.1 | 2435.6 | 2385.1 | 2379.1 | 2399.9 |
| 35°   | 5619.6 | 5007.8 | 4363.2 | 2833.6 | 2272.2 | 2269.2 | 2248.4 | 2174.2 | 2108.8 | 2108.8 | 2094.0 |
| 37.5° | 6166.1 | 5432.5 | 4390.0 | 2361.3 | 2040.5 | 2055.4 | 1996.0 | 1900.9 | 1850.4 | 1820.7 | 1829.6 |
| 40°   | 6724.5 | 5916.6 | 4387.0 | 1948.4 | 1838.6 | 1841.5 | 1797.0 | 1681.1 | 1556.4 | 1482.1 | 1499.9 |
| 42.5° | 7262.1 | 6356.2 | 4309.8 | 1728.7 | 1675.2 | 1666.3 | 1630.6 | 1473.2 | 1369.3 | 1309.9 | 1312.8 |
| 45°   | 7692.8 | 6810.7 | 4190.9 | 1598.0 | 1526.7 | 1541.5 | 1461.3 | 1366.3 | 1271.2 | 1217.8 | 1214.8 |
| 47.5° | 8123.5 | 7155.2 | 4000.9 | 1517.8 | 1416.8 | 1390.1 | 1357.4 | 1292.0 | 1220.8 | 1161.3 | 1164.3 |
| 50°   | 8515.6 | 7449.3 | 3822.6 | 1464.3 | 1315.8 | 1247.5 | 1253.4 | 1214.8 | 1152.4 | 1099.0 | 1096.0 |
| 52.5° | 8791.8 | 7642.3 | 3724.6 | 1434.6 | 1194.0 | 1119.8 | 1140.6 | 1119.8 | 1060.4 | 1021.7 | 1018.8 |
| 55°   | 9068.0 | 7790.8 | 3757.3 | 1396.0 | 1060.4 | 1001.0 | 1036.6 | 1030.7 | 998.0  | 986.1  | 989.1  |
| 57.5° | 9290.8 | 7903.7 | 3873.1 | 1324.7 | 932.6  | 897.0  | 956.4  | 938.6  | 914.8  | 917.8  | 917.8  |
| 60°   | 9507.6 | 8049.2 | 4009.8 | 1161.3 | 822.7  | 825.7  | 882.1  | 849.5  | 834.6  | 861.4  | 864.3  |
| 62.5° | 9733.3 | 8206.7 | 3896.9 | 923.7  | 727.7  | 748.5  | 813.8  | 787.1  | 793.0  | 831.7  | 843.5  |
| 65°   | 9706.6 | 8191.8 | 3175.1 | 757.4  | 644.5  | 686.1  | 784.1  | 775.2  | 778.2  | 793.0  | 799.0  |
| 67.5° | 9160.1 | 7669.0 | 2183.1 | 644.5  | 585.1  | 635.6  | 760.4  | 724.7  | 727.7  | 718.8  | 721.8  |
| 68°   | 8975.9 | 7484.9 | 1924.7 | 626.7  | 573.2  | 623.7  | 748.5  | 715.8  | 718.8  | 709.9  | 706.9  |
| 70°   | 7972.0 | 6409.7 | 1217.8 | 552.5  | 531.7  | 591.1  | 689.1  | 677.2  | 674.2  | 668.3  | 668.3  |
| 72.5° | 6077.0 | 4731.5 | 641.6  | 478.2  | 484.1  | 540.6  | 614.8  | 638.6  | 623.7  | 626.7  | 644.5  |
| 75°   | 4024.6 | 2845.4 | 445.5  | 409.9  | 424.7  | 463.4  | 546.5  | 594.0  | 579.2  | 588.1  | 579.2  |
| 77.5° | 2129.6 | 1532.6 | 356.4  | 347.5  | 347.5  | 374.2  | 451.5  | 525.7  | 525.7  | 519.8  | 510.9  |
| 80°   | 698.0  | 540.6  | 285.1  | 273.3  | 279.2  | 294.0  | 362.4  | 430.7  | 439.6  | 427.7  | 421.8  |
| 82.5° | 234.6  | 249.5  | 213.9  | 199.0  | 204.9  | 216.8  | 273.3  | 329.7  | 332.7  | 308.9  | 303.0  |
| 85°   | 145.5  | 166.3  | 133.7  | 130.7  | 130.7  | 133.7  | 166.3  | 181.2  | 166.3  | 148.5  | 154.5  |
| 87.5° | 68.3   | 83.2   | 62.4   | 53.5   | 44.6   | 38.6   | 29.7   | 11.9   | 11.9   | 5.9    | 5.9    |
| 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)