

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: P836309

Luminaire Tested: **ARCH3-170-722-U-T2U**

Issue Date: 5/16/2024

### Test Information

Test Method: LM-79-08  
Report Number: P836309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-170-722-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20356 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 170.6  
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

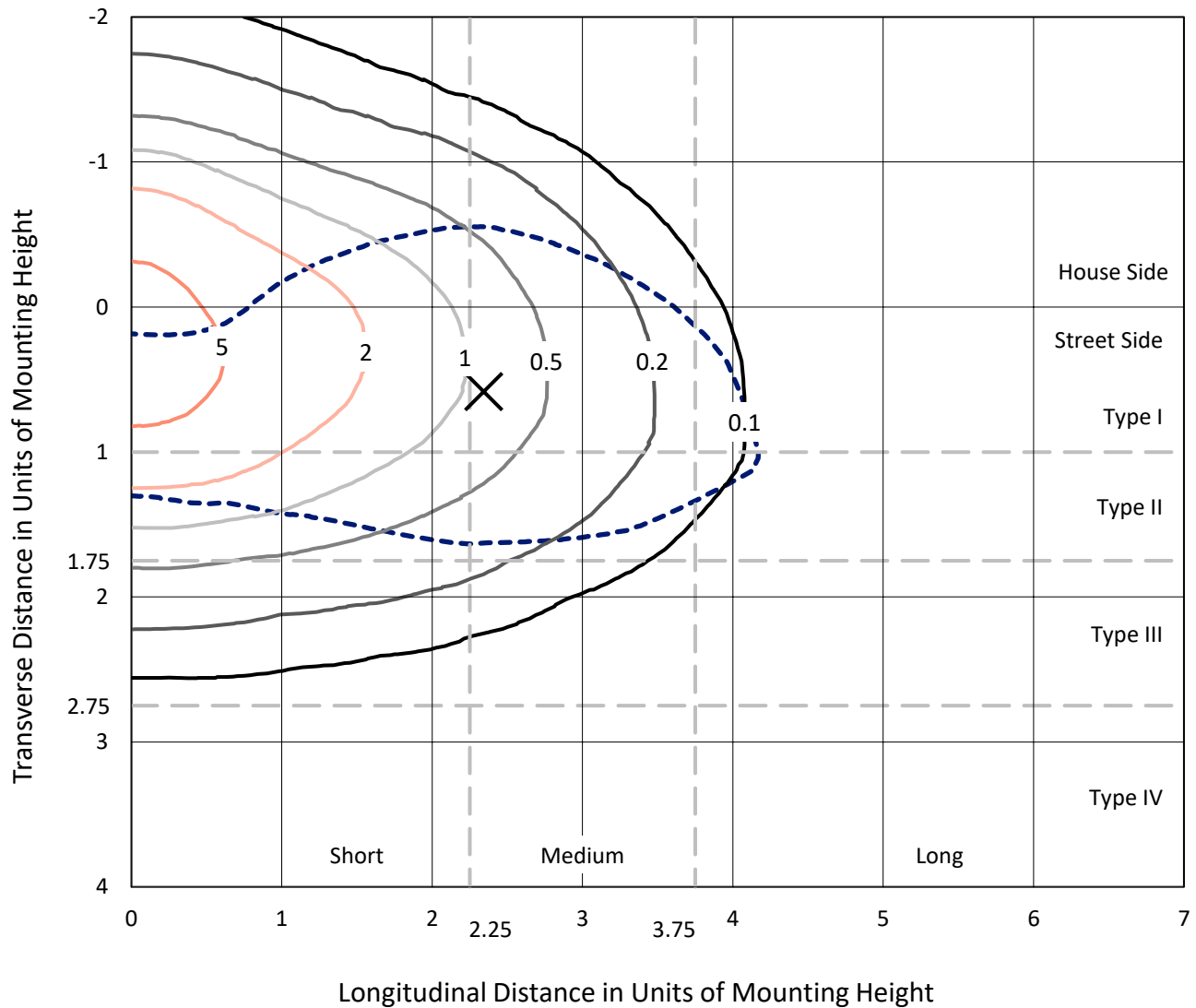


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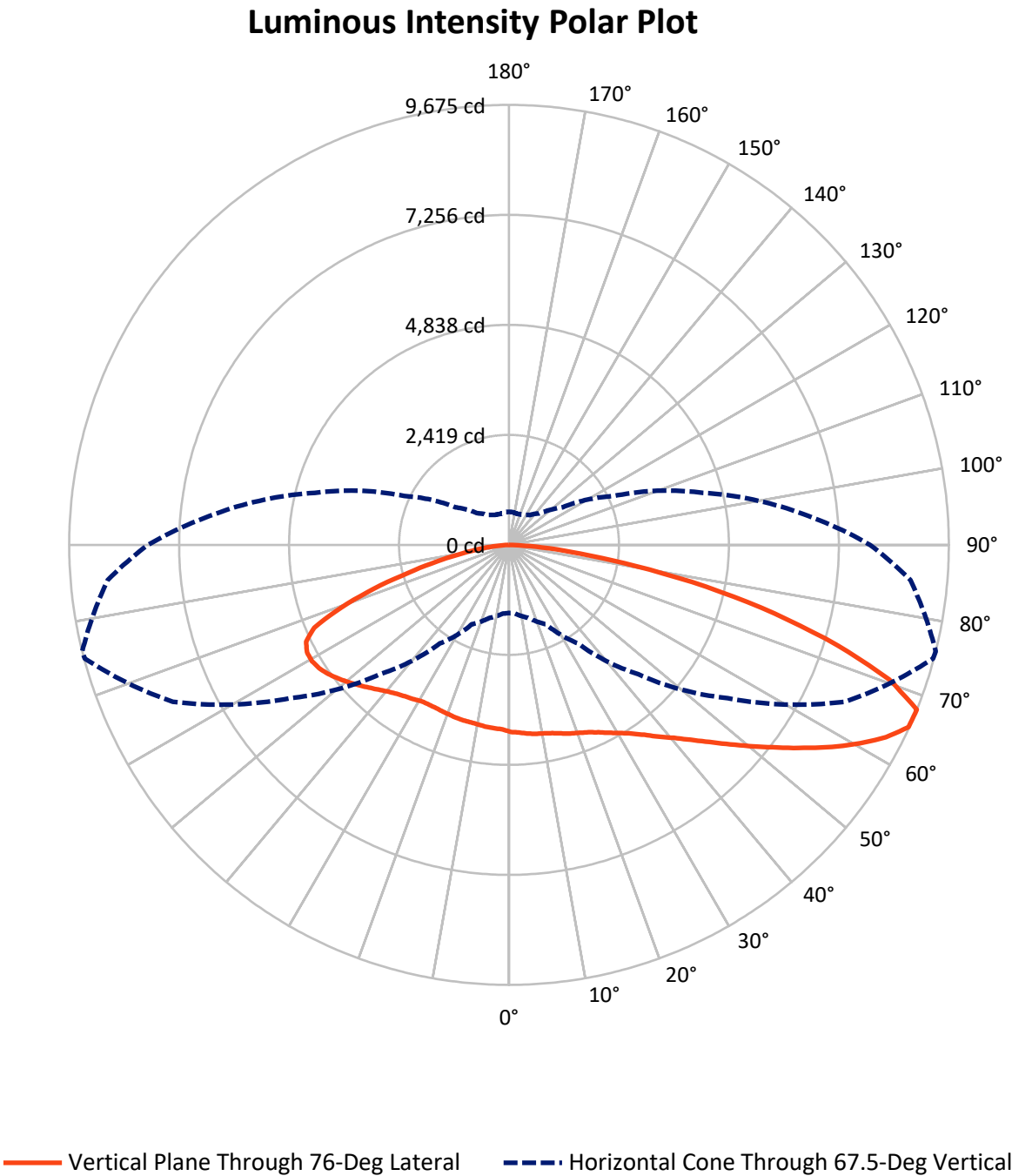
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
Type II - Medium - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6878.4   | 0.0    | 6878.4  |
|                    | % Fixture | 33.8     | 0.0    | 33.8    |
| <b>Street Side</b> | Lumens    | 13477.6  | 0.0    | 13477.6 |
|                    | % Fixture | 66.2     | 0.0    | 66.2    |
| <b>Total</b>       | Lumens    | 20356.0  | 0.0    | 20356.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 396.5   | 1.9       |
| 10°-20°   | 1212.2  | 6.0       |
| 20°-30°   | 2059.5  | 10.1      |
| 30°-40°   | 2930.4  | 14.4      |
| 40°-50°   | 3701.0  | 18.2      |
| 50°-60°   | 4007.0  | 19.7      |
| 60°-70°   | 3727.0  | 18.3      |
| 70°-80°   | 2001.7  | 9.8       |
| 80°-90°   | 320.8   | 1.6       |
| 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°    | 20356.0 | 100.0     |
| 0°-180°   | 20356.0 | 100.0     |

**Coefficient of Utilization**



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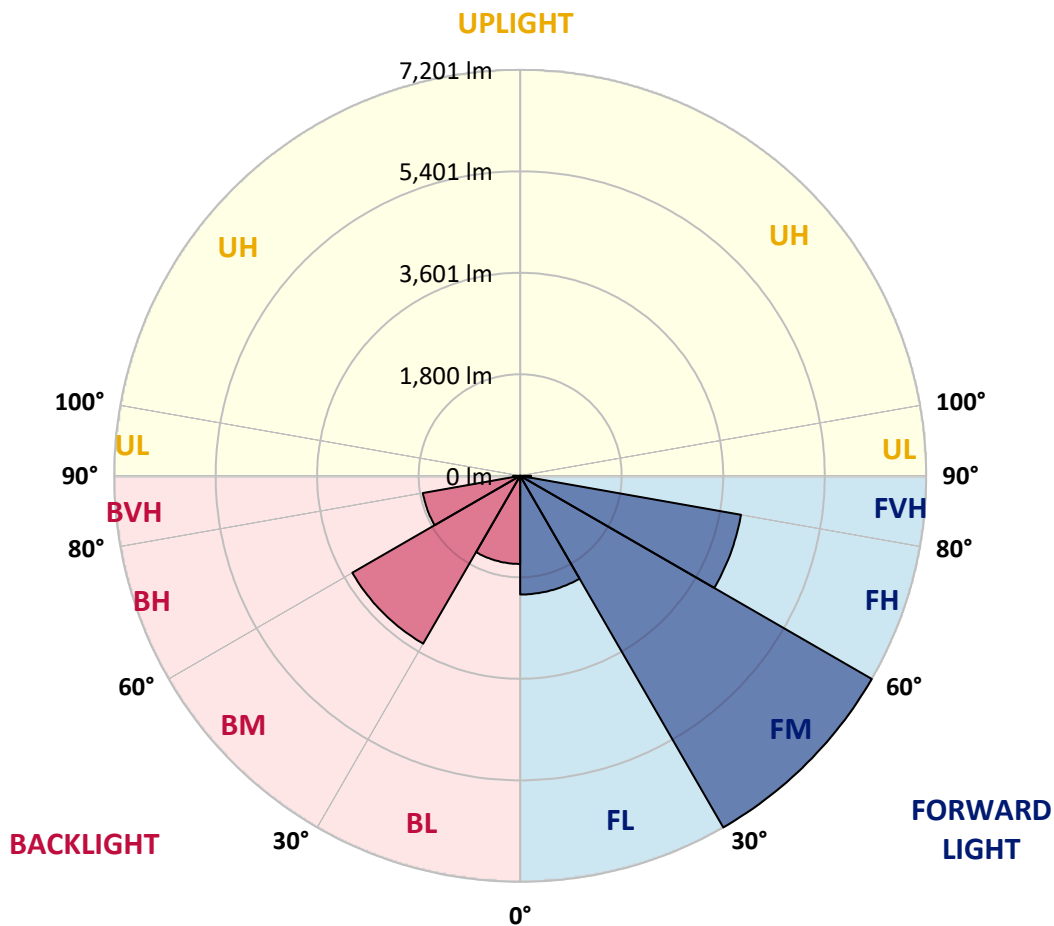
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2105.0 | 10.3      |                         |      |         |
| FM   | (30°-60°)   | 7201.2 | 35.4      |                         |      |         |
| FH   | (60°-80°)   | 3977.4 | 19.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 194.0  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1563.1 | 7.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3437.2 | 16.9      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1751.3 | 8.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 126.7  | 0.6       |                         |      | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 |
| 2.5°  | 4236.6 | 4229.0 | 4198.8 | 4202.6 | 4202.6 | 4198.8 | 4153.4 | 4134.5 | 4134.5 | 4130.8 | 4089.2 |
| 5°    | 4387.8 | 4376.4 | 4342.4 | 4334.8 | 4319.7 | 4300.8 | 4229.0 | 4187.5 | 4168.6 | 4164.8 | 4108.1 |
| 7.5°  | 4565.4 | 4550.3 | 4508.7 | 4486.0 | 4448.2 | 4399.1 | 4308.4 | 4244.1 | 4198.8 | 4195.0 | 4115.6 |
| 10°   | 4743.0 | 4727.9 | 4678.8 | 4637.2 | 4584.3 | 4504.9 | 4387.8 | 4293.3 | 4221.5 | 4213.9 | 4119.4 |
| 12.5° | 4954.6 | 4939.5 | 4879.1 | 4826.2 | 4746.8 | 4641.0 | 4486.0 | 4357.5 | 4259.3 | 4247.9 | 4130.8 |
| 15°   | 5177.6 | 5155.0 | 5094.5 | 5034.0 | 4935.8 | 4799.7 | 4614.5 | 4444.4 | 4319.7 | 4300.8 | 4164.8 |
| 17.5° | 5362.8 | 5332.6 | 5283.4 | 5223.0 | 5113.4 | 4954.6 | 4743.0 | 4531.4 | 4376.4 | 4361.3 | 4198.8 |
| 20°   | 5521.5 | 5498.9 | 5446.0 | 5389.3 | 5272.1 | 5098.3 | 4863.9 | 4618.3 | 4429.3 | 4410.4 | 4225.2 |
| 22.5° | 5672.7 | 5642.5 | 5612.2 | 5570.7 | 5442.2 | 5249.4 | 5003.8 | 4724.1 | 4497.4 | 4474.7 | 4259.3 |
| 25°   | 5846.6 | 5812.5 | 5801.2 | 5778.5 | 5627.4 | 5430.8 | 5173.8 | 4856.4 | 4591.8 | 4565.4 | 4319.7 |
| 27.5° | 6062.0 | 6024.2 | 6001.5 | 6001.5 | 5820.1 | 5616.0 | 5355.3 | 5011.3 | 4701.4 | 4678.8 | 4395.3 |
| 30°   | 6288.7 | 6243.4 | 6209.4 | 6209.4 | 6005.3 | 5801.2 | 5532.9 | 5166.3 | 4826.2 | 4799.7 | 4493.6 |
| 32.5° | 6489.0 | 6443.7 | 6405.9 | 6402.1 | 6190.5 | 5986.4 | 5718.1 | 5336.4 | 4977.3 | 4943.3 | 4614.5 |
| 35°   | 6644.0 | 6602.4 | 6568.4 | 6576.0 | 6375.7 | 6175.4 | 5925.9 | 5563.1 | 5166.3 | 5128.5 | 4773.2 |
| 37.5° | 6738.5 | 6723.4 | 6704.5 | 6730.9 | 6545.7 | 6356.8 | 6141.3 | 5782.3 | 5381.7 | 5347.7 | 4969.8 |
| 40°   | 6787.6 | 6776.3 | 6851.9 | 6885.9 | 6689.3 | 6519.3 | 6356.8 | 6009.1 | 5616.0 | 5578.2 | 5196.5 |
| 42.5° | 6859.4 | 6953.9 | 6984.1 | 6976.6 | 6795.2 | 6644.0 | 6553.3 | 6254.7 | 5891.9 | 5857.9 | 5468.6 |
| 45°   | 6602.4 | 6579.7 | 6746.0 | 6836.7 | 6802.7 | 6723.4 | 6738.5 | 6549.5 | 6213.2 | 6179.1 | 5782.3 |
| 47.5° | 6258.5 | 6228.3 | 6322.8 | 6545.7 | 6678.0 | 6753.6 | 6904.8 | 6855.6 | 6583.5 | 6553.3 | 6148.9 |
| 50°   | 5532.9 | 5574.5 | 5925.9 | 6224.5 | 6485.3 | 6746.0 | 7044.6 | 7184.4 | 6991.7 | 6961.5 | 6542.0 |
| 52.5° | 4727.9 | 4769.5 | 5136.1 | 5823.9 | 6250.9 | 6689.3 | 7146.6 | 7513.2 | 7433.9 | 7399.8 | 6961.5 |
| 55°   | 4142.1 | 4232.8 | 4648.5 | 5147.4 | 5918.4 | 6511.7 | 7207.1 | 7849.6 | 7910.1 | 7879.8 | 7418.7 |
| 57.5° | 3560.1 | 3628.1 | 3941.8 | 4384.0 | 5464.9 | 6201.8 | 7203.3 | 8163.3 | 8408.9 | 8378.7 | 7883.6 |
| 60°   | 2876.0 | 2963.0 | 3212.4 | 3688.6 | 4860.2 | 5831.4 | 7097.5 | 8408.9 | 8888.9 | 8866.2 | 8333.3 |
| 62.5° | 2407.4 | 2433.9 | 2611.5 | 3023.4 | 4081.6 | 5362.8 | 6859.4 | 8541.2 | 9323.5 | 9308.4 | 8737.7 |
| 65°   | 1938.8 | 1942.6 | 2105.1 | 2449.0 | 3329.6 | 4780.8 | 6455.0 | 8492.1 | 9652.3 | 9659.9 | 9028.7 |
| 67.5° | 1496.6 | 1515.5 | 1662.9 | 1923.7 | 2645.5 | 4024.9 | 5876.8 | 8159.5 | 9656.1 | 9675.0 | 8862.4 |
| 70°   | 1035.5 | 1050.6 | 1273.6 | 1526.8 | 2044.6 | 3208.6 | 5094.5 | 7278.9 | 8862.4 | 8877.6 | 7944.1 |
| 72.5° | 729.4  | 737.0  | 975.1  | 1220.7 | 1598.6 | 2418.7 | 3843.5 | 6020.4 | 7554.8 | 7566.1 | 6681.8 |
| 75°   | 544.2  | 551.8  | 687.8  | 925.9  | 1224.5 | 1674.2 | 2626.6 | 4610.7 | 6035.5 | 6035.5 | 5275.9 |
| 77.5° | 385.5  | 389.3  | 446.0  | 638.7  | 816.3  | 1130.0 | 1579.7 | 3019.7 | 4429.3 | 4436.9 | 3843.5 |
| 80°   | 260.8  | 264.6  | 291.0  | 430.8  | 510.2  | 612.2  | 857.9  | 1583.5 | 2792.9 | 2804.2 | 2441.4 |
| 82.5° | 136.1  | 143.6  | 162.5  | 219.2  | 257.0  | 340.1  | 442.2  | 805.0  | 1545.7 | 1576.0 | 1466.4 |
| 85°   | 52.9   | 52.9   | 60.5   | 71.8   | 94.5   | 132.3  | 204.1  | 306.1  | 699.2  | 721.8  | 646.3  |
| 87.5° | 18.9   | 18.9   | 22.7   | 22.7   | 26.5   | 30.2   | 34.0   | 45.4   | 79.4   | 79.4   | 75.6   |
| 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°    | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 | 4111.9 |
| 2.5°  | 4074.1 | 4074.1 | 4055.2 | 4062.7 | 4059.0 | 4051.4 | 4043.8 | 4055.2 | 4043.8 | 4017.4 | 4013.6 |
| 5°    | 4081.6 | 4074.1 | 4043.8 | 4040.1 | 4028.7 | 4013.6 | 3994.7 | 4002.3 | 3983.4 | 3960.7 | 3956.9 |
| 7.5°  | 4085.4 | 4070.3 | 4028.7 | 4013.6 | 3990.9 | 3960.7 | 3930.5 | 3930.5 | 3904.0 | 3881.3 | 3877.6 |
| 10°   | 4077.9 | 4059.0 | 4002.3 | 3972.0 | 3930.5 | 3885.1 | 3843.5 | 3832.2 | 3802.0 | 3775.5 | 3775.5 |
| 12.5° | 4081.6 | 4055.2 | 3983.4 | 3934.2 | 3877.6 | 3820.9 | 3768.0 | 3752.8 | 3726.4 | 3699.9 | 3696.1 |
| 15°   | 4104.3 | 4066.5 | 3975.8 | 3911.6 | 3828.4 | 3764.2 | 3707.5 | 3696.1 | 3673.5 | 3654.6 | 3654.6 |
| 17.5° | 4127.0 | 4077.9 | 3964.5 | 3873.8 | 3771.7 | 3699.9 | 3647.0 | 3647.0 | 3631.9 | 3620.6 | 3620.6 |
| 20°   | 4138.3 | 4081.6 | 3941.8 | 3820.9 | 3703.7 | 3628.1 | 3579.0 | 3586.5 | 3582.8 | 3579.0 | 3579.0 |
| 22.5° | 4164.8 | 4089.2 | 3922.9 | 3771.7 | 3631.9 | 3552.5 | 3507.2 | 3518.5 | 3514.7 | 3514.7 | 3518.5 |
| 25°   | 4206.3 | 4108.1 | 3907.8 | 3726.4 | 3563.9 | 3476.9 | 3427.8 | 3435.4 | 3435.4 | 3435.4 | 3435.4 |
| 27.5° | 4263.0 | 4145.9 | 3904.0 | 3684.8 | 3495.8 | 3397.6 | 3337.1 | 3337.1 | 3322.0 | 3325.8 | 3329.6 |
| 30°   | 4350.0 | 4217.7 | 3911.6 | 3647.0 | 3424.0 | 3299.3 | 3227.5 | 3216.2 | 3212.4 | 3220.0 | 3223.7 |
| 32.5° | 4455.8 | 4315.9 | 3956.9 | 3620.6 | 3348.5 | 3189.7 | 3099.0 | 3095.2 | 3083.9 | 3083.9 | 3083.9 |
| 35°   | 4588.1 | 4410.4 | 3998.5 | 3616.8 | 3272.9 | 3072.6 | 2974.3 | 2963.0 | 2936.5 | 2925.2 | 2925.2 |
| 37.5° | 4758.1 | 4557.8 | 4047.6 | 3590.3 | 3208.6 | 2959.2 | 2842.0 | 2804.2 | 2774.0 | 2770.2 | 2770.2 |
| 40°   | 4966.0 | 4724.1 | 4119.4 | 3560.1 | 3140.6 | 2842.0 | 2687.1 | 2622.8 | 2626.6 | 2641.7 | 2641.7 |
| 42.5° | 5211.6 | 4928.2 | 4210.1 | 3545.0 | 3042.3 | 2721.1 | 2505.7 | 2430.1 | 2456.5 | 2471.7 | 2475.4 |
| 45°   | 5498.9 | 5170.1 | 4312.2 | 3526.1 | 2951.6 | 2585.0 | 2312.9 | 2218.4 | 2229.8 | 2233.6 | 2237.3 |
| 47.5° | 5831.4 | 5438.4 | 4418.0 | 3511.0 | 2849.6 | 2415.0 | 2101.3 | 1976.6 | 1972.8 | 1950.1 | 1957.7 |
| 50°   | 6179.1 | 5721.8 | 4527.6 | 3484.5 | 2724.9 | 2214.7 | 1878.3 | 1730.9 | 1700.7 | 1666.7 | 1670.4 |
| 52.5° | 6549.5 | 6012.8 | 4629.6 | 3442.9 | 2569.9 | 2010.6 | 1666.7 | 1507.9 | 1447.5 | 1409.7 | 1417.2 |
| 55°   | 6957.7 | 6311.4 | 4727.9 | 3378.7 | 2407.4 | 1806.5 | 1477.7 | 1315.2 | 1239.6 | 1209.4 | 1213.2 |
| 57.5° | 7331.8 | 6598.6 | 4799.7 | 3299.3 | 2229.8 | 1621.3 | 1311.4 | 1152.7 | 1103.6 | 1099.8 | 1103.6 |
| 60°   | 7694.6 | 6840.5 | 4829.9 | 3189.7 | 2048.4 | 1451.2 | 1156.5 | 1035.5 | 1001.5 | 1020.4 | 1024.2 |
| 62.5° | 8000.8 | 6995.5 | 4814.8 | 3042.3 | 1863.2 | 1288.7 | 1031.7 | 944.8  | 922.1  | 959.9  | 963.7  |
| 65°   | 8178.4 | 7044.6 | 4709.0 | 2830.7 | 1662.9 | 1130.0 | 914.6  | 820.1  | 808.8  | 831.4  | 842.8  |
| 67.5° | 7944.1 | 6738.5 | 4421.8 | 2539.7 | 1439.9 | 982.6  | 801.2  | 725.6  | 706.7  | 725.6  | 725.6  |
| 70°   | 7040.8 | 5839.0 | 3741.5 | 2078.6 | 1194.3 | 839.0  | 695.4  | 642.5  | 627.4  | 642.5  | 638.7  |
| 72.5° | 5865.5 | 4856.4 | 2947.8 | 1621.3 | 941.0  | 706.7  | 604.7  | 555.6  | 540.4  | 525.3  | 517.8  |
| 75°   | 4550.3 | 3688.6 | 2139.1 | 1190.5 | 710.5  | 566.9  | 506.4  | 461.1  | 423.3  | 438.4  | 430.8  |
| 77.5° | 3333.3 | 2588.8 | 1515.5 | 823.9  | 510.2  | 438.4  | 396.8  | 362.8  | 336.4  | 366.6  | 362.8  |
| 80°   | 2146.6 | 1674.2 | 1012.8 | 551.8  | 351.5  | 306.1  | 291.0  | 272.1  | 298.6  | 389.3  | 396.8  |
| 82.5° | 1311.4 | 1062.0 | 604.7  | 359.0  | 230.5  | 204.1  | 189.0  | 189.0  | 306.1  | 336.4  | 340.1  |
| 85°   | 585.8  | 563.1  | 328.8  | 185.2  | 128.5  | 117.2  | 105.8  | 136.1  | 124.7  | 90.7   | 94.5   |
| 87.5° | 94.5   | 98.3   | 71.8   | 64.2   | 49.1   | 49.1   | 37.8   | 26.5   | 18.9   | 11.3   | 11.3   |
| 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)