

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: P841649

Luminaire Tested: **ARCH4-210-722-U-T2R-HSS**

Issue Date: 5/27/2024

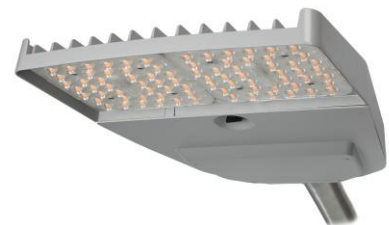
### Test Information

Test Method: LM-79-08  
Report Number: P841649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-210-722-U-T2R-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19716 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 213.1  
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

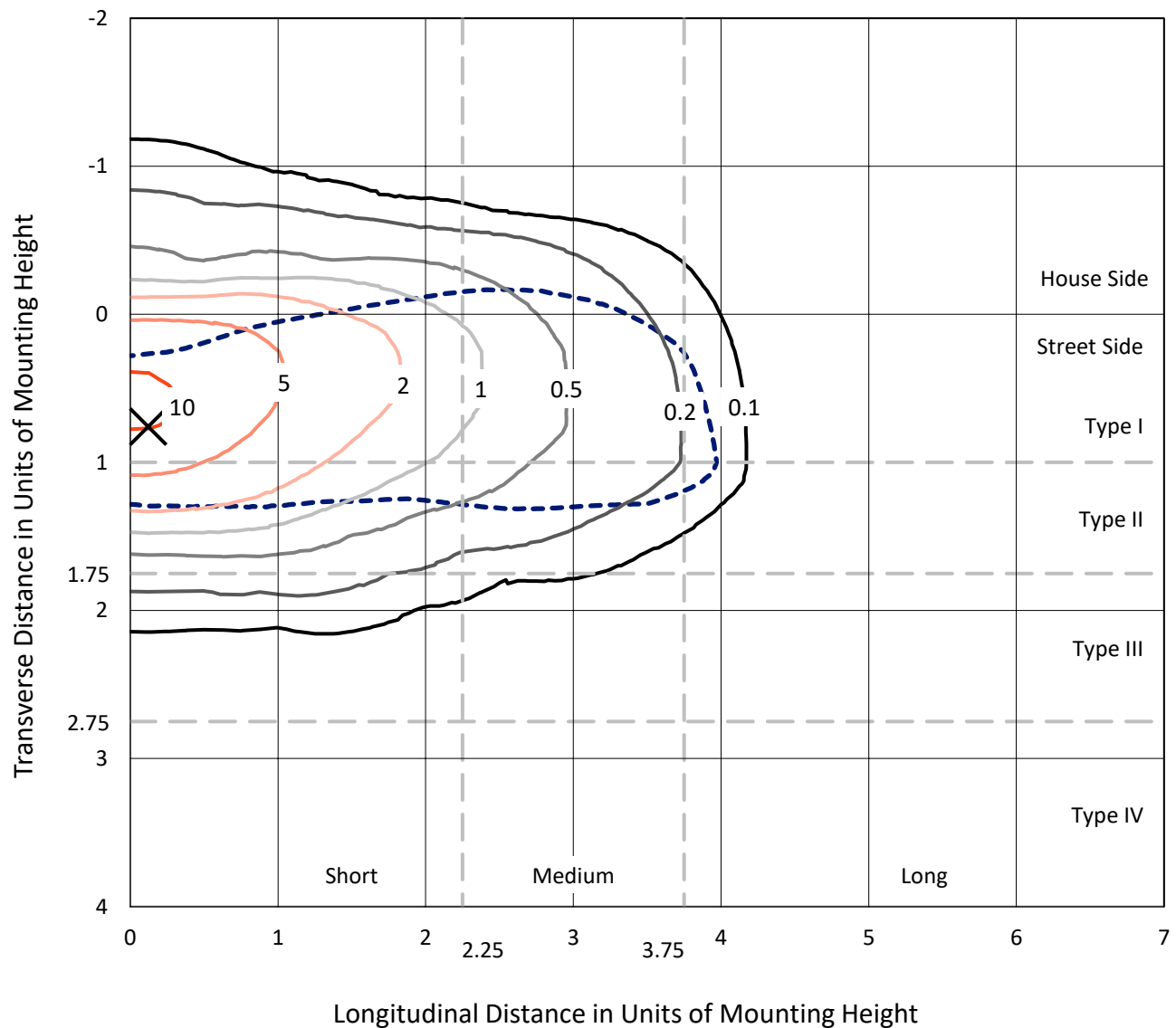


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## Iso-Footcandle Lines of Horizontal Illumination

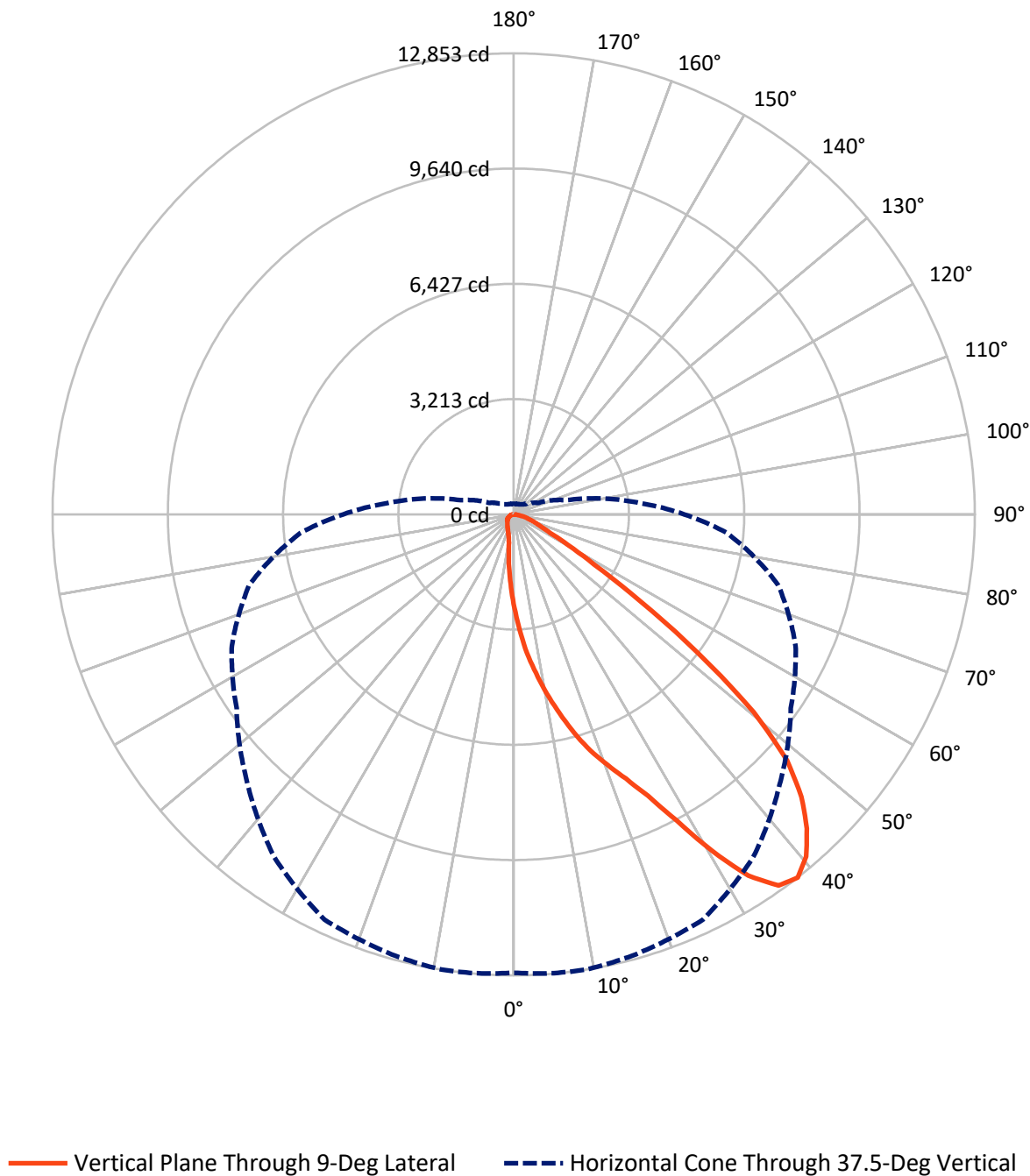
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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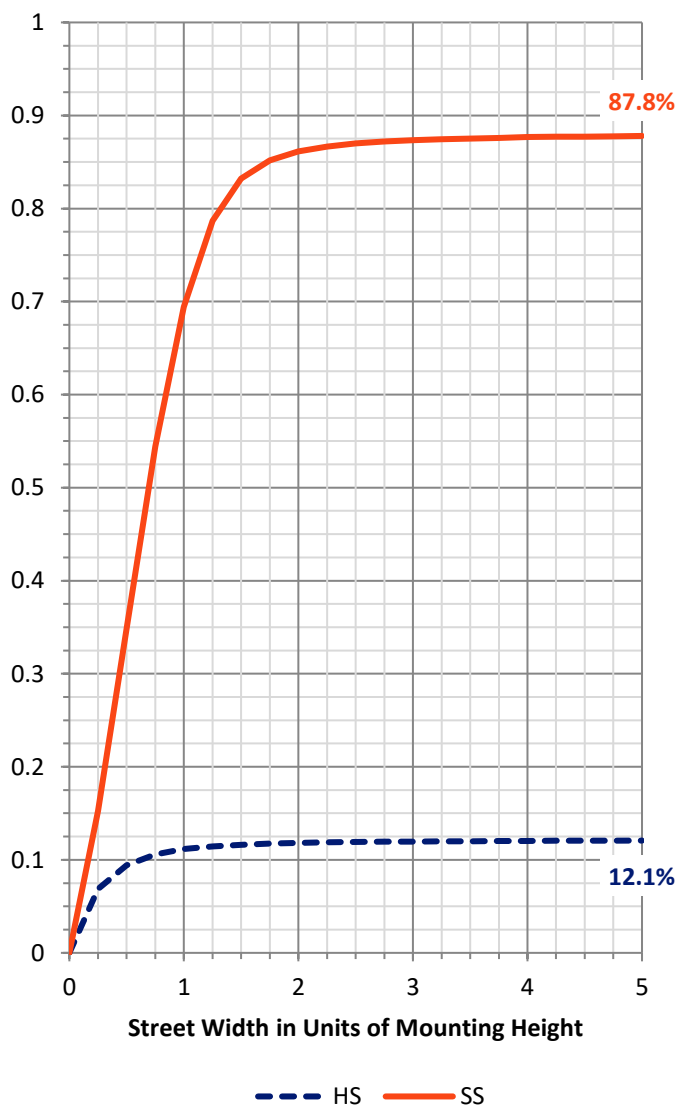
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2397.8   | 0.0    | 2397.8  |
|                    | % Fixture | 12.2     | 0.0    | 12.2    |
| <b>Street Side</b> | Lumens    | 17318.2  | 0.0    | 17318.2 |
|                    | % Fixture | 87.8     | 0.0    | 87.8    |
| <b>Total</b>       | Lumens    | 19716.0  | 0.0    | 19716.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 262.0   | 1.3       |
| 10°-20°   | 910.5   | 4.6       |
| 20°-30°   | 1870.9  | 9.5       |
| 30°-40°   | 3306.9  | 16.8      |
| 40°-50°   | 4393.0  | 22.3      |
| 50°-60°   | 4166.4  | 21.1      |
| 60°-70°   | 3178.6  | 16.1      |
| 70°-80°   | 1541.0  | 7.8       |
| 80°-90°   | 86.7    | 0.4       |
| 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°    | 19716.0 | 100.0     |
| 0°-180°   | 19716.0 | 100.0     |

**Coefficient of Utilization**



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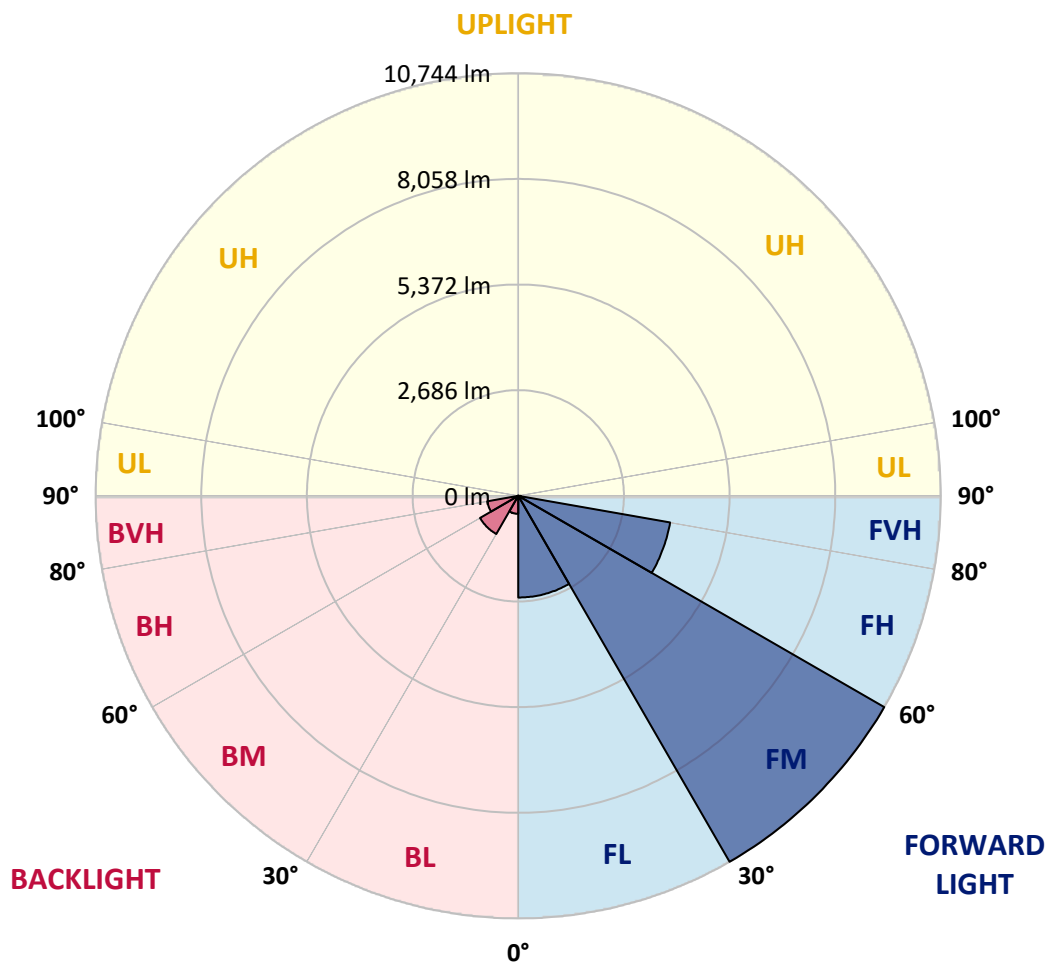
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2585.8  | 13.1      |                         |      |         |
| FM   | (30°-60°)   | 10744.3 | 54.5      |                         |      |         |
| FH   | (60°-80°)   | 3919.5  | 19.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 68.7    | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 457.6   | 2.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1122.0  | 5.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 800.1   | 4.1       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 18.1    | 0.1       |                         |      | 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°      | 9°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2606.2  | 2606.2  | 2606.2  | 2606.2  | 2606.2  | 2606.2  | 2606.2  | 2606.2  | 2606.2  | 2606.2  | 2606.2  |
| 2.5°  | 3229.4  | 3172.8  | 3237.5  | 3229.4  | 3172.8  | 3136.4  | 3023.0  | 2986.6  | 2853.1  | 2756.0  | 2671.0  |
| 5°    | 3893.1  | 3836.5  | 3893.1  | 3876.9  | 3796.0  | 3707.0  | 3520.8  | 3399.4  | 3160.6  | 2950.2  | 2760.0  |
| 7.5°  | 4443.5  | 4443.5  | 4467.8  | 4471.8  | 4374.7  | 4237.1  | 4006.5  | 3824.3  | 3488.4  | 3164.7  | 2861.2  |
| 10°   | 5038.4  | 5042.5  | 5095.1  | 5058.7  | 4929.1  | 4743.0  | 4451.6  | 4220.9  | 3816.2  | 3391.3  | 2958.3  |
| 12.5° | 5673.8  | 5677.8  | 5694.0  | 5677.8  | 5524.0  | 5285.3  | 4933.2  | 4629.7  | 4164.3  | 3650.3  | 3091.8  |
| 15°   | 6309.1  | 6313.2  | 6333.4  | 6305.1  | 6135.1  | 5855.9  | 5455.2  | 5082.9  | 4532.6  | 3941.7  | 3253.7  |
| 17.5° | 6904.0  | 6912.1  | 6928.3  | 6891.9  | 6713.8  | 6382.0  | 5973.3  | 5524.0  | 4925.1  | 4253.3  | 3435.8  |
| 20°   | 7438.2  | 7446.3  | 7458.5  | 7409.9  | 7231.8  | 6900.0  | 6458.9  | 5989.4  | 5325.7  | 4573.0  | 3634.1  |
| 22.5° | 7976.5  | 7984.6  | 8004.8  | 7940.1  | 7741.8  | 7361.3  | 6928.3  | 6442.7  | 5750.7  | 4925.1  | 3864.8  |
| 25°   | 8664.5  | 8672.6  | 8688.7  | 8595.7  | 8324.5  | 7879.4  | 7422.1  | 6924.3  | 6212.0  | 5321.7  | 4148.1  |
| 27.5° | 9672.1  | 9664.0  | 9664.0  | 9494.1  | 9028.7  | 8450.0  | 7919.8  | 7414.0  | 6709.8  | 5746.6  | 4459.7  |
| 30°   | 10918.6 | 10898.4 | 10886.2 | 10655.5 | 9991.8  | 9093.4  | 8429.7  | 7871.3  | 7187.3  | 6195.8  | 4795.6  |
| 32.5° | 12035.5 | 12035.5 | 12011.3 | 11768.4 | 11064.3 | 9959.5  | 8972.0  | 8316.4  | 7648.7  | 6649.1  | 5143.6  |
| 35°   | 12695.2 | 12723.5 | 12711.4 | 12529.3 | 12015.3 | 10890.3 | 9704.5  | 8850.6  | 8134.3  | 7122.6  | 5560.5  |
| 37.5° | 12784.2 | 12840.9 | 12853.0 | 12743.8 | 12472.6 | 11651.1 | 10517.9 | 9429.3  | 8668.5  | 7632.5  | 5965.2  |
| 40°   | 12424.0 | 12545.5 | 12545.5 | 12529.3 | 12432.1 | 12011.3 | 11201.9 | 10101.1 | 9218.9  | 8162.6  | 6373.9  |
| 42.5° | 11869.6 | 11995.1 | 11978.9 | 12039.6 | 12015.3 | 11926.3 | 11586.3 | 10728.4 | 9769.3  | 8709.0  | 6746.2  |
| 45°   | 11145.2 | 11274.7 | 11242.3 | 11351.6 | 11400.2 | 11497.3 | 11545.9 | 11165.5 | 10311.6 | 9303.9  | 7163.0  |
| 47.5° | 9983.8  | 10202.3 | 10250.8 | 10445.1 | 10647.4 | 10951.0 | 11181.6 | 11323.3 | 10817.4 | 9943.3  | 7616.3  |
| 50°   | 8267.9  | 8575.4  | 8672.6  | 9081.3  | 9635.7  | 10263.0 | 10635.3 | 11129.0 | 11173.5 | 10598.9 | 8106.0  |
| 52.5° | 5920.6  | 6276.8  | 6426.5  | 7098.3  | 8239.5  | 9332.2  | 10004.0 | 10700.1 | 11311.1 | 11226.2 | 8636.1  |
| 55°   | 3828.4  | 4131.9  | 4277.6  | 4908.9  | 6426.5  | 8142.4  | 9259.4  | 10145.6 | 11234.3 | 11800.8 | 9243.2  |
| 57.5° | 2359.4  | 2533.4  | 2630.5  | 3172.8  | 4569.0  | 6616.7  | 8284.0  | 9635.7  | 10999.5 | 12298.6 | 9874.5  |
| 60°   | 1590.4  | 1691.6  | 1740.2  | 1995.1  | 3104.0  | 4945.3  | 6944.5  | 9101.5  | 10692.0 | 12634.5 | 10449.1 |
| 62.5° | 1056.2  | 1088.6  | 1137.2  | 1295.0  | 2047.7  | 3472.3  | 5333.8  | 8146.5  | 10461.3 | 12654.7 | 10874.1 |
| 65°   | 817.5   | 833.7   | 853.9   | 922.7   | 1262.6  | 2428.2  | 3751.5  | 6600.5  | 10117.3 | 12225.7 | 11007.6 |
| 67.5° | 643.5   | 659.6   | 683.9   | 720.4   | 914.6   | 1647.1  | 2553.6  | 4836.1  | 9413.1  | 11554.0 | 10789.1 |
| 70°   | 505.9   | 518.0   | 534.2   | 566.6   | 712.3   | 1193.8  | 1687.6  | 3213.3  | 7992.7  | 10914.5 | 10101.1 |
| 72.5° | 400.6   | 412.8   | 429.0   | 461.3   | 578.7   | 874.1   | 1157.4  | 2003.2  | 6163.5  | 10133.5 | 8777.8  |
| 75°   | 315.7   | 323.8   | 335.9   | 368.3   | 465.4   | 679.9   | 785.1   | 1197.9  | 4188.6  | 8704.9  | 6839.3  |
| 77.5° | 157.8   | 194.3   | 222.6   | 255.0   | 339.9   | 469.4   | 522.1   | 663.7   | 1768.5  | 4467.8  | 3261.8  |
| 80°   | 93.1    | 113.3   | 121.4   | 141.6   | 222.6   | 283.3   | 283.3   | 267.1   | 558.5   | 1715.9  | 1331.4  |
| 82.5° | 52.6    | 72.8    | 76.9    | 80.9    | 133.5   | 161.9   | 129.5   | 97.1    | 113.3   | 574.7   | 388.5   |
| 85°   | 16.2    | 24.3    | 28.3    | 32.4    | 44.5    | 48.6    | 44.5    | 40.5    | 32.4    | 56.7    | 36.4    |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 4.0     | 8.1     | 8.1     | 8.1     | 12.1    | 12.1    | 12.1    |
| 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°    | 2606.2 | 2606.2 | 2606.2 | 2606.2 | 2606.2 | 2606.2 | 2606.2 | 2606.2 | 2606.2 | 2606.2 | 2606.2 |
| 2.5°  | 2622.4 | 2569.8 | 2468.6 | 2375.5 | 2286.5 | 2221.8 | 2161.1 | 2104.4 | 2063.9 | 2031.6 | 2027.5 |
| 5°    | 2658.8 | 2553.6 | 2359.4 | 2177.2 | 2011.3 | 1873.7 | 1756.4 | 1663.3 | 1594.5 | 1545.9 | 1541.9 |
| 7.5°  | 2707.4 | 2545.5 | 2250.1 | 1978.9 | 1732.1 | 1533.8 | 1363.8 | 1238.4 | 1149.3 | 1112.9 | 1084.6 |
| 10°   | 2747.9 | 2537.4 | 2140.8 | 1780.6 | 1456.9 | 1206.0 | 1003.6 | 878.2  | 813.4  | 789.1  | 777.0  |
| 12.5° | 2816.7 | 2545.5 | 2047.7 | 1598.5 | 1218.1 | 922.7  | 768.9  | 700.1  | 671.8  | 651.6  | 647.5  |
| 15°   | 2917.8 | 2581.9 | 1958.7 | 1420.5 | 975.3  | 744.6  | 655.6  | 611.1  | 582.8  | 578.7  | 574.7  |
| 17.5° | 3019.0 | 2614.3 | 1877.8 | 1238.4 | 809.4  | 647.5  | 586.8  | 550.4  | 530.1  | 526.1  | 526.1  |
| 20°   | 3136.4 | 2654.8 | 1788.7 | 1064.3 | 692.0  | 582.8  | 534.2  | 505.9  | 481.6  | 477.5  | 477.5  |
| 22.5° | 3274.0 | 2711.4 | 1703.8 | 910.6  | 615.1  | 534.2  | 493.7  | 461.3  | 441.1  | 437.1  | 437.1  |
| 25°   | 3460.1 | 2796.4 | 1635.0 | 797.2  | 562.5  | 493.7  | 457.3  | 429.0  | 412.8  | 404.7  | 404.7  |
| 27.5° | 3666.5 | 2913.8 | 1586.4 | 728.4  | 526.1  | 461.3  | 424.9  | 400.6  | 384.5  | 376.4  | 376.4  |
| 30°   | 3897.2 | 3043.3 | 1554.0 | 700.1  | 505.9  | 433.0  | 400.6  | 376.4  | 356.1  | 352.1  | 352.1  |
| 32.5° | 4152.1 | 3193.0 | 1533.8 | 704.2  | 501.8  | 412.8  | 376.4  | 352.1  | 335.9  | 327.8  | 327.8  |
| 35°   | 4435.4 | 3358.9 | 1521.6 | 728.4  | 509.9  | 396.6  | 356.1  | 331.8  | 315.7  | 307.6  | 307.6  |
| 37.5° | 4751.1 | 3553.2 | 1521.6 | 752.7  | 530.1  | 392.6  | 335.9  | 311.6  | 299.5  | 291.4  | 291.4  |
| 40°   | 5046.5 | 3759.6 | 1537.8 | 781.1  | 550.4  | 392.6  | 319.7  | 299.5  | 283.3  | 275.2  | 275.2  |
| 42.5° | 5277.2 | 3876.9 | 1550.0 | 809.4  | 562.5  | 388.5  | 303.5  | 283.3  | 271.1  | 263.0  | 263.0  |
| 45°   | 5540.2 | 4002.4 | 1525.7 | 821.5  | 562.5  | 380.4  | 291.4  | 271.1  | 259.0  | 250.9  | 250.9  |
| 47.5° | 5831.6 | 4156.2 | 1521.6 | 829.6  | 550.4  | 364.2  | 279.2  | 259.0  | 250.9  | 242.8  | 242.8  |
| 50°   | 6127.0 | 4326.2 | 1529.7 | 825.6  | 534.2  | 339.9  | 263.0  | 250.9  | 238.8  | 230.7  | 230.7  |
| 52.5° | 6462.9 | 4504.2 | 1545.9 | 817.5  | 497.8  | 311.6  | 250.9  | 238.8  | 226.6  | 218.5  | 214.5  |
| 55°   | 6835.2 | 4698.5 | 1578.3 | 801.3  | 449.2  | 283.3  | 238.8  | 226.6  | 210.4  | 202.3  | 198.3  |
| 57.5° | 7264.2 | 4937.2 | 1614.7 | 768.9  | 396.6  | 259.0  | 226.6  | 210.4  | 186.2  | 174.0  | 170.0  |
| 60°   | 7673.0 | 5208.4 | 1655.2 | 692.0  | 344.0  | 234.7  | 214.5  | 190.2  | 165.9  | 157.8  | 153.8  |
| 62.5° | 8057.4 | 5475.5 | 1675.4 | 554.4  | 291.4  | 214.5  | 202.3  | 174.0  | 149.7  | 141.6  | 137.6  |
| 65°   | 8304.3 | 5766.9 | 1630.9 | 376.4  | 238.8  | 198.3  | 186.2  | 161.9  | 137.6  | 125.5  | 125.5  |
| 67.5° | 8320.5 | 5904.5 | 1477.1 | 246.9  | 194.3  | 178.1  | 170.0  | 145.7  | 121.4  | 113.3  | 109.3  |
| 70°   | 7911.7 | 5698.1 | 1129.1 | 194.3  | 161.9  | 153.8  | 153.8  | 129.5  | 105.2  | 97.1   | 93.1   |
| 72.5° | 6972.8 | 5046.5 | 720.4  | 157.8  | 137.6  | 129.5  | 129.5  | 109.3  | 93.1   | 80.9   | 76.9   |
| 75°   | 5503.8 | 3893.1 | 384.5  | 129.5  | 113.3  | 109.3  | 101.2  | 89.0   | 76.9   | 68.8   | 64.8   |
| 77.5° | 2529.3 | 1715.9 | 178.1  | 93.1   | 85.0   | 85.0   | 76.9   | 64.8   | 60.7   | 52.6   | 52.6   |
| 80°   | 999.6  | 582.8  | 89.0   | 60.7   | 56.7   | 56.7   | 56.7   | 44.5   | 44.5   | 36.4   | 32.4   |
| 82.5° | 275.2  | 121.4  | 44.5   | 36.4   | 36.4   | 36.4   | 32.4   | 28.3   | 28.3   | 24.3   | 24.3   |
| 85°   | 28.3   | 20.2   | 20.2   | 20.2   | 20.2   | 16.2   | 16.2   | 12.1   | 8.1    | 8.1    | 8.1    |
| 87.5° | 12.1   | 12.1   | 12.1   | 12.1   | 12.1   | 8.1    | 4.0    | 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)