

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: P841584

Luminaire Tested: **ARCH4-200-722-U-T4W**

Issue Date: 5/27/2024

### Test Information

Test Method: LM-79-08  
Report Number: P841584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-200-722-U-T4W  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 26719 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 203.7  
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

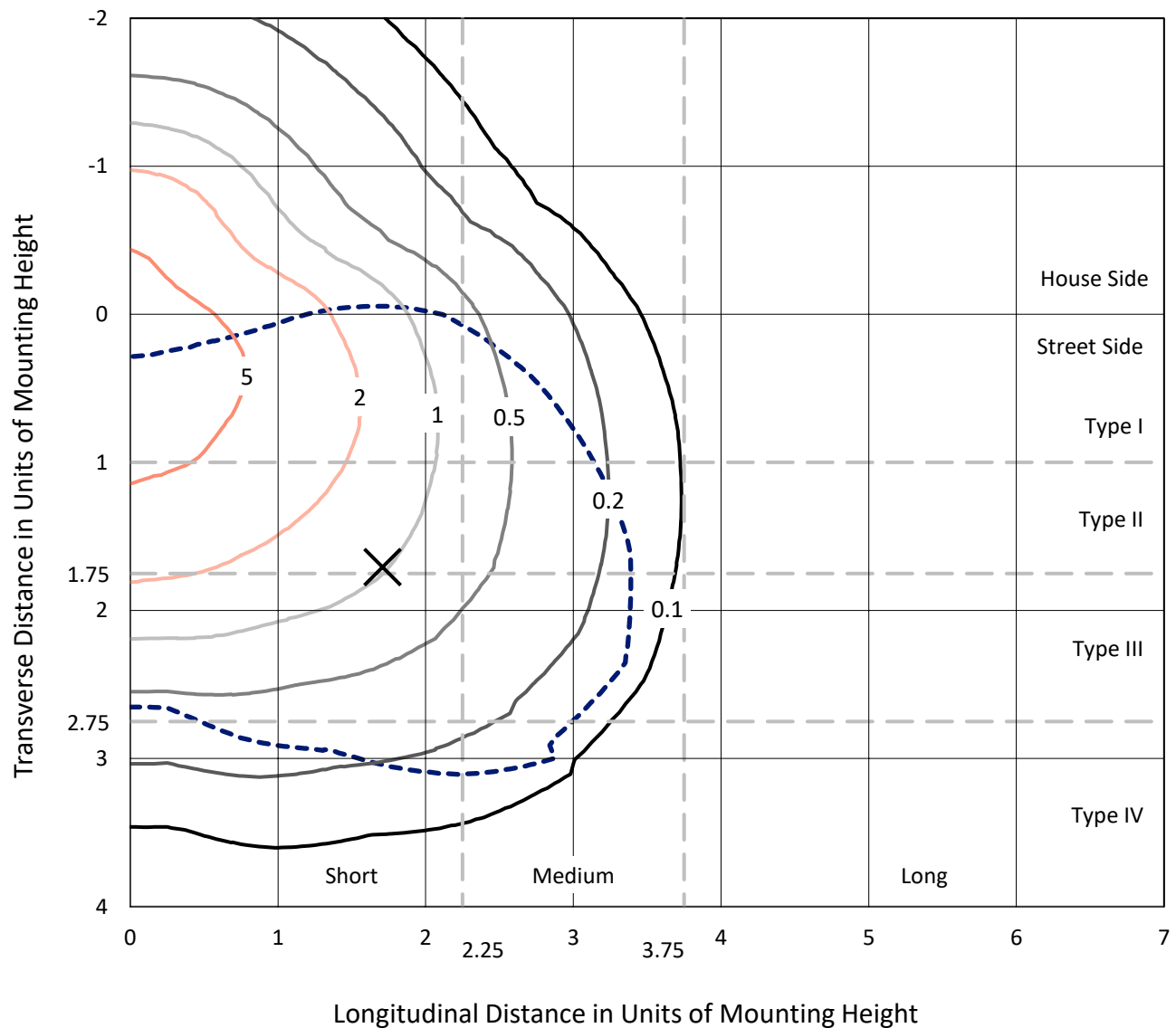


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

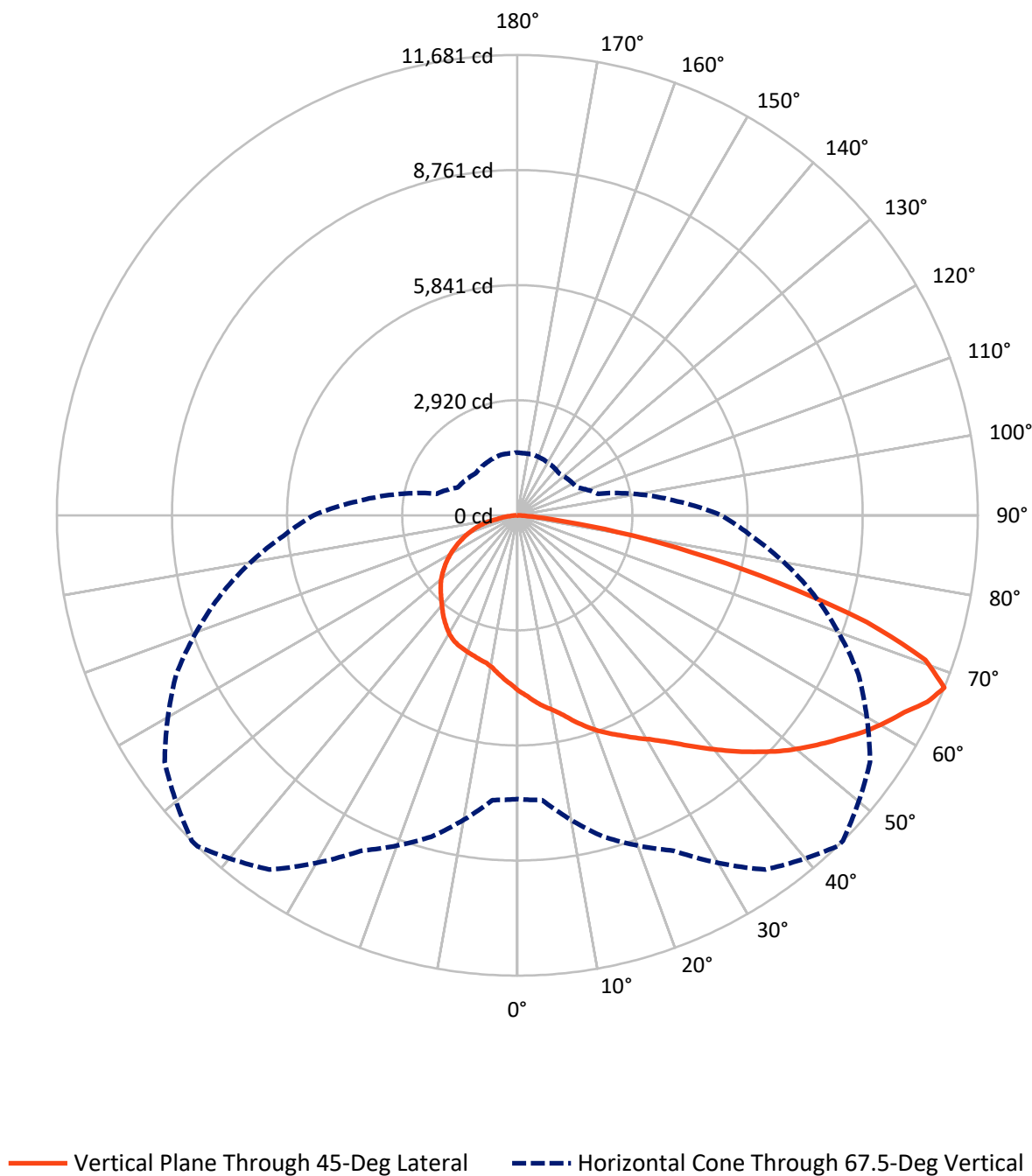


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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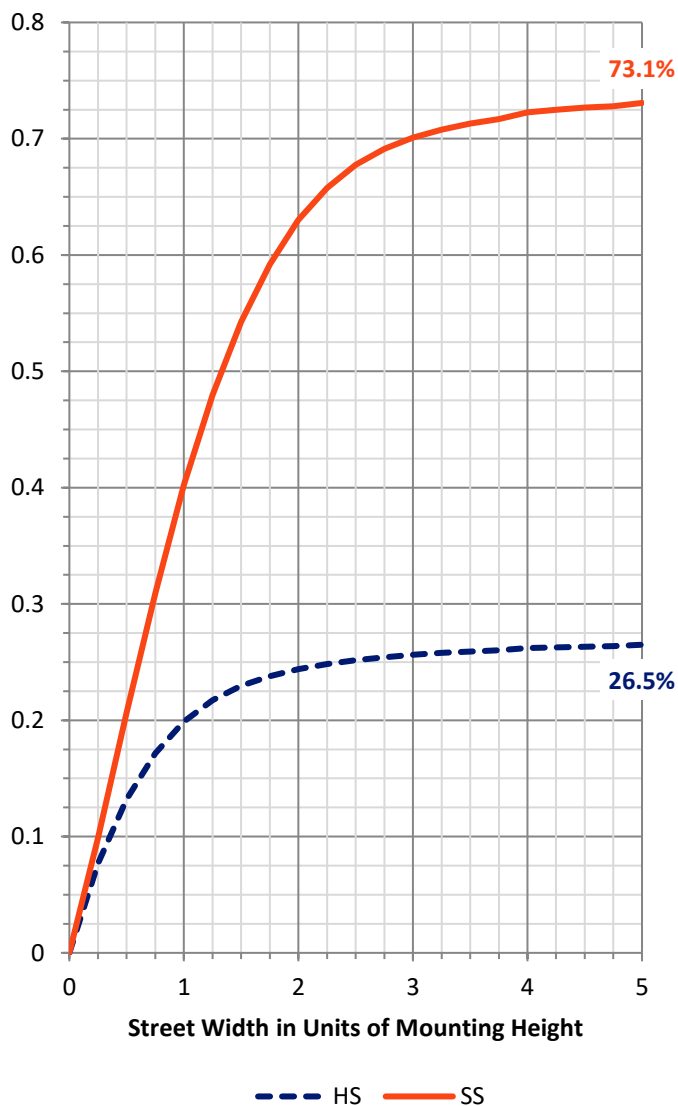
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7138.0   | 0.0    | 7138.0  |
|                    | % Fixture | 26.7     | 0.0    | 26.7    |
| <b>Street Side</b> | Lumens    | 19581.0  | 0.0    | 19581.0 |
|                    | % Fixture | 73.3     | 0.0    | 73.3    |
| <b>Total</b>       | Lumens    | 26719.0  | 0.0    | 26719.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 426.7   | 1.6       |
| 10°-20°   | 1318.0  | 4.9       |
| 20°-30°   | 2275.0  | 8.5       |
| 30°-40°   | 3354.9  | 12.6      |
| 40°-50°   | 4545.2  | 17.0      |
| 50°-60°   | 5555.3  | 20.8      |
| 60°-70°   | 5729.5  | 21.4      |
| 70°-80°   | 3138.2  | 11.7      |
| 80°-90°   | 376.1   | 1.4       |
| 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°    | 26719.0 | 100.0     |
| 0°-180°   | 26719.0 | 100.0     |

**Coefficient of Utilization**



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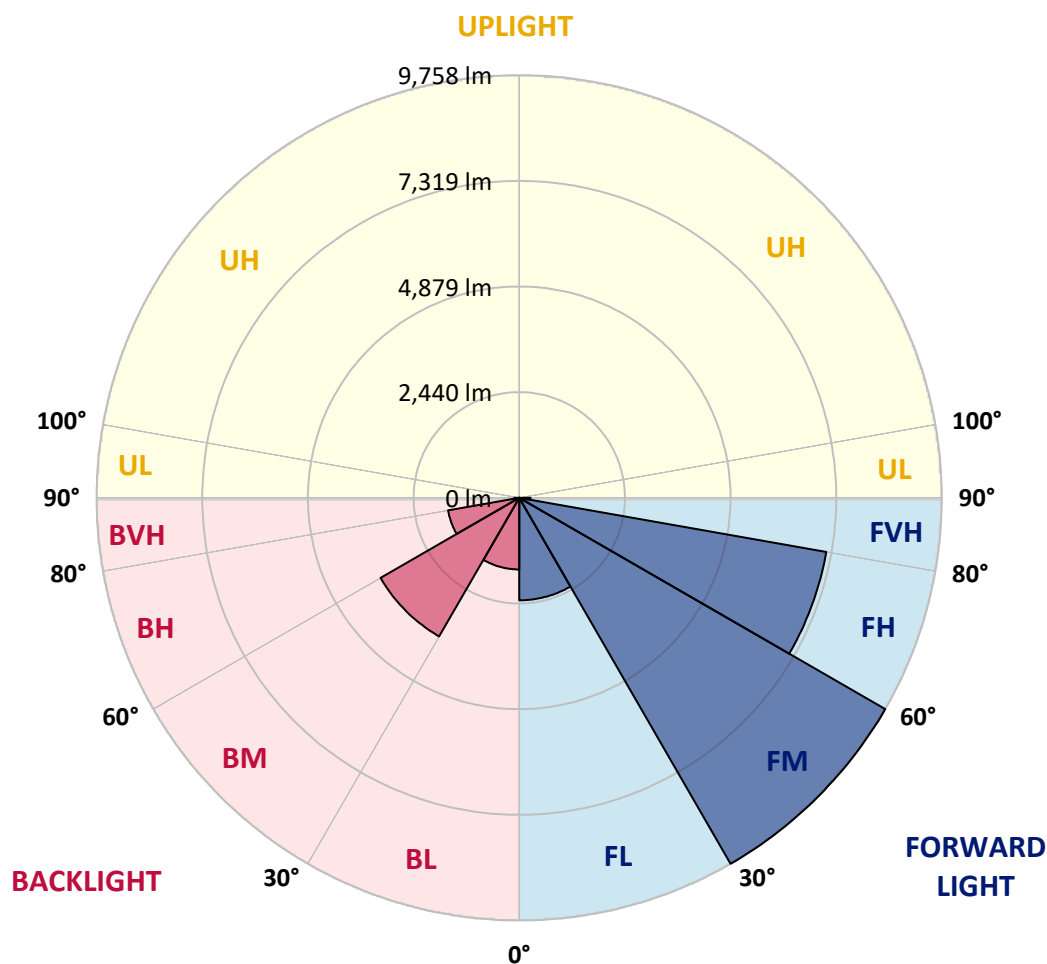
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2365.3 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 9758.0 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 7198.5 | 26.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 259.1  | 1.0       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1654.3 | 6.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3697.4 | 13.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1669.3 | 6.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 117.0  | 0.4       |                         |      | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 4456.2  | 4456.2  | 4456.2  | 4456.2  | 4456.2  | 4456.2  | 4456.2  | 4456.2  | 4456.2 | 4456.2 | 4456.2 |
| 2.5°  | 4651.4  | 4647.3  | 4655.5  | 4627.0  | 4590.4  | 4586.3  | 4586.3  | 4561.9  | 4533.5 | 4476.6 | 4431.8 |
| 5°    | 4870.9  | 4862.8  | 4866.9  | 4826.2  | 4777.4  | 4753.0  | 4749.0  | 4696.1  | 4631.1 | 4541.6 | 4460.3 |
| 7.5°  | 5074.2  | 5066.1  | 5062.0  | 5017.3  | 4944.1  | 4903.5  | 4899.4  | 4822.2  | 4744.9 | 4606.7 | 4488.7 |
| 10°   | 5265.3  | 5257.2  | 5249.1  | 5188.1  | 5098.6  | 5037.6  | 5029.5  | 4931.9  | 4834.4 | 4663.6 | 4513.1 |
| 12.5° | 5509.3  | 5493.0  | 5484.9  | 5411.7  | 5281.6  | 5216.5  | 5204.3  | 5074.2  | 4952.3 | 4744.9 | 4561.9 |
| 15°   | 5765.4  | 5753.2  | 5741.0  | 5671.9  | 5525.6  | 5440.2  | 5419.8  | 5257.2  | 5090.5 | 4850.6 | 4635.1 |
| 17.5° | 5956.5  | 5944.3  | 5944.3  | 5883.4  | 5749.2  | 5651.6  | 5635.3  | 5440.2  | 5232.8 | 4948.2 | 4692.0 |
| 20°   | 6074.4  | 6062.3  | 6074.4  | 6037.9  | 5936.2  | 5854.9  | 5838.6  | 5623.1  | 5375.1 | 5037.6 | 4740.8 |
| 22.5° | 6159.8  | 6147.6  | 6168.0  | 6151.7  | 6078.5  | 6029.7  | 6017.5  | 5806.1  | 5521.5 | 5131.2 | 4789.6 |
| 25°   | 6310.3  | 6310.3  | 6310.3  | 6281.8  | 6212.7  | 6196.4  | 6196.4  | 6013.5  | 5708.5 | 5253.1 | 4862.8 |
| 27.5° | 6611.1  | 6594.9  | 6574.6  | 6493.2  | 6375.3  | 6371.3  | 6395.7  | 6224.9  | 5924.0 | 5411.7 | 4952.3 |
| 30°   | 7054.3  | 7046.2  | 6968.9  | 6798.2  | 6598.9  | 6578.6  | 6594.9  | 6452.6  | 6155.8 | 5578.4 | 5053.9 |
| 32.5° | 7627.6  | 7599.2  | 7440.6  | 7184.4  | 6899.8  | 6806.3  | 6838.8  | 6688.4  | 6399.7 | 5749.2 | 5151.5 |
| 35°   | 8034.2  | 8042.3  | 7928.5  | 7696.7  | 7359.3  | 7111.3  | 7135.6  | 6952.7  | 6664.0 | 5940.3 | 5273.5 |
| 37.5° | 8501.8  | 8530.3  | 8359.5  | 8184.6  | 7871.6  | 7448.7  | 7473.1  | 7225.1  | 6928.3 | 6180.2 | 5403.6 |
| 40°   | 9148.3  | 9091.3  | 8802.7  | 8595.3  | 8249.7  | 7802.5  | 7822.8  | 7530.0  | 7233.2 | 6407.9 | 5554.0 |
| 42.5° | 9689.0  | 9587.4  | 9237.7  | 8973.4  | 8558.7  | 8176.5  | 8196.8  | 7859.4  | 7542.2 | 6659.9 | 5720.7 |
| 45°   | 10465.6 | 10185.1 | 9680.9  | 9550.8  | 8875.9  | 8542.4  | 8562.8  | 8209.0  | 7867.5 | 6928.3 | 5899.6 |
| 47.5° | 10916.9 | 10469.7 | 10148.5 | 10079.4 | 9225.5  | 8920.6  | 8945.0  | 8579.0  | 8217.2 | 7233.2 | 6086.6 |
| 50°   | 10888.5 | 10599.8 | 10506.3 | 10335.5 | 9534.5  | 9274.3  | 9298.7  | 8961.2  | 8570.9 | 7534.1 | 6265.5 |
| 52.5° | 10701.4 | 10754.3 | 10705.5 | 10420.9 | 9843.5  | 9615.8  | 9644.3  | 9339.4  | 8932.8 | 7814.7 | 6432.2 |
| 55°   | 10990.1 | 11026.7 | 10933.2 | 10559.1 | 10185.1 | 9957.4  | 9989.9  | 9737.8  | 9290.6 | 8062.7 | 6574.6 |
| 57.5° | 11335.7 | 11205.6 | 11112.1 | 10803.1 | 10538.8 | 10327.4 | 10364.0 | 10144.4 | 9599.6 | 8261.9 | 6684.3 |
| 60°   | 11319.5 | 11047.0 | 11140.6 | 10819.4 | 10778.7 | 10668.9 | 10701.4 | 10477.8 | 9835.4 | 8408.3 | 6729.1 |
| 62.5° | 10485.9 | 10339.6 | 10811.2 | 10701.4 | 10973.9 | 10973.9 | 11014.5 | 10681.1 | 9977.7 | 8469.3 | 6704.7 |
| 65°   | 9038.5  | 9046.6  | 9876.1  | 10331.4 | 11205.6 | 11392.6 | 11425.2 | 10807.2 | 9896.4 | 8290.4 | 6477.0 |
| 67.5° | 7200.7  | 7253.6  | 8444.9  | 9392.2  | 10973.9 | 11677.3 | 11681.3 | 10921.0 | 9546.7 | 7786.2 | 5948.4 |
| 70°   | 5269.4  | 5310.1  | 6716.9  | 7867.5  | 9880.1  | 11047.0 | 10982.0 | 10599.8 | 8786.4 | 6908.0 | 5123.0 |
| 72.5° | 3561.7  | 3598.3  | 5045.8  | 6041.9  | 8107.4  | 9408.5  | 9266.2  | 9367.8  | 7489.4 | 5676.0 | 4118.8 |
| 75°   | 2394.8  | 2439.5  | 3590.2  | 4322.0  | 5964.7  | 7143.8  | 6826.6  | 7095.0  | 5793.9 | 4297.7 | 3004.7 |
| 77.5° | 1508.4  | 1536.9  | 2281.0  | 2833.9  | 4074.0  | 4862.8  | 4545.7  | 4549.7  | 3338.1 | 2313.5 | 1614.2 |
| 80°   | 959.6   | 967.7   | 1382.4  | 1634.5  | 2358.2  | 2923.4  | 2585.9  | 2102.1  | 1504.4 | 1227.9 | 963.6  |
| 82.5° | 557.0   | 544.8   | 825.4   | 923.0   | 1122.2  | 1110.0  | 918.9   | 870.1   | 658.7  | 614.0  | 492.0  |
| 85°   | 223.6   | 207.4   | 361.9   | 337.5   | 341.5   | 361.9   | 268.3   | 268.3   | 215.5  | 166.7  | 122.0  |
| 87.5° | 44.7    | 44.7    | 48.8    | 44.7    | 44.7    | 48.8    | 36.6    | 36.6    | 32.5   | 32.5   | 32.5   |
| 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°    | 4456.2 | 4456.2 | 4456.2 | 4456.2 | 4456.2 | 4456.2 | 4456.2 | 4456.2 | 4456.2 | 4456.2 | 4456.2 |
| 2.5°  | 4423.7 | 4415.6 | 4395.2 | 4342.4 | 4313.9 | 4297.7 | 4273.3 | 4265.1 | 4261.1 | 4265.1 | 4277.3 |
| 5°    | 4435.9 | 4407.4 | 4350.5 | 4265.1 | 4208.2 | 4171.6 | 4131.0 | 4114.7 | 4102.5 | 4102.5 | 4114.7 |
| 7.5°  | 4444.0 | 4399.3 | 4301.7 | 4175.7 | 4094.4 | 4037.4 | 3988.6 | 3968.3 | 3964.2 | 3976.4 | 3980.5 |
| 10°   | 4448.1 | 4383.0 | 4244.8 | 4086.2 | 3980.5 | 3907.3 | 3858.5 | 3846.3 | 3858.5 | 3882.9 | 3887.0 |
| 12.5° | 4476.6 | 4387.1 | 4212.3 | 4025.2 | 3899.2 | 3826.0 | 3789.4 | 3789.4 | 3821.9 | 3866.7 | 3870.7 |
| 15°   | 4525.3 | 4415.6 | 4196.0 | 3976.4 | 3846.3 | 3781.3 | 3769.1 | 3789.4 | 3838.2 | 3907.3 | 3915.5 |
| 17.5° | 4561.9 | 4431.8 | 4159.4 | 3911.4 | 3777.2 | 3736.6 | 3756.9 | 3805.7 | 3874.8 | 3968.3 | 3976.4 |
| 20°   | 4586.3 | 4431.8 | 4106.6 | 3834.1 | 3708.1 | 3700.0 | 3756.9 | 3834.1 | 3907.3 | 4017.1 | 4029.3 |
| 22.5° | 4610.7 | 4423.7 | 4045.6 | 3740.6 | 3630.8 | 3655.2 | 3761.0 | 3858.5 | 3931.7 | 4049.6 | 4070.0 |
| 25°   | 4655.5 | 4435.9 | 3984.6 | 3647.1 | 3549.5 | 3618.6 | 3756.9 | 3874.8 | 3952.1 | 4074.0 | 4106.6 |
| 27.5° | 4716.4 | 4464.4 | 3939.9 | 3561.7 | 3468.2 | 3561.7 | 3728.4 | 3870.7 | 3952.1 | 4070.0 | 4106.6 |
| 30°   | 4781.5 | 4496.9 | 3887.0 | 3468.2 | 3374.7 | 3480.4 | 3667.4 | 3826.0 | 3919.5 | 4029.3 | 4074.0 |
| 32.5° | 4850.6 | 4533.5 | 3842.3 | 3366.6 | 3260.8 | 3370.6 | 3578.0 | 3756.9 | 3858.5 | 3960.2 | 4009.0 |
| 35°   | 4944.1 | 4598.5 | 3817.9 | 3285.2 | 3159.2 | 3256.8 | 3464.1 | 3667.4 | 3777.2 | 3870.7 | 3927.7 |
| 37.5° | 5058.0 | 4679.8 | 3805.7 | 3203.9 | 3049.4 | 3130.7 | 3342.2 | 3557.7 | 3675.6 | 3752.8 | 3805.7 |
| 40°   | 5188.1 | 4781.5 | 3801.6 | 3126.7 | 2939.6 | 3000.6 | 3216.1 | 3431.6 | 3545.5 | 3606.5 | 3651.2 |
| 42.5° | 5334.5 | 4895.3 | 3793.5 | 3049.4 | 2829.9 | 2878.7 | 3094.1 | 3305.6 | 3403.2 | 3456.0 | 3496.7 |
| 45°   | 5489.0 | 5009.2 | 3777.2 | 2955.9 | 2712.0 | 2768.9 | 2968.1 | 3155.1 | 3256.8 | 3301.5 | 3346.2 |
| 47.5° | 5643.5 | 5123.0 | 3744.7 | 2850.2 | 2606.2 | 2659.1 | 2833.9 | 2996.6 | 3077.9 | 3118.5 | 3163.3 |
| 50°   | 5793.9 | 5224.7 | 3667.4 | 2728.2 | 2496.5 | 2545.3 | 2679.4 | 2789.2 | 2850.2 | 2882.7 | 2927.4 |
| 52.5° | 5928.1 | 5293.8 | 3557.7 | 2585.9 | 2386.7 | 2411.1 | 2500.5 | 2594.0 | 2642.8 | 2646.9 | 2687.6 |
| 55°   | 6041.9 | 5330.4 | 3399.1 | 2439.5 | 2268.8 | 2272.8 | 2321.6 | 2394.8 | 2415.1 | 2398.9 | 2427.3 |
| 57.5° | 6107.0 | 5310.1 | 3224.3 | 2289.1 | 2146.8 | 2130.5 | 2167.1 | 2203.7 | 2207.8 | 2167.1 | 2195.6 |
| 60°   | 6123.2 | 5216.5 | 2996.6 | 2138.7 | 2024.8 | 1980.1 | 1992.3 | 1984.2 | 1976.0 | 1959.8 | 1984.2 |
| 62.5° | 6041.9 | 5017.3 | 2744.5 | 1992.3 | 1894.7 | 1825.6 | 1821.5 | 1817.5 | 1829.7 | 1833.7 | 1837.8 |
| 65°   | 5745.1 | 4643.3 | 2443.6 | 1841.9 | 1756.5 | 1663.0 | 1658.9 | 1707.7 | 1723.9 | 1699.5 | 1707.7 |
| 67.5° | 5171.8 | 4070.0 | 2114.3 | 1667.0 | 1581.6 | 1500.3 | 1532.8 | 1561.3 | 1589.8 | 1581.6 | 1589.8 |
| 70°   | 4358.6 | 3342.2 | 1813.4 | 1471.9 | 1390.5 | 1345.8 | 1382.4 | 1406.8 | 1410.9 | 1402.7 | 1410.9 |
| 72.5° | 3427.6 | 2610.3 | 1532.8 | 1272.6 | 1199.4 | 1179.1 | 1223.8 | 1244.2 | 1280.8 | 1297.0 | 1301.1 |
| 75°   | 2476.1 | 1927.2 | 1256.4 | 1057.1 | 996.1  | 996.1  | 1036.8 | 1073.4 | 1105.9 | 1085.6 | 1073.4 |
| 77.5° | 1382.4 | 1150.6 | 902.6  | 727.8  | 740.0  | 796.9  | 813.2  | 853.8  | 886.4  | 882.3  | 874.2  |
| 80°   | 837.6  | 719.7  | 609.9  | 471.6  | 467.6  | 512.3  | 618.0  | 687.1  | 703.4  | 666.8  | 662.7  |
| 82.5° | 435.1  | 378.1  | 325.3  | 264.3  | 292.7  | 341.5  | 357.8  | 431.0  | 475.7  | 459.4  | 479.8  |
| 85°   | 109.8  | 105.7  | 117.9  | 122.0  | 150.4  | 166.7  | 183.0  | 215.5  | 142.3  | 69.1   | 69.1   |
| 87.5° | 32.5   | 32.5   | 40.7   | 40.7   | 52.9   | 65.1   | 61.0   | 61.0   | 32.5   | 4.1    | 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)