

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: P381385

Luminaire Tested: **USSL-XL-PA3B-740-U-T2U-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P381385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-PA3B-740-U-T2U-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21347 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 234  
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

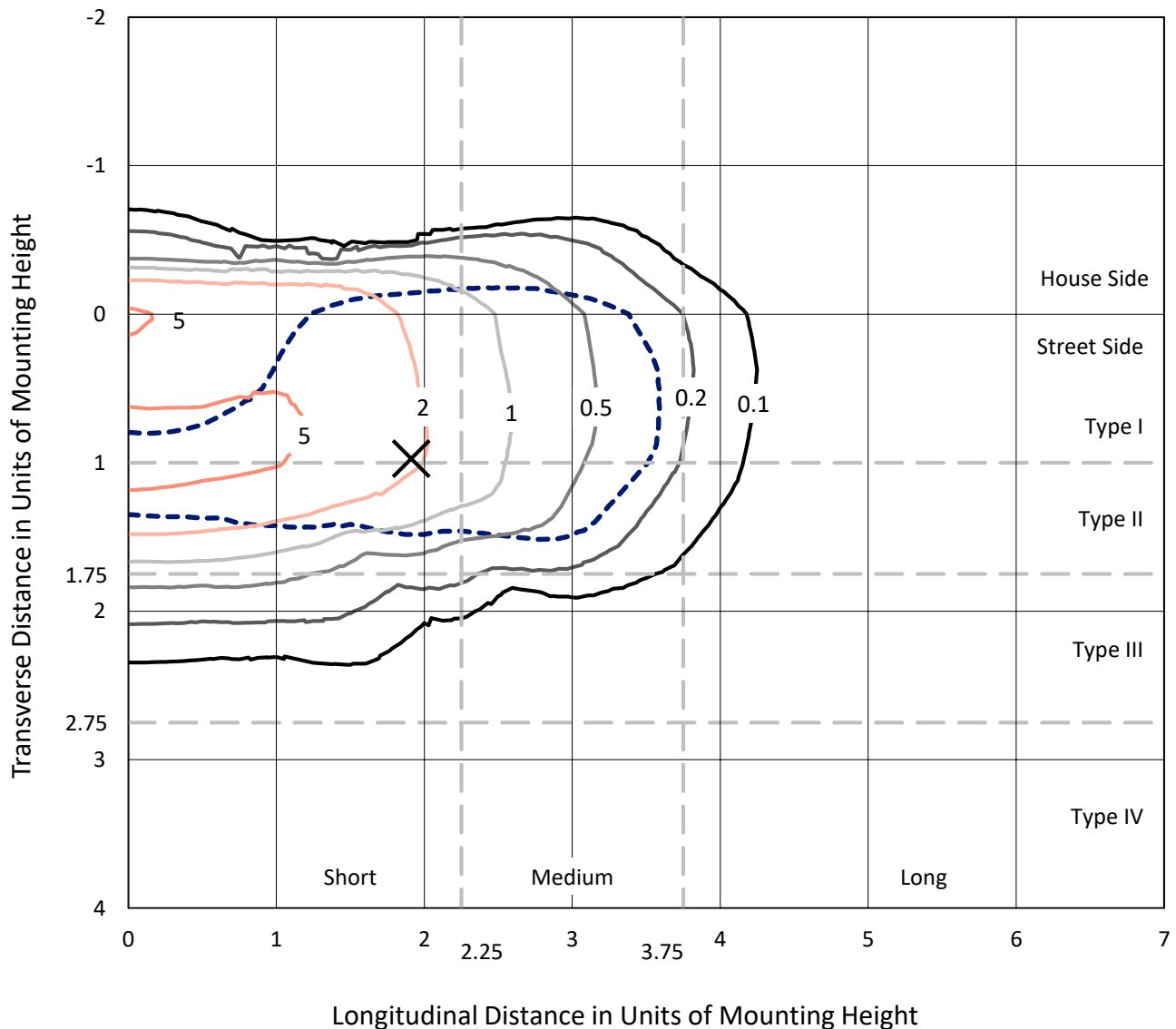


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

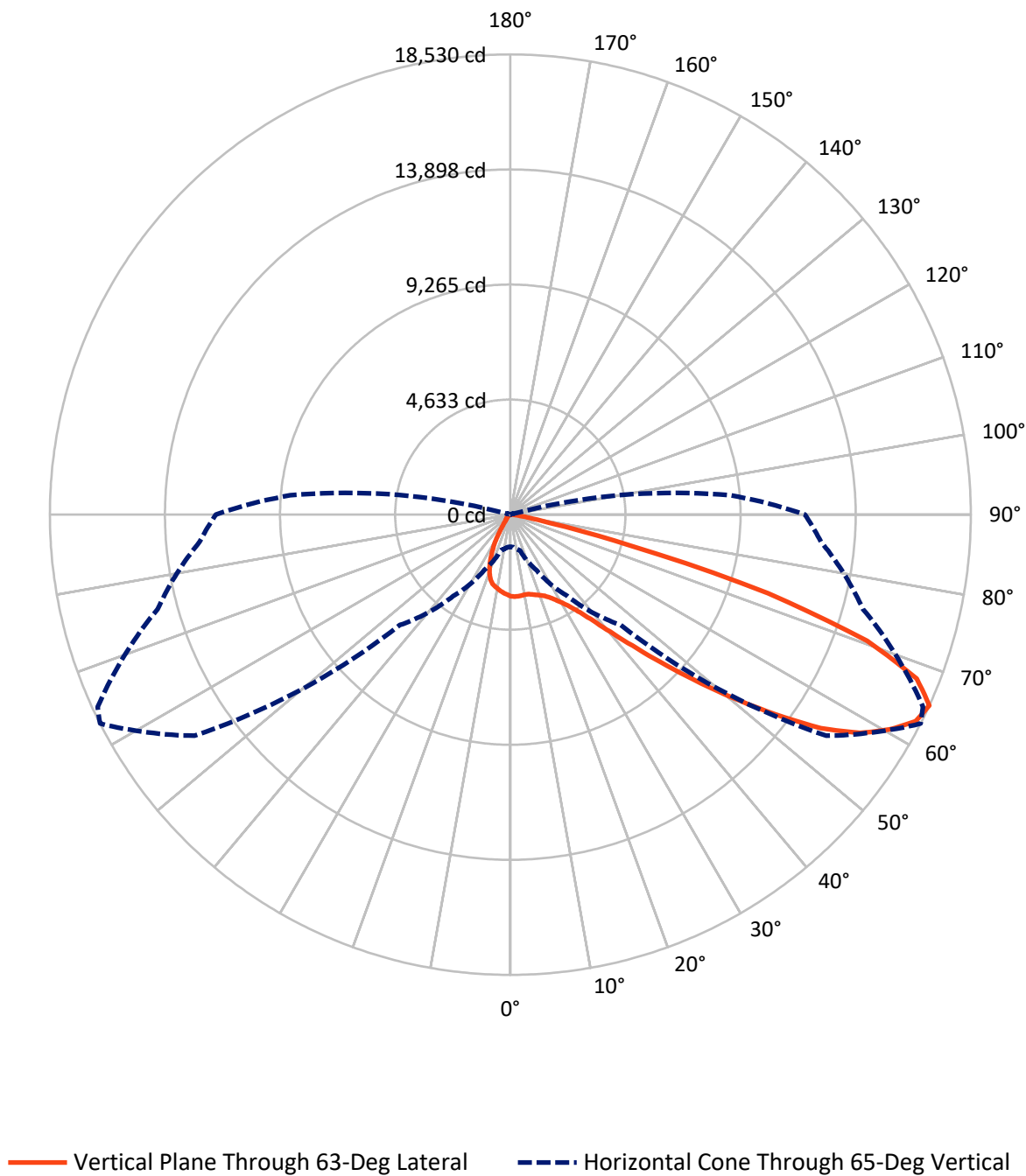


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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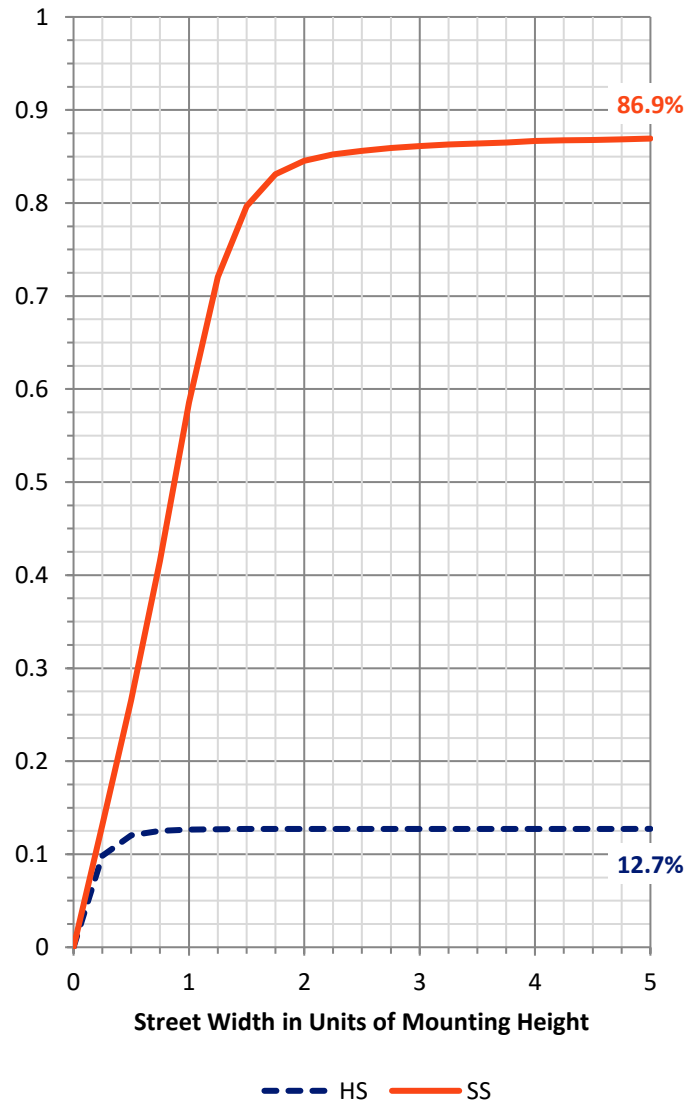
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2747.3   | 0.0    | 2747.3  |
|                    | % Fixture | 12.9     | 0.0    | 12.9    |
| <b>Street Side</b> | Lumens    | 18599.7  | 0.0    | 18599.7 |
|                    | % Fixture | 87.1     | 0.0    | 87.1    |
| <b>Total</b>       | Lumens    | 21347.0  | 0.0    | 21347.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 300.1   | 1.4       |
| 10°-20°   | 740.2   | 3.5       |
| 20°-30°   | 1097.2  | 5.1       |
| 30°-40°   | 2037.2  | 9.5       |
| 40°-50°   | 4315.6  | 20.2      |
| 50°-60°   | 5967.4  | 28.0      |
| 60°-70°   | 4777.1  | 22.4      |
| 70°-80°   | 1984.8  | 9.3       |
| 80°-90°   | 127.4   | 0.6       |
| 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°    | 21347.0 | 100.0     |
| 0°-180°   | 21347.0 | 100.0     |

**Coefficient of Utilization**



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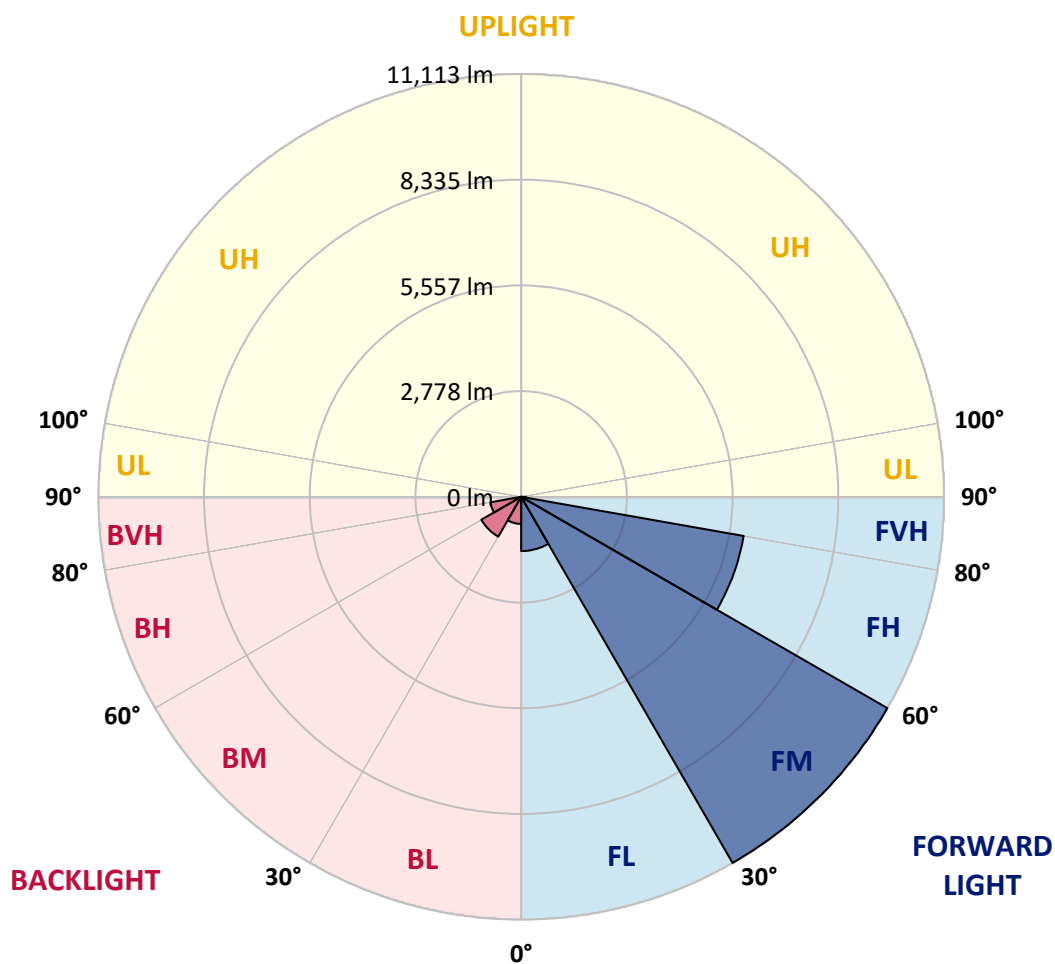
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1425.5  | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 11113.3 | 52.1      |                         |      |         |
| FH   | (60°-80°)   | 5939.2  | 27.8      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 121.6   | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 712.0   | 3.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1206.9  | 5.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 822.6   | 3.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 5.8     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 63°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3288.5  | 3288.5  | 3288.5  | 3288.5  | 3288.5  | 3288.5  | 3288.5  | 3288.5  | 3288.5  | 3288.5  | 3288.5  |
| 2.5°  | 3344.9  | 3336.9  | 3328.8  | 3324.8  | 3324.8  | 3320.8  | 3304.6  | 3300.6  | 3292.5  | 3284.5  | 3276.4  |
| 5°    | 3312.7  | 3300.6  | 3296.6  | 3300.6  | 3304.6  | 3312.7  | 3304.6  | 3304.6  | 3296.6  | 3288.5  | 3272.4  |
| 7.5°  | 3232.1  | 3224.0  | 3228.1  | 3240.2  | 3244.2  | 3272.4  | 3276.4  | 3288.5  | 3288.5  | 3280.5  | 3268.4  |
| 10°   | 3135.4  | 3131.3  | 3131.3  | 3151.5  | 3171.6  | 3211.9  | 3240.2  | 3272.4  | 3276.4  | 3276.4  | 3256.3  |
| 12.5° | 3062.8  | 3058.8  | 3070.9  | 3095.1  | 3135.4  | 3187.8  | 3236.1  | 3284.5  | 3292.5  | 3296.6  | 3264.3  |
| 15°   | 3018.5  | 3018.5  | 3034.6  | 3083.0  | 3139.4  | 3211.9  | 3268.4  | 3332.8  | 3340.9  | 3336.9  | 3292.5  |
| 17.5° | 2978.2  | 2982.2  | 3014.5  | 3095.1  | 3159.6  | 3256.3  | 3324.8  | 3397.3  | 3401.4  | 3397.3  | 3324.8  |
| 20°   | 2962.1  | 2970.1  | 3018.5  | 3123.3  | 3195.8  | 3304.6  | 3393.3  | 3465.8  | 3469.9  | 3453.7  | 3357.0  |
| 22.5° | 3006.4  | 3010.4  | 3070.9  | 3183.7  | 3252.2  | 3373.1  | 3486.0  | 3554.5  | 3558.5  | 3534.3  | 3405.4  |
| 25°   | 3159.6  | 3159.6  | 3211.9  | 3308.7  | 3369.1  | 3490.0  | 3610.9  | 3691.5  | 3691.5  | 3663.3  | 3514.2  |
| 27.5° | 3518.2  | 3486.0  | 3473.9  | 3502.1  | 3522.3  | 3651.2  | 3780.2  | 3880.9  | 3876.9  | 3836.6  | 3655.3  |
| 30°   | 4211.4  | 4130.8  | 4001.8  | 3856.8  | 3784.2  | 3872.9  | 3993.8  | 4122.7  | 4118.7  | 4054.2  | 3828.5  |
| 32.5° | 5376.1  | 5259.2  | 4952.9  | 4570.1  | 4259.8  | 4159.0  | 4271.8  | 4412.9  | 4416.9  | 4340.4  | 4106.6  |
| 35°   | 7008.2  | 6822.9  | 6274.8  | 5742.8  | 5033.5  | 4650.7  | 4682.9  | 4836.1  | 4884.4  | 4844.1  | 4574.1  |
| 37.5° | 8580.0  | 8410.7  | 7886.8  | 7149.3  | 6186.1  | 5404.3  | 5267.3  | 5400.3  | 5456.7  | 5456.7  | 5170.5  |
| 40°   | 10163.8 | 9966.3  | 9502.8  | 8761.3  | 7745.7  | 6581.1  | 6089.4  | 6198.2  | 6258.7  | 6270.8  | 5896.0  |
| 42.5° | 11433.2 | 11304.3 | 10949.6 | 10373.3 | 9422.2  | 8644.4  | 7274.2  | 7213.8  | 7270.2  | 7225.9  | 6738.2  |
| 45°   | 12311.8 | 12211.0 | 11965.2 | 11747.6 | 11284.1 | 10893.2 | 8858.0  | 8451.0  | 8487.3  | 8334.1  | 7685.3  |
| 47.5° | 12493.1 | 12380.3 | 12327.9 | 12630.2 | 12960.6 | 13057.3 | 10804.6 | 9922.0  | 9885.7  | 9547.2  | 8668.6  |
| 50°   | 11703.3 | 11715.3 | 11908.8 | 12771.2 | 14149.5 | 15020.0 | 13061.4 | 11582.3 | 11449.4 | 10695.7 | 9583.4  |
| 52.5° | 9998.5  | 10192.0 | 10679.6 | 12078.0 | 14512.2 | 16446.6 | 15318.2 | 13343.5 | 13137.9 | 11812.1 | 10268.6 |
| 55°   | 7822.3  | 8072.2  | 8874.2  | 10482.1 | 13754.5 | 17083.4 | 17220.4 | 15173.1 | 14705.6 | 12650.3 | 10800.5 |
| 57.5° | 5815.4  | 5891.9  | 6826.9  | 8293.8  | 11961.2 | 16458.7 | 18195.7 | 16583.6 | 15983.2 | 13319.3 | 11328.5 |
| 60°   | 3623.0  | 3671.4  | 4658.7  | 6315.1  | 9059.5  | 14149.5 | 18195.7 | 17554.9 | 16982.6 | 13919.8 | 11812.1 |
| 62.5° | 2252.8  | 2268.9  | 2639.7  | 4328.3  | 6157.9  | 10494.2 | 17442.0 | 18308.5 | 17849.1 | 14351.0 | 12227.2 |
| 65°   | 1297.7  | 1313.8  | 1487.1  | 2446.2  | 4005.9  | 6282.8  | 15515.7 | 18530.1 | 18324.6 | 14693.5 | 12549.6 |
| 67.5° | 947.1   | 955.1   | 1023.6  | 1374.2  | 2619.5  | 3228.1  | 11654.9 | 17639.5 | 17897.4 | 14862.8 | 12541.5 |
| 70°   | 822.1   | 834.2   | 922.9   | 1072.0  | 1890.1  | 1982.8  | 5932.2  | 15233.6 | 15954.9 | 14621.0 | 12166.7 |
| 72.5° | 632.7   | 648.8   | 781.8   | 1007.5  | 1386.3  | 1426.6  | 2148.0  | 10840.8 | 11933.0 | 13109.7 | 11139.0 |
| 75°   | 435.2   | 451.4   | 584.4   | 830.2   | 1144.5  | 1068.0  | 1180.8  | 4989.2  | 6294.9  | 8793.6  | 8479.2  |
| 77.5° | 278.1   | 282.1   | 366.7   | 604.5   | 987.4   | 757.6   | 810.0   | 1628.1  | 2285.0  | 3977.7  | 4001.8  |
| 80°   | 185.4   | 189.4   | 225.7   | 390.9   | 677.0   | 701.2   | 499.7   | 753.6   | 826.2   | 1160.7  | 806.0   |
| 82.5° | 112.8   | 112.8   | 153.1   | 245.8   | 411.1   | 580.3   | 326.4   | 394.9   | 423.2   | 447.3   | 209.6   |
| 85°   | 44.3    | 44.3    | 92.7    | 161.2   | 257.9   | 270.0   | 205.5   | 229.7   | 241.8   | 262.0   | 96.7    |
| 87.5° | 12.1    | 12.1    | 52.4    | 88.7    | 112.8   | 124.9   | 124.9   | 112.8   | 120.9   | 149.1   | 48.4    |
| 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°    | 3288.5  | 3288.5 | 3288.5 | 3288.5 | 3288.5 | 3288.5 | 3288.5 | 3288.5 | 3288.5 | 3288.5 | 3288.5 |
| 2.5°  | 3272.4  | 3260.3 | 3244.2 | 3228.1 | 3211.9 | 3199.9 | 3187.8 | 3187.8 | 3179.7 | 3167.6 | 3159.6 |
| 5°    | 3264.3  | 3244.2 | 3207.9 | 3179.7 | 3135.4 | 3103.1 | 3079.0 | 3058.8 | 3046.7 | 3018.5 | 3014.5 |
| 7.5°  | 3252.2  | 3228.1 | 3175.7 | 3119.3 | 3046.7 | 2990.3 | 2933.9 | 2893.6 | 2853.3 | 2821.0 | 2813.0 |
| 10°   | 3232.1  | 3203.9 | 3127.3 | 3046.7 | 2946.0 | 2841.2 | 2708.2 | 2555.0 | 2414.0 | 2333.4 | 2309.2 |
| 12.5° | 3232.1  | 3195.8 | 3095.1 | 2986.3 | 2841.2 | 2583.3 | 2244.7 | 1906.2 | 1644.3 | 1527.4 | 1495.1 |
| 15°   | 3252.2  | 3203.9 | 3070.9 | 2921.8 | 2651.8 | 2127.9 | 1579.8 | 1132.4 | 846.3  | 757.6  | 737.5  |
| 17.5° | 3272.4  | 3203.9 | 3034.6 | 2833.1 | 2305.2 | 1543.5 | 898.7  | 596.4  | 503.8  | 483.6  | 483.6  |
| 20°   | 3280.5  | 3195.8 | 2986.3 | 2667.9 | 1841.7 | 959.2  | 536.0  | 447.3  | 411.1  | 399.0  | 399.0  |
| 22.5° | 3312.7  | 3199.9 | 2950.0 | 2430.1 | 1338.0 | 564.2  | 423.2  | 374.8  | 338.5  | 326.4  | 326.4  |
| 25°   | 3393.3  | 3248.2 | 2958.1 | 2127.9 | 858.4  | 427.2  | 358.7  | 310.3  | 274.0  | 257.9  | 257.9  |
| 27.5° | 3522.3  | 3357.0 | 3002.4 | 1777.2 | 540.0  | 366.7  | 302.3  | 249.9  | 221.7  | 205.5  | 205.5  |
| 30°   | 3667.3  | 3477.9 | 3022.5 | 1374.2 | 403.0  | 310.3  | 245.8  | 197.5  | 177.3  | 165.2  | 161.2  |
| 32.5° | 3921.2  | 3687.5 | 3006.4 | 943.0  | 330.5  | 262.0  | 197.5  | 157.2  | 141.1  | 137.0  | 137.0  |
| 35°   | 4328.3  | 4054.2 | 2974.2 | 592.4  | 274.0  | 209.6  | 157.2  | 129.0  | 116.9  | 112.8  | 108.8  |
| 37.5° | 4880.4  | 4590.2 | 2877.5 | 390.9  | 225.7  | 165.2  | 129.0  | 108.8  | 96.7   | 92.7   | 92.7   |
| 40°   | 5553.4  | 5202.8 | 2692.1 | 298.2  | 193.4  | 133.0  | 108.8  | 92.7   | 84.6   | 80.6   | 80.6   |
| 42.5° | 6323.1  | 5883.9 | 2397.9 | 257.9  | 161.2  | 112.8  | 92.7   | 76.6   | 72.5   | 68.5   | 68.5   |
| 45°   | 7165.4  | 6597.2 | 1990.8 | 229.7  | 137.0  | 92.7   | 76.6   | 68.5   | 60.5   | 60.5   | 56.4   |
| 47.5° | 8060.1  | 7314.5 | 1531.4 | 201.5  | 116.9  | 80.6   | 68.5   | 56.4   | 52.4   | 48.4   | 48.4   |
| 50°   | 8922.5  | 7955.3 | 1076.0 | 173.3  | 96.7   | 68.5   | 56.4   | 48.4   | 44.3   | 40.3   | 40.3   |
| 52.5° | 9531.1  | 8342.2 | 761.7  | 149.1  | 80.6   | 60.5   | 44.3   | 36.3   | 32.2   | 32.2   | 32.2   |
| 55°   | 10018.7 | 8584.0 | 532.0  | 124.9  | 68.5   | 52.4   | 36.3   | 28.2   | 28.2   | 24.2   | 24.2   |
| 57.5° | 10478.1 | 8741.2 | 390.9  | 104.8  | 56.4   | 40.3   | 28.2   | 20.2   | 20.2   | 16.1   | 16.1   |
| 60°   | 10953.7 | 8825.8 | 298.2  | 84.6   | 48.4   | 32.2   | 20.2   | 16.1   | 12.1   | 12.1   | 12.1   |
| 62.5° | 11433.2 | 8878.2 | 229.7  | 68.5   | 40.3   | 24.2   | 16.1   | 12.1   | 8.1    | 4.0    | 4.0    |
| 65°   | 11852.4 | 8894.3 | 177.3  | 52.4   | 32.2   | 16.1   | 12.1   | 4.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 11977.3 | 8708.9 | 137.0  | 40.3   | 24.2   | 12.1   | 8.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 11638.8 | 8217.3 | 104.8  | 32.2   | 20.2   | 8.1    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 10329.0 | 6891.4 | 80.6   | 20.2   | 16.1   | 8.1    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 7391.1  | 3675.4 | 56.4   | 16.1   | 12.1   | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 3401.4  | 1422.6 | 40.3   | 12.1   | 8.1    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 665.0   | 354.6  | 16.1   | 8.1    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 153.1   | 60.5   | 8.1    | 8.1    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 52.4    | 20.2   | 4.0    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 20.2    | 8.1    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)