

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: P381389

Luminaire Tested: **USSL-PA1B-750-U-T2U-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P381389  
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-PA1B-750-U-T2U-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 930mA LIGHT ENGINE 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: 6893 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 74  
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

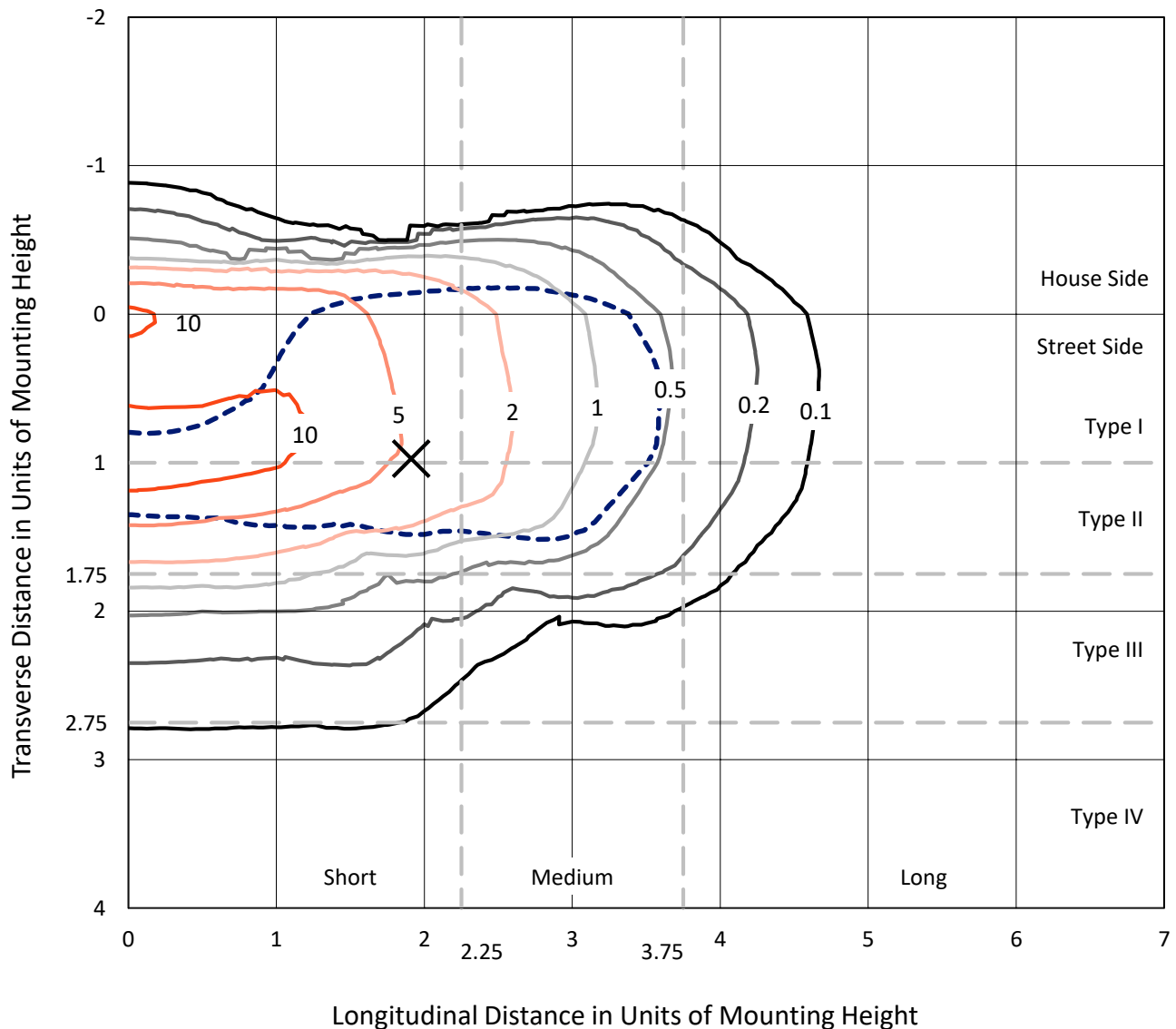


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

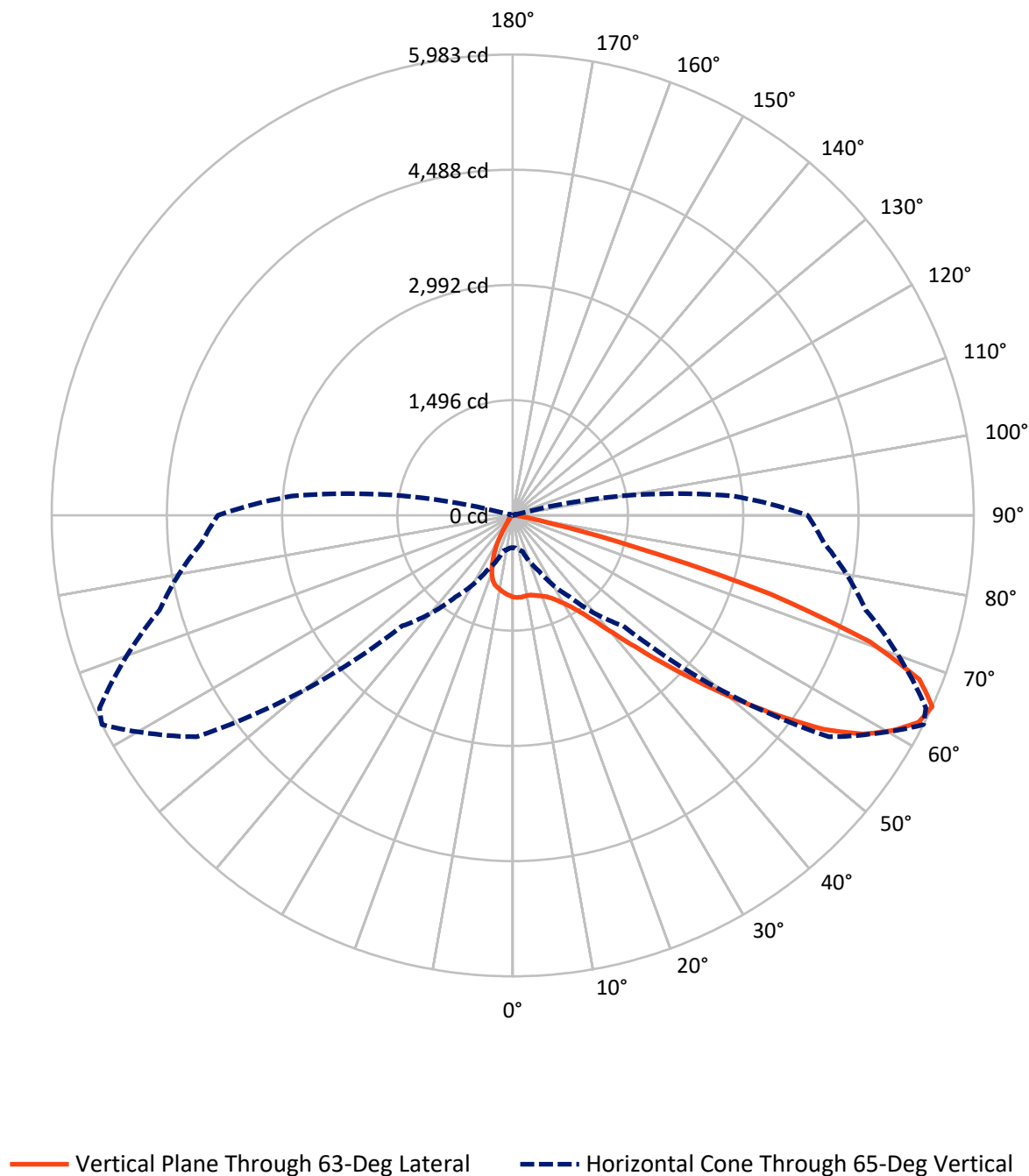


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc  
Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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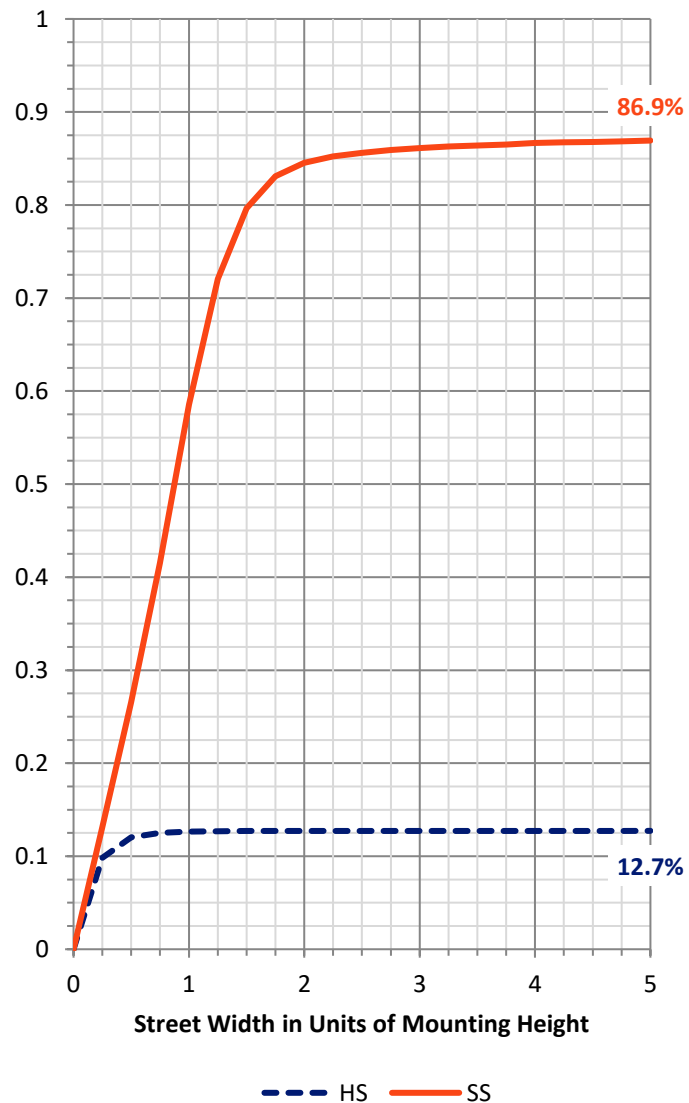
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 887.1    | 0.0    | 887.1  |
|                    | % Fixture | 12.9     | 0.0    | 12.9   |
| <b>Street Side</b> | Lumens    | 6005.9   | 0.0    | 6005.9 |
|                    | % Fixture | 87.1     | 0.0    | 87.1   |
| <b>Total</b>       | Lumens    | 6893.0   | 0.0    | 6893.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.9   | 1.4       |
| 10°-20°   | 239.0  | 3.5       |
| 20°-30°   | 354.3  | 5.1       |
| 30°-40°   | 657.8  | 9.5       |
| 40°-50°   | 1393.5 | 20.2      |
| 50°-60°   | 1926.9 | 28.0      |
| 60°-70°   | 1542.5 | 22.4      |
| 70°-80°   | 640.9  | 9.3       |
| 80°-90°   | 41.1   | 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°    | 6893.0 | 100.0     |
| 0°-180°   | 6893.0 | 100.0     |

**Coefficient of Utilization**



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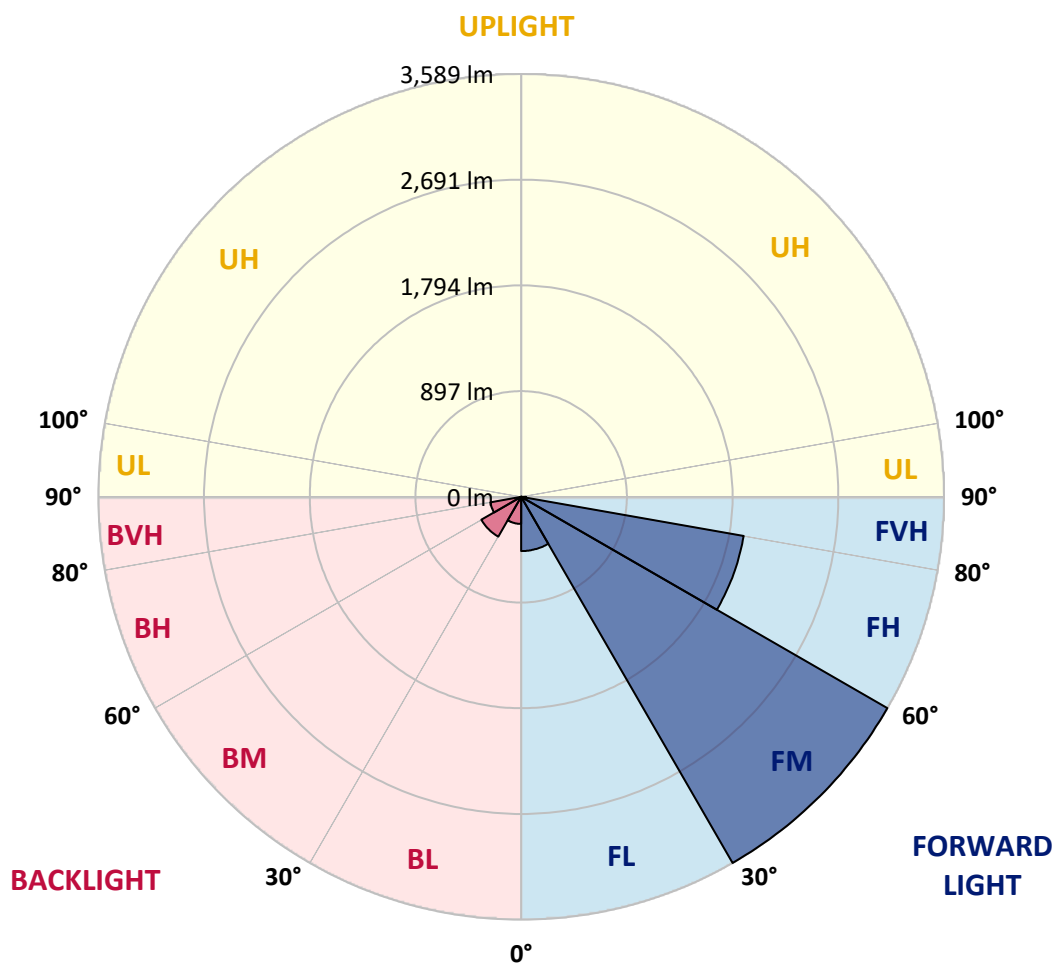
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 460.3  | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 3588.5 | 52.1      |                         |      |         |
| FH   | (60°-80°)   | 1917.8 | 27.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 39.3   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 229.9  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 389.7  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 265.6  | 3.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.9    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 63°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 |
| 2.5°  | 1080.1 | 1077.5 | 1074.9 | 1073.6 | 1073.6 | 1072.3 | 1067.1 | 1065.8 | 1063.2 | 1060.6 | 1058.0 |
| 5°    | 1069.7 | 1065.8 | 1064.5 | 1065.8 | 1067.1 | 1069.7 | 1067.1 | 1067.1 | 1064.5 | 1061.9 | 1056.7 |
| 7.5°  | 1043.7 | 1041.0 | 1042.4 | 1046.3 | 1047.6 | 1056.7 | 1058.0 | 1061.9 | 1061.9 | 1059.3 | 1055.4 |
| 10°   | 1012.4 | 1011.1 | 1011.1 | 1017.6 | 1024.1 | 1037.1 | 1046.3 | 1056.7 | 1058.0 | 1058.0 | 1051.5 |
| 12.5° | 989.0  | 987.7  | 991.6  | 999.4  | 1012.4 | 1029.3 | 1045.0 | 1060.6 | 1063.2 | 1064.5 | 1054.1 |
| 15°   | 974.7  | 974.7  | 979.9  | 995.5  | 1013.7 | 1037.1 | 1055.4 | 1076.2 | 1078.8 | 1077.5 | 1063.2 |
| 17.5° | 961.7  | 963.0  | 973.4  | 999.4  | 1020.2 | 1051.5 | 1073.6 | 1097.0 | 1098.3 | 1097.0 | 1073.6 |
| 20°   | 956.5  | 959.1  | 974.7  | 1008.5 | 1031.9 | 1067.1 | 1095.7 | 1119.1 | 1120.4 | 1115.2 | 1084.0 |
| 22.5° | 970.8  | 972.1  | 991.6  | 1028.0 | 1050.2 | 1089.2 | 1125.6 | 1147.8 | 1149.1 | 1141.3 | 1099.6 |
| 25°   | 1020.2 | 1020.2 | 1037.1 | 1068.4 | 1087.9 | 1126.9 | 1166.0 | 1192.0 | 1192.0 | 1182.9 | 1134.7 |
| 27.5° | 1136.0 | 1125.6 | 1121.7 | 1130.8 | 1137.3 | 1179.0 | 1220.6 | 1253.2 | 1251.9 | 1238.8 | 1180.3 |
| 30°   | 1359.9 | 1333.8 | 1292.2 | 1245.4 | 1221.9 | 1250.6 | 1289.6 | 1331.2 | 1329.9 | 1309.1 | 1236.2 |
| 32.5° | 1735.9 | 1698.2 | 1599.3 | 1475.7 | 1375.5 | 1343.0 | 1379.4 | 1424.9 | 1426.2 | 1401.5 | 1326.0 |
| 35°   | 2263.0 | 2203.1 | 2026.1 | 1854.4 | 1625.3 | 1501.7 | 1512.1 | 1561.6 | 1577.2 | 1564.2 | 1477.0 |
| 37.5° | 2770.5 | 2715.8 | 2546.7 | 2308.5 | 1997.5 | 1745.1 | 1700.8 | 1743.8 | 1762.0 | 1762.0 | 1669.6 |
| 40°   | 3281.9 | 3218.1 | 3068.5 | 2829.1 | 2501.1 | 2125.0 | 1966.3 | 2001.4 | 2020.9 | 2024.8 | 1903.8 |
| 42.5° | 3691.8 | 3650.2 | 3535.7 | 3349.6 | 3042.5 | 2791.3 | 2348.9 | 2329.3 | 2347.6 | 2333.3 | 2175.8 |
| 45°   | 3975.5 | 3943.0 | 3863.6 | 3793.3 | 3643.7 | 3517.4 | 2860.3 | 2728.9 | 2740.6 | 2691.1 | 2481.6 |
| 47.5° | 4034.1 | 3997.6 | 3980.7 | 4078.3 | 4185.0 | 4216.2 | 3488.8 | 3203.8 | 3192.1 | 3082.8 | 2799.1 |
| 50°   | 3779.0 | 3782.9 | 3845.4 | 4123.9 | 4568.9 | 4850.0 | 4217.6 | 3740.0 | 3697.0 | 3453.7 | 3094.5 |
| 52.5° | 3228.6 | 3291.0 | 3448.5 | 3900.0 | 4686.0 | 5310.7 | 4946.3 | 4308.6 | 4242.3 | 3814.1 | 3315.7 |
| 55°   | 2525.8 | 2606.5 | 2865.5 | 3384.7 | 4441.4 | 5516.3 | 5560.5 | 4899.4 | 4748.5 | 4084.8 | 3487.5 |
| 57.5° | 1877.8 | 1902.5 | 2204.4 | 2678.1 | 3862.3 | 5314.6 | 5875.4 | 5354.9 | 5161.0 | 4300.8 | 3658.0 |
| 60°   | 1169.9 | 1185.5 | 1504.3 | 2039.2 | 2925.3 | 4568.9 | 5875.4 | 5668.5 | 5483.7 | 4494.7 | 3814.1 |
| 62.5° | 727.4  | 732.6  | 852.4  | 1397.6 | 1988.4 | 3388.6 | 5632.1 | 5911.9 | 5763.5 | 4634.0 | 3948.2 |
| 65°   | 419.0  | 424.2  | 480.2  | 789.9  | 1293.5 | 2028.7 | 5010.1 | 5983.4 | 5917.1 | 4744.6 | 4052.3 |
| 67.5° | 305.8  | 308.4  | 330.5  | 443.7  | 845.9  | 1042.4 | 3763.4 | 5695.8 | 5779.1 | 4799.2 | 4049.7 |
| 70°   | 265.5  | 269.4  | 298.0  | 346.1  | 610.3  | 640.2  | 1915.5 | 4919.0 | 5151.9 | 4721.2 | 3928.7 |
| 72.5° | 204.3  | 209.5  | 252.5  | 325.3  | 447.7  | 460.7  | 693.6  | 3500.5 | 3853.2 | 4233.2 | 3596.8 |
| 75°   | 140.5  | 145.7  | 188.7  | 268.1  | 369.6  | 344.8  | 381.3  | 1611.0 | 2032.6 | 2839.5 | 2738.0 |
| 77.5° | 89.8   | 91.1   | 118.4  | 195.2  | 318.8  | 244.6  | 261.6  | 525.7  | 737.8  | 1284.4 | 1292.2 |
| 80°   | 59.9   | 61.2   | 72.9   | 126.2  | 218.6  | 226.4  | 161.4  | 243.3  | 266.8  | 374.8  | 260.3  |
| 82.5° | 36.4   | 36.4   | 49.4   | 79.4   | 132.7  | 187.4  | 105.4  | 127.5  | 136.6  | 144.4  | 67.7   |
| 85°   | 14.3   | 14.3   | 29.9   | 52.1   | 83.3   | 87.2   | 66.4   | 74.2   | 78.1   | 84.6   | 31.2   |
| 87.5° | 3.9    | 3.9    | 16.9   | 28.6   | 36.4   | 40.3   | 40.3   | 36.4   | 39.0   | 48.1   | 15.6   |
| 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°    | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 |
| 2.5°  | 1056.7 | 1052.8 | 1047.6 | 1042.4 | 1037.1 | 1033.2 | 1029.3 | 1029.3 | 1026.7 | 1022.8 | 1020.2 |
| 5°    | 1054.1 | 1047.6 | 1035.8 | 1026.7 | 1012.4 | 1002.0 | 994.2  | 987.7  | 983.8  | 974.7  | 973.4  |
| 7.5°  | 1050.2 | 1042.4 | 1025.4 | 1007.2 | 983.8  | 965.6  | 947.4  | 934.3  | 921.3  | 910.9  | 908.3  |
| 10°   | 1043.7 | 1034.5 | 1009.8 | 983.8  | 951.3  | 917.4  | 874.5  | 825.0  | 779.5  | 753.5  | 745.7  |
| 12.5° | 1043.7 | 1031.9 | 999.4  | 964.3  | 917.4  | 834.1  | 724.8  | 615.5  | 530.9  | 493.2  | 482.8  |
| 15°   | 1050.2 | 1034.5 | 991.6  | 943.5  | 856.3  | 687.1  | 510.1  | 365.7  | 273.3  | 244.6  | 238.1  |
| 17.5° | 1056.7 | 1034.5 | 979.9  | 914.8  | 744.4  | 498.4  | 290.2  | 192.6  | 162.7  | 156.2  | 156.2  |
| 20°   | 1059.3 | 1031.9 | 964.3  | 861.5  | 594.7  | 309.7  | 173.1  | 144.4  | 132.7  | 128.8  | 128.8  |
| 22.5° | 1069.7 | 1033.2 | 952.6  | 784.7  | 432.0  | 182.2  | 136.6  | 121.0  | 109.3  | 105.4  | 105.4  |
| 25°   | 1095.7 | 1048.9 | 955.2  | 687.1  | 277.2  | 137.9  | 115.8  | 100.2  | 88.5   | 83.3   | 83.3   |
| 27.5° | 1137.3 | 1084.0 | 969.5  | 573.9  | 174.4  | 118.4  | 97.6   | 80.7   | 71.6   | 66.4   | 66.4   |
| 30°   | 1184.2 | 1123.0 | 976.0  | 443.7  | 130.1  | 100.2  | 79.4   | 63.8   | 57.3   | 53.4   | 52.1   |
| 32.5° | 1266.2 | 1190.7 | 970.8  | 304.5  | 106.7  | 84.6   | 63.8   | 50.8   | 45.5   | 44.2   | 44.2   |
| 35°   | 1397.6 | 1309.1 | 960.4  | 191.3  | 88.5   | 67.7   | 50.8   | 41.6   | 37.7   | 36.4   | 35.1   |
| 37.5° | 1575.9 | 1482.2 | 929.1  | 126.2  | 72.9   | 53.4   | 41.6   | 35.1   | 31.2   | 29.9   | 29.9   |
| 40°   | 1793.2 | 1680.0 | 869.3  | 96.3   | 62.5   | 42.9   | 35.1   | 29.9   | 27.3   | 26.0   | 26.0   |
| 42.5° | 2041.8 | 1899.9 | 774.3  | 83.3   | 52.1   | 36.4   | 29.9   | 24.7   | 23.4   | 22.1   | 22.1   |
| 45°   | 2313.7 | 2130.2 | 642.8  | 74.2   | 44.2   | 29.9   | 24.7   | 22.1   | 19.5   | 19.5   | 18.2   |
| 47.5° | 2602.6 | 2361.9 | 494.5  | 65.1   | 37.7   | 26.0   | 22.1   | 18.2   | 16.9   | 15.6   | 15.6   |
| 50°   | 2881.1 | 2568.8 | 347.5  | 56.0   | 31.2   | 22.1   | 18.2   | 15.6   | 14.3   | 13.0   | 13.0   |
| 52.5° | 3077.6 | 2693.7 | 245.9  | 48.1   | 26.0   | 19.5   | 14.3   | 11.7   | 10.4   | 10.4   | 10.4   |
| 55°   | 3235.1 | 2771.8 | 171.8  | 40.3   | 22.1   | 16.9   | 11.7   | 9.1    | 9.1    | 7.8    | 7.8    |
| 57.5° | 3383.4 | 2822.5 | 126.2  | 33.8   | 18.2   | 13.0   | 9.1    | 6.5    | 6.5    | 5.2    | 5.2    |
| 60°   | 3537.0 | 2849.9 | 96.3   | 27.3   | 15.6   | 10.4   | 6.5    | 5.2    | 3.9    | 3.9    | 3.9    |
| 62.5° | 3691.8 | 2866.8 | 74.2   | 22.1   | 13.0   | 7.8    | 5.2    | 3.9    | 2.6    | 1.3    | 1.3    |
| 65°   | 3827.2 | 2872.0 | 57.3   | 16.9   | 10.4   | 5.2    | 3.9    | 1.3    | 0.0    | 0.0    | 0.0    |
| 67.5° | 3867.5 | 2812.1 | 44.2   | 13.0   | 7.8    | 3.9    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 3758.2 | 2653.4 | 33.8   | 10.4   | 6.5    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 3335.3 | 2225.2 | 26.0   | 6.5    | 5.2    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 2386.6 | 1186.8 | 18.2   | 5.2    | 3.9    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 1098.3 | 459.4  | 13.0   | 3.9    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 214.7  | 114.5  | 5.2    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 49.4   | 19.5   | 2.6    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 16.9   | 6.5    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 6.5    | 2.6    | 1.3    | 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)