

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: P381245

Luminaire Tested: **USSL-PA1B-730-U-T3-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P381245  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-PA1B-730-U-T3-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6627 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type IV - Medium - Non-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

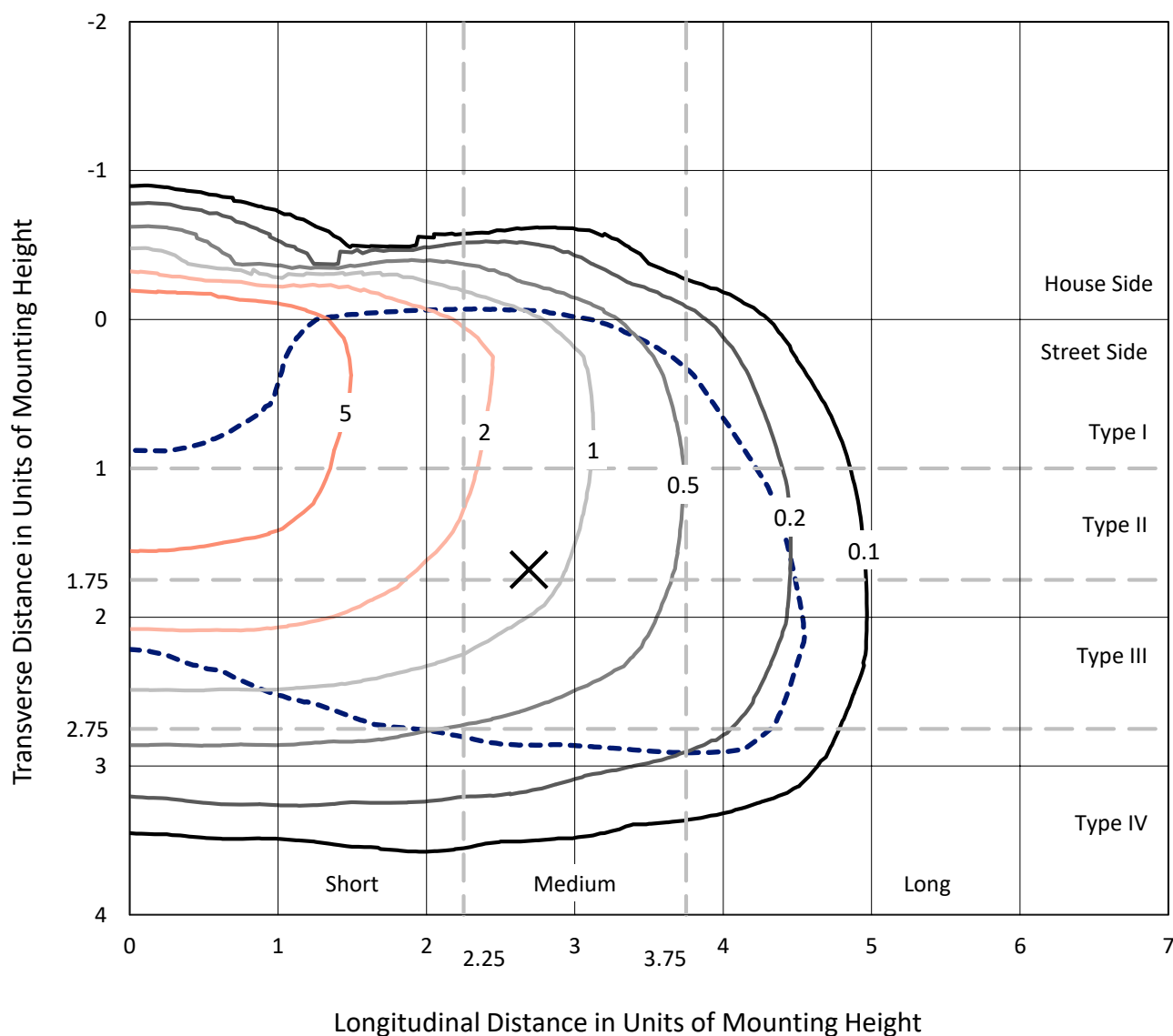


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

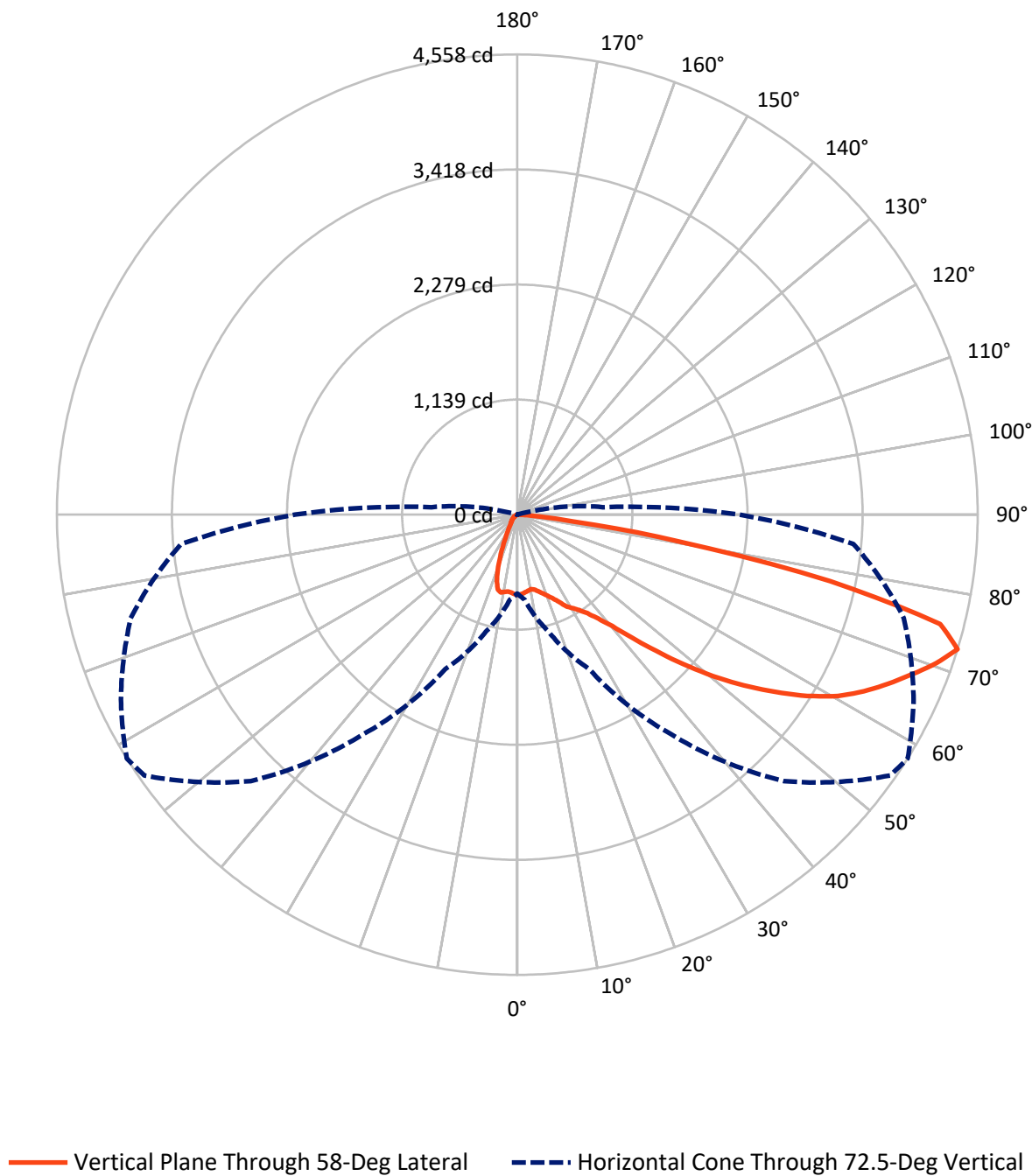


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc  
 Type IV - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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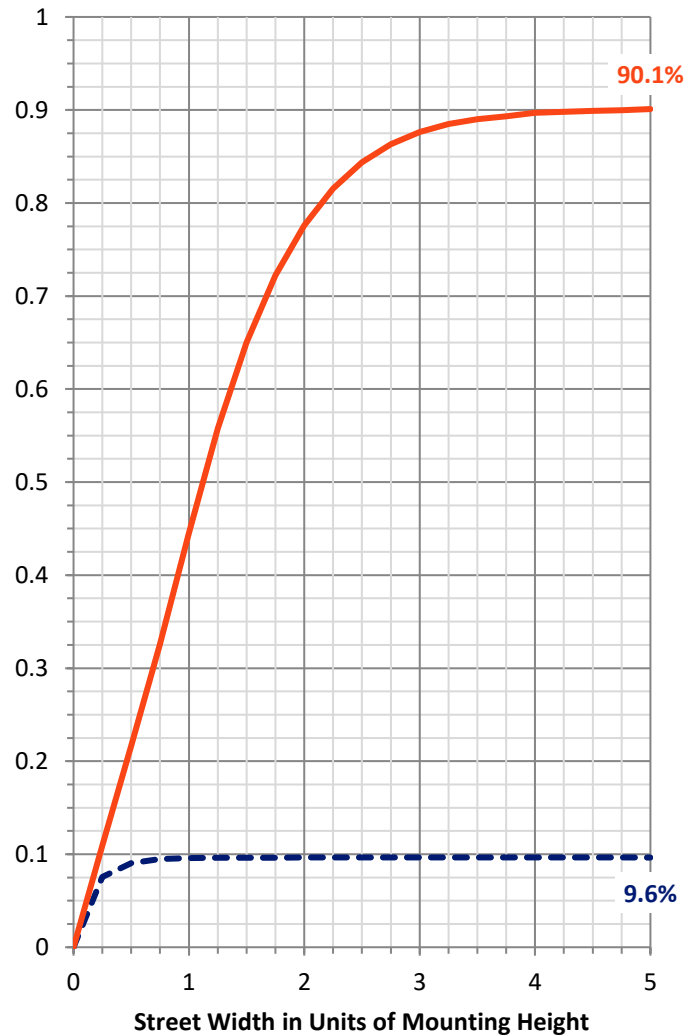
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 644.4    | 0.0    | 644.4  |
|                    | % Fixture | 9.7      | 0.0    | 9.7    |
| <b>Street Side</b> | Lumens    | 5982.6   | 0.0    | 5982.6 |
|                    | % Fixture | 90.3     | 0.0    | 90.3   |
| <b>Total</b>       | Lumens    | 6627.0   | 0.0    | 6627.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.0   | 1.1       |
| 10°-20°   | 190.1  | 2.9       |
| 20°-30°   | 298.6  | 4.5       |
| 30°-40°   | 515.0  | 7.8       |
| 40°-50°   | 979.8  | 14.8      |
| 50°-60°   | 1551.6 | 23.4      |
| 60°-70°   | 1810.6 | 27.3      |
| 70°-80°   | 1134.0 | 17.1      |
| 80°-90°   | 74.4   | 1.1       |
| 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°    | 6627.0 | 100.0     |
| 0°-180°   | 6627.0 | 100.0     |

**Coefficient of Utilization**



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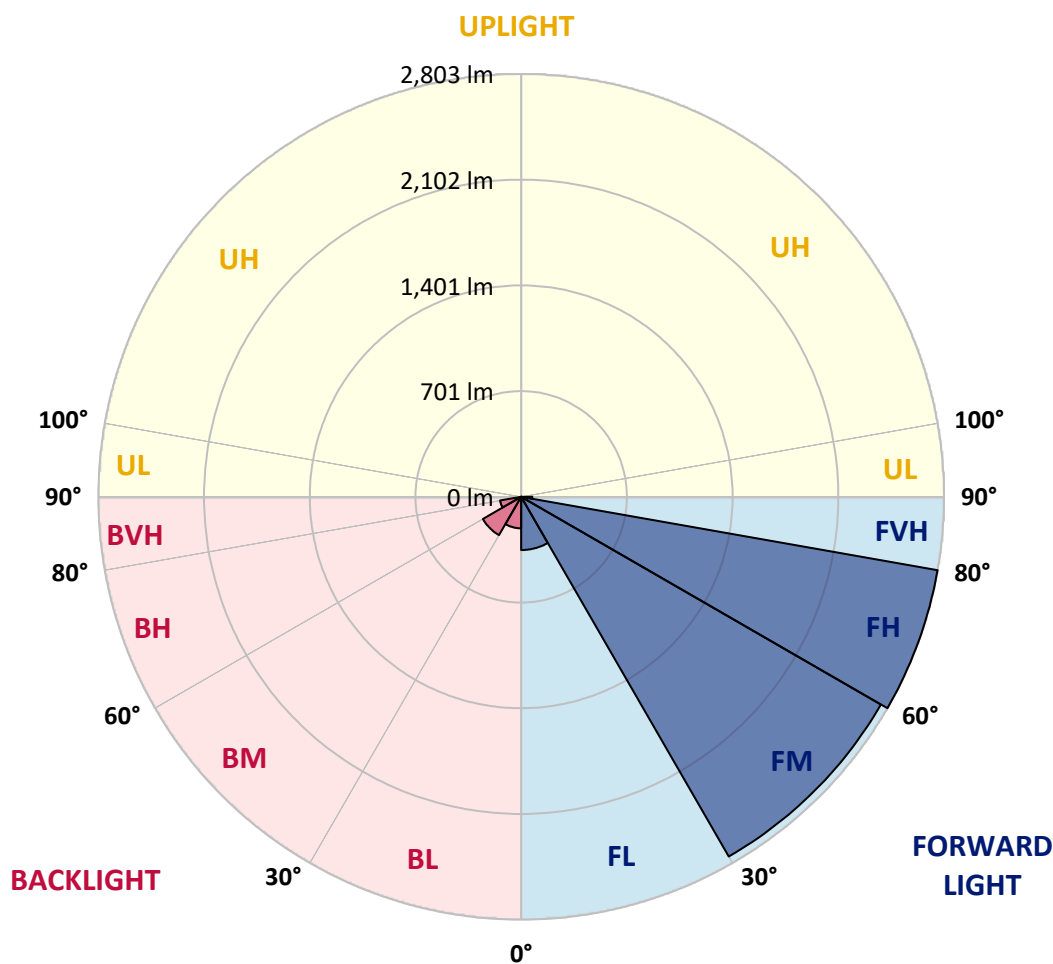
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 353.0  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 2753.1 | 41.5      |                         |      |         |
| FH   | (60°-80°)   | 2802.7 | 42.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 73.7   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 208.7  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 293.2  | 4.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 141.8  | 2.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 0.7    | 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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 795.2  | 795.2  | 795.2  | 795.2  | 795.2  | 795.2  | 795.2  | 795.2  | 795.2  | 795.2  | 795.2  |
| 2.5°  | 791.6  | 788.1  | 786.9  | 785.7  | 786.9  | 788.1  | 784.5  | 788.1  | 785.7  | 786.9  | 789.3  |
| 5°    | 763.2  | 759.6  | 758.5  | 759.6  | 763.2  | 769.1  | 771.5  | 775.1  | 775.1  | 778.6  | 779.8  |
| 7.5°  | 731.2  | 728.8  | 727.6  | 730.0  | 737.1  | 750.2  | 757.3  | 762.0  | 766.8  | 773.9  | 781.0  |
| 10°   | 713.4  | 712.2  | 711.1  | 714.6  | 721.7  | 733.6  | 743.1  | 750.2  | 767.9  | 788.1  | 801.1  |
| 12.5° | 701.6  | 701.6  | 703.9  | 711.1  | 720.5  | 730.0  | 752.5  | 762.0  | 789.3  | 820.1  | 837.9  |
| 15°   | 692.1  | 692.1  | 695.7  | 708.7  | 721.7  | 744.2  | 777.4  | 788.1  | 820.1  | 858.0  | 881.7  |
| 17.5° | 685.0  | 687.4  | 689.7  | 702.8  | 727.6  | 765.6  | 804.7  | 820.1  | 859.2  | 900.7  | 926.7  |
| 20°   | 686.2  | 688.5  | 689.7  | 702.8  | 738.3  | 790.5  | 840.2  | 858.0  | 903.0  | 946.9  | 973.0  |
| 22.5° | 693.3  | 696.8  | 698.0  | 715.8  | 757.3  | 816.5  | 880.5  | 900.7  | 949.3  | 995.5  | 1015.6 |
| 25°   | 722.9  | 725.3  | 718.2  | 733.6  | 784.5  | 856.8  | 932.7  | 954.0  | 1002.6 | 1045.3 | 1061.8 |
| 27.5° | 823.6  | 826.0  | 786.9  | 769.1  | 805.9  | 890.0  | 996.7  | 1026.3 | 1086.7 | 1115.2 | 1117.5 |
| 30°   | 1041.7 | 1044.1 | 967.0  | 882.9  | 856.8  | 918.4  | 1032.2 | 1073.7 | 1151.9 | 1183.9 | 1169.7 |
| 32.5° | 1322.6 | 1320.2 | 1214.7 | 1090.3 | 977.7  | 968.2  | 1083.2 | 1127.0 | 1212.4 | 1243.2 | 1232.5 |
| 35°   | 1604.6 | 1608.2 | 1518.1 | 1330.9 | 1169.7 | 1061.8 | 1148.4 | 1199.3 | 1302.4 | 1346.3 | 1327.3 |
| 37.5° | 1797.8 | 1821.5 | 1782.4 | 1579.7 | 1405.5 | 1234.9 | 1253.8 | 1308.3 | 1437.5 | 1496.8 | 1456.5 |
| 40°   | 2070.4 | 2064.4 | 1969.6 | 1820.3 | 1666.2 | 1490.9 | 1424.5 | 1450.6 | 1598.7 | 1678.1 | 1615.3 |
| 42.5° | 2436.6 | 2424.7 | 2263.5 | 2117.8 | 1945.9 | 1802.5 | 1667.4 | 1662.7 | 1783.6 | 1876.0 | 1784.8 |
| 45°   | 2768.4 | 2750.6 | 2640.4 | 2499.4 | 2310.9 | 2146.2 | 1963.7 | 1922.2 | 2006.4 | 2084.6 | 1977.9 |
| 47.5° | 3032.7 | 3003.0 | 2924.8 | 2850.2 | 2803.9 | 2548.0 | 2274.2 | 2211.4 | 2254.1 | 2312.1 | 2161.6 |
| 50°   | 3345.5 | 3263.8 | 3150.0 | 3105.0 | 3200.9 | 3003.0 | 2572.8 | 2512.4 | 2510.0 | 2543.2 | 2351.2 |
| 52.5° | 3487.7 | 3339.6 | 3275.6 | 3313.5 | 3483.0 | 3426.1 | 2895.2 | 2808.7 | 2774.3 | 2777.9 | 2527.8 |
| 55°   | 3315.9 | 3299.3 | 3333.7 | 3452.2 | 3673.8 | 3640.6 | 3204.5 | 3097.8 | 3046.9 | 2982.9 | 2697.3 |
| 57.5° | 3120.4 | 3171.3 | 3307.6 | 3534.0 | 3915.6 | 3864.6 | 3509.1 | 3388.2 | 3294.6 | 3147.6 | 2885.7 |
| 60°   | 2940.2 | 2992.4 | 3217.5 | 3552.9 | 4048.3 | 4080.3 | 3762.7 | 3647.7 | 3509.1 | 3315.9 | 3093.1 |
| 62.5° | 2666.5 | 2706.8 | 3023.2 | 3525.7 | 3990.2 | 4205.9 | 3939.3 | 3852.7 | 3723.6 | 3475.9 | 3331.3 |
| 65°   | 2358.3 | 2384.4 | 2697.3 | 3307.6 | 3876.4 | 4191.7 | 4085.0 | 4036.4 | 3910.8 | 3643.0 | 3567.1 |
| 67.5° | 2020.6 | 2051.4 | 2312.1 | 2915.3 | 3653.7 | 4125.3 | 4222.5 | 4217.8 | 4074.4 | 3827.9 | 3737.8 |
| 70°   | 1631.9 | 1634.2 | 1849.9 | 2417.6 | 3264.9 | 3992.6 | 4393.2 | 4403.8 | 4230.8 | 3966.5 | 3744.9 |
| 72.5° | 781.0  | 845.0  | 1199.3 | 1687.6 | 2653.4 | 3731.9 | 4504.6 | 4557.9 | 4329.2 | 3961.8 | 3340.8 |
| 75°   | 178.9  | 184.9  | 349.6  | 802.3  | 1556.0 | 2864.4 | 4226.1 | 4325.6 | 4089.8 | 3426.1 | 2353.6 |
| 77.5° | 65.2   | 68.7   | 98.4   | 234.6  | 598.5  | 1480.2 | 3024.4 | 3170.1 | 3023.2 | 2214.9 | 1112.8 |
| 80°   | 43.8   | 42.7   | 51.0   | 104.3  | 274.9  | 419.5  | 1546.6 | 1633.1 | 1490.9 | 756.1  | 266.6  |
| 82.5° | 22.5   | 23.7   | 35.6   | 58.1   | 184.9  | 145.8  | 516.7  | 561.7  | 462.2  | 151.7  | 49.8   |
| 85°   | 10.7   | 10.7   | 20.1   | 36.7   | 78.2   | 51.0   | 115.0  | 138.7  | 124.4  | 66.4   | 16.6   |
| 87.5° | 10.7   | 10.7   | 19.0   | 23.7   | 40.3   | 21.3   | 28.4   | 35.6   | 33.2   | 35.6   | 5.9    |
| 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°    | 795.2  | 795.2  | 795.2 | 795.2 | 795.2 | 795.2 | 795.2 | 795.2 | 795.2 | 795.2 | 795.2 |
| 2.5°  | 789.3  | 788.1  | 786.9 | 789.3 | 788.1 | 790.5 | 790.5 | 792.8 | 792.8 | 790.5 | 789.3 |
| 5°    | 778.6  | 776.2  | 773.9 | 773.9 | 772.7 | 775.1 | 782.2 | 788.1 | 789.3 | 785.7 | 784.5 |
| 7.5°  | 779.8  | 779.8  | 777.4 | 772.7 | 764.4 | 764.4 | 764.4 | 771.5 | 775.1 | 772.7 | 771.5 |
| 10°   | 801.1  | 802.3  | 796.4 | 785.7 | 771.5 | 758.5 | 733.6 | 696.8 | 662.5 | 653.0 | 649.4 |
| 12.5° | 837.9  | 839.0  | 827.2 | 808.2 | 778.6 | 701.6 | 606.8 | 519.1 | 451.5 | 432.6 | 429.0 |
| 15°   | 881.7  | 882.9  | 861.6 | 830.8 | 740.7 | 561.7 | 420.7 | 321.2 | 261.9 | 247.7 | 246.5 |
| 17.5° | 926.7  | 924.4  | 892.4 | 833.1 | 628.1 | 398.2 | 256.0 | 205.0 | 189.6 | 186.1 | 187.2 |
| 20°   | 970.6  | 963.5  | 919.6 | 789.3 | 483.5 | 260.7 | 187.2 | 175.4 | 171.8 | 169.5 | 169.5 |
| 22.5° | 1010.9 | 996.7  | 942.2 | 702.8 | 338.9 | 187.2 | 167.1 | 164.7 | 160.0 | 156.4 | 155.2 |
| 25°   | 1051.2 | 1031.0 | 956.4 | 590.2 | 227.5 | 163.5 | 157.6 | 152.9 | 147.0 | 142.2 | 141.0 |
| 27.5° | 1099.8 | 1071.3 | 949.3 | 448.0 | 170.7 | 151.7 | 147.0 | 139.8 | 131.5 | 124.4 | 122.1 |
| 30°   | 1146.0 | 1114.0 | 909.0 | 309.3 | 145.8 | 139.8 | 132.7 | 122.1 | 111.4 | 103.1 | 100.7 |
| 32.5° | 1204.1 | 1167.3 | 836.7 | 202.7 | 126.8 | 122.1 | 115.0 | 101.9 | 87.7  | 78.2  | 75.8  |
| 35°   | 1287.0 | 1245.5 | 744.2 | 142.2 | 111.4 | 103.1 | 93.6  | 79.4  | 64.0  | 56.9  | 55.7  |
| 37.5° | 1403.2 | 1347.5 | 628.1 | 115.0 | 98.4  | 86.5  | 72.3  | 58.1  | 47.4  | 41.5  | 40.3  |
| 40°   | 1545.4 | 1460.0 | 498.9 | 101.9 | 87.7  | 72.3  | 54.5  | 41.5  | 34.4  | 29.6  | 29.6  |
| 42.5° | 1699.4 | 1565.5 | 367.4 | 93.6  | 77.0  | 59.3  | 40.3  | 29.6  | 24.9  | 22.5  | 21.3  |
| 45°   | 1858.2 | 1659.1 | 247.7 | 86.5  | 67.6  | 45.0  | 28.4  | 20.1  | 16.6  | 16.6  | 15.4  |
| 47.5° | 2023.0 | 1721.9 | 160.0 | 78.2  | 56.9  | 33.2  | 19.0  | 14.2  | 11.9  | 11.9  | 11.9  |
| 50°   | 2186.5 | 1755.1 | 113.8 | 71.1  | 46.2  | 22.5  | 14.2  | 10.7  | 9.5   | 9.5   | 9.5   |
| 52.5° | 2305.0 | 1733.8 | 91.3  | 61.6  | 35.6  | 16.6  | 10.7  | 8.3   | 7.1   | 7.1   | 7.1   |
| 55°   | 2408.1 | 1697.1 | 79.4  | 53.3  | 26.1  | 11.9  | 8.3   | 7.1   | 5.9   | 5.9   | 5.9   |
| 57.5° | 2513.6 | 1649.7 | 71.1  | 45.0  | 19.0  | 8.3   | 5.9   | 4.7   | 4.7   | 4.7   | 4.7   |
| 60°   | 2609.6 | 1569.1 | 61.6  | 35.6  | 13.0  | 5.9   | 4.7   | 3.6   | 3.6   | 3.6   | 3.6   |
| 62.5° | 2703.2 | 1500.3 | 53.3  | 27.3  | 9.5   | 4.7   | 2.4   | 2.4   | 1.2   | 1.2   | 1.2   |
| 65°   | 2756.5 | 1407.9 | 42.7  | 17.8  | 5.9   | 3.6   | 1.2   | 1.2   | 0.0   | 0.0   | 0.0   |
| 67.5° | 2739.9 | 1297.7 | 29.6  | 10.7  | 3.6   | 2.4   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 2625.0 | 1149.5 | 17.8  | 5.9   | 3.6   | 2.4   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 2198.4 | 850.9  | 10.7  | 4.7   | 2.4   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 1468.3 | 391.1  | 5.9   | 3.6   | 1.2   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 671.9  | 117.3  | 3.6   | 2.4   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 135.1  | 30.8   | 2.4   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 28.4   | 5.9    | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 5.9    | 2.4    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.4    | 1.2    | 0.0   | 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)