

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209242

Luminaire Tested: UPW-SA2-110-727-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-727-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPT WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9965 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

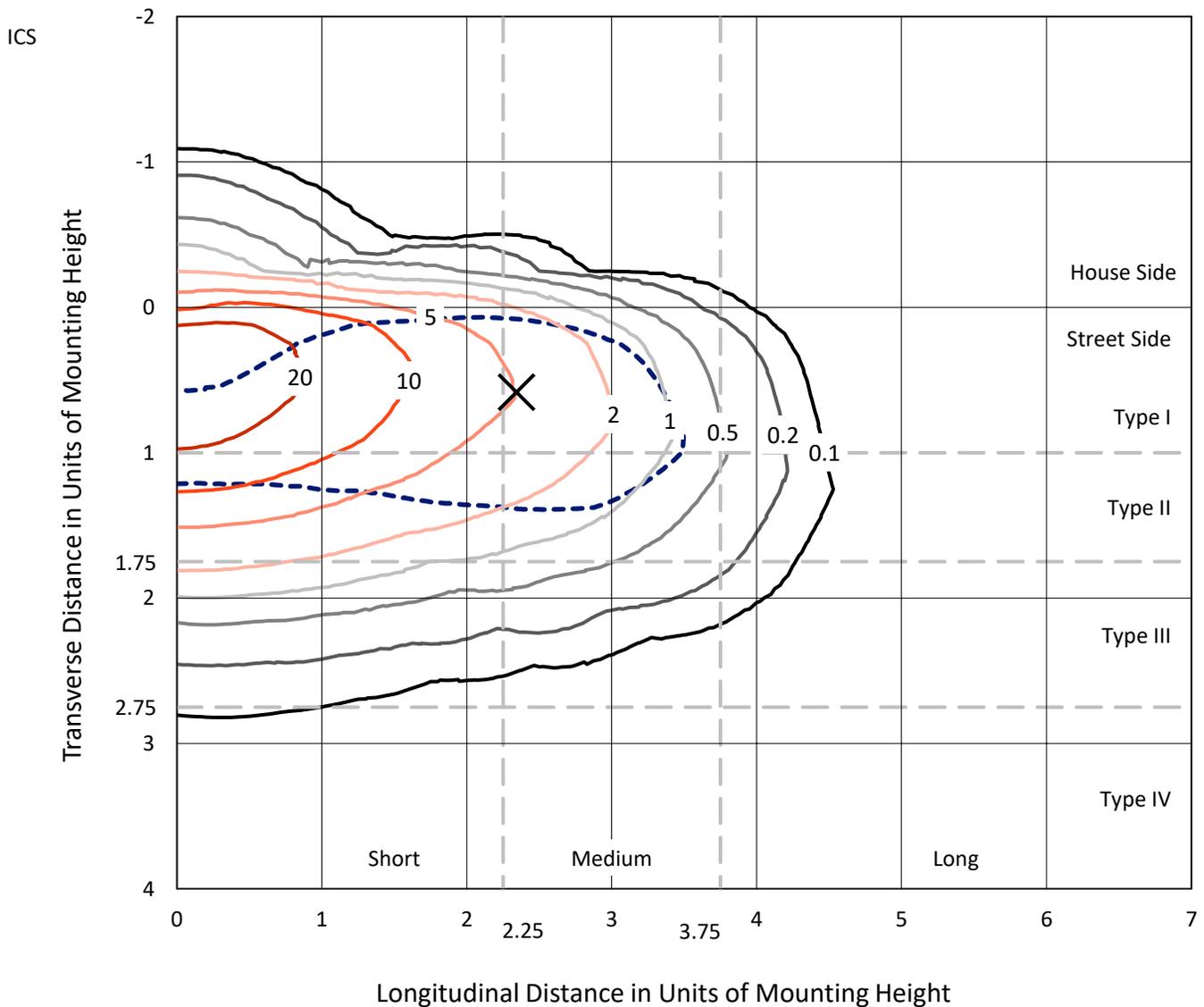
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

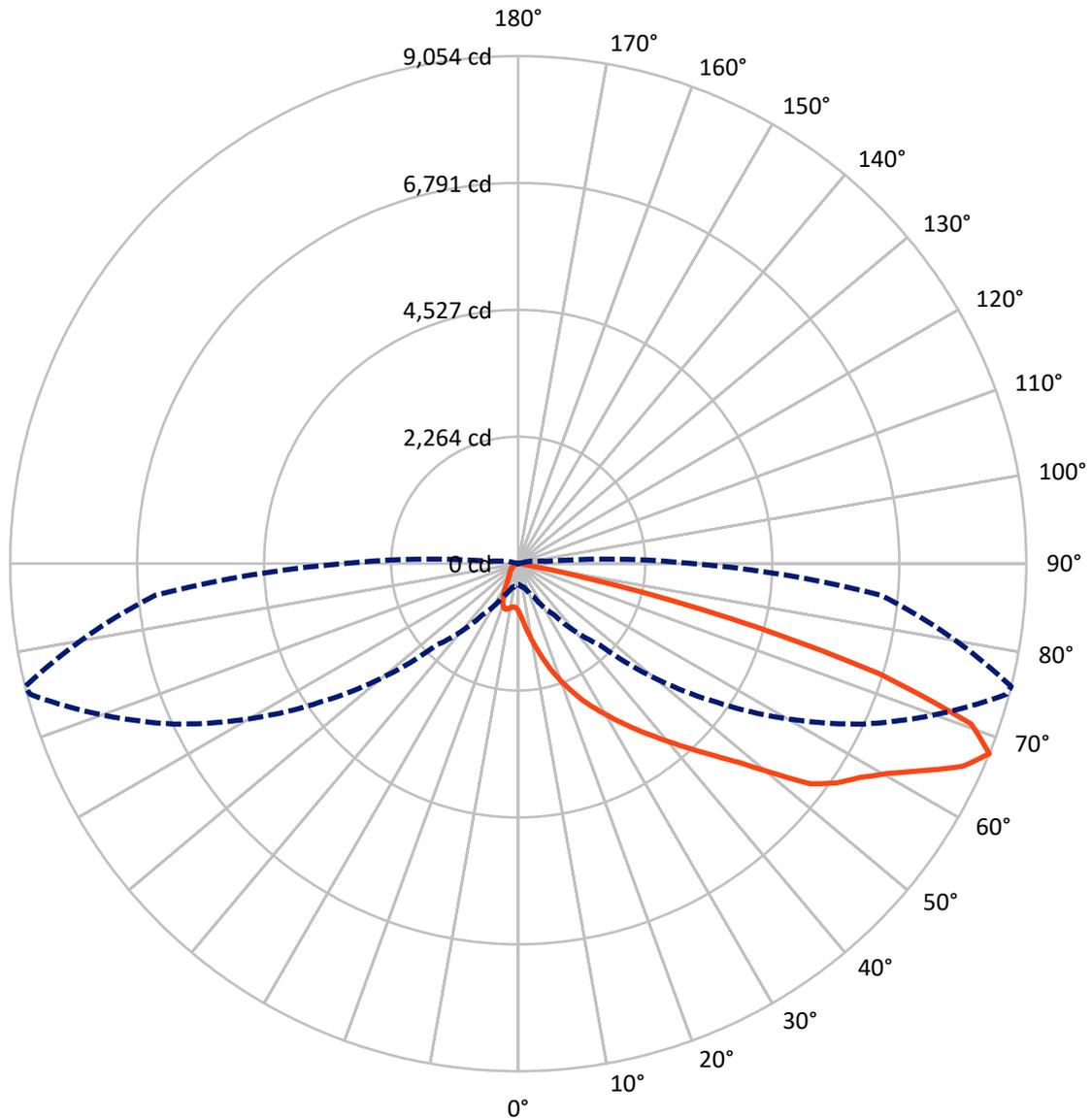
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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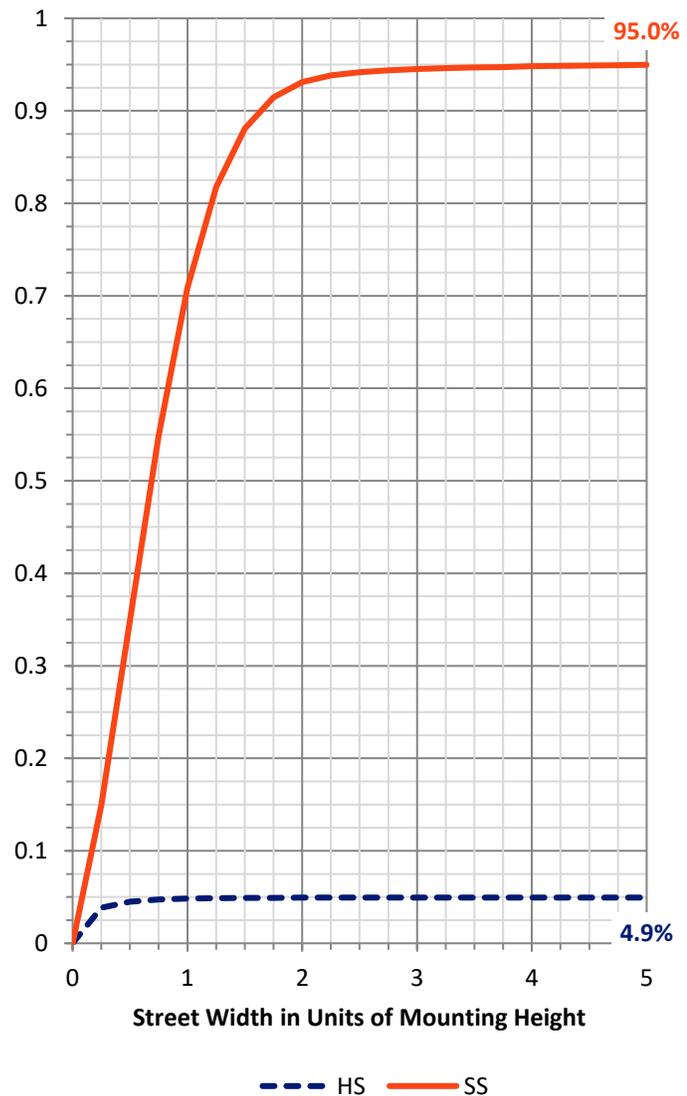
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 494.8 | 0.0 | 494.8 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 9470.2 | 0.0 | 9470.2 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 9965.0 | 0.0 | 9965.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 105.1 | 1.1 |
| 10°-20° | 416.7 | 4.2 |
| 20°-30° | 847.8 | 8.5 |
| 30°-40° | 1471.5 | 14.8 |
| 40°-50° | 2079.1 | 20.9 |
| 50°-60° | 2357.8 | 23.7 |
| 60°-70° | 1955.6 | 19.6 |
| 70°-80° | 708.4 | 7.1 |
| 80°-90° | 23.0 | 0.2 |
| 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° | 9965.0 | 100.0 |
| 0°-180° | 9965.0 | 100.0 |

Coefficient of Utilization



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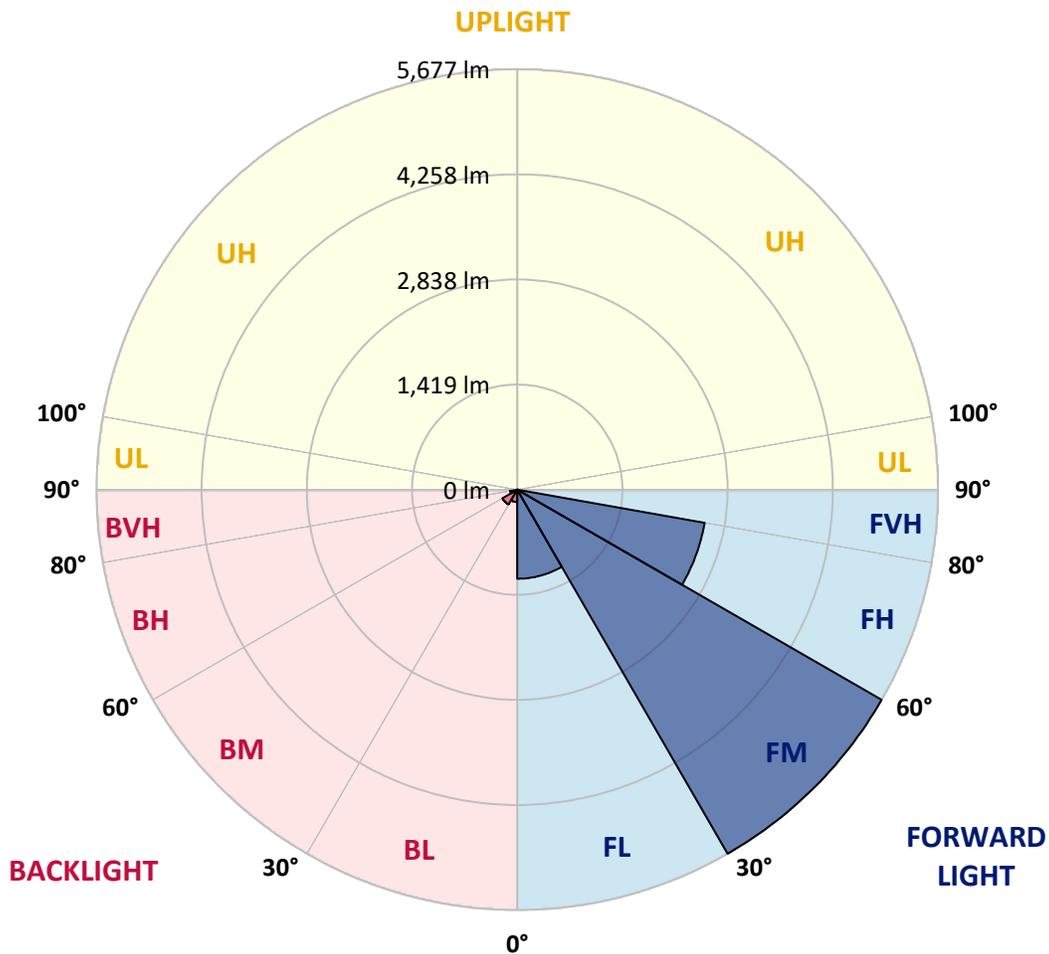
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1202.7 | 12.1 | | | |
| FM | (30°-60°) | 5676.9 | 57.0 | | | |
| FH | (60°-80°) | 2568.3 | 25.8 | | | G2/5000 |
| FVH | (80°-90°) | 22.2 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 166.9 | 1.7 | B1/500 | | |
| BM | (30°-60°) | 231.6 | 2.3 | B1/1000 | | |
| BH | (60°-80°) | 95.6 | 1.0 | B0/110 | | G0/110 |
| 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 II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 |
| 2.5° | 1261.9 | 1233.5 | 1240.0 | 1221.7 | 1188.5 | 1120.4 | 1062.3 | 1007.3 | 943.1 | 940.9 | 888.1 |
| 5° | 1701.6 | 1677.5 | 1674.5 | 1637.4 | 1577.1 | 1461.4 | 1348.8 | 1220.4 | 1077.2 | 1066.7 | 954.5 |
| 7.5° | 2100.6 | 2081.4 | 2074.4 | 2030.3 | 1918.1 | 1805.5 | 1658.8 | 1470.1 | 1246.1 | 1226.9 | 1044.0 |
| 10° | 2407.2 | 2398.0 | 2399.7 | 2368.3 | 2272.2 | 2167.4 | 1974.9 | 1734.3 | 1437.8 | 1408.1 | 1151.4 |
| 12.5° | 2639.4 | 2641.6 | 2657.3 | 2638.1 | 2584.4 | 2506.7 | 2301.1 | 2015.9 | 1650.0 | 1609.4 | 1274.1 |
| 15° | 2810.2 | 2821.1 | 2849.9 | 2873.9 | 2870.0 | 2802.7 | 2614.1 | 2301.9 | 1875.3 | 1830.4 | 1410.8 |
| 17.5° | 2920.6 | 2932.9 | 2974.8 | 3028.0 | 3076.9 | 3061.2 | 2916.3 | 2577.9 | 2103.3 | 2051.3 | 1557.0 |
| 20° | 3017.6 | 3032.0 | 3076.9 | 3147.2 | 3238.5 | 3258.2 | 3163.0 | 2845.5 | 2330.7 | 2267.4 | 1708.1 |
| 22.5° | 3227.6 | 3227.2 | 3254.7 | 3295.7 | 3382.6 | 3433.2 | 3373.0 | 3094.0 | 2555.6 | 2489.7 | 1862.2 |
| 25° | 3607.5 | 3593.0 | 3583.4 | 3551.1 | 3570.3 | 3601.8 | 3568.2 | 3326.3 | 2781.8 | 2715.0 | 2018.6 |
| 27.5° | 4058.9 | 4067.7 | 3989.9 | 3903.1 | 3835.8 | 3803.5 | 3748.5 | 3541.5 | 2999.2 | 2925.9 | 2171.4 |
| 30° | 4535.3 | 4537.9 | 4446.2 | 4335.3 | 4187.3 | 4064.6 | 3969.4 | 3747.2 | 3222.8 | 3142.9 | 2319.8 |
| 32.5° | 4964.9 | 4947.9 | 4857.1 | 4706.0 | 4519.1 | 4381.2 | 4183.4 | 3976.8 | 3459.4 | 3382.2 | 2484.9 |
| 35° | 5305.5 | 5285.4 | 5175.0 | 5037.4 | 4843.6 | 4704.7 | 4466.8 | 4206.1 | 3708.3 | 3632.8 | 2650.4 |
| 37.5° | 5554.4 | 5530.8 | 5417.3 | 5275.8 | 5108.6 | 5027.8 | 4795.5 | 4455.4 | 3979.9 | 3898.7 | 2824.6 |
| 40° | 5640.9 | 5620.3 | 5549.2 | 5445.7 | 5311.2 | 5292.9 | 5144.4 | 4742.3 | 4275.5 | 4189.1 | 3021.9 |
| 42.5° | 5589.3 | 5569.2 | 5543.9 | 5509.0 | 5453.1 | 5470.6 | 5473.6 | 5069.3 | 4603.9 | 4518.7 | 3239.8 |
| 45° | 5385.0 | 5367.1 | 5393.3 | 5444.4 | 5513.8 | 5600.2 | 5774.0 | 5420.8 | 4970.6 | 4879.8 | 3491.8 |
| 47.5° | 5084.1 | 5071.1 | 5143.5 | 5271.0 | 5474.1 | 5712.5 | 6048.7 | 5790.2 | 5382.4 | 5298.1 | 3806.1 |
| 50° | 4656.2 | 4654.1 | 4799.0 | 5031.8 | 5343.9 | 5766.6 | 6332.5 | 6210.2 | 5954.4 | 5865.7 | 4243.2 |
| 52.5° | 3989.9 | 3994.3 | 4279.4 | 4651.9 | 5115.6 | 5729.9 | 6515.0 | 6749.9 | 6619.8 | 6527.7 | 4621.8 |
| 55° | 3355.5 | 3381.7 | 3583.9 | 4120.9 | 4765.4 | 5593.7 | 6577.9 | 7001.8 | 6987.0 | 6899.7 | 4832.2 |
| 57.5° | 2734.2 | 2781.8 | 2976.5 | 3478.2 | 4254.1 | 5279.8 | 6543.4 | 7111.0 | 7260.3 | 7193.5 | 5109.9 |
| 60° | 2060.9 | 2082.7 | 2307.2 | 2776.1 | 3597.9 | 4706.9 | 6293.2 | 7170.4 | 7634.1 | 7587.8 | 5512.9 |
| 62.5° | 1311.2 | 1365.8 | 1564.9 | 2017.2 | 2801.4 | 3911.4 | 5871.4 | 7169.5 | 8101.7 | 8127.0 | 6033.0 |
| 65° | 690.8 | 754.5 | 860.2 | 1250.1 | 1925.1 | 3022.8 | 5237.0 | 7102.3 | 8675.5 | 8710.8 | 6439.5 |
| 67.5° | 372.4 | 390.8 | 446.7 | 648.8 | 1116.5 | 2047.8 | 4304.8 | 6770.4 | 9007.7 | 9054.4 | 6496.2 |
| 70° | 272.5 | 282.5 | 303.5 | 358.9 | 561.9 | 1189.4 | 3141.1 | 6018.1 | 8579.4 | 8561.9 | 5771.8 |
| 72.5° | 209.1 | 224.9 | 240.6 | 262.9 | 323.1 | 634.9 | 1955.7 | 4712.6 | 6845.5 | 6730.3 | 4314.4 |
| 75° | 165.0 | 167.7 | 189.9 | 210.0 | 242.3 | 361.5 | 868.5 | 2744.7 | 4178.1 | 3905.2 | 2237.3 |
| 77.5° | 131.9 | 133.6 | 146.7 | 164.2 | 194.7 | 237.5 | 269.0 | 1079.8 | 1333.9 | 1190.3 | 485.5 |
| 80° | 78.2 | 82.5 | 109.2 | 126.6 | 161.6 | 149.8 | 98.2 | 234.5 | 208.3 | 188.6 | 81.7 |
| 82.5° | 43.7 | 47.2 | 61.6 | 100.0 | 112.7 | 71.6 | 48.9 | 63.3 | 48.9 | 47.6 | 23.1 |
| 85° | 0.0 | 2.2 | 39.7 | 62.0 | 45.8 | 15.7 | 20.5 | 21.0 | 14.4 | 13.5 | 9.2 |
| 87.5° | 0.0 | 0.0 | 12.2 | 11.8 | 1.7 | 2.6 | 4.8 | 7.0 | 5.7 | 5.7 | 4.8 |
| 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° | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 |
| 2.5° | 861.9 | 838.3 | 793.8 | 750.1 | 713.5 | 683.3 | 656.3 | 645.3 | 636.6 | 635.3 | 628.3 |
| 5° | 900.3 | 852.7 | 767.6 | 697.7 | 651.0 | 617.8 | 589.5 | 572.0 | 558.5 | 553.2 | 548.4 |
| 7.5° | 958.4 | 886.4 | 764.1 | 683.8 | 627.9 | 572.0 | 519.6 | 462.8 | 427.5 | 413.9 | 406.1 |
| 10° | 1029.1 | 930.9 | 777.2 | 679.8 | 582.0 | 464.1 | 377.3 | 305.2 | 276.0 | 266.3 | 263.7 |
| 12.5° | 1111.7 | 986.4 | 799.9 | 655.4 | 484.2 | 329.7 | 260.2 | 235.8 | 229.2 | 226.2 | 226.2 |
| 15° | 1206.4 | 1047.0 | 816.1 | 584.7 | 358.0 | 249.3 | 225.3 | 213.9 | 207.0 | 203.0 | 203.5 |
| 17.5° | 1303.3 | 1106.4 | 808.2 | 482.0 | 264.2 | 221.8 | 203.9 | 191.7 | 182.1 | 178.1 | 177.3 |
| 20° | 1401.2 | 1161.4 | 764.5 | 358.9 | 223.6 | 201.3 | 181.2 | 167.7 | 158.1 | 154.1 | 153.3 |
| 22.5° | 1502.5 | 1208.2 | 687.7 | 263.3 | 200.9 | 178.6 | 158.9 | 145.4 | 136.2 | 132.7 | 131.0 |
| 25° | 1601.1 | 1246.1 | 580.3 | 213.1 | 179.5 | 157.2 | 138.4 | 125.8 | 117.5 | 114.0 | 113.5 |
| 27.5° | 1693.3 | 1270.2 | 455.8 | 188.2 | 160.7 | 138.0 | 120.9 | 109.6 | 102.6 | 100.0 | 99.6 |
| 30° | 1776.2 | 1272.3 | 337.1 | 169.9 | 144.1 | 121.4 | 105.7 | 95.6 | 89.5 | 86.9 | 86.0 |
| 32.5° | 1860.1 | 1254.0 | 245.4 | 153.3 | 128.8 | 107.0 | 91.7 | 83.8 | 79.5 | 77.3 | 77.3 |
| 35° | 1939.1 | 1211.7 | 191.2 | 138.8 | 114.0 | 93.0 | 80.8 | 75.1 | 72.5 | 70.3 | 70.3 |
| 37.5° | 2016.4 | 1151.0 | 162.4 | 126.2 | 100.0 | 81.2 | 71.2 | 67.7 | 65.5 | 63.3 | 63.3 |
| 40° | 2095.0 | 1074.6 | 147.6 | 114.4 | 88.6 | 72.0 | 63.3 | 60.3 | 58.1 | 56.3 | 55.9 |
| 42.5° | 2191.5 | 986.4 | 138.0 | 103.5 | 78.6 | 63.7 | 55.9 | 52.4 | 50.6 | 48.9 | 48.0 |
| 45° | 2303.2 | 910.4 | 130.1 | 92.6 | 70.3 | 56.8 | 48.5 | 45.0 | 42.4 | 40.2 | 39.7 |
| 47.5° | 2464.4 | 855.4 | 119.6 | 80.8 | 62.4 | 49.3 | 41.9 | 38.0 | 34.1 | 31.9 | 31.4 |
| 50° | 2670.0 | 810.0 | 106.1 | 70.3 | 54.6 | 41.9 | 34.9 | 30.1 | 26.6 | 24.5 | 24.5 |
| 52.5° | 2772.2 | 750.6 | 93.9 | 61.1 | 45.8 | 35.4 | 28.4 | 22.7 | 21.0 | 18.8 | 18.8 |
| 55° | 2813.2 | 705.2 | 81.7 | 52.0 | 38.0 | 29.3 | 22.3 | 17.5 | 16.2 | 14.8 | 14.4 |
| 57.5° | 2928.5 | 692.1 | 71.2 | 44.1 | 31.4 | 23.1 | 17.0 | 13.1 | 12.2 | 10.5 | 10.5 |
| 60° | 3114.1 | 698.6 | 61.6 | 37.6 | 25.3 | 17.9 | 12.7 | 10.0 | 9.2 | 7.4 | 7.4 |
| 62.5° | 3314.5 | 690.3 | 52.0 | 32.3 | 19.6 | 13.1 | 8.7 | 7.4 | 7.4 | 4.4 | 3.9 |
| 65° | 3352.9 | 614.8 | 44.5 | 26.6 | 15.3 | 9.6 | 5.7 | 4.8 | 6.5 | 0.9 | 0.0 |
| 67.5° | 3111.9 | 476.8 | 38.4 | 20.5 | 11.4 | 7.4 | 4.4 | 2.2 | 5.7 | 0.0 | 0.0 |
| 70° | 2488.4 | 303.0 | 31.0 | 14.8 | 8.7 | 6.1 | 3.5 | 0.9 | 4.4 | 0.0 | 0.0 |
| 72.5° | 1759.6 | 176.0 | 24.5 | 10.5 | 7.4 | 4.8 | 2.6 | 0.0 | 2.6 | 0.0 | 0.0 |
| 75° | 889.9 | 93.9 | 15.3 | 7.9 | 5.7 | 3.5 | 1.7 | 0.0 | 0.4 | 0.0 | 0.0 |
| 77.5° | 192.6 | 43.7 | 9.6 | 5.7 | 3.9 | 2.2 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 41.9 | 19.2 | 6.1 | 3.5 | 2.2 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 15.3 | 10.0 | 3.1 | 1.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 8.3 | 5.2 | 1.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.4 | 1.7 | 0.4 | 0.4 | 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)