

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: P1208122

Luminaire Tested: UPW-SA1-040-750-U-SL2-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-2)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA1-040-750-U-SL2-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4283 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

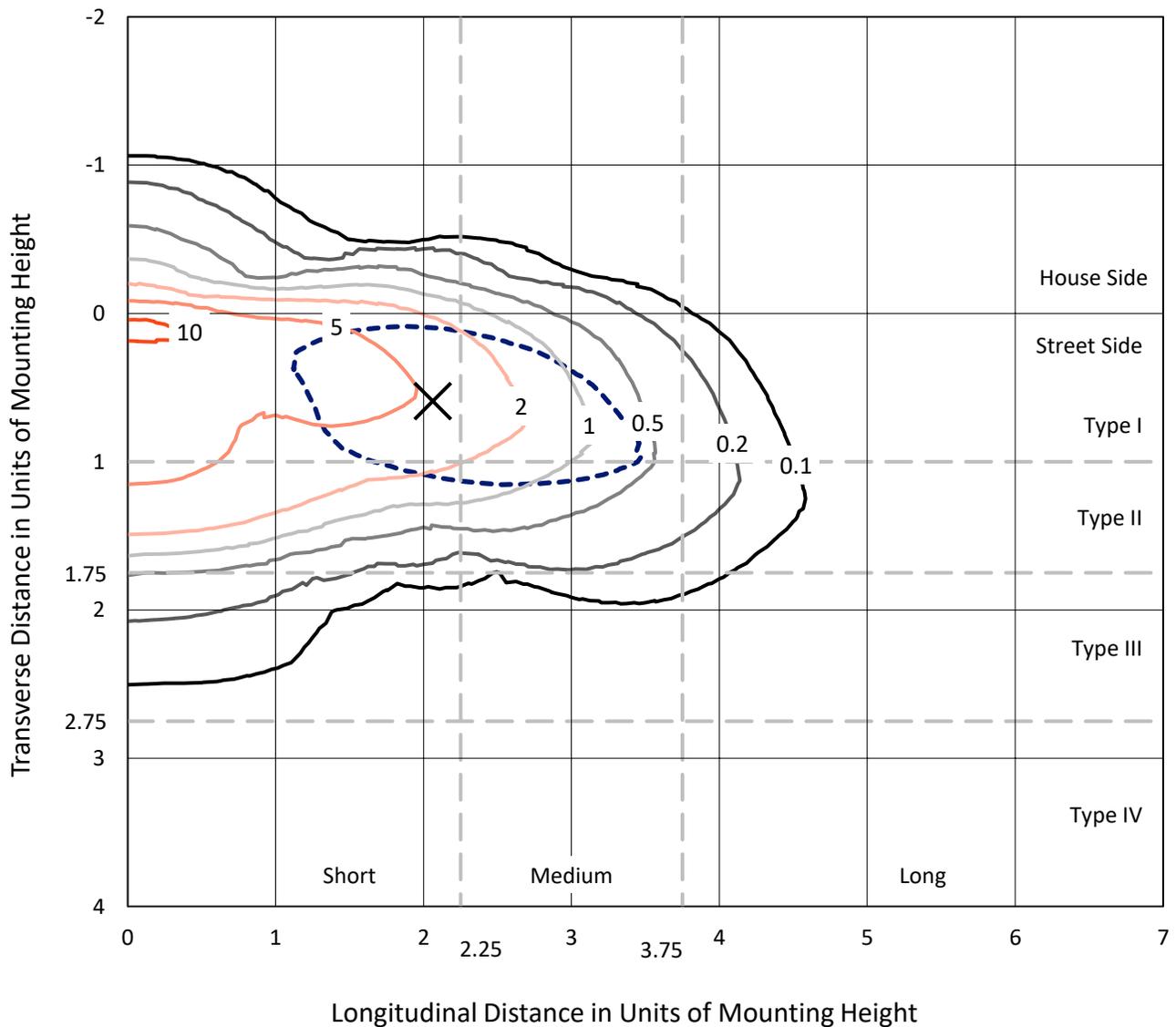
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1208122
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Iso-Footcandle Lines of Horizontal Illumination

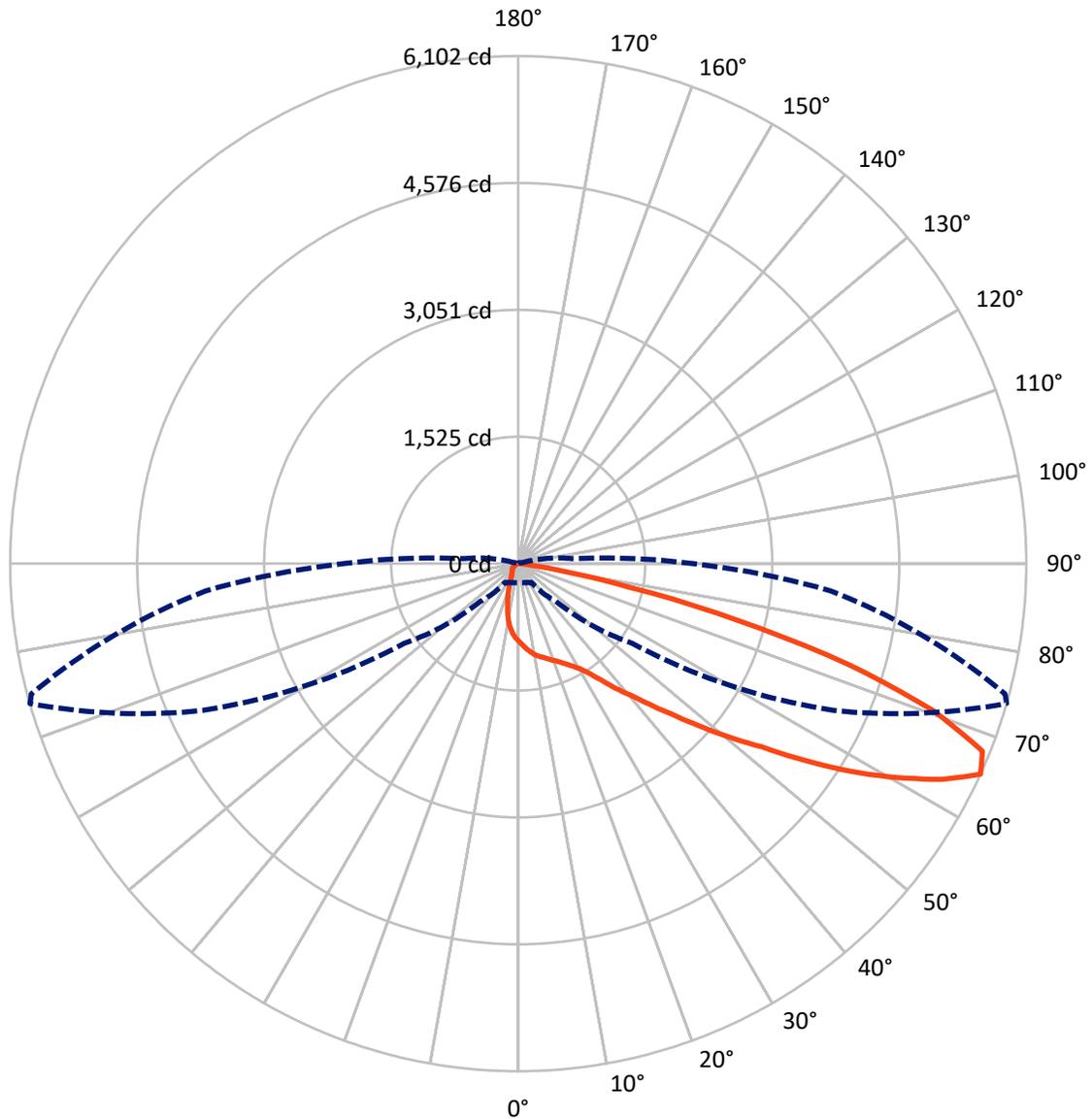
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

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CATALOG NUMBER: UPW-SA1-040-750-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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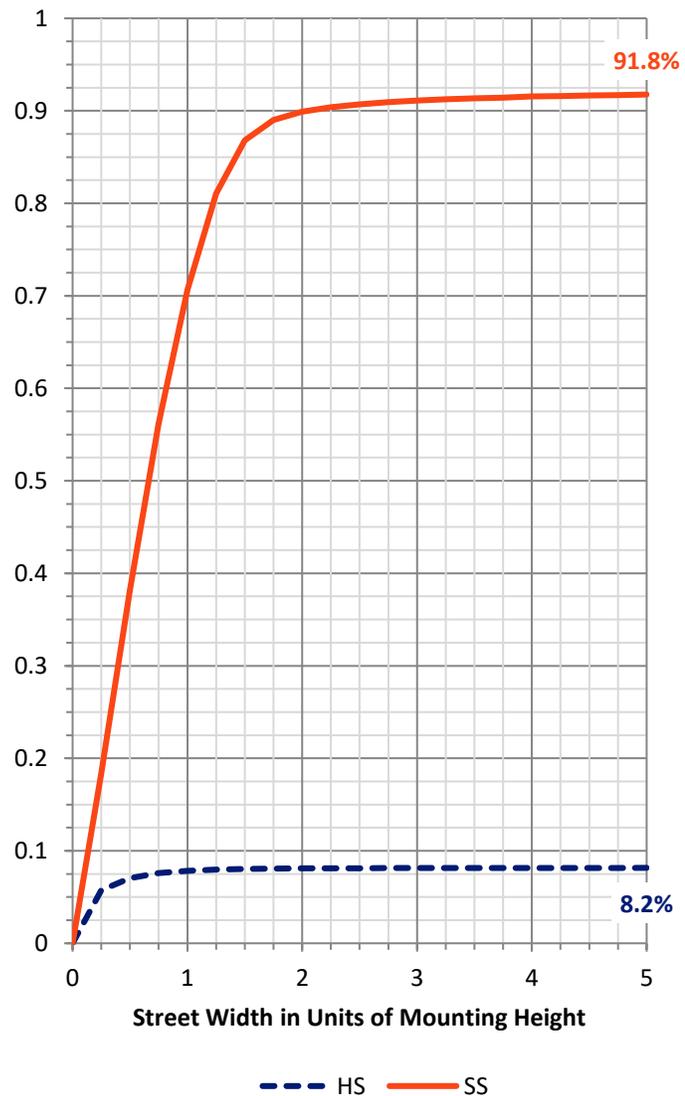
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 352.1 | 0.0 | 352.1 |
| | % Fixture | 8.2 | 0.0 | 8.2 |
| Street Side | Lumens | 3930.9 | 0.0 | 3930.9 |
| | % Fixture | 91.8 | 0.0 | 91.8 |
| Total | Lumens | 4283.0 | 0.0 | 4283.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.7 | 1.9 |
| 10°-20° | 195.2 | 4.6 |
| 20°-30° | 304.3 | 7.1 |
| 30°-40° | 480.4 | 11.2 |
| 40°-50° | 747.2 | 17.4 |
| 50°-60° | 1080.1 | 25.2 |
| 60°-70° | 976.3 | 22.8 |
| 70°-80° | 392.4 | 9.2 |
| 80°-90° | 27.6 | 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° | 4283.0 | 100.0 |
| 0°-180° | 4283.0 | 100.0 |



REPORT NUMBER: P1208122

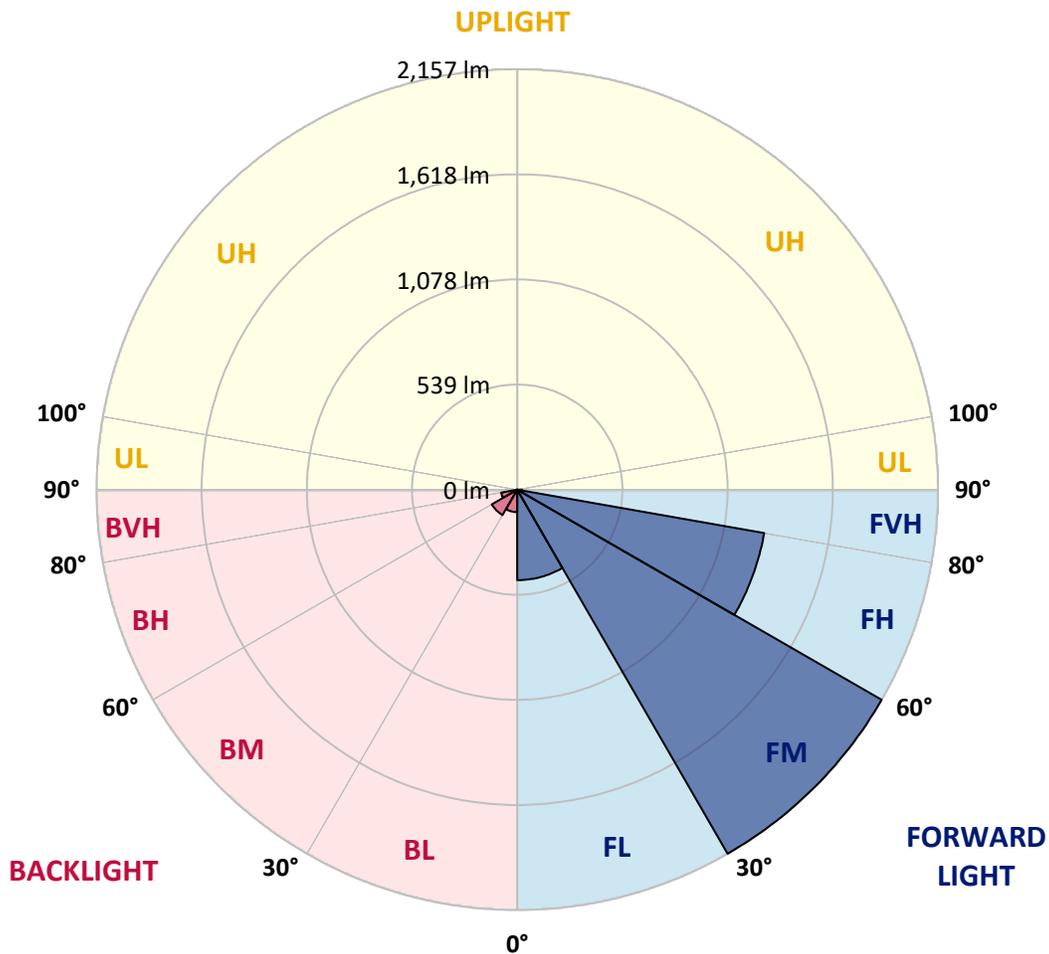
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 464.0 | 10.8 | | | |
| FM | (30°-60°) | 2157.0 | 50.4 | | | |
| FH | (60°-80°) | 1285.5 | 30.0 | | | G1/1800 |
| FVH | (80°-90°) | 24.5 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 115.2 | 2.7 | B1/500 | | |
| BM | (30°-60°) | 150.6 | 3.5 | B0/220 | | |
| BH | (60°-80°) | 83.2 | 1.9 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 3.1 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P1208122

CATALOG NUMBER: UPW-SA1-040-750-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 |
| 2.5° | 1053.0 | 1049.1 | 1051.0 | 1042.5 | 1041.2 | 1032.7 | 1013.7 | 994.7 | 977.0 | 972.5 | 950.8 |
| 5° | 1129.6 | 1127.7 | 1125.7 | 1124.4 | 1118.5 | 1111.9 | 1085.1 | 1059.6 | 1026.8 | 1020.9 | 975.7 |
| 7.5° | 1149.9 | 1148.0 | 1151.9 | 1158.4 | 1162.4 | 1159.1 | 1139.4 | 1114.6 | 1073.3 | 1066.8 | 1001.3 |
| 10° | 1104.7 | 1102.8 | 1120.5 | 1146.0 | 1169.6 | 1186.6 | 1179.4 | 1157.1 | 1113.9 | 1107.4 | 1018.9 |
| 12.5° | 1005.2 | 1002.6 | 1031.4 | 1083.8 | 1139.4 | 1187.9 | 1202.3 | 1187.2 | 1146.6 | 1139.4 | 1033.4 |
| 15° | 914.2 | 910.2 | 939.1 | 992.1 | 1062.2 | 1155.8 | 1210.8 | 1215.4 | 1173.5 | 1168.9 | 1049.1 |
| 17.5° | 865.7 | 866.4 | 884.1 | 927.9 | 995.4 | 1097.5 | 1201.7 | 1241.6 | 1209.5 | 1203.6 | 1066.1 |
| 20° | 885.4 | 886.7 | 888.6 | 905.7 | 946.3 | 1046.5 | 1181.4 | 1269.8 | 1244.9 | 1238.3 | 1087.7 |
| 22.5° | 942.3 | 945.6 | 940.4 | 931.2 | 936.4 | 1009.1 | 1160.4 | 1300.5 | 1285.5 | 1278.9 | 1102.8 |
| 25° | 1048.4 | 1044.5 | 1028.1 | 991.4 | 965.3 | 998.0 | 1153.2 | 1335.9 | 1336.6 | 1328.7 | 1121.1 |
| 27.5° | 1174.8 | 1164.3 | 1144.7 | 1086.4 | 1022.2 | 1016.3 | 1151.2 | 1373.9 | 1396.1 | 1385.0 | 1142.1 |
| 30° | 1282.2 | 1277.0 | 1252.7 | 1199.0 | 1102.8 | 1058.9 | 1156.5 | 1410.6 | 1466.9 | 1461.0 | 1169.6 |
| 32.5° | 1351.6 | 1350.3 | 1332.6 | 1296.6 | 1212.1 | 1127.7 | 1179.4 | 1460.3 | 1573.6 | 1554.0 | 1222.0 |
| 35° | 1409.9 | 1404.0 | 1390.3 | 1366.7 | 1315.6 | 1221.3 | 1227.8 | 1540.2 | 1717.7 | 1711.8 | 1305.8 |
| 37.5° | 1476.0 | 1468.8 | 1452.5 | 1423.0 | 1387.6 | 1332.0 | 1305.1 | 1643.7 | 1901.0 | 1898.4 | 1416.4 |
| 40° | 1552.7 | 1548.1 | 1531.7 | 1492.4 | 1448.5 | 1415.1 | 1385.7 | 1750.4 | 2078.5 | 2060.2 | 1518.6 |
| 42.5° | 1628.0 | 1629.3 | 1616.8 | 1576.2 | 1516.6 | 1471.5 | 1481.3 | 1859.1 | 2309.7 | 2300.5 | 1677.7 |
| 45° | 1713.7 | 1709.2 | 1702.6 | 1673.1 | 1609.0 | 1516.0 | 1573.0 | 2009.7 | 2578.2 | 2601.1 | 1908.9 |
| 47.5° | 1774.0 | 1772.7 | 1785.8 | 1763.5 | 1710.5 | 1587.4 | 1667.3 | 2196.4 | 2908.2 | 2929.8 | 2163.0 |
| 50° | 1789.7 | 1787.7 | 1831.6 | 1850.0 | 1848.0 | 1725.5 | 1796.9 | 2432.8 | 3271.0 | 3267.7 | 2447.2 |
| 52.5° | 1688.9 | 1693.4 | 1778.6 | 1876.2 | 1967.2 | 1938.4 | 2030.7 | 2758.2 | 3658.7 | 3669.8 | 2714.4 |
| 55° | 1399.4 | 1428.2 | 1522.5 | 1748.5 | 1988.1 | 2155.1 | 2331.9 | 3206.2 | 4170.1 | 4140.6 | 2924.6 |
| 57.5° | 877.5 | 862.4 | 1021.6 | 1349.0 | 1730.1 | 2171.5 | 2575.5 | 3656.0 | 4716.2 | 4678.9 | 3233.7 |
| 60° | 447.3 | 427.6 | 520.6 | 752.4 | 1201.0 | 1825.1 | 2580.8 | 4048.3 | 5219.8 | 5177.9 | 3546.0 |
| 62.5° | 273.7 | 270.5 | 289.4 | 367.4 | 622.1 | 1231.1 | 2236.3 | 4285.4 | 5712.3 | 5678.9 | 3757.5 |
| 65° | 230.5 | 229.9 | 237.1 | 249.5 | 275.7 | 639.1 | 1668.6 | 4169.4 | 6101.9 | 6053.5 | 3770.0 |
| 67.5° | 204.3 | 204.3 | 219.4 | 225.3 | 183.4 | 275.0 | 1023.5 | 3687.5 | 6010.9 | 6001.7 | 3507.4 |
| 70° | 176.2 | 173.5 | 194.5 | 212.2 | 152.6 | 141.4 | 527.2 | 2962.6 | 5280.7 | 5310.9 | 2987.4 |
| 72.5° | 132.9 | 135.6 | 157.2 | 180.7 | 125.1 | 99.5 | 241.0 | 2073.3 | 4158.3 | 4172.7 | 2347.6 |
| 75° | 100.2 | 102.8 | 121.8 | 148.0 | 100.8 | 75.3 | 132.9 | 1347.0 | 2723.5 | 2756.3 | 1371.3 |
| 77.5° | 76.6 | 77.3 | 96.3 | 122.5 | 77.9 | 57.6 | 89.7 | 748.5 | 1380.4 | 1351.0 | 533.0 |
| 80° | 53.0 | 55.0 | 75.3 | 95.0 | 62.2 | 43.2 | 60.2 | 324.2 | 498.3 | 459.7 | 165.7 |
| 82.5° | 19.6 | 25.5 | 53.0 | 68.8 | 43.9 | 30.8 | 44.5 | 130.3 | 146.0 | 136.9 | 60.9 |
| 85° | 3.3 | 3.3 | 28.8 | 50.4 | 23.6 | 18.3 | 28.2 | 45.2 | 47.8 | 50.4 | 31.4 |
| 87.5° | 0.0 | 0.0 | 3.3 | 11.1 | 3.9 | 2.6 | 7.9 | 11.1 | 22.9 | 25.5 | 17.0 |
| 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° | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 |
| 2.5° | 936.4 | 922.7 | 895.2 | 871.6 | 834.9 | 802.8 | 782.5 | 766.8 | 755.0 | 741.3 | 727.5 |
| 5° | 946.9 | 914.8 | 847.4 | 771.4 | 693.5 | 623.4 | 565.8 | 513.4 | 479.4 | 475.4 | 459.1 |
| 7.5° | 956.1 | 905.0 | 791.1 | 656.2 | 537.0 | 435.5 | 364.1 | 320.2 | 282.2 | 270.5 | 275.7 |
| 10° | 956.1 | 888.0 | 716.4 | 531.1 | 387.7 | 284.2 | 231.8 | 203.0 | 192.5 | 187.9 | 184.0 |
| 12.5° | 953.5 | 860.5 | 622.8 | 413.9 | 269.8 | 206.9 | 183.4 | 172.9 | 167.0 | 164.4 | 163.1 |
| 15° | 949.5 | 827.1 | 530.4 | 309.1 | 206.3 | 177.5 | 165.7 | 157.8 | 152.6 | 150.0 | 148.0 |
| 17.5° | 946.9 | 792.4 | 446.6 | 234.4 | 178.1 | 161.7 | 151.9 | 144.1 | 139.5 | 135.6 | 134.9 |
| 20° | 939.1 | 751.8 | 365.4 | 192.5 | 161.7 | 148.0 | 137.5 | 130.3 | 125.7 | 121.1 | 121.1 |
| 22.5° | 926.6 | 694.1 | 288.8 | 167.6 | 148.0 | 134.2 | 123.1 | 115.9 | 111.3 | 108.7 | 107.4 |
| 25° | 910.9 | 637.2 | 229.2 | 153.2 | 134.9 | 119.8 | 110.0 | 102.8 | 98.9 | 97.6 | 96.3 |
| 27.5° | 893.2 | 580.2 | 188.6 | 141.4 | 122.5 | 108.1 | 96.9 | 91.7 | 89.1 | 87.8 | 86.4 |
| 30° | 878.8 | 528.5 | 163.7 | 131.6 | 110.7 | 96.3 | 86.4 | 81.9 | 79.9 | 79.2 | 77.9 |
| 32.5° | 880.1 | 484.6 | 146.7 | 120.5 | 101.5 | 87.1 | 77.3 | 72.7 | 72.7 | 72.0 | 72.0 |
| 35° | 904.4 | 457.1 | 134.9 | 110.7 | 91.7 | 77.9 | 69.4 | 65.5 | 66.8 | 66.8 | 66.1 |
| 37.5° | 930.5 | 429.6 | 123.8 | 100.2 | 83.2 | 69.4 | 60.9 | 58.9 | 59.6 | 60.2 | 60.2 |
| 40° | 964.6 | 409.3 | 114.6 | 90.4 | 74.7 | 62.2 | 55.0 | 53.0 | 53.0 | 53.0 | 52.4 |
| 42.5° | 1041.9 | 407.3 | 106.7 | 81.9 | 66.8 | 55.0 | 49.8 | 47.1 | 45.8 | 45.2 | 43.9 |
| 45° | 1150.6 | 421.7 | 101.5 | 74.0 | 58.9 | 49.8 | 45.2 | 41.9 | 38.0 | 36.0 | 35.4 |
| 47.5° | 1290.7 | 459.1 | 96.9 | 66.8 | 51.7 | 45.2 | 40.6 | 36.0 | 30.8 | 28.2 | 27.5 |
| 50° | 1465.6 | 517.3 | 92.3 | 60.9 | 46.5 | 40.6 | 35.4 | 29.5 | 24.2 | 21.6 | 21.6 |
| 52.5° | 1629.3 | 586.1 | 87.8 | 55.7 | 41.3 | 37.3 | 30.1 | 23.6 | 19.0 | 17.0 | 16.4 |
| 55° | 1776.6 | 663.4 | 82.5 | 49.8 | 37.3 | 32.7 | 24.9 | 18.3 | 13.8 | 11.8 | 11.1 |
| 57.5° | 1954.1 | 760.9 | 76.0 | 43.9 | 33.4 | 28.2 | 19.6 | 13.1 | 9.2 | 6.5 | 5.9 |
| 60° | 2147.9 | 810.1 | 67.4 | 38.6 | 28.8 | 23.6 | 15.1 | 9.2 | 5.2 | 2.6 | 2.6 |
| 62.5° | 2210.8 | 785.8 | 57.0 | 33.4 | 24.9 | 19.0 | 11.1 | 5.9 | 2.0 | 0.0 | 0.0 |
| 65° | 2096.2 | 673.2 | 48.5 | 29.5 | 21.6 | 14.4 | 7.9 | 3.3 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1832.3 | 523.9 | 39.9 | 25.5 | 18.3 | 11.8 | 5.2 | 0.7 | 0.0 | 0.0 | 0.0 |
| 70° | 1512.7 | 388.3 | 33.4 | 21.0 | 15.7 | 9.2 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1167.6 | 275.7 | 28.8 | 17.7 | 13.1 | 7.2 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 659.4 | 148.0 | 26.2 | 17.7 | 11.8 | 5.9 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 272.4 | 68.1 | 22.9 | 17.7 | 11.8 | 6.5 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 85.1 | 34.7 | 19.6 | 18.3 | 12.4 | 7.2 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 39.9 | 26.8 | 20.3 | 17.0 | 11.1 | 6.5 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 21.0 | 13.8 | 14.4 | 14.4 | 9.8 | 5.9 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.9 | 0.7 | 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)