

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: P1209269

Luminaire Tested: UPW-SA2-110-730-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-730-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 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: 10851 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

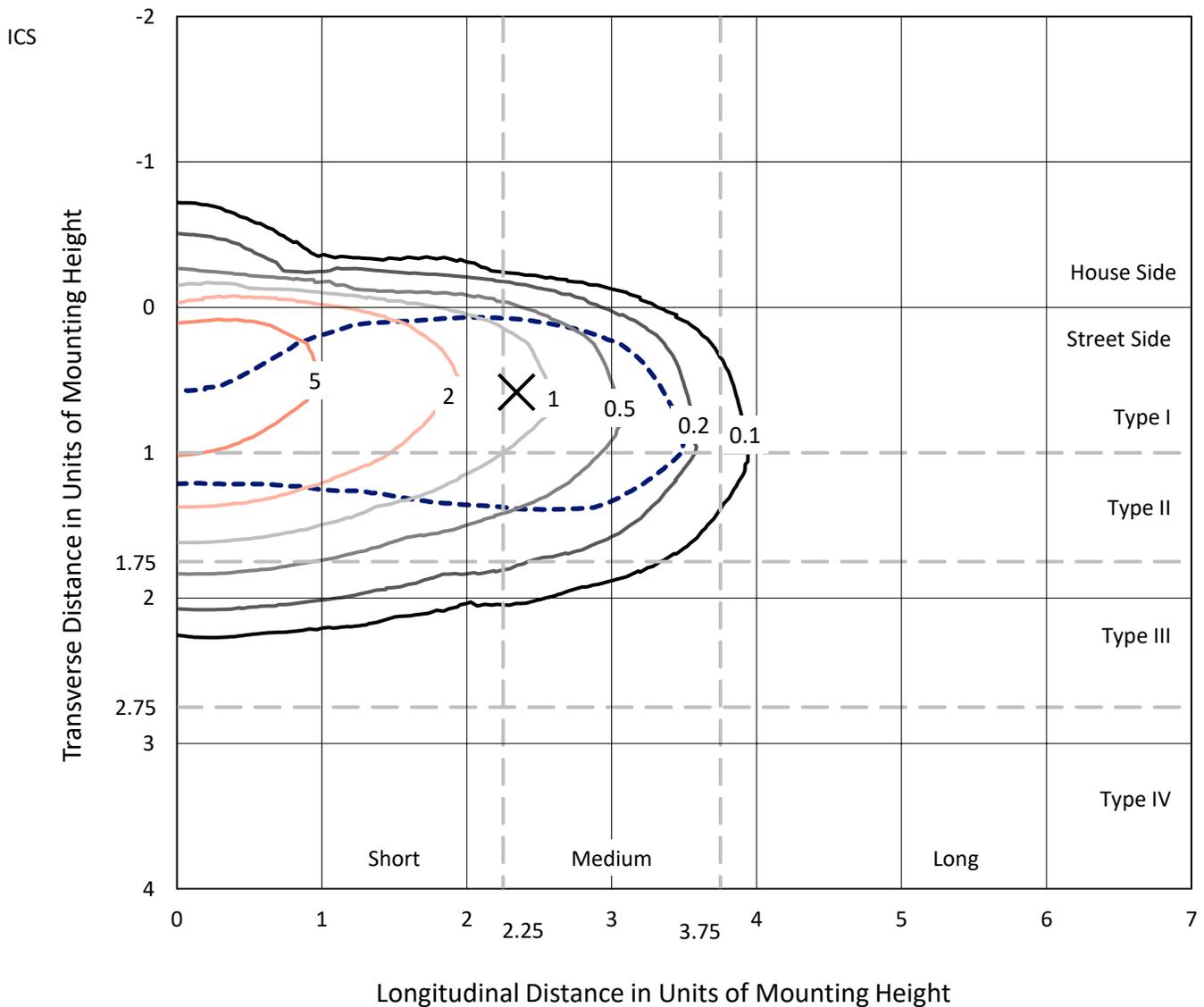
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

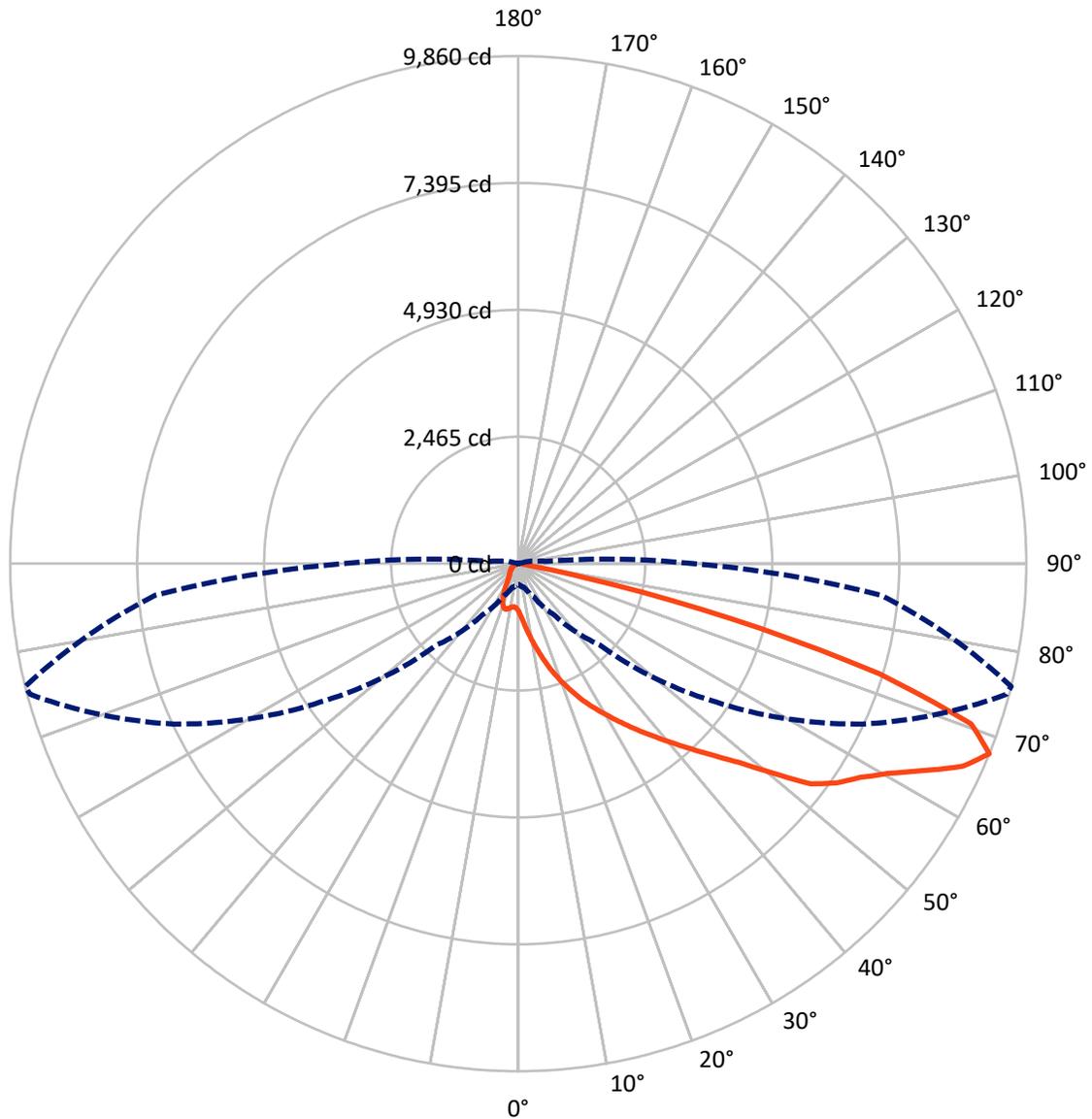
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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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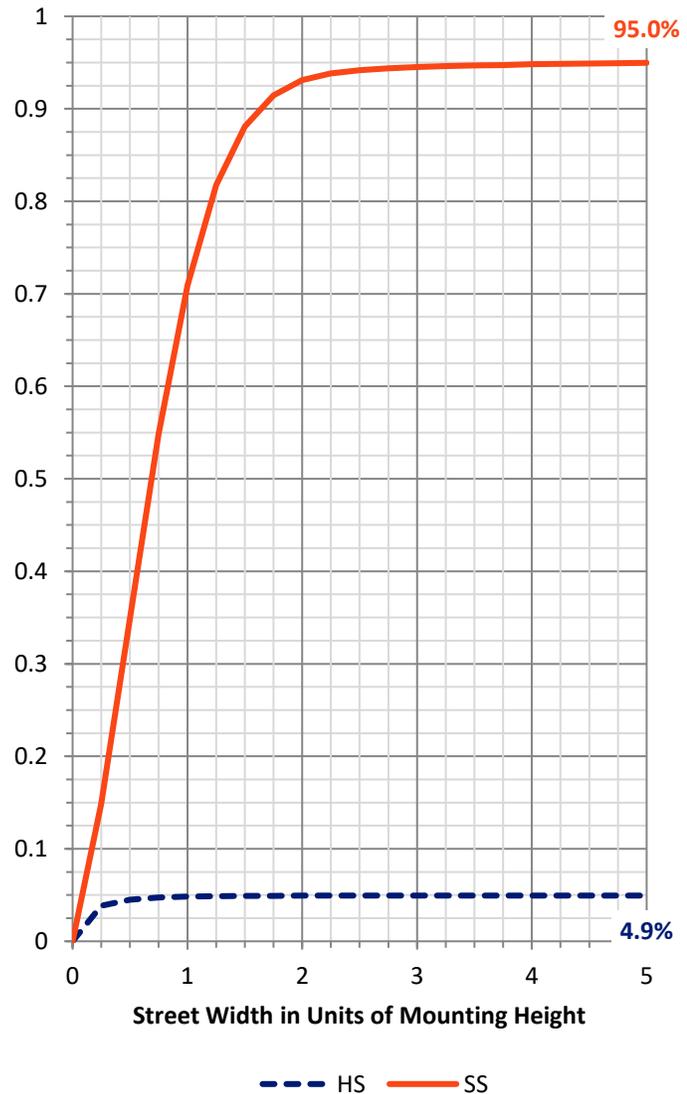
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 538.8 | 0.0 | 538.8 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 10312.2 | 0.0 | 10312.2 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 10851.0 | 0.0 | 10851.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 114.5 | 1.1 |
| 10°-20° | 453.7 | 4.2 |
| 20°-30° | 923.2 | 8.5 |
| 30°-40° | 1602.4 | 14.8 |
| 40°-50° | 2264.0 | 20.9 |
| 50°-60° | 2567.4 | 23.7 |
| 60°-70° | 2129.5 | 19.6 |
| 70°-80° | 771.4 | 7.1 |
| 80°-90° | 25.0 | 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° | 10851.0 | 100.0 |
| 0°-180° | 10851.0 | 100.0 |

Coefficient of Utilization



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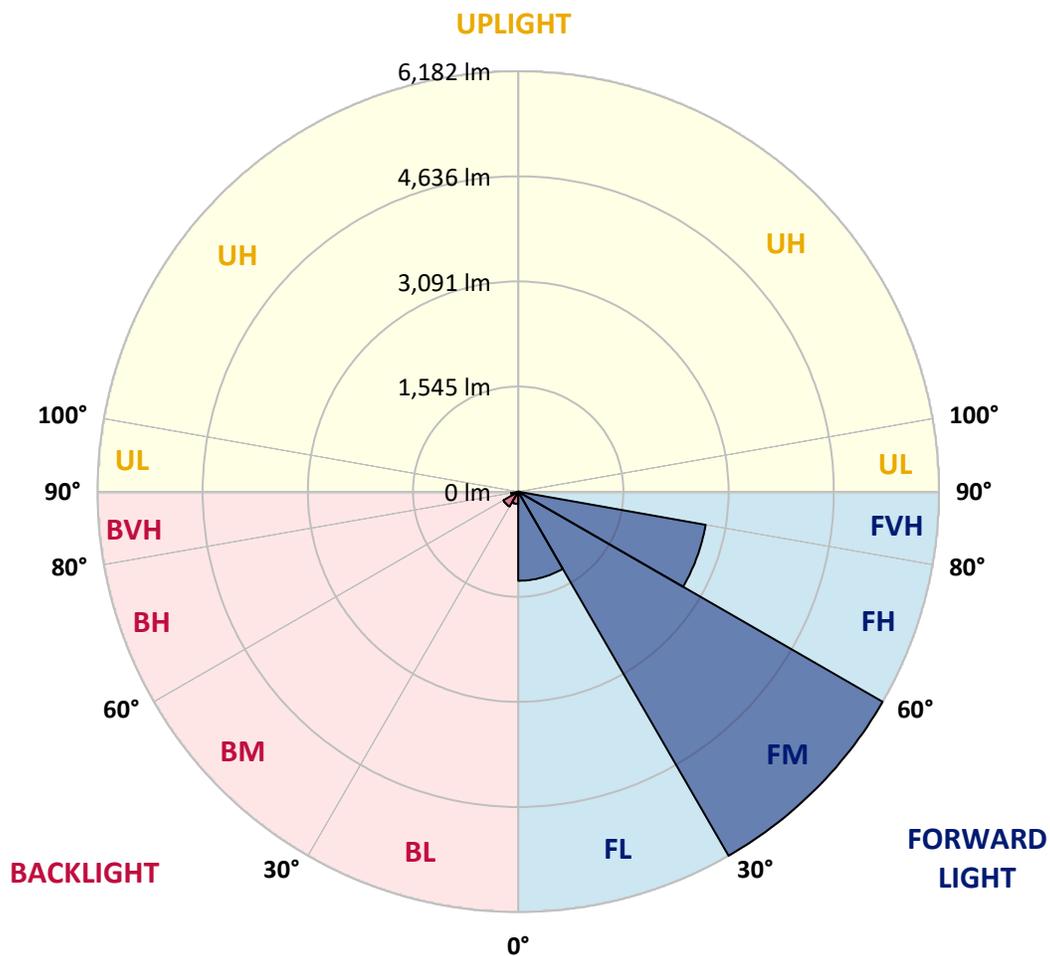
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1309.7 | 12.1 | | | |
| FM | (30°-60°) | 6181.6 | 57.0 | | | |
| FH | (60°-80°) | 2796.7 | 25.8 | | | G2/5000 |
| FVH | (80°-90°) | 24.2 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 181.7 | 1.7 | B1/500 | | |
| BM | (30°-60°) | 252.2 | 2.3 | B1/1000 | | |
| BH | (60°-80°) | 104.1 | 1.0 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.8 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: 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° | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 |
| 2.5° | 1374.1 | 1343.2 | 1350.3 | 1330.3 | 1294.2 | 1220.0 | 1156.8 | 1096.9 | 1027.0 | 1024.6 | 967.1 |
| 5° | 1852.8 | 1826.7 | 1823.4 | 1783.0 | 1717.3 | 1591.3 | 1468.7 | 1328.9 | 1172.9 | 1161.5 | 1039.3 |
| 7.5° | 2287.4 | 2266.5 | 2258.9 | 2210.9 | 2088.7 | 1966.0 | 1806.2 | 1600.9 | 1356.9 | 1336.0 | 1136.8 |
| 10° | 2621.2 | 2611.2 | 2613.1 | 2578.9 | 2474.3 | 2360.2 | 2150.5 | 1888.5 | 1565.7 | 1533.3 | 1253.8 |
| 12.5° | 2874.1 | 2876.5 | 2893.6 | 2872.7 | 2814.2 | 2729.6 | 2505.6 | 2195.2 | 1796.7 | 1752.5 | 1387.4 |
| 15° | 3060.0 | 3071.9 | 3103.3 | 3129.4 | 3125.2 | 3051.9 | 2846.5 | 2506.6 | 2042.1 | 1993.1 | 1536.2 |
| 17.5° | 3180.3 | 3193.6 | 3239.3 | 3297.3 | 3350.5 | 3333.4 | 3175.6 | 2807.1 | 2290.3 | 2233.7 | 1695.5 |
| 20° | 3285.9 | 3301.6 | 3350.5 | 3427.1 | 3526.4 | 3547.8 | 3444.2 | 3098.5 | 2538.0 | 2469.0 | 1860.0 |
| 22.5° | 3514.6 | 3514.1 | 3544.0 | 3588.7 | 3683.3 | 3738.5 | 3672.9 | 3369.1 | 2782.8 | 2711.0 | 2027.8 |
| 25° | 3928.2 | 3912.5 | 3902.1 | 3866.9 | 3887.8 | 3922.0 | 3885.4 | 3622.0 | 3029.1 | 2956.4 | 2198.0 |
| 27.5° | 4419.8 | 4429.3 | 4344.7 | 4250.1 | 4176.9 | 4141.7 | 4081.8 | 3856.4 | 3265.9 | 3186.0 | 2364.4 |
| 30° | 4938.5 | 4941.4 | 4841.5 | 4720.8 | 4559.6 | 4426.0 | 4322.4 | 4080.3 | 3509.3 | 3422.3 | 2526.1 |
| 32.5° | 5406.4 | 5387.8 | 5289.0 | 5124.4 | 4920.9 | 4770.7 | 4555.3 | 4330.4 | 3767.0 | 3682.9 | 2705.8 |
| 35° | 5777.2 | 5755.4 | 5635.1 | 5485.3 | 5274.2 | 5123.0 | 4863.9 | 4580.0 | 4038.0 | 3955.8 | 2886.0 |
| 37.5° | 6048.3 | 6022.6 | 5899.0 | 5744.9 | 5562.8 | 5474.9 | 5221.9 | 4851.5 | 4333.8 | 4245.3 | 3075.7 |
| 40° | 6142.4 | 6120.0 | 6042.5 | 5929.9 | 5783.4 | 5763.5 | 5601.8 | 5163.9 | 4655.6 | 4561.5 | 3290.6 |
| 42.5° | 6086.3 | 6064.4 | 6036.8 | 5998.8 | 5937.9 | 5957.0 | 5960.3 | 5520.0 | 5013.2 | 4920.5 | 3527.9 |
| 45° | 5863.8 | 5844.3 | 5872.8 | 5928.4 | 6004.0 | 6098.2 | 6287.4 | 5902.8 | 5412.6 | 5313.7 | 3802.2 |
| 47.5° | 5536.2 | 5521.9 | 5600.8 | 5739.7 | 5960.8 | 6220.4 | 6586.5 | 6305.0 | 5860.9 | 5769.2 | 4144.5 |
| 50° | 5070.2 | 5067.9 | 5225.7 | 5479.1 | 5819.1 | 6279.3 | 6895.5 | 6762.4 | 6483.8 | 6387.2 | 4620.5 |
| 52.5° | 4344.7 | 4349.5 | 4659.9 | 5065.5 | 5570.4 | 6239.4 | 7094.3 | 7350.0 | 7208.4 | 7108.0 | 5032.7 |
| 55° | 3653.9 | 3682.4 | 3902.5 | 4487.3 | 5189.1 | 6091.0 | 7162.7 | 7624.4 | 7608.2 | 7513.1 | 5261.9 |
| 57.5° | 2977.3 | 3029.1 | 3241.2 | 3787.5 | 4632.3 | 5749.2 | 7125.2 | 7743.2 | 7905.9 | 7833.1 | 5564.2 |
| 60° | 2244.1 | 2267.9 | 2512.3 | 3022.9 | 3917.7 | 5125.4 | 6852.7 | 7807.9 | 8312.8 | 8262.4 | 6003.1 |
| 62.5° | 1427.8 | 1487.2 | 1704.0 | 2196.6 | 3050.5 | 4259.1 | 6393.4 | 7807.0 | 8822.1 | 8849.6 | 6569.3 |
| 65° | 752.2 | 821.6 | 936.6 | 1361.2 | 2096.3 | 3291.6 | 5702.6 | 7733.7 | 9446.8 | 9485.3 | 7012.0 |
| 67.5° | 405.6 | 425.5 | 486.4 | 706.5 | 1215.7 | 2229.9 | 4687.5 | 7372.4 | 9808.6 | 9859.5 | 7073.8 |
| 70° | 296.7 | 307.6 | 330.4 | 390.8 | 611.9 | 1295.1 | 3420.4 | 6553.2 | 9342.2 | 9323.2 | 6285.0 |
| 72.5° | 227.7 | 244.9 | 262.0 | 286.2 | 351.8 | 691.3 | 2129.6 | 5131.6 | 7454.2 | 7328.6 | 4698.0 |
| 75° | 179.7 | 182.6 | 206.8 | 228.7 | 263.9 | 393.7 | 945.7 | 2988.7 | 4549.6 | 4252.5 | 2436.2 |
| 77.5° | 143.6 | 145.5 | 159.8 | 178.8 | 212.1 | 258.6 | 292.9 | 1175.8 | 1452.5 | 1296.1 | 528.7 |
| 80° | 85.1 | 89.9 | 118.9 | 137.9 | 175.9 | 163.1 | 107.0 | 255.3 | 226.8 | 205.4 | 88.9 |
| 82.5° | 47.5 | 51.3 | 67.0 | 108.9 | 122.7 | 78.0 | 53.3 | 68.9 | 53.3 | 51.8 | 25.2 |
| 85° | 0.0 | 2.4 | 43.3 | 67.5 | 49.9 | 17.1 | 22.3 | 22.8 | 15.7 | 14.7 | 10.0 |
| 87.5° | 0.0 | 0.0 | 13.3 | 12.8 | 1.9 | 2.9 | 5.2 | 7.6 | 6.2 | 6.2 | 5.2 |
| 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° | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 | 920.5 |
| 2.5° | 938.5 | 912.9 | 864.4 | 816.8 | 776.9 | 744.1 | 714.6 | 702.7 | 693.2 | 691.8 | 684.2 |
| 5° | 980.4 | 928.6 | 835.8 | 759.8 | 708.9 | 672.8 | 641.9 | 622.8 | 608.1 | 602.4 | 597.2 |
| 7.5° | 1043.6 | 965.2 | 832.0 | 744.6 | 683.7 | 622.8 | 565.8 | 504.0 | 465.5 | 450.7 | 442.2 |
| 10° | 1120.6 | 1013.7 | 846.3 | 740.3 | 633.8 | 505.4 | 410.8 | 332.3 | 300.5 | 290.0 | 287.2 |
| 12.5° | 1210.5 | 1074.1 | 871.0 | 713.7 | 527.3 | 359.0 | 283.4 | 256.7 | 249.6 | 246.3 | 246.3 |
| 15° | 1313.7 | 1140.1 | 888.6 | 636.6 | 389.9 | 271.5 | 245.3 | 233.0 | 225.4 | 221.1 | 221.6 |
| 17.5° | 1419.2 | 1204.8 | 880.1 | 524.9 | 287.6 | 241.5 | 222.0 | 208.7 | 198.3 | 194.0 | 193.0 |
| 20° | 1525.7 | 1264.7 | 832.5 | 390.8 | 243.4 | 219.2 | 197.3 | 182.6 | 172.1 | 167.8 | 166.9 |
| 22.5° | 1636.0 | 1315.6 | 748.8 | 286.7 | 218.7 | 194.5 | 173.1 | 158.3 | 148.3 | 144.5 | 142.6 |
| 25° | 1743.5 | 1356.9 | 631.9 | 232.0 | 195.4 | 171.2 | 150.7 | 136.9 | 127.9 | 124.1 | 123.6 |
| 27.5° | 1843.8 | 1383.1 | 496.4 | 204.9 | 175.0 | 150.2 | 131.7 | 119.3 | 111.7 | 108.9 | 108.4 |
| 30° | 1934.1 | 1385.5 | 367.1 | 185.0 | 156.9 | 132.2 | 115.1 | 104.1 | 97.5 | 94.6 | 93.7 |
| 32.5° | 2025.4 | 1365.5 | 267.2 | 166.9 | 140.3 | 116.5 | 99.8 | 91.3 | 86.5 | 84.2 | 84.2 |
| 35° | 2111.5 | 1319.4 | 208.2 | 151.2 | 124.1 | 101.3 | 88.0 | 81.8 | 78.9 | 76.5 | 76.5 |
| 37.5° | 2195.6 | 1253.3 | 176.9 | 137.4 | 108.9 | 88.4 | 77.5 | 73.7 | 71.3 | 68.9 | 68.9 |
| 40° | 2281.2 | 1170.1 | 160.7 | 124.6 | 96.5 | 78.4 | 68.9 | 65.6 | 63.2 | 61.3 | 60.9 |
| 42.5° | 2386.3 | 1074.1 | 150.2 | 112.7 | 85.6 | 69.4 | 60.9 | 57.1 | 55.2 | 53.3 | 52.3 |
| 45° | 2508.0 | 991.3 | 141.7 | 100.8 | 76.5 | 61.8 | 52.8 | 49.0 | 46.1 | 43.7 | 43.3 |
| 47.5° | 2683.5 | 931.4 | 130.3 | 88.0 | 68.0 | 53.7 | 45.6 | 41.4 | 37.1 | 34.7 | 34.2 |
| 50° | 2907.4 | 882.0 | 115.5 | 76.5 | 59.4 | 45.6 | 38.0 | 32.8 | 29.0 | 26.6 | 26.6 |
| 52.5° | 3018.7 | 817.3 | 102.2 | 66.6 | 49.9 | 38.5 | 30.9 | 24.7 | 22.8 | 20.4 | 20.4 |
| 55° | 3063.4 | 767.9 | 88.9 | 56.6 | 41.4 | 31.9 | 24.2 | 19.0 | 17.6 | 16.2 | 15.7 |
| 57.5° | 3188.9 | 753.6 | 77.5 | 48.0 | 34.2 | 25.2 | 18.5 | 14.3 | 13.3 | 11.4 | 11.4 |
| 60° | 3390.9 | 760.7 | 67.0 | 40.9 | 27.6 | 19.5 | 13.8 | 10.9 | 10.0 | 8.1 | 8.1 |
| 62.5° | 3609.2 | 751.7 | 56.6 | 35.2 | 21.4 | 14.3 | 9.5 | 8.1 | 8.1 | 4.8 | 4.3 |
| 65° | 3651.0 | 669.4 | 48.5 | 29.0 | 16.6 | 10.5 | 6.2 | 5.2 | 7.1 | 1.0 | 0.0 |
| 67.5° | 3388.6 | 519.2 | 41.8 | 22.3 | 12.4 | 8.1 | 4.8 | 2.4 | 6.2 | 0.0 | 0.0 |
| 70° | 2709.6 | 330.0 | 33.8 | 16.2 | 9.5 | 6.7 | 3.8 | 1.0 | 4.8 | 0.0 | 0.0 |
| 72.5° | 1916.1 | 191.6 | 26.6 | 11.4 | 8.1 | 5.2 | 2.9 | 0.0 | 2.9 | 0.0 | 0.0 |
| 75° | 969.0 | 102.2 | 16.6 | 8.6 | 6.2 | 3.8 | 1.9 | 0.0 | 0.5 | 0.0 | 0.0 |
| 77.5° | 209.7 | 47.5 | 10.5 | 6.2 | 4.3 | 2.4 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 45.6 | 20.9 | 6.7 | 3.8 | 2.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 16.6 | 10.9 | 3.3 | 1.9 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 9.0 | 5.7 | 1.9 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.8 | 1.9 | 0.5 | 0.5 | 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)