

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: P1209597

Luminaire Tested: UPW-SA2-130-750-U-T3R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-130-750-U-T3R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12454 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

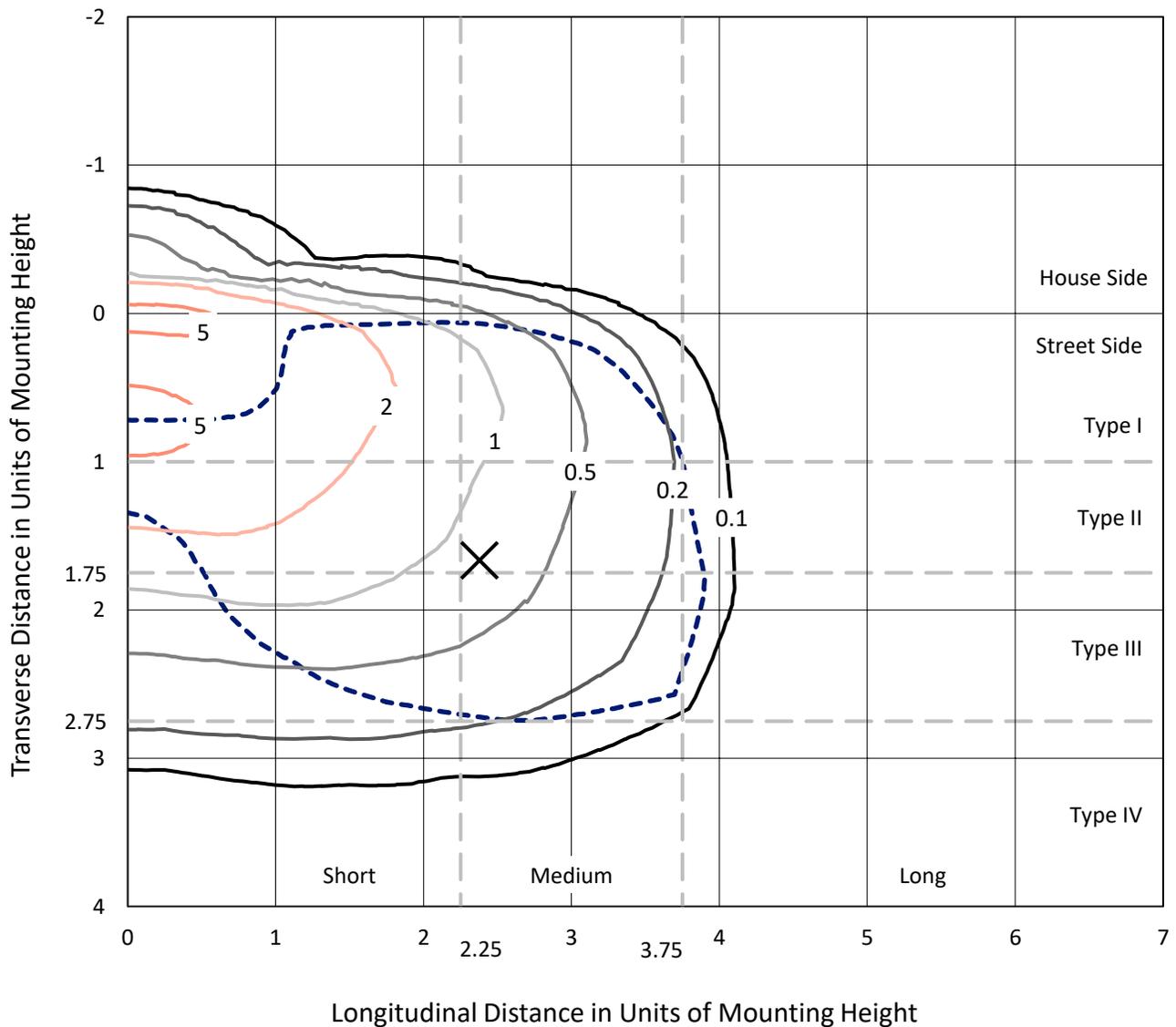
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

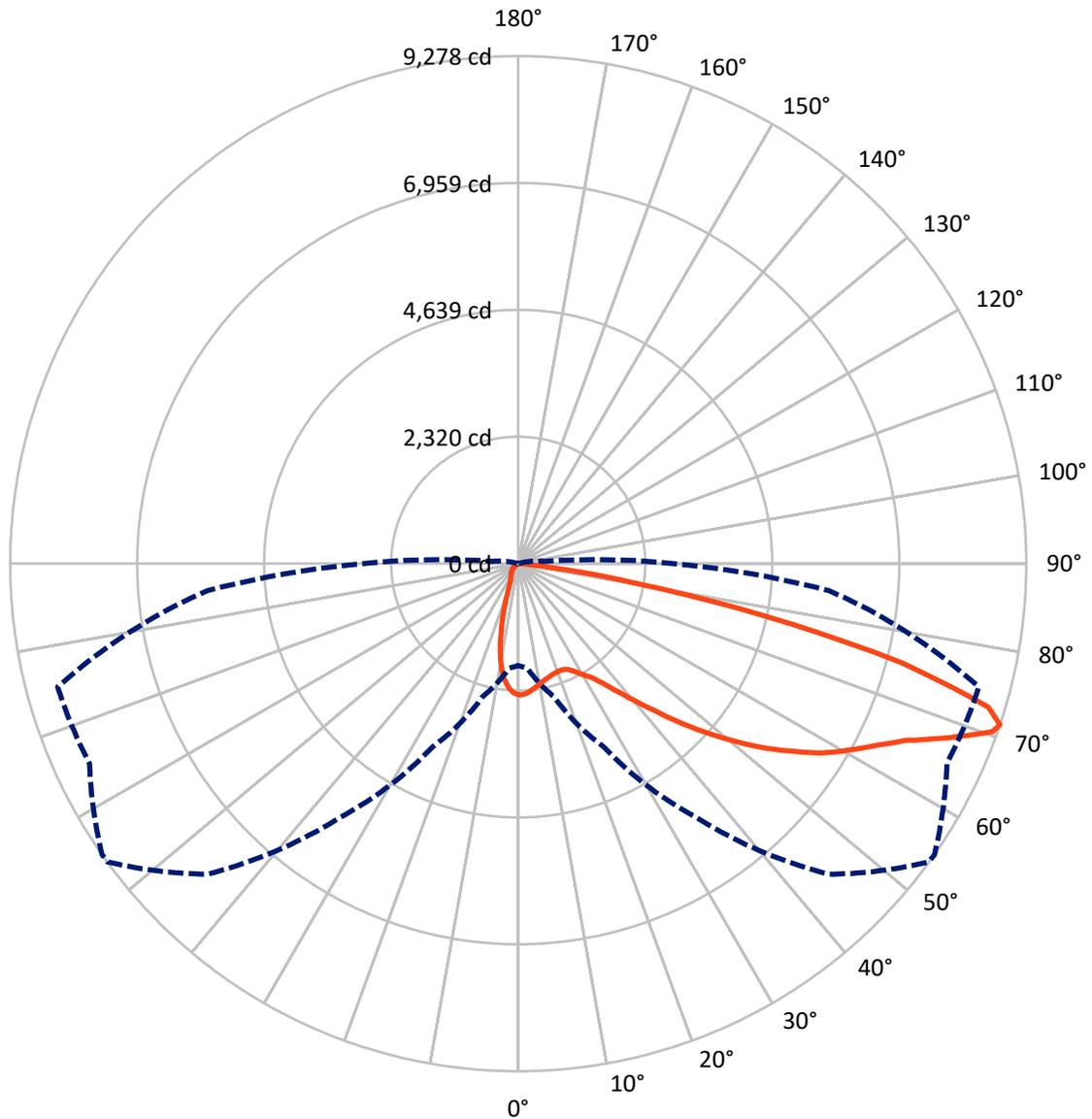
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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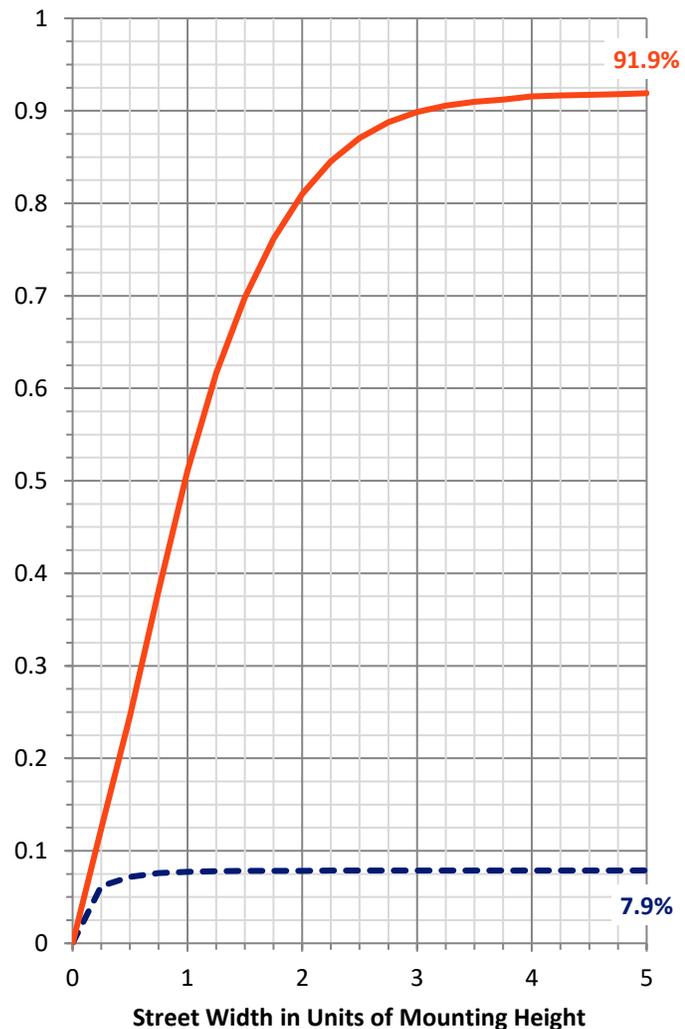
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 986.0 | 0.0 | 986.0 |
| | % Fixture | 7.9 | 0.0 | 7.9 |
| Street Side | Lumens | 11468.0 | 0.0 | 11468.0 |
| | % Fixture | 92.1 | 0.0 | 92.1 |
| Total | Lumens | 12454.0 | 0.0 | 12454.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 204.8 | 1.6 |
| 10°-20° | 462.3 | 3.7 |
| 20°-30° | 743.0 | 6.0 |
| 30°-40° | 1262.3 | 10.1 |
| 40°-50° | 1959.3 | 15.7 |
| 50°-60° | 2634.2 | 21.2 |
| 60°-70° | 3222.5 | 25.9 |
| 70°-80° | 1884.1 | 15.1 |
| 80°-90° | 81.4 | 0.7 |
| 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° | 12454.0 | 100.0 |
| 0°-180° | 12454.0 | 100.0 |



--- HS — SS

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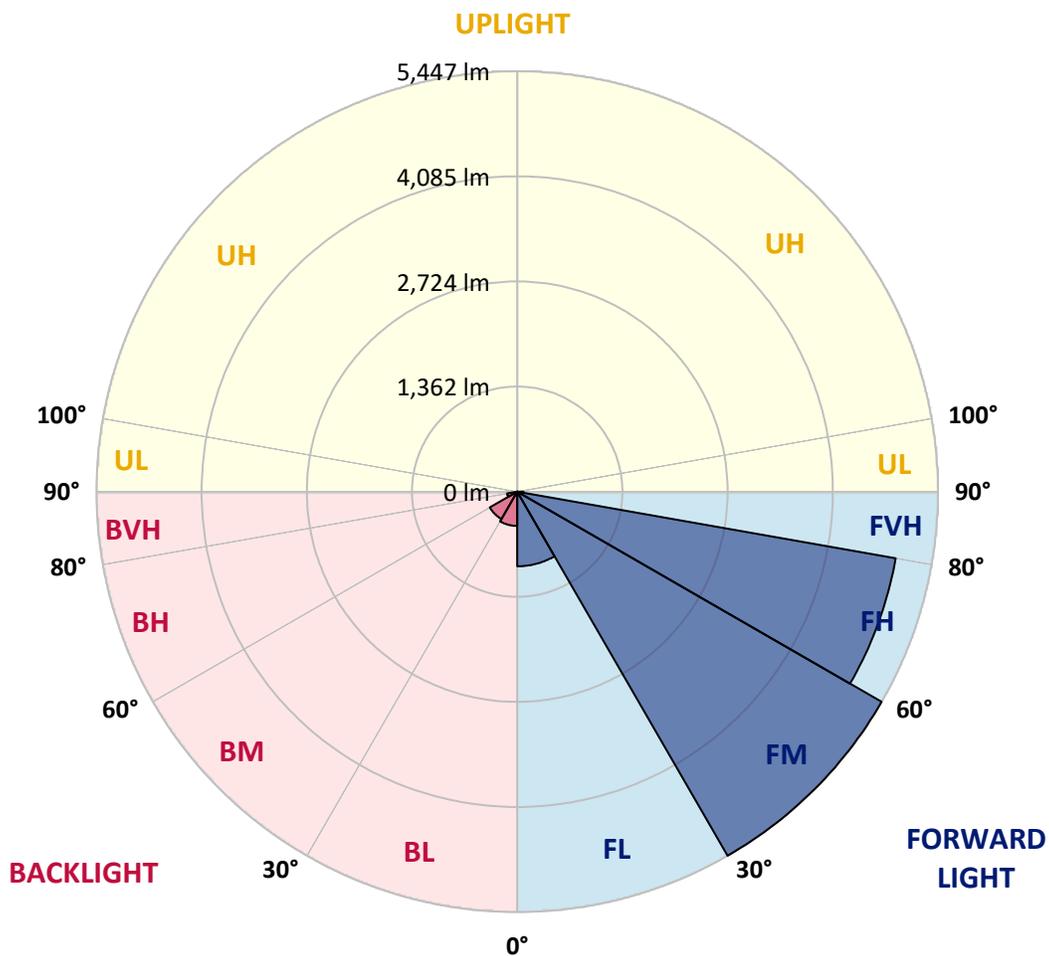
CATALOG NUMBER: UPW-SA2-130-750-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 966.3 | 7.8 | | | |
| FM | (30°-60°) | 5447.0 | 43.7 | | | |
| FH | (60°-80°) | 4974.5 | 39.9 | | | G2/5000 |
| FVH | (80°-90°) | 80.2 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 443.8 | 3.6 | B1/500 | | |
| BM | (30°-60°) | 408.8 | 3.3 | B1/1000 | | |
| BH | (60°-80°) | 132.1 | 1.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.3 | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 |
| 2.5° | 2331.3 | 2334.1 | 2344.2 | 2348.7 | 2359.3 | 2377.2 | 2386.1 | 2386.7 | 2401.2 | 2406.8 | 2411.3 |
| 5° | 2166.4 | 2183.1 | 2199.9 | 2217.8 | 2250.3 | 2293.3 | 2335.8 | 2339.7 | 2386.7 | 2421.4 | 2439.8 |
| 7.5° | 2024.3 | 2039.4 | 2059.6 | 2088.1 | 2133.9 | 2201.6 | 2272.6 | 2281.0 | 2369.9 | 2448.8 | 2490.2 |
| 10° | 1878.4 | 1890.7 | 1919.8 | 1961.7 | 2024.9 | 2115.5 | 2211.1 | 2225.1 | 2354.8 | 2485.7 | 2558.4 |
| 12.5° | 1722.4 | 1729.6 | 1764.9 | 1825.3 | 1918.1 | 2033.3 | 2159.1 | 2177.6 | 2345.3 | 2528.2 | 2638.9 |
| 15° | 1603.8 | 1607.2 | 1640.7 | 1703.3 | 1809.6 | 1959.5 | 2118.8 | 2141.2 | 2347.6 | 2579.1 | 2726.7 |
| 17.5° | 1573.6 | 1575.3 | 1593.2 | 1636.2 | 1730.2 | 1893.5 | 2087.0 | 2114.4 | 2354.3 | 2628.8 | 2815.1 |
| 20° | 1696.1 | 1684.3 | 1665.9 | 1659.2 | 1699.4 | 1853.8 | 2068.0 | 2098.7 | 2363.2 | 2673.0 | 2894.5 |
| 22.5° | 2032.2 | 1997.5 | 1920.9 | 1818.5 | 1756.5 | 1856.6 | 2073.0 | 2103.7 | 2391.7 | 2727.3 | 2986.2 |
| 25° | 2531.0 | 2482.9 | 2352.6 | 2151.3 | 1957.8 | 1937.1 | 2114.9 | 2146.2 | 2447.1 | 2792.1 | 3074.0 |
| 27.5° | 3098.6 | 3051.0 | 2891.7 | 2604.2 | 2274.3 | 2096.5 | 2211.1 | 2240.2 | 2529.3 | 2849.7 | 3141.1 |
| 30° | 3642.1 | 3628.7 | 3440.8 | 3114.2 | 2672.5 | 2354.8 | 2335.3 | 2359.9 | 2590.3 | 2884.4 | 3194.2 |
| 32.5° | 4102.9 | 4081.7 | 3930.7 | 3613.0 | 3128.2 | 2665.2 | 2481.2 | 2488.5 | 2636.1 | 2929.1 | 3263.5 |
| 35° | 4530.1 | 4503.9 | 4371.3 | 4071.0 | 3595.7 | 3044.3 | 2706.0 | 2695.4 | 2736.2 | 3019.2 | 3364.2 |
| 37.5° | 4903.1 | 4927.2 | 4780.1 | 4494.4 | 4015.1 | 3438.6 | 3009.1 | 2977.2 | 2892.8 | 3165.7 | 3510.1 |
| 40° | 5215.2 | 5215.2 | 5138.6 | 4900.3 | 4468.1 | 3846.2 | 3351.9 | 3310.0 | 3128.2 | 3391.6 | 3695.2 |
| 42.5° | 5327.6 | 5351.6 | 5380.1 | 5245.4 | 4873.5 | 4270.1 | 3733.8 | 3690.2 | 3459.8 | 3712.0 | 3929.0 |
| 45° | 5334.3 | 5372.3 | 5518.3 | 5517.7 | 5239.8 | 4691.2 | 4164.4 | 4143.7 | 3884.8 | 4123.6 | 4218.7 |
| 47.5° | 5239.8 | 5287.3 | 5527.8 | 5664.2 | 5530.0 | 5083.2 | 4635.3 | 4609.6 | 4384.2 | 4628.0 | 4521.8 |
| 50° | 5093.8 | 5146.4 | 5426.0 | 5721.8 | 5727.4 | 5424.3 | 5131.3 | 5092.7 | 4933.9 | 5204.5 | 4834.9 |
| 52.5° | 4832.7 | 4934.5 | 5334.8 | 5735.2 | 5857.1 | 5719.0 | 5603.3 | 5586.5 | 5549.0 | 5759.8 | 5084.3 |
| 55° | 4274.0 | 4387.0 | 5106.1 | 5739.7 | 5977.4 | 5980.2 | 6045.6 | 6050.1 | 6125.6 | 6278.8 | 5270.0 |
| 57.5° | 4010.1 | 4073.8 | 4706.9 | 5761.0 | 6155.8 | 6276.6 | 6496.3 | 6531.0 | 6647.9 | 6771.5 | 5481.9 |
| 60° | 3844.0 | 3919.5 | 4510.0 | 5731.9 | 6435.9 | 6665.2 | 6914.0 | 6925.8 | 7051.1 | 7279.8 | 5768.8 |
| 62.5° | 3711.5 | 3785.8 | 4385.9 | 5620.0 | 6750.8 | 7132.7 | 7322.3 | 7323.4 | 7417.3 | 7885.4 | 6094.8 |
| 65° | 3384.3 | 3447.0 | 4134.8 | 5494.2 | 6958.8 | 7595.2 | 7796.5 | 7789.2 | 7865.8 | 8524.0 | 6473.4 |
| 67.5° | 2911.2 | 2959.3 | 3622.0 | 5017.2 | 6880.5 | 8015.7 | 8512.3 | 8488.2 | 8395.4 | 9075.9 | 6622.1 |
| 70° | 2250.8 | 2268.1 | 2854.8 | 4181.2 | 6146.8 | 8177.3 | 9204.0 | 9191.7 | 8720.3 | 8977.0 | 6076.9 |
| 71° | 1860.5 | 1917.5 | 2515.9 | 3690.2 | 5655.3 | 8028.0 | 9271.1 | 9278.4 | 8638.6 | 8707.4 | 5701.7 |
| 72.5° | 1080.4 | 1129.0 | 1823.6 | 2834.1 | 4801.4 | 7405.0 | 8923.3 | 8975.8 | 8257.3 | 7920.1 | 4870.1 |
| 75° | 231.5 | 247.7 | 676.1 | 1371.7 | 2641.1 | 5190.0 | 7043.2 | 7230.6 | 6730.1 | 5388.0 | 2935.3 |
| 77.5° | 161.1 | 173.9 | 289.7 | 622.4 | 872.9 | 2564.5 | 4375.2 | 4586.6 | 4020.7 | 2024.9 | 939.5 |
| 80° | 127.5 | 142.0 | 225.9 | 307.6 | 236.0 | 827.1 | 2049.5 | 2178.7 | 1341.0 | 451.8 | 158.3 |
| 82.5° | 71.0 | 84.4 | 176.2 | 166.1 | 90.6 | 157.1 | 573.7 | 648.7 | 268.4 | 91.2 | 37.5 |
| 85° | 20.7 | 25.2 | 113.5 | 120.8 | 38.6 | 30.2 | 97.9 | 121.3 | 50.9 | 24.0 | 16.8 |
| 87.5° | 0.0 | 0.0 | 54.8 | 46.4 | 11.2 | 4.5 | 8.9 | 10.1 | 10.1 | 10.1 | 11.2 |
| 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° | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 |
| 2.5° | 2411.3 | 2415.2 | 2401.2 | 2382.8 | 2363.2 | 2339.2 | 2314.0 | 2294.4 | 2293.9 | 2284.4 | 2274.9 |
| 5° | 2440.9 | 2438.7 | 2400.1 | 2341.4 | 2272.1 | 2199.9 | 2131.1 | 2053.4 | 2027.7 | 1995.8 | 1985.2 |
| 7.5° | 2495.7 | 2480.1 | 2398.4 | 2269.8 | 2117.7 | 1966.7 | 1810.7 | 1653.6 | 1586.5 | 1526.1 | 1515.5 |
| 10° | 2564.5 | 2534.9 | 2387.8 | 2162.5 | 1883.4 | 1604.9 | 1369.5 | 1155.9 | 1061.9 | 989.8 | 986.4 |
| 12.5° | 2636.1 | 2590.8 | 2358.2 | 2000.3 | 1576.4 | 1185.0 | 913.7 | 703.5 | 625.2 | 574.9 | 579.3 |
| 15° | 2711.0 | 2643.4 | 2294.4 | 1781.6 | 1226.9 | 804.1 | 561.4 | 437.9 | 406.5 | 393.7 | 397.0 |
| 17.5° | 2787.7 | 2679.7 | 2205.5 | 1518.2 | 881.9 | 518.9 | 388.6 | 354.0 | 354.0 | 356.8 | 357.9 |
| 20° | 2854.2 | 2699.3 | 2074.7 | 1223.0 | 597.8 | 378.0 | 340.0 | 335.0 | 337.8 | 342.2 | 342.8 |
| 22.5° | 2920.2 | 2700.4 | 1904.1 | 923.8 | 418.3 | 331.1 | 323.8 | 321.5 | 323.2 | 328.3 | 328.8 |
| 25° | 2973.9 | 2687.0 | 1690.5 | 657.1 | 333.8 | 312.0 | 308.7 | 307.6 | 308.7 | 314.8 | 314.8 |
| 27.5° | 2995.7 | 2638.3 | 1429.9 | 461.9 | 299.2 | 290.8 | 289.7 | 290.8 | 292.5 | 296.9 | 297.5 |
| 30° | 2997.9 | 2553.3 | 1145.8 | 334.4 | 271.2 | 262.3 | 264.5 | 268.4 | 266.7 | 265.6 | 266.7 |
| 32.5° | 3003.5 | 2454.9 | 869.0 | 275.1 | 247.7 | 233.7 | 231.0 | 231.0 | 224.2 | 220.3 | 218.1 |
| 35° | 3022.0 | 2339.2 | 630.2 | 247.2 | 223.7 | 207.5 | 196.8 | 184.5 | 171.7 | 165.0 | 163.3 |
| 37.5° | 3051.0 | 2217.8 | 451.3 | 228.7 | 202.4 | 184.0 | 163.8 | 142.0 | 123.6 | 118.6 | 118.6 |
| 40° | 3104.2 | 2092.6 | 333.8 | 214.2 | 185.7 | 162.7 | 132.5 | 104.0 | 87.2 | 84.4 | 84.4 |
| 42.5° | 3188.0 | 1960.6 | 266.2 | 201.3 | 171.1 | 140.9 | 101.2 | 75.5 | 63.2 | 61.5 | 61.0 |
| 45° | 3275.3 | 1815.2 | 232.6 | 189.0 | 155.5 | 115.8 | 74.9 | 55.9 | 48.7 | 47.0 | 47.0 |
| 47.5° | 3362.5 | 1660.3 | 216.4 | 177.3 | 140.4 | 90.0 | 55.9 | 44.2 | 40.8 | 40.8 | 41.4 |
| 50° | 3436.3 | 1498.7 | 204.7 | 164.4 | 120.8 | 68.2 | 44.2 | 37.5 | 36.3 | 38.6 | 39.1 |
| 52.5° | 3454.8 | 1339.9 | 190.1 | 148.2 | 96.7 | 52.0 | 36.3 | 33.0 | 33.0 | 33.0 | 33.0 |
| 55° | 3443.6 | 1216.8 | 171.1 | 128.1 | 71.6 | 41.4 | 31.3 | 29.1 | 28.5 | 28.5 | 28.5 |
| 57.5° | 3481.6 | 1144.1 | 137.0 | 99.5 | 51.4 | 33.6 | 27.4 | 25.7 | 24.6 | 24.0 | 24.0 |
| 60° | 3558.2 | 1096.6 | 97.9 | 71.6 | 38.6 | 28.0 | 23.5 | 21.8 | 20.1 | 19.0 | 19.0 |
| 62.5° | 3660.0 | 1055.2 | 72.7 | 53.1 | 29.6 | 22.4 | 19.6 | 17.9 | 15.7 | 14.5 | 14.5 |
| 65° | 3738.3 | 981.4 | 55.4 | 39.7 | 22.4 | 17.9 | 15.1 | 14.5 | 11.2 | 10.1 | 9.5 |
| 67.5° | 3618.6 | 819.2 | 44.7 | 29.1 | 16.8 | 14.0 | 11.7 | 11.2 | 6.7 | 5.6 | 5.6 |
| 70° | 3103.6 | 570.4 | 35.8 | 21.2 | 12.3 | 11.2 | 9.5 | 7.3 | 5.0 | 4.5 | 4.5 |
| 71° | 2814.5 | 476.4 | 32.4 | 17.9 | 10.6 | 10.6 | 8.9 | 6.2 | 4.5 | 3.9 | 3.9 |
| 72.5° | 2338.0 | 338.3 | 27.4 | 14.0 | 9.5 | 11.2 | 9.5 | 5.6 | 4.5 | 3.9 | 3.4 |
| 75° | 1357.2 | 141.5 | 19.0 | 9.5 | 7.3 | 13.4 | 12.3 | 5.0 | 3.4 | 2.8 | 2.8 |
| 77.5° | 408.2 | 52.0 | 10.6 | 6.2 | 5.6 | 11.7 | 14.0 | 4.5 | 1.7 | 0.6 | 0.6 |
| 80° | 74.4 | 22.4 | 6.7 | 3.9 | 3.9 | 7.3 | 10.6 | 2.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 26.3 | 11.2 | 3.9 | 2.2 | 1.7 | 3.4 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 15.1 | 7.8 | 2.2 | 1.1 | 0.0 | 0.6 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.1 | 2.2 | 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)