

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: P1209517

Luminaire Tested: UPW-SA2-130-730-U-T3R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-130-730-U-T3R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15077 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

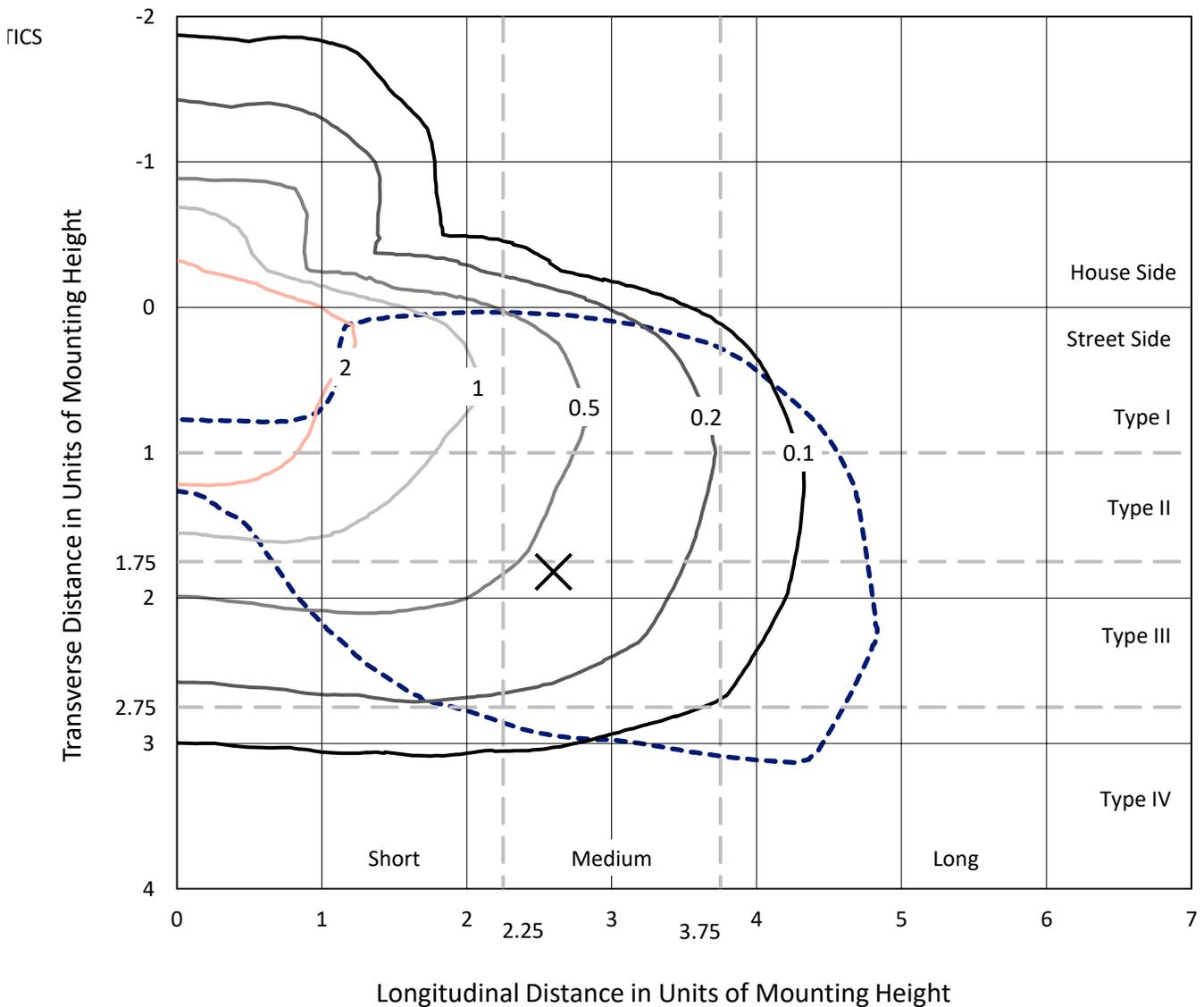
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

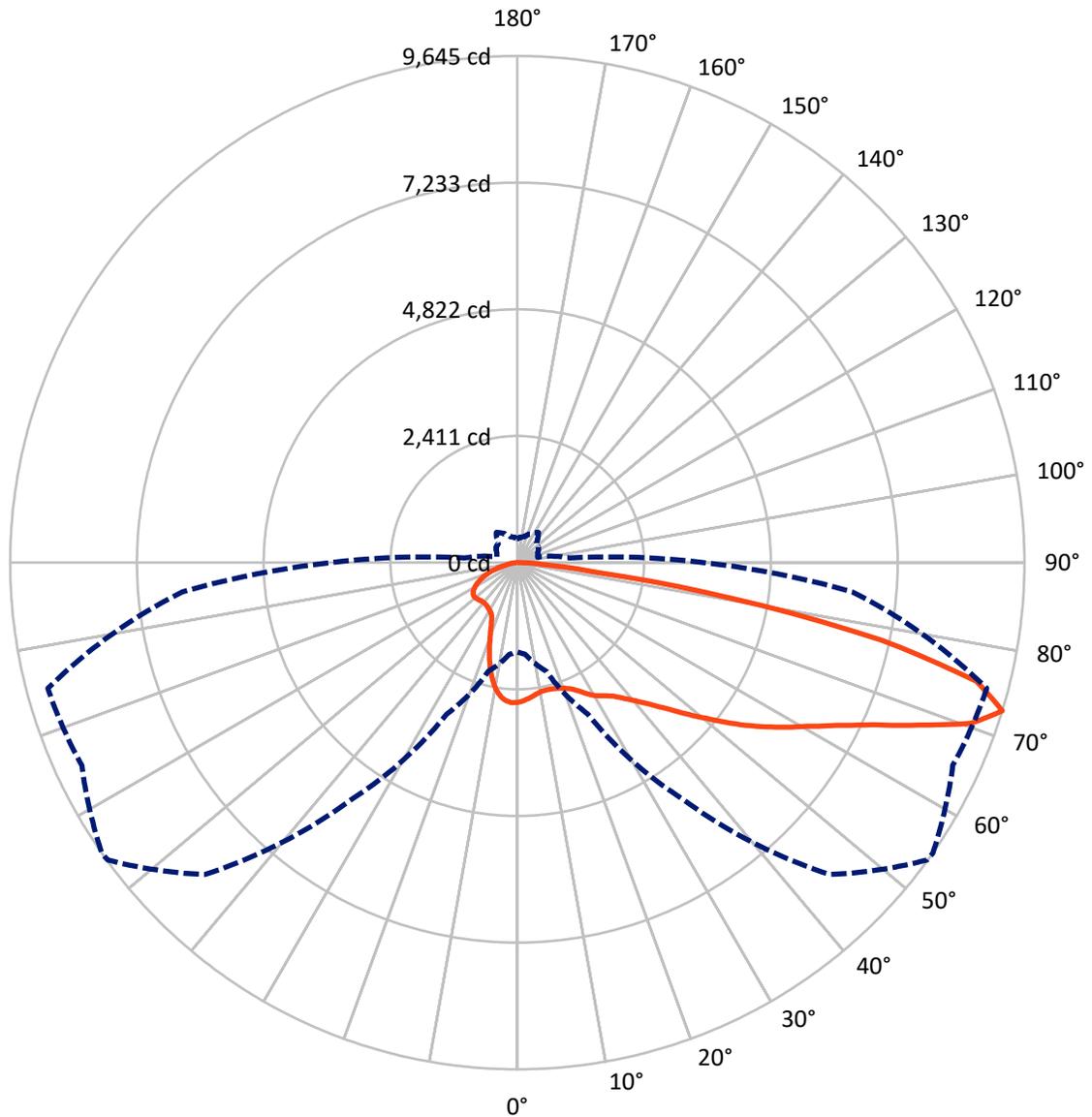
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2802.3 | 0.0 | 2802.3 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 12274.7 | 0.0 | 12274.7 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 15077.0 | 0.0 | 15077.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 240.6 | 1.6 |
| 10°-20° | 640.6 | 4.2 |
| 20°-30° | 1056.3 | 7.0 |
| 30°-40° | 1562.5 | 10.4 |
| 40°-50° | 2180.9 | 14.5 |
| 50°-60° | 2839.6 | 18.8 |
| 60°-70° | 3489.8 | 23.1 |
| 70°-80° | 2735.6 | 18.1 |
| 80°-90° | 331.0 | 2.2 |
| 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° | 15077.0 | 100.0 |
| 0°-180° | 15077.0 | 100.0 |



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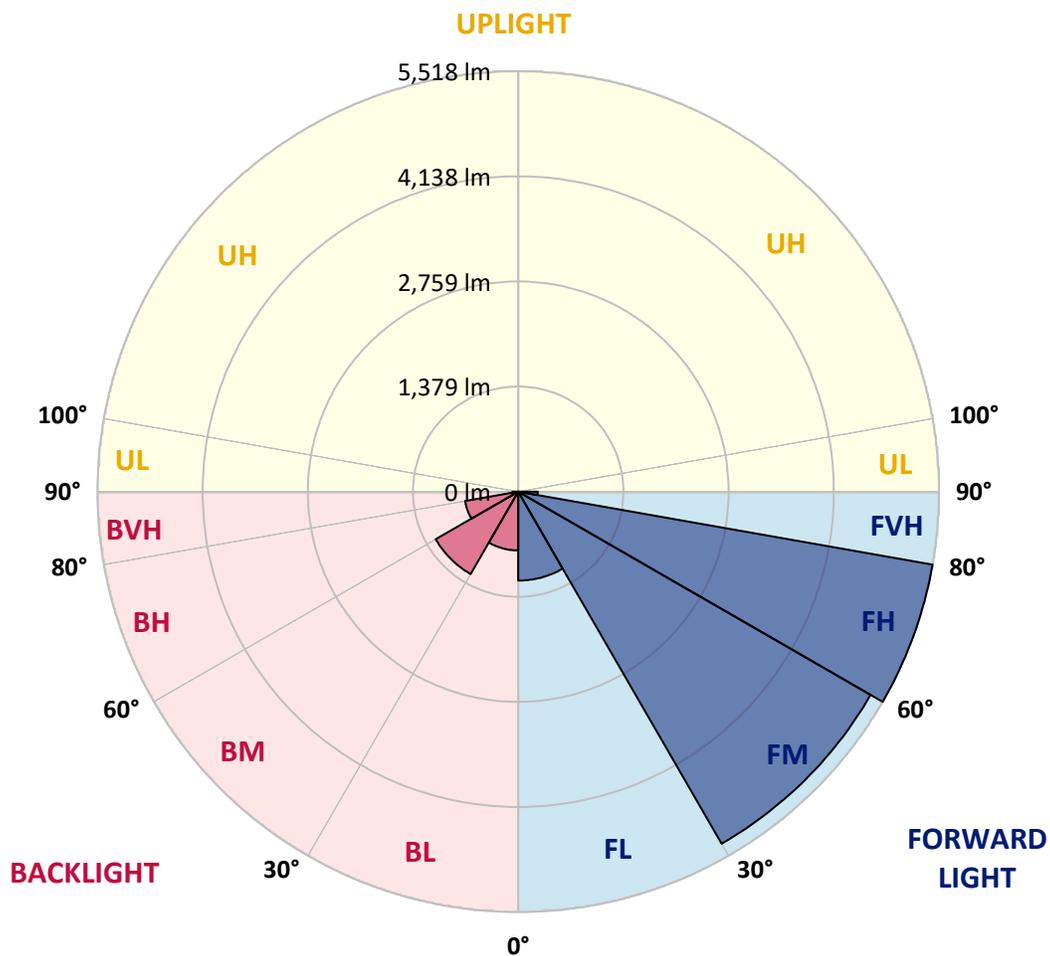
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1166.5 | 7.7 | | | |
| FM | (30°-60°) | 5334.5 | 35.4 | | | |
| FH | (60°-80°) | 5517.7 | 36.6 | | | G3/7500 |
| FVH | (80°-90°) | 255.9 | 1.7 | | | G3/500 |
| BL | (0°-30°) | 771.0 | 5.1 | B2/1000 | | |
| BM | (30°-60°) | 1248.5 | 8.3 | B2/2500 | | |
| BH | (60°-80°) | 707.7 | 4.7 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 75.1 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 |
| 2.5° | 2572.7 | 2566.6 | 2574.2 | 2584.9 | 2596.6 | 2612.4 | 2621.6 | 2625.6 | 2641.4 | 2647.5 | 2660.8 |
| 5° | 2453.5 | 2450.5 | 2463.2 | 2481.5 | 2507.5 | 2544.2 | 2573.7 | 2579.3 | 2621.1 | 2650.6 | 2677.6 |
| 7.5° | 2367.0 | 2367.0 | 2381.7 | 2403.6 | 2432.6 | 2482.0 | 2523.8 | 2531.4 | 2602.2 | 2665.9 | 2715.8 |
| 10° | 2298.2 | 2300.8 | 2318.1 | 2344.0 | 2378.2 | 2430.6 | 2486.1 | 2494.8 | 2597.1 | 2701.5 | 2781.0 |
| 12.5° | 2252.4 | 2258.5 | 2274.3 | 2297.7 | 2340.0 | 2403.6 | 2473.9 | 2485.6 | 2607.8 | 2752.4 | 2859.4 |
| 15° | 2281.4 | 2291.6 | 2293.1 | 2302.8 | 2326.2 | 2395.5 | 2481.0 | 2493.2 | 2630.7 | 2804.4 | 2948.5 |
| 17.5° | 2408.7 | 2412.3 | 2396.5 | 2376.1 | 2364.9 | 2409.2 | 2502.4 | 2515.1 | 2658.2 | 2855.8 | 3034.1 |
| 20° | 2602.2 | 2600.2 | 2566.1 | 2511.1 | 2454.0 | 2461.2 | 2537.5 | 2550.8 | 2695.4 | 2901.1 | 3119.6 |
| 22.5° | 2846.7 | 2839.5 | 2787.1 | 2685.7 | 2588.5 | 2547.7 | 2599.2 | 2610.4 | 2751.4 | 2965.8 | 3211.3 |
| 25° | 3143.0 | 3127.3 | 3058.0 | 2922.0 | 2778.9 | 2674.0 | 2691.8 | 2702.5 | 2832.9 | 3038.1 | 3295.3 |
| 27.5° | 3455.7 | 3439.9 | 3351.8 | 3187.3 | 2996.9 | 2833.4 | 2819.7 | 2828.8 | 2925.6 | 3091.6 | 3357.4 |
| 30° | 3782.6 | 3765.8 | 3685.4 | 3501.0 | 3228.1 | 2998.4 | 2938.8 | 2942.4 | 2990.8 | 3120.6 | 3408.4 |
| 32.5° | 4111.1 | 4095.3 | 4005.2 | 3791.3 | 3479.1 | 3175.6 | 3024.9 | 3020.3 | 3030.0 | 3150.7 | 3465.9 |
| 35° | 4444.1 | 4450.3 | 4344.8 | 4108.1 | 3757.2 | 3372.7 | 3126.7 | 3117.1 | 3095.7 | 3212.3 | 3547.4 |
| 37.5° | 4800.6 | 4796.5 | 4660.1 | 4412.6 | 4048.0 | 3586.6 | 3272.9 | 3271.4 | 3197.5 | 3328.9 | 3675.2 |
| 40° | 5038.9 | 5041.5 | 4958.5 | 4724.2 | 4341.8 | 3823.4 | 3460.3 | 3456.7 | 3360.0 | 3503.6 | 3842.7 |
| 42.5° | 5132.1 | 5148.9 | 5170.3 | 5021.6 | 4649.4 | 4097.9 | 3683.9 | 3678.8 | 3586.6 | 3754.1 | 4039.8 |
| 45° | 5138.8 | 5172.4 | 5304.8 | 5285.9 | 4961.0 | 4412.1 | 3969.5 | 3955.3 | 3889.1 | 4087.2 | 4275.1 |
| 47.5° | 5081.7 | 5116.3 | 5336.3 | 5443.3 | 5239.6 | 4743.6 | 4303.6 | 4292.4 | 4235.4 | 4503.7 | 4529.7 |
| 50° | 4957.0 | 4990.1 | 5271.2 | 5520.2 | 5468.7 | 5062.4 | 4688.6 | 4659.0 | 4628.5 | 4985.0 | 4821.0 |
| 52.5° | 4723.2 | 4786.9 | 5184.1 | 5538.5 | 5605.7 | 5345.5 | 5093.4 | 5074.1 | 5090.9 | 5492.7 | 5112.8 |
| 55° | 4169.7 | 4241.0 | 4959.5 | 5523.2 | 5707.1 | 5583.3 | 5498.3 | 5497.3 | 5584.3 | 6025.3 | 5426.0 |
| 57.5° | 3859.5 | 3910.0 | 4502.2 | 5497.3 | 5827.2 | 5819.6 | 5899.1 | 5908.7 | 6078.3 | 6605.4 | 5753.9 |
| 60° | 3684.4 | 3737.3 | 4270.5 | 5401.0 | 6013.6 | 6125.2 | 6308.0 | 6327.3 | 6580.4 | 7247.5 | 6148.6 |
| 62.5° | 3525.0 | 3583.0 | 4126.9 | 5205.0 | 6233.1 | 6562.1 | 6797.9 | 6815.2 | 7112.1 | 7907.5 | 6530.0 |
| 65° | 3252.5 | 3318.2 | 3916.6 | 5076.1 | 6432.7 | 7131.9 | 7420.7 | 7432.4 | 7722.6 | 8599.0 | 6821.8 |
| 67.5° | 2867.5 | 2927.6 | 3519.9 | 4791.5 | 6580.4 | 7824.0 | 8248.7 | 8255.3 | 8328.1 | 9087.4 | 6971.0 |
| 70° | 2417.9 | 2440.8 | 2954.6 | 4203.8 | 6405.7 | 8471.2 | 9156.2 | 9157.7 | 8880.2 | 9400.1 | 6946.6 |
| 72.5° | 1698.8 | 1752.8 | 2144.9 | 3182.2 | 5504.9 | 8392.3 | 9627.2 | 9644.5 | 9136.8 | 9242.2 | 6391.5 |
| 75° | 1041.9 | 1098.9 | 1345.4 | 1928.5 | 3492.4 | 6600.3 | 8894.9 | 9015.1 | 8655.6 | 8240.5 | 5221.3 |
| 77.5° | 696.6 | 718.0 | 877.9 | 1124.4 | 1582.2 | 3797.4 | 6838.6 | 7064.7 | 7190.5 | 6009.6 | 3339.1 |
| 80° | 388.6 | 429.3 | 582.1 | 698.7 | 703.8 | 1508.9 | 4100.4 | 4153.4 | 4000.6 | 2392.9 | 1030.2 |
| 82.5° | 205.7 | 228.1 | 388.6 | 410.4 | 384.0 | 505.2 | 1528.2 | 1529.8 | 1278.2 | 641.6 | 306.1 |
| 85° | 159.4 | 178.2 | 266.3 | 250.5 | 196.1 | 224.1 | 504.1 | 531.6 | 434.9 | 262.8 | 99.8 |
| 87.5° | 79.4 | 98.8 | 180.8 | 158.9 | 76.9 | 64.2 | 180.3 | 192.5 | 171.6 | 102.9 | 36.2 |
| 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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CATALOG NUMBER: UPW-SA2-130-730-U-T3R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 | 2659.3 |
| 2.5° | 2665.9 | 2670.5 | 2676.1 | 2670.0 | 2667.9 | 2659.8 | 2646.0 | 2643.0 | 2635.8 | 2636.3 | 2640.4 |
| 5° | 2689.3 | 2696.9 | 2693.9 | 2670.5 | 2642.5 | 2603.2 | 2562.5 | 2527.9 | 2505.0 | 2503.4 | 2501.9 |
| 7.5° | 2734.1 | 2739.2 | 2715.3 | 2648.6 | 2570.1 | 2479.5 | 2393.9 | 2319.1 | 2273.8 | 2262.6 | 2260.0 |
| 10° | 2804.4 | 2803.4 | 2737.7 | 2603.2 | 2446.9 | 2285.0 | 2147.5 | 2043.6 | 1983.0 | 1965.2 | 1960.6 |
| 12.5° | 2882.8 | 2871.1 | 2745.3 | 2520.7 | 2272.7 | 2048.2 | 1874.0 | 1758.4 | 1695.3 | 1674.9 | 1669.8 |
| 15° | 2963.8 | 2934.8 | 2726.5 | 2397.5 | 2058.9 | 1793.0 | 1610.2 | 1503.3 | 1469.2 | 1458.0 | 1455.9 |
| 17.5° | 3039.2 | 2983.1 | 2672.5 | 2230.5 | 1814.9 | 1538.9 | 1396.3 | 1353.6 | 1361.7 | 1376.5 | 1377.0 |
| 20° | 3113.0 | 3015.7 | 2585.9 | 2019.7 | 1557.8 | 1329.6 | 1281.3 | 1312.8 | 1351.5 | 1381.6 | 1385.6 |
| 22.5° | 3185.8 | 3038.6 | 2474.4 | 1776.2 | 1327.6 | 1212.0 | 1246.1 | 1303.7 | 1348.0 | 1380.6 | 1386.2 |
| 25° | 3246.9 | 3044.2 | 2320.6 | 1516.5 | 1167.7 | 1167.7 | 1229.3 | 1283.8 | 1327.6 | 1359.7 | 1365.3 |
| 27.5° | 3269.3 | 3006.6 | 2103.7 | 1276.2 | 1087.2 | 1147.3 | 1205.9 | 1251.2 | 1288.4 | 1322.5 | 1328.6 |
| 30° | 3278.0 | 2936.8 | 1853.1 | 1083.2 | 1054.1 | 1125.4 | 1174.3 | 1213.0 | 1248.2 | 1280.2 | 1285.8 |
| 32.5° | 3279.5 | 2852.8 | 1587.3 | 973.7 | 1031.2 | 1102.5 | 1135.1 | 1169.2 | 1206.9 | 1219.6 | 1221.7 |
| 35° | 3289.2 | 2753.5 | 1307.2 | 917.7 | 1009.8 | 1081.1 | 1107.1 | 1131.5 | 1070.4 | 1075.0 | 1079.1 |
| 37.5° | 3317.2 | 2655.2 | 1073.0 | 886.1 | 996.1 | 1069.9 | 1101.0 | 1012.4 | 964.5 | 953.3 | 951.8 |
| 40° | 3369.7 | 2550.3 | 899.3 | 860.6 | 991.0 | 1075.5 | 1061.8 | 945.2 | 862.7 | 801.0 | 791.9 |
| 42.5° | 3442.5 | 2437.2 | 788.3 | 843.8 | 994.5 | 1102.5 | 1007.3 | 880.5 | 743.5 | 703.8 | 698.7 |
| 45° | 3524.5 | 2318.6 | 728.2 | 832.1 | 1006.8 | 1123.4 | 996.1 | 794.4 | 688.0 | 657.9 | 655.4 |
| 47.5° | 3603.9 | 2173.4 | 697.2 | 827.0 | 1023.6 | 1106.6 | 948.7 | 767.9 | 661.5 | 645.7 | 647.2 |
| 50° | 3695.1 | 2042.6 | 678.3 | 821.4 | 1038.3 | 1095.9 | 895.2 | 754.2 | 651.3 | 670.7 | 691.0 |
| 52.5° | 3772.0 | 1907.1 | 661.5 | 810.2 | 1043.9 | 1077.0 | 881.5 | 756.7 | 651.3 | 688.5 | 707.8 |
| 55° | 3863.1 | 1804.8 | 642.2 | 786.8 | 1033.3 | 1023.6 | 871.8 | 772.0 | 659.0 | 635.5 | 637.6 |
| 57.5° | 3980.7 | 1771.1 | 620.8 | 750.1 | 997.6 | 945.7 | 867.2 | 786.8 | 654.4 | 639.6 | 644.7 |
| 60° | 4143.7 | 1806.8 | 612.1 | 702.2 | 942.1 | 884.6 | 867.7 | 779.1 | 622.3 | 596.8 | 597.3 |
| 62.5° | 4299.0 | 1846.5 | 611.6 | 672.2 | 873.9 | 830.1 | 856.0 | 754.2 | 606.0 | 591.2 | 596.8 |
| 65° | 4349.9 | 1806.3 | 587.2 | 638.6 | 797.0 | 764.9 | 834.6 | 727.7 | 593.8 | 571.4 | 570.4 |
| 67.5° | 4281.7 | 1681.5 | 537.8 | 584.1 | 708.9 | 689.0 | 806.6 | 696.1 | 574.4 | 556.1 | 553.0 |
| 70° | 4079.0 | 1403.0 | 476.6 | 512.3 | 608.5 | 603.5 | 762.3 | 659.5 | 548.5 | 532.7 | 519.4 |
| 72.5° | 3533.6 | 999.6 | 401.8 | 426.2 | 495.5 | 511.8 | 701.2 | 611.6 | 511.8 | 477.7 | 457.3 |
| 75° | 2902.2 | 739.9 | 330.0 | 335.1 | 376.3 | 420.6 | 617.2 | 555.6 | 468.5 | 410.4 | 394.7 |
| 77.5° | 1777.3 | 452.7 | 262.8 | 264.8 | 269.9 | 335.6 | 508.2 | 492.9 | 413.5 | 342.2 | 331.0 |
| 80° | 575.4 | 247.0 | 189.9 | 199.6 | 184.3 | 246.0 | 393.1 | 419.6 | 354.9 | 286.2 | 274.0 |
| 82.5° | 219.0 | 144.1 | 128.3 | 134.9 | 127.8 | 165.0 | 286.7 | 336.1 | 290.8 | 235.3 | 191.5 |
| 85° | 105.9 | 81.5 | 75.9 | 85.0 | 78.9 | 84.5 | 183.3 | 247.5 | 220.5 | 153.3 | 142.6 |
| 87.5° | 37.7 | 36.2 | 29.0 | 39.2 | 33.6 | 30.0 | 56.0 | 124.8 | 145.6 | 105.4 | 94.2 |
| 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)