

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: P1209000

Luminaire Tested: UPW-SA2-090-727-U-T2R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-727-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10391 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 86
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

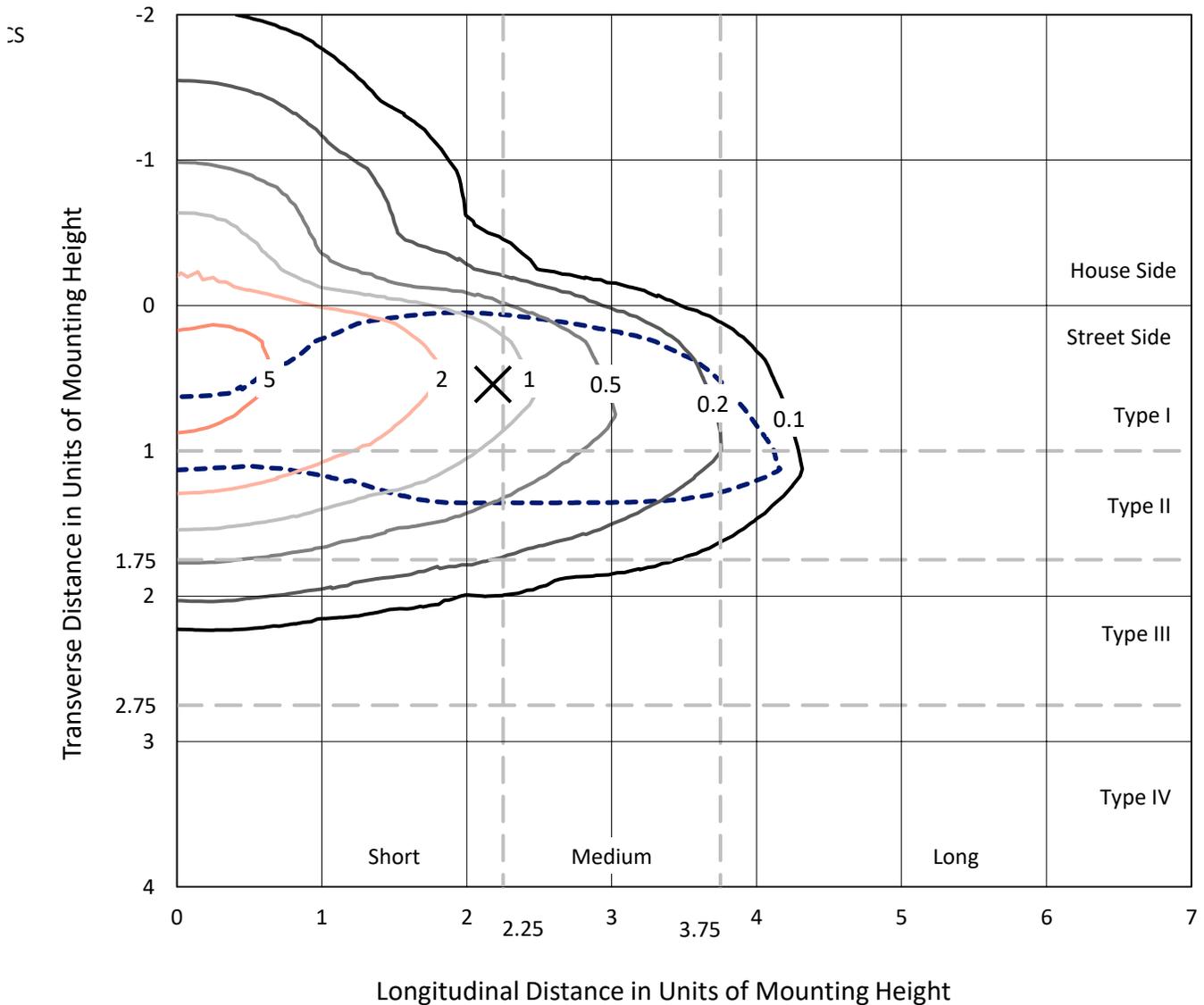


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Iso-Footcandle Lines of Horizontal Illumination

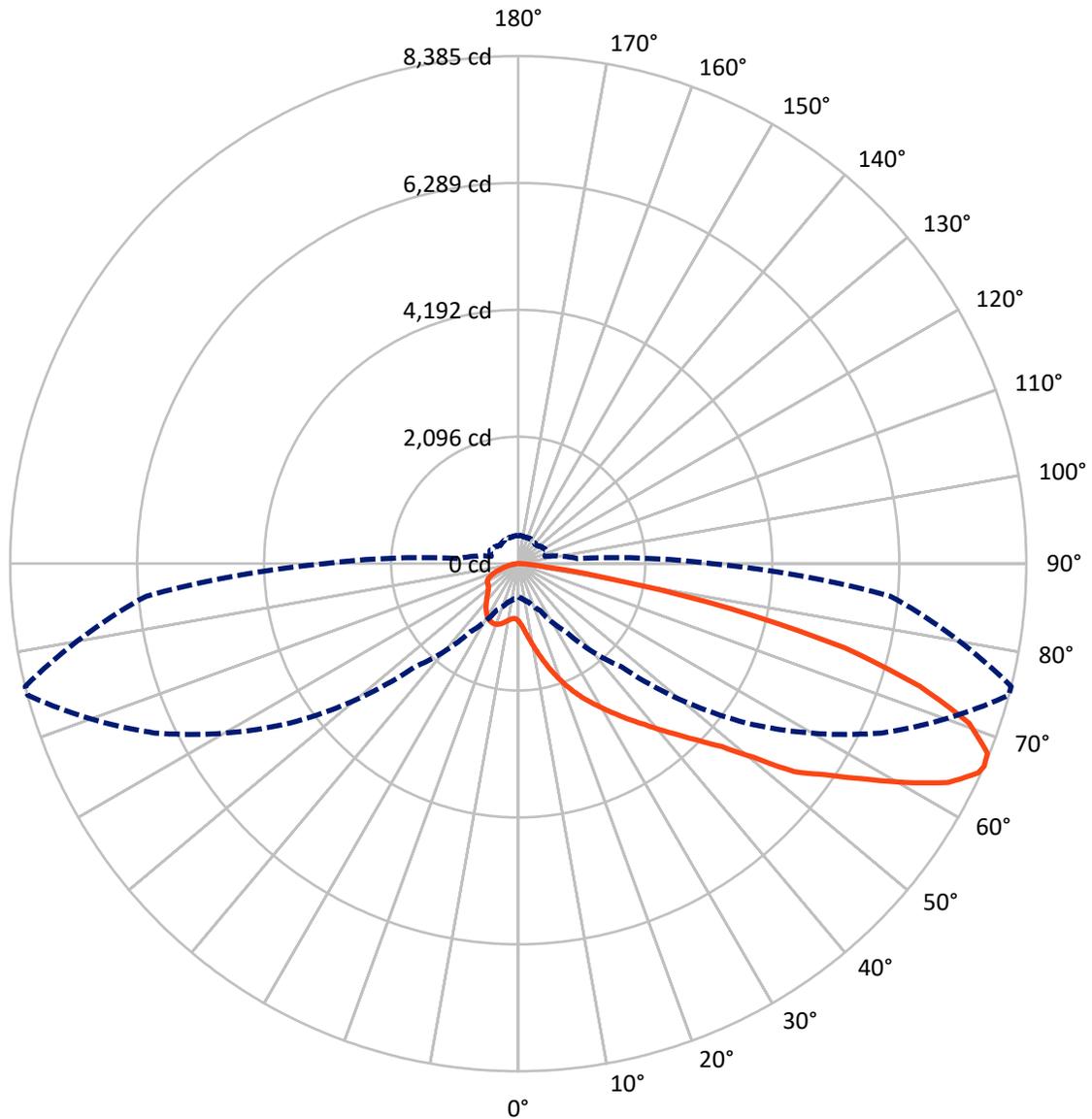
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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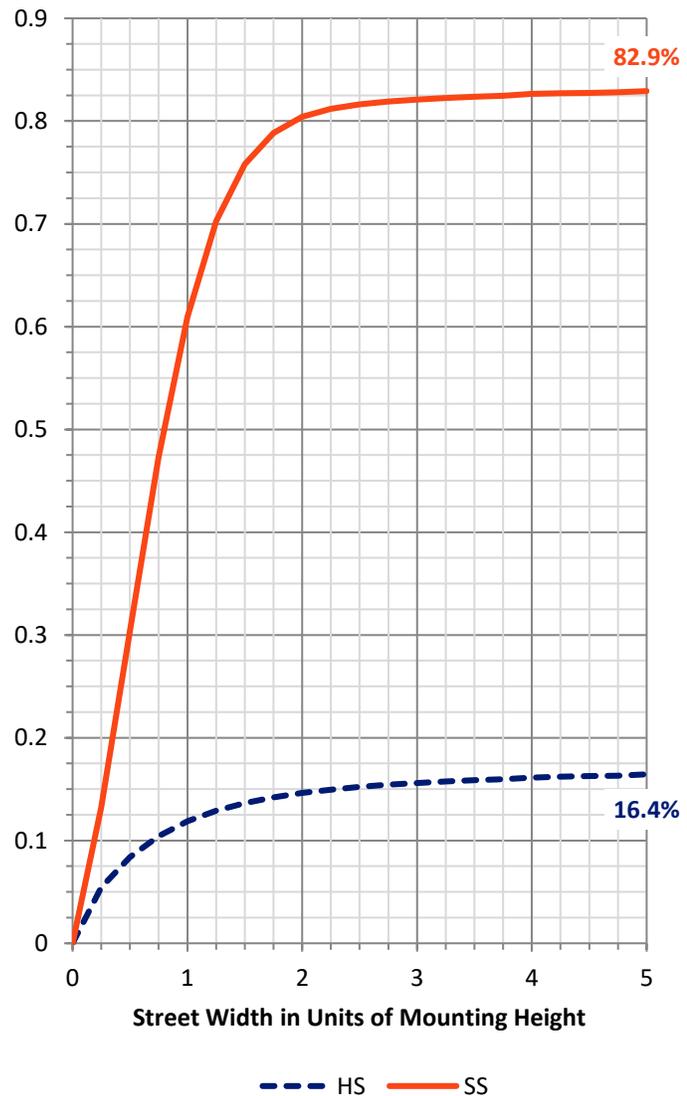
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1748.4 | 0.0 | 1748.4 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 8642.5 | 0.0 | 8642.5 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 10391.0 | 0.0 | 10391.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 114.8 | 1.1 |
| 10°-20° | 453.1 | 4.4 |
| 20°-30° | 880.6 | 8.5 |
| 30°-40° | 1437.3 | 13.8 |
| 40°-50° | 1963.7 | 18.9 |
| 50°-60° | 2287.3 | 22.0 |
| 60°-70° | 2050.6 | 19.7 |
| 70°-80° | 1036.3 | 10.0 |
| 80°-90° | 167.3 | 1.6 |
| 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° | 10391.0 | 100.0 |
| 0°-180° | 10391.0 | 100.0 |



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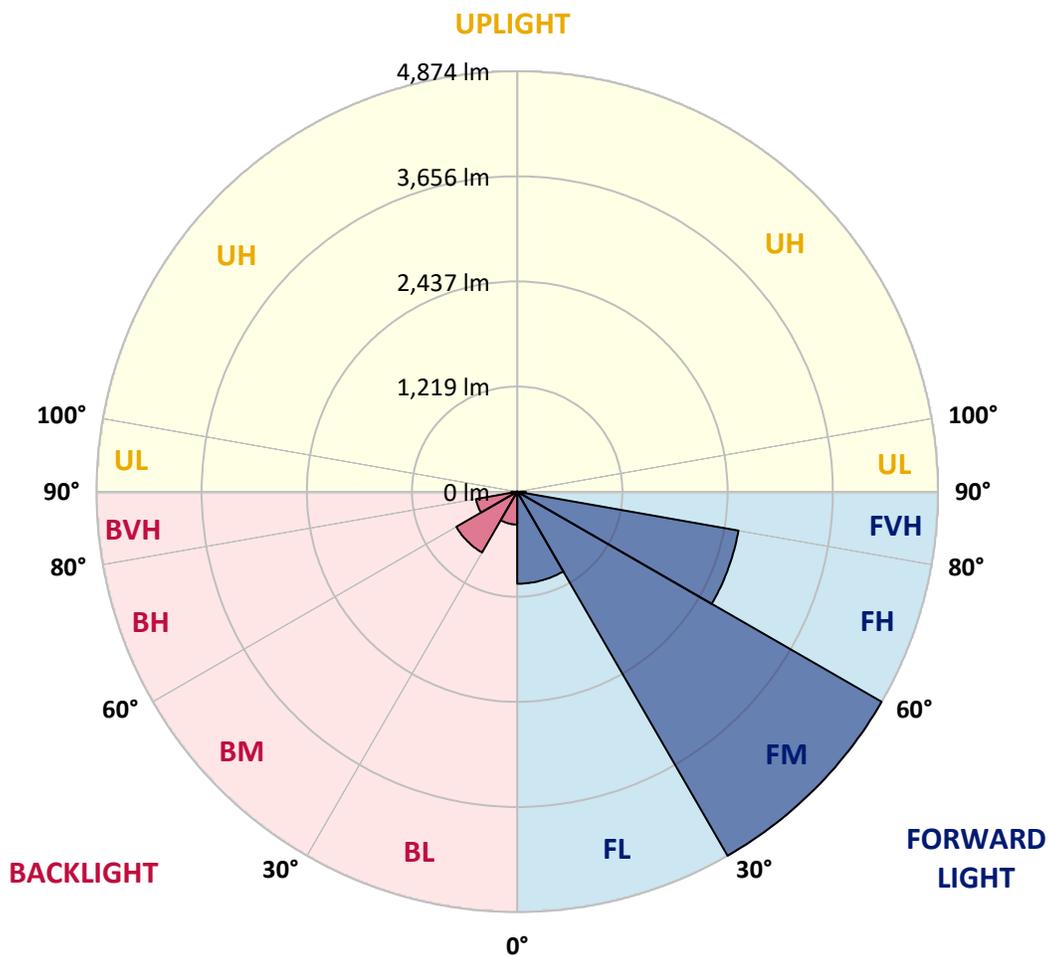
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1067.1 | 10.3 | | | |
| FM | (30°-60°) | 4874.1 | 46.9 | | | |
| FH | (60°-80°) | 2602.5 | 25.0 | | | G2/5000 |
| FVH | (80°-90°) | 98.8 | 1.0 | | | G1/100 |
| BL | (0°-30°) | 381.3 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 814.2 | 7.8 | B1/1000 | | |
| BH | (60°-80°) | 484.4 | 4.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 68.5 | 0.7 | | | G1/100 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 |
| 2.5° | 1259.7 | 1240.7 | 1238.9 | 1211.0 | 1204.7 | 1151.4 | 1112.3 | 1071.3 | 1024.8 | 1015.6 | 978.9 |
| 5° | 1618.1 | 1616.4 | 1592.0 | 1546.5 | 1510.9 | 1419.9 | 1329.9 | 1234.7 | 1130.3 | 1113.3 | 1030.8 |
| 7.5° | 1940.5 | 1937.7 | 1919.0 | 1870.0 | 1818.5 | 1706.7 | 1578.3 | 1432.2 | 1262.9 | 1237.8 | 1101.0 |
| 10° | 2185.4 | 2184.3 | 2178.0 | 2142.0 | 2098.2 | 1991.0 | 1849.2 | 1649.9 | 1417.0 | 1382.8 | 1188.8 |
| 12.5° | 2374.4 | 2376.6 | 2380.8 | 2368.1 | 2347.3 | 2255.9 | 2110.6 | 1880.6 | 1581.4 | 1547.6 | 1286.5 |
| 15° | 2502.5 | 2508.9 | 2530.7 | 2548.7 | 2559.6 | 2503.6 | 2362.8 | 2116.6 | 1765.6 | 1725.0 | 1394.8 |
| 17.5° | 2567.1 | 2574.1 | 2611.9 | 2666.2 | 2716.3 | 2710.6 | 2598.8 | 2341.6 | 1942.3 | 1903.2 | 1511.2 |
| 20° | 2622.8 | 2628.1 | 2670.4 | 2735.7 | 2824.2 | 2863.4 | 2800.6 | 2558.2 | 2136.0 | 2089.4 | 1634.7 |
| 22.5° | 2784.4 | 2791.1 | 2803.8 | 2840.8 | 2919.1 | 2991.1 | 2960.7 | 2763.2 | 2313.4 | 2270.0 | 1751.8 |
| 25° | 3096.2 | 3104.3 | 3076.8 | 3045.4 | 3060.2 | 3110.3 | 3116.0 | 2950.2 | 2493.3 | 2444.3 | 1877.8 |
| 27.5° | 3471.9 | 3483.5 | 3436.6 | 3355.8 | 3285.3 | 3265.9 | 3259.2 | 3103.3 | 2665.1 | 2608.3 | 2002.3 |
| 30° | 3839.8 | 3859.9 | 3798.9 | 3694.1 | 3564.7 | 3473.7 | 3406.3 | 3253.2 | 2834.5 | 2780.1 | 2119.8 |
| 32.5° | 4199.3 | 4191.2 | 4102.6 | 4000.3 | 3848.6 | 3734.7 | 3571.7 | 3414.0 | 3024.9 | 2962.5 | 2236.5 |
| 35° | 4445.5 | 4448.3 | 4366.1 | 4244.8 | 4100.2 | 4012.7 | 3793.3 | 3587.6 | 3219.3 | 3161.8 | 2369.2 |
| 37.5° | 4655.1 | 4642.0 | 4548.9 | 4435.6 | 4311.1 | 4273.7 | 4052.5 | 3778.8 | 3429.9 | 3367.1 | 2510.3 |
| 40° | 4724.9 | 4709.7 | 4648.7 | 4567.2 | 4467.4 | 4464.2 | 4338.6 | 3995.4 | 3668.0 | 3605.9 | 2669.4 |
| 42.5° | 4682.6 | 4663.2 | 4638.1 | 4615.9 | 4585.2 | 4599.3 | 4607.4 | 4249.4 | 3929.8 | 3860.3 | 2853.5 |
| 45° | 4526.3 | 4497.0 | 4514.7 | 4563.0 | 4629.7 | 4709.4 | 4850.1 | 4530.5 | 4222.9 | 4164.7 | 3069.7 |
| 47.5° | 4286.1 | 4259.6 | 4314.6 | 4418.0 | 4599.3 | 4801.1 | 5079.8 | 4841.0 | 4572.9 | 4515.0 | 3377.7 |
| 50° | 3948.1 | 3955.9 | 4034.6 | 4222.6 | 4496.7 | 4843.4 | 5362.7 | 5251.9 | 5081.6 | 5027.6 | 3797.8 |
| 52.5° | 3393.6 | 3395.0 | 3616.5 | 3925.2 | 4314.6 | 4821.6 | 5519.7 | 5777.2 | 5776.1 | 5710.9 | 4197.9 |
| 55° | 2878.5 | 2909.9 | 3085.3 | 3495.5 | 4019.7 | 4734.1 | 5629.4 | 6032.6 | 6232.3 | 6155.7 | 4570.8 |
| 57.5° | 2375.5 | 2393.9 | 2560.0 | 2972.0 | 3598.9 | 4500.9 | 5741.9 | 6339.2 | 6757.9 | 6709.6 | 5034.3 |
| 60° | 1803.3 | 1831.5 | 2003.3 | 2384.0 | 3060.6 | 4087.1 | 5752.5 | 6659.1 | 7386.2 | 7337.5 | 5551.8 |
| 62.5° | 1170.5 | 1219.1 | 1380.0 | 1736.7 | 2409.4 | 3492.0 | 5507.0 | 6868.3 | 7981.6 | 7964.3 | 6011.1 |
| 65° | 672.7 | 709.4 | 821.2 | 1096.4 | 1662.2 | 2744.8 | 4923.2 | 6787.9 | 8348.1 | 8338.3 | 6182.9 |
| 66° | 549.6 | 572.5 | 658.3 | 856.9 | 1371.5 | 2410.4 | 4583.8 | 6618.2 | 8384.5 | 8384.8 | 6163.1 |
| 67.5° | 439.5 | 449.8 | 488.2 | 613.5 | 1012.1 | 1910.6 | 3977.4 | 6243.9 | 8339.3 | 8351.7 | 6035.8 |
| 70° | 363.7 | 369.0 | 381.0 | 411.3 | 552.4 | 1152.1 | 2823.2 | 5271.3 | 7886.0 | 7895.5 | 5538.7 |
| 72.5° | 326.3 | 329.5 | 334.1 | 338.3 | 389.8 | 643.8 | 1724.3 | 4216.9 | 6914.2 | 6926.5 | 4781.4 |
| 75° | 295.6 | 297.4 | 296.7 | 297.0 | 327.0 | 410.3 | 891.1 | 3148.4 | 5590.6 | 5565.9 | 3662.7 |
| 77.5° | 259.6 | 261.4 | 257.9 | 258.6 | 289.3 | 315.4 | 443.4 | 2204.1 | 3772.8 | 3598.5 | 2063.7 |
| 80° | 219.4 | 220.8 | 219.4 | 221.9 | 251.9 | 238.1 | 257.9 | 1240.0 | 1668.2 | 1577.9 | 733.7 |
| 82.5° | 165.8 | 171.8 | 176.0 | 185.9 | 207.4 | 169.3 | 172.5 | 482.9 | 508.0 | 483.6 | 225.1 |
| 85° | 72.7 | 88.5 | 132.6 | 142.2 | 155.9 | 101.6 | 113.2 | 196.8 | 206.7 | 200.4 | 81.8 |
| 87.5° | 19.0 | 20.8 | 65.6 | 82.5 | 86.4 | 45.9 | 58.9 | 89.6 | 94.5 | 89.6 | 27.2 |
| 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-SA2-090-727-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 | 948.9 |
| 2.5° | 959.5 | 942.2 | 911.2 | 883.7 | 862.9 | 848.7 | 834.6 | 827.6 | 823.3 | 819.1 | 819.8 |
| 5° | 990.2 | 955.3 | 902.0 | 864.3 | 843.1 | 829.7 | 822.6 | 819.8 | 818.1 | 813.8 | 813.8 |
| 7.5° | 1036.4 | 987.0 | 913.7 | 874.9 | 858.3 | 848.0 | 843.8 | 842.4 | 840.3 | 835.3 | 836.0 |
| 10° | 1094.6 | 1025.5 | 938.0 | 900.3 | 885.1 | 873.8 | 867.8 | 865.7 | 861.8 | 856.2 | 856.9 |
| 12.5° | 1163.1 | 1073.1 | 970.1 | 930.6 | 912.2 | 897.1 | 887.2 | 881.2 | 874.5 | 867.1 | 867.4 |
| 15° | 1237.8 | 1125.0 | 1004.7 | 957.8 | 932.7 | 911.5 | 895.7 | 885.4 | 874.9 | 865.7 | 865.3 |
| 17.5° | 1313.7 | 1175.1 | 1031.1 | 972.6 | 938.7 | 910.8 | 889.3 | 873.4 | 860.4 | 849.1 | 848.0 |
| 20° | 1395.5 | 1220.2 | 1045.9 | 971.2 | 927.4 | 894.3 | 865.7 | 845.9 | 831.5 | 820.2 | 818.4 |
| 22.5° | 1478.8 | 1262.5 | 1048.4 | 956.7 | 902.4 | 861.8 | 831.8 | 809.9 | 795.1 | 783.5 | 779.3 |
| 25° | 1555.0 | 1295.3 | 1038.2 | 928.8 | 867.4 | 823.7 | 794.4 | 772.2 | 760.2 | 746.4 | 742.2 |
| 27.5° | 1624.5 | 1318.3 | 1017.7 | 893.2 | 828.3 | 785.3 | 757.7 | 738.7 | 725.6 | 715.1 | 711.5 |
| 30° | 1686.9 | 1330.6 | 984.2 | 850.9 | 788.1 | 748.9 | 725.6 | 712.6 | 701.3 | 687.9 | 685.4 |
| 32.5° | 1746.2 | 1330.6 | 941.2 | 804.7 | 748.2 | 716.8 | 703.1 | 694.9 | 682.2 | 669.2 | 665.7 |
| 35° | 1805.4 | 1322.5 | 890.4 | 756.3 | 711.5 | 693.9 | 693.2 | 683.7 | 664.3 | 646.6 | 642.0 |
| 37.5° | 1867.9 | 1305.9 | 833.2 | 711.2 | 681.5 | 683.7 | 689.7 | 668.5 | 641.0 | 615.9 | 609.2 |
| 40° | 1938.4 | 1283.0 | 774.0 | 672.0 | 656.5 | 679.1 | 680.1 | 646.6 | 593.0 | 570.1 | 564.1 |
| 42.5° | 2021.3 | 1260.1 | 718.9 | 637.4 | 636.7 | 665.3 | 662.1 | 599.3 | 567.2 | 555.6 | 552.4 |
| 45° | 2130.3 | 1247.0 | 666.7 | 604.6 | 621.2 | 643.1 | 631.4 | 573.2 | 559.8 | 553.1 | 550.3 |
| 47.5° | 2302.1 | 1253.7 | 618.7 | 578.5 | 605.7 | 620.9 | 574.3 | 562.7 | 553.1 | 545.0 | 542.2 |
| 50° | 2517.3 | 1249.8 | 579.9 | 560.5 | 588.1 | 597.6 | 548.5 | 548.9 | 544.0 | 534.8 | 530.6 |
| 52.5° | 2679.2 | 1219.5 | 554.9 | 550.3 | 572.5 | 556.3 | 532.3 | 535.5 | 533.0 | 519.6 | 515.0 |
| 55° | 2835.5 | 1193.4 | 542.2 | 546.4 | 561.2 | 504.8 | 513.3 | 521.0 | 518.6 | 505.5 | 503.4 |
| 57.5° | 3029.9 | 1188.5 | 534.4 | 547.5 | 551.7 | 479.1 | 494.9 | 505.2 | 503.4 | 497.7 | 496.7 |
| 60° | 3268.0 | 1189.9 | 527.4 | 549.3 | 541.1 | 460.0 | 477.6 | 490.7 | 491.8 | 490.7 | 490.0 |
| 62.5° | 3398.9 | 1151.4 | 509.7 | 544.3 | 522.4 | 443.4 | 459.7 | 478.7 | 479.1 | 481.2 | 480.8 |
| 65° | 3287.8 | 1036.4 | 476.9 | 527.0 | 491.0 | 429.7 | 444.1 | 464.9 | 459.7 | 469.2 | 469.2 |
| 66° | 3179.8 | 970.1 | 460.7 | 515.7 | 477.6 | 424.4 | 439.2 | 457.9 | 451.2 | 464.2 | 464.2 |
| 67.5° | 2959.3 | 858.3 | 431.4 | 491.8 | 458.6 | 417.0 | 433.5 | 446.2 | 437.1 | 456.5 | 455.1 |
| 70° | 2556.5 | 663.9 | 372.5 | 437.4 | 427.2 | 406.0 | 425.8 | 423.0 | 409.6 | 439.2 | 433.5 |
| 72.5° | 2155.4 | 504.5 | 299.1 | 366.2 | 379.6 | 392.3 | 414.8 | 393.3 | 376.4 | 397.2 | 384.9 |
| 75° | 1672.4 | 379.2 | 236.4 | 284.7 | 320.7 | 370.8 | 401.8 | 359.1 | 334.8 | 332.7 | 326.0 |
| 77.5° | 904.1 | 260.3 | 187.3 | 217.3 | 254.7 | 343.9 | 393.0 | 322.4 | 285.7 | 277.3 | 272.0 |
| 80° | 358.1 | 169.3 | 136.2 | 164.7 | 178.1 | 305.1 | 371.8 | 279.7 | 235.6 | 227.2 | 219.1 |
| 82.5° | 147.8 | 100.2 | 87.8 | 110.4 | 116.1 | 261.0 | 333.7 | 229.3 | 182.0 | 251.9 | 267.4 |
| 85° | 63.5 | 55.0 | 52.2 | 57.1 | 65.6 | 183.1 | 265.6 | 175.0 | 196.5 | 175.3 | 139.3 |
| 87.5° | 19.0 | 23.3 | 22.2 | 21.9 | 24.0 | 43.7 | 141.5 | 97.4 | 144.3 | 54.7 | 40.9 |
| 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)