

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: P1209081

Luminaire Tested: UPW-SA2-090-740-U-T2R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-740-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 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: 12425 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

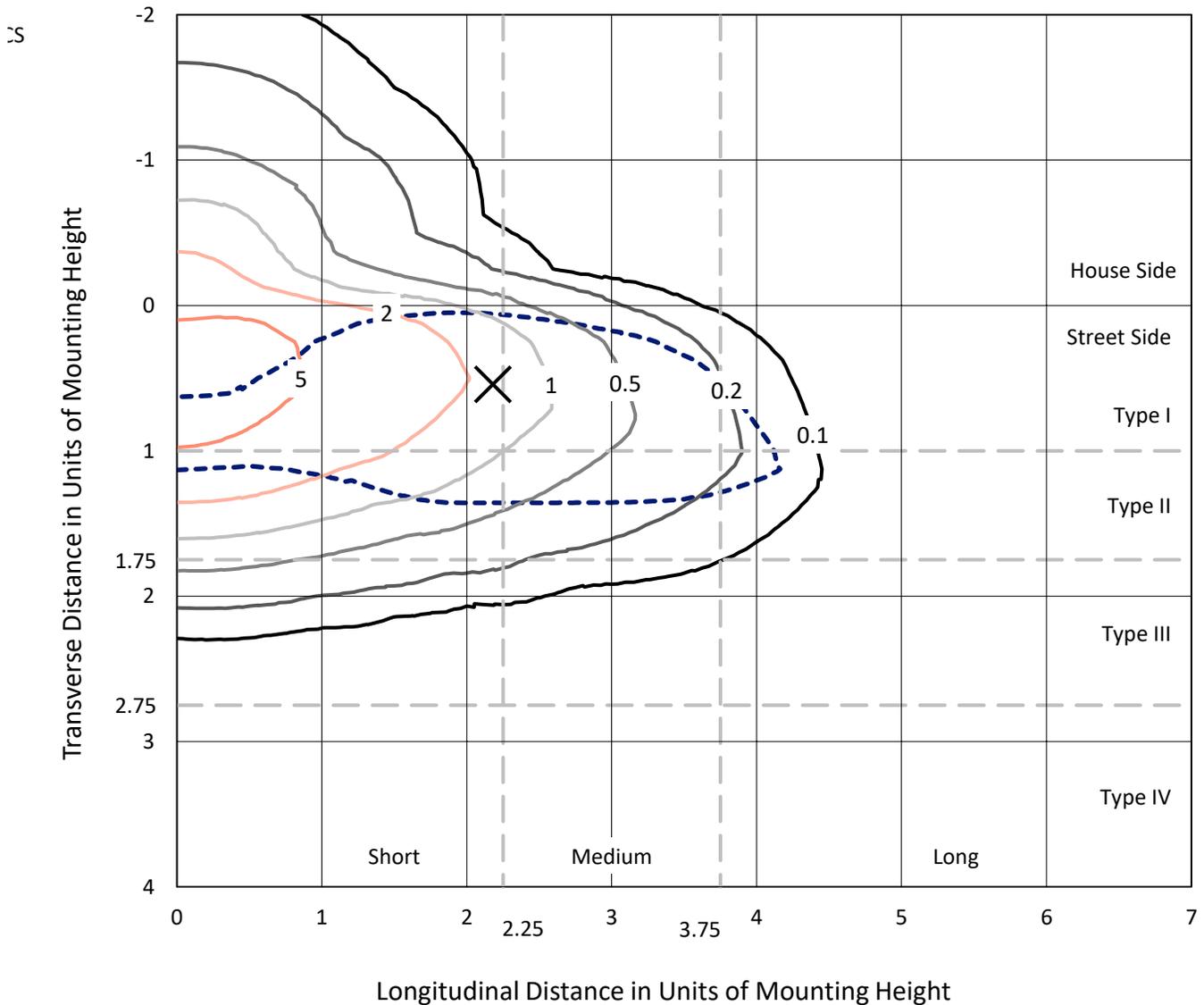
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

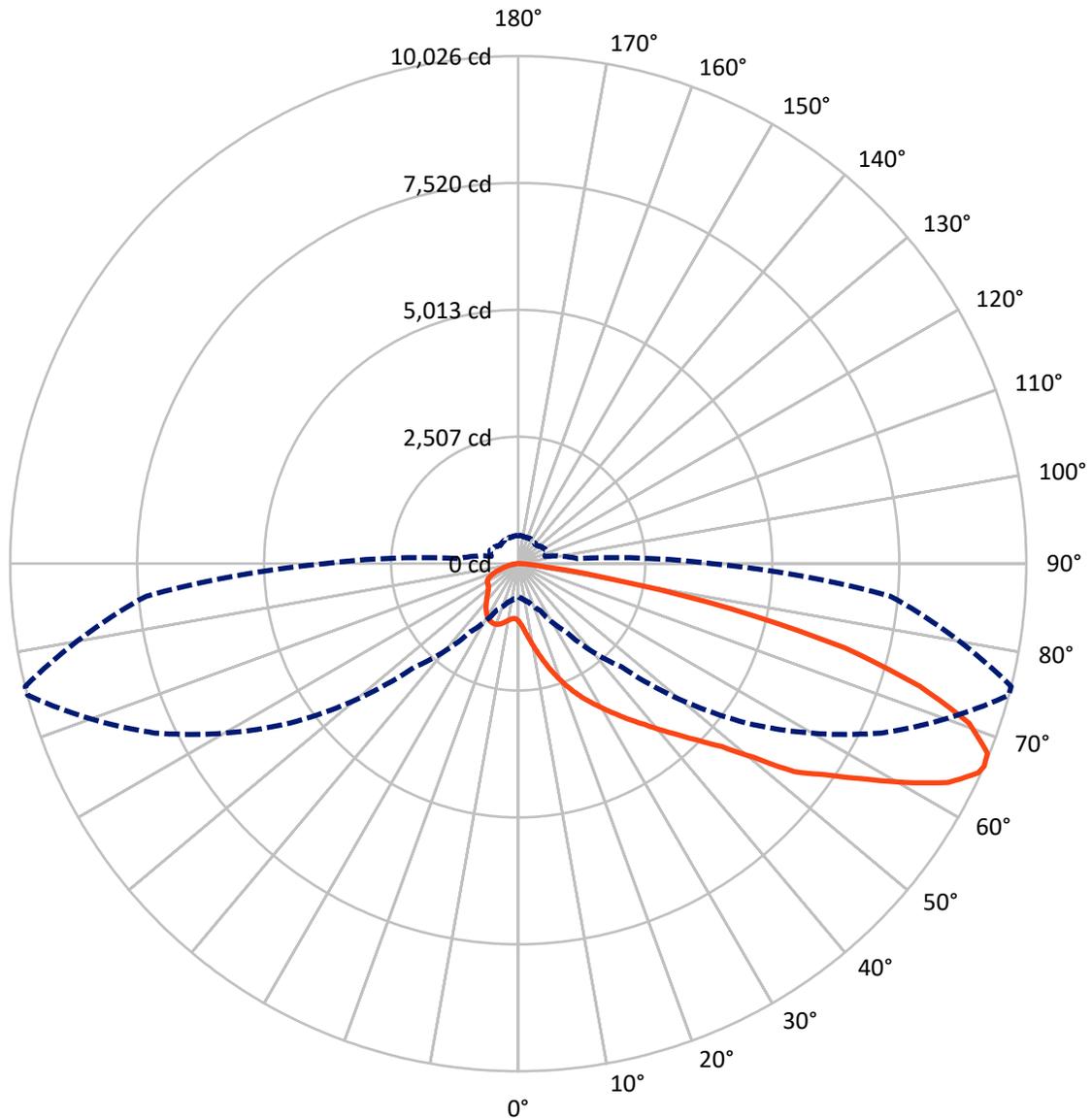
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 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 | 2090.7 | 0.0 | 2090.7 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 10334.3 | 0.0 | 10334.3 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 12425.0 | 0.0 | 12425.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 137.2 | 1.1 |
| 10°-20° | 541.8 | 4.4 |
| 20°-30° | 1052.9 | 8.5 |
| 30°-40° | 1718.6 | 13.8 |
| 40°-50° | 2348.1 | 18.9 |
| 50°-60° | 2735.0 | 22.0 |
| 60°-70° | 2452.0 | 19.7 |
| 70°-80° | 1239.1 | 10.0 |
| 80°-90° | 200.1 | 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° | 12425.0 | 100.0 |
| 0°-180° | 12425.0 | 100.0 |

Coefficient of Utilization



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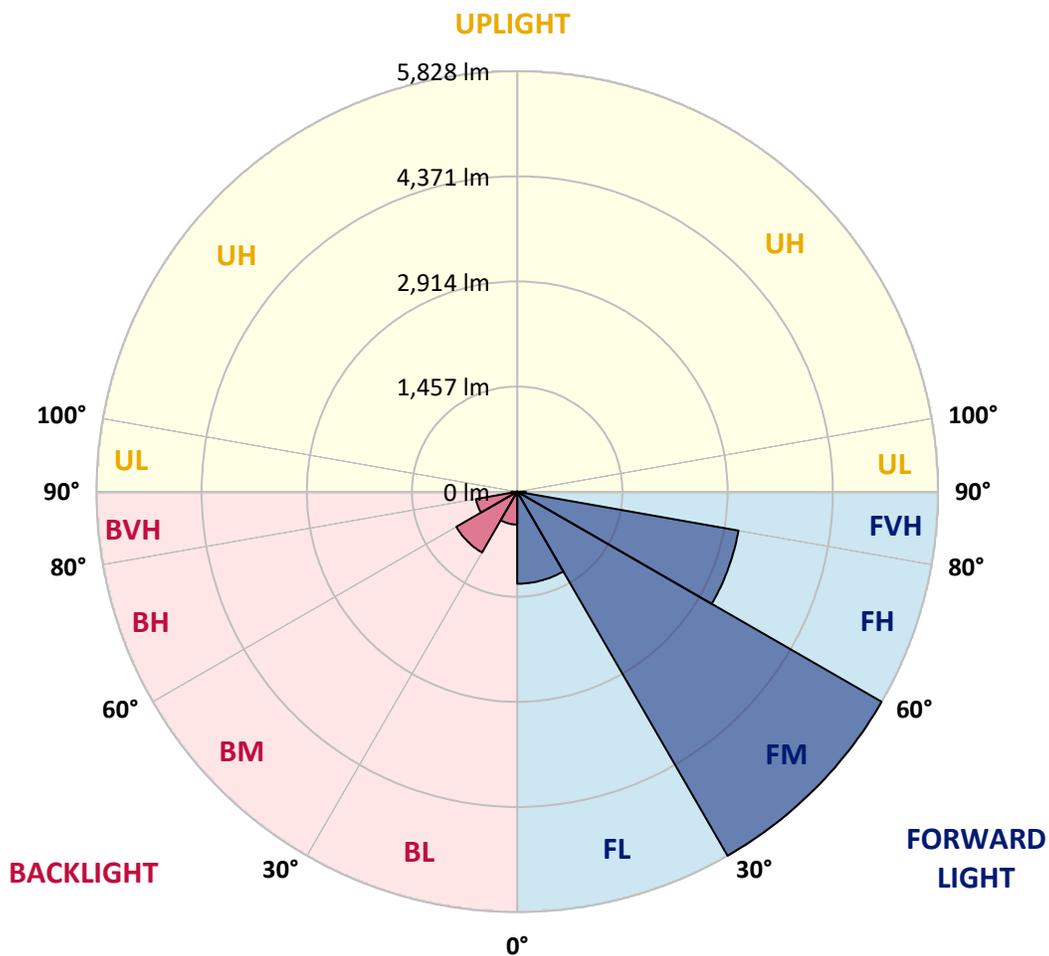
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1276.0 | 10.3 | | | |
| FM | (30°-60°) | 5828.2 | 46.9 | | | |
| FH | (60°-80°) | 3111.9 | 25.0 | | | G2/5000 |
| FVH | (80°-90°) | 118.2 | 1.0 | | | G2/225 |
| BL | (0°-30°) | 456.0 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 973.6 | 7.8 | B1/1000 | | |
| BH | (60°-80°) | 579.2 | 4.7 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 81.9 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 |
| 2.5° | 1506.3 | 1483.5 | 1481.4 | 1448.1 | 1440.5 | 1376.8 | 1330.0 | 1281.1 | 1225.4 | 1214.4 | 1170.5 |
| 5° | 1934.9 | 1932.8 | 1903.7 | 1849.2 | 1806.6 | 1697.8 | 1590.2 | 1476.4 | 1351.5 | 1331.2 | 1232.5 |
| 7.5° | 2320.4 | 2317.0 | 2294.7 | 2236.0 | 2174.5 | 2040.7 | 1887.2 | 1712.6 | 1510.1 | 1480.1 | 1316.5 |
| 10° | 2613.1 | 2611.9 | 2604.3 | 2561.3 | 2509.0 | 2380.7 | 2211.2 | 1972.8 | 1694.4 | 1653.5 | 1421.5 |
| 12.5° | 2839.2 | 2841.8 | 2846.8 | 2831.6 | 2806.8 | 2697.5 | 2523.7 | 2248.7 | 1891.0 | 1850.5 | 1538.4 |
| 15° | 2992.4 | 2999.9 | 3026.1 | 3047.6 | 3060.7 | 2993.6 | 2825.3 | 2530.9 | 2111.2 | 2062.7 | 1667.9 |
| 17.5° | 3069.5 | 3078.0 | 3123.1 | 3188.1 | 3248.0 | 3241.2 | 3107.5 | 2800.0 | 2322.5 | 2275.7 | 1807.1 |
| 20° | 3136.2 | 3142.5 | 3193.1 | 3271.2 | 3377.1 | 3423.9 | 3348.8 | 3059.0 | 2554.1 | 2498.4 | 1954.7 |
| 22.5° | 3329.4 | 3337.4 | 3352.6 | 3396.9 | 3490.5 | 3576.6 | 3540.3 | 3304.1 | 2766.3 | 2714.4 | 2094.7 |
| 25° | 3702.3 | 3712.0 | 3679.1 | 3641.5 | 3659.2 | 3719.1 | 3725.9 | 3527.6 | 2981.4 | 2922.8 | 2245.3 |
| 27.5° | 4151.5 | 4165.4 | 4109.3 | 4012.7 | 3928.4 | 3905.2 | 3897.2 | 3710.7 | 3186.8 | 3118.9 | 2394.2 |
| 30° | 4591.5 | 4615.5 | 4542.5 | 4417.2 | 4262.4 | 4153.6 | 4073.0 | 3890.0 | 3389.3 | 3324.3 | 2534.7 |
| 32.5° | 5021.3 | 5011.6 | 4905.7 | 4783.4 | 4602.0 | 4465.8 | 4270.9 | 4082.3 | 3617.1 | 3542.4 | 2674.3 |
| 35° | 5315.7 | 5319.1 | 5220.8 | 5075.7 | 4902.8 | 4798.1 | 4535.8 | 4289.9 | 3849.5 | 3780.7 | 2832.9 |
| 37.5° | 5566.3 | 5550.7 | 5439.3 | 5303.9 | 5155.0 | 5110.3 | 4845.8 | 4518.5 | 4101.3 | 4026.2 | 3001.6 |
| 40° | 5649.8 | 5631.7 | 5558.7 | 5461.2 | 5341.9 | 5338.1 | 5187.9 | 4777.5 | 4386.0 | 4311.8 | 3191.9 |
| 42.5° | 5599.2 | 5576.0 | 5546.0 | 5519.5 | 5482.8 | 5499.6 | 5509.3 | 5081.2 | 4699.0 | 4615.9 | 3412.1 |
| 45° | 5412.3 | 5377.3 | 5398.4 | 5456.2 | 5535.9 | 5631.2 | 5799.5 | 5417.4 | 5049.5 | 4979.9 | 3670.6 |
| 47.5° | 5125.1 | 5093.4 | 5159.2 | 5282.8 | 5499.6 | 5740.9 | 6074.1 | 5788.6 | 5468.0 | 5398.8 | 4038.9 |
| 50° | 4721.0 | 4730.2 | 4824.3 | 5049.1 | 5376.9 | 5791.5 | 6412.4 | 6280.0 | 6076.2 | 6011.7 | 4541.3 |
| 52.5° | 4057.9 | 4059.5 | 4324.4 | 4693.5 | 5159.2 | 5765.4 | 6600.1 | 6908.1 | 6906.8 | 6828.8 | 5019.6 |
| 55° | 3442.0 | 3479.6 | 3689.2 | 4179.8 | 4806.6 | 5660.8 | 6731.3 | 7213.5 | 7452.2 | 7360.7 | 5465.5 |
| 57.5° | 2840.5 | 2862.4 | 3061.1 | 3553.8 | 4303.4 | 5381.9 | 6865.9 | 7580.0 | 8080.7 | 8022.9 | 6019.7 |
| 60° | 2156.3 | 2190.1 | 2395.5 | 2850.6 | 3659.7 | 4887.2 | 6878.5 | 7962.6 | 8832.0 | 8773.8 | 6638.5 |
| 62.5° | 1399.6 | 1457.8 | 1650.1 | 2076.6 | 2881.0 | 4175.5 | 6585.0 | 8212.7 | 9544.0 | 9523.3 | 7187.7 |
| 65° | 804.4 | 848.3 | 982.0 | 1311.0 | 1987.6 | 3282.1 | 5886.9 | 8116.6 | 9982.3 | 9970.4 | 7393.2 |
| 66° | 657.2 | 684.6 | 787.1 | 1024.6 | 1640.0 | 2882.3 | 5481.1 | 7913.7 | 10025.7 | 10026.1 | 7369.5 |
| 67.5° | 525.6 | 537.8 | 583.8 | 733.5 | 1210.2 | 2284.6 | 4756.0 | 7466.1 | 9971.7 | 9986.5 | 7217.3 |
| 70° | 434.9 | 441.2 | 455.6 | 491.8 | 660.6 | 1377.6 | 3375.8 | 6303.2 | 9429.7 | 9441.1 | 6622.9 |
| 72.5° | 390.2 | 394.0 | 399.5 | 404.5 | 466.1 | 769.8 | 2061.8 | 5042.4 | 8267.6 | 8282.3 | 5717.3 |
| 75° | 353.5 | 355.6 | 354.7 | 355.2 | 391.0 | 490.6 | 1065.5 | 3764.7 | 6684.9 | 6655.4 | 4379.7 |
| 77.5° | 310.5 | 312.6 | 308.3 | 309.2 | 345.9 | 377.1 | 530.2 | 2635.5 | 4511.3 | 4302.9 | 2467.6 |
| 80° | 262.4 | 264.1 | 262.4 | 265.3 | 301.2 | 284.7 | 308.3 | 1482.7 | 1994.8 | 1886.8 | 877.4 |
| 82.5° | 198.3 | 205.4 | 210.5 | 222.3 | 248.0 | 202.5 | 206.3 | 577.5 | 607.4 | 578.3 | 269.1 |
| 85° | 86.9 | 105.9 | 158.6 | 170.0 | 186.4 | 121.5 | 135.4 | 235.4 | 247.2 | 239.6 | 97.9 |
| 87.5° | 22.8 | 24.9 | 78.5 | 98.7 | 103.3 | 54.8 | 70.4 | 107.1 | 113.0 | 107.1 | 32.5 |
| 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-SA2-090-740-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 | 1134.7 |
| 2.5° | 1147.3 | 1126.7 | 1089.5 | 1056.6 | 1031.8 | 1014.9 | 998.0 | 989.6 | 984.5 | 979.5 | 980.3 |
| 5° | 1184.0 | 1142.3 | 1078.6 | 1033.4 | 1008.1 | 992.1 | 983.7 | 980.3 | 978.2 | 973.1 | 973.1 |
| 7.5° | 1239.3 | 1180.2 | 1092.5 | 1046.1 | 1026.3 | 1014.0 | 1009.0 | 1007.3 | 1004.8 | 998.9 | 999.7 |
| 10° | 1308.9 | 1226.2 | 1121.6 | 1076.5 | 1058.3 | 1044.8 | 1037.7 | 1035.1 | 1030.5 | 1023.7 | 1024.6 |
| 12.5° | 1390.7 | 1283.2 | 1160.0 | 1112.7 | 1090.8 | 1072.7 | 1060.9 | 1053.7 | 1045.7 | 1036.8 | 1037.2 |
| 15° | 1480.1 | 1345.2 | 1201.3 | 1145.2 | 1115.3 | 1090.0 | 1071.0 | 1058.8 | 1046.1 | 1035.1 | 1034.7 |
| 17.5° | 1570.8 | 1405.1 | 1233.0 | 1162.9 | 1122.5 | 1089.1 | 1063.4 | 1044.4 | 1028.8 | 1015.3 | 1014.0 |
| 20° | 1668.7 | 1459.1 | 1250.7 | 1161.3 | 1109.0 | 1069.3 | 1035.1 | 1011.5 | 994.2 | 980.7 | 978.6 |
| 22.5° | 1768.2 | 1509.7 | 1253.6 | 1144.0 | 1079.0 | 1030.5 | 994.6 | 968.5 | 950.8 | 936.9 | 931.8 |
| 25° | 1859.4 | 1548.9 | 1241.4 | 1110.6 | 1037.2 | 984.9 | 949.9 | 923.4 | 909.0 | 892.6 | 887.5 |
| 27.5° | 1942.5 | 1576.3 | 1216.9 | 1068.0 | 990.4 | 939.0 | 906.1 | 883.3 | 867.7 | 855.0 | 850.8 |
| 30° | 2017.1 | 1591.1 | 1176.9 | 1017.4 | 942.3 | 895.5 | 867.7 | 852.1 | 838.6 | 822.5 | 819.6 |
| 32.5° | 2088.0 | 1591.1 | 1125.4 | 962.2 | 894.7 | 857.1 | 840.7 | 831.0 | 815.8 | 800.2 | 796.0 |
| 35° | 2158.8 | 1581.4 | 1064.7 | 904.4 | 850.8 | 829.7 | 828.9 | 817.5 | 794.3 | 773.2 | 767.7 |
| 37.5° | 2233.5 | 1561.6 | 996.3 | 850.4 | 814.9 | 817.5 | 824.6 | 799.3 | 766.4 | 736.5 | 728.5 |
| 40° | 2317.9 | 1534.1 | 925.5 | 803.6 | 785.0 | 812.0 | 813.3 | 773.2 | 709.1 | 681.7 | 674.5 |
| 42.5° | 2417.0 | 1506.7 | 859.7 | 762.2 | 761.4 | 795.5 | 791.7 | 716.7 | 678.3 | 664.4 | 660.6 |
| 45° | 2547.3 | 1491.1 | 797.2 | 723.0 | 742.8 | 769.0 | 755.0 | 685.4 | 669.4 | 661.4 | 658.0 |
| 47.5° | 2752.8 | 1499.1 | 739.9 | 691.8 | 724.3 | 742.4 | 686.7 | 672.8 | 661.4 | 651.7 | 648.3 |
| 50° | 3010.1 | 1494.5 | 693.5 | 670.3 | 703.2 | 714.6 | 655.9 | 656.3 | 650.4 | 639.5 | 634.4 |
| 52.5° | 3203.7 | 1458.2 | 663.5 | 658.0 | 684.6 | 665.2 | 636.5 | 640.3 | 637.4 | 621.3 | 615.9 |
| 55° | 3390.6 | 1427.0 | 648.3 | 653.4 | 671.1 | 603.6 | 613.7 | 623.0 | 620.1 | 604.5 | 601.9 |
| 57.5° | 3623.0 | 1421.1 | 639.0 | 654.7 | 659.7 | 572.8 | 591.8 | 604.0 | 601.9 | 595.2 | 593.9 |
| 60° | 3907.7 | 1422.8 | 630.6 | 656.8 | 647.1 | 550.0 | 571.1 | 586.7 | 588.0 | 586.7 | 585.9 |
| 62.5° | 4064.2 | 1376.8 | 609.5 | 650.9 | 624.7 | 530.2 | 549.6 | 572.4 | 572.8 | 575.4 | 574.9 |
| 65° | 3931.3 | 1239.3 | 570.3 | 630.2 | 587.2 | 513.8 | 531.1 | 556.0 | 549.6 | 561.0 | 561.0 |
| 66° | 3802.2 | 1160.0 | 550.9 | 616.7 | 571.1 | 507.4 | 525.2 | 547.5 | 539.5 | 555.1 | 555.1 |
| 67.5° | 3538.6 | 1026.3 | 515.9 | 588.0 | 548.4 | 498.6 | 518.4 | 533.6 | 522.6 | 545.8 | 544.1 |
| 70° | 3056.9 | 793.9 | 445.4 | 523.1 | 510.8 | 485.5 | 509.1 | 505.8 | 489.7 | 525.2 | 518.4 |
| 72.5° | 2577.3 | 603.2 | 357.7 | 437.8 | 453.9 | 469.1 | 496.1 | 470.3 | 450.1 | 475.0 | 460.2 |
| 75° | 1999.8 | 453.5 | 282.6 | 340.4 | 383.4 | 443.3 | 480.4 | 429.4 | 400.3 | 397.8 | 389.8 |
| 77.5° | 1081.1 | 311.3 | 224.0 | 259.8 | 304.6 | 411.3 | 469.9 | 385.5 | 341.7 | 331.5 | 325.2 |
| 80° | 428.1 | 202.5 | 162.8 | 197.0 | 213.0 | 364.9 | 444.6 | 334.5 | 281.8 | 271.6 | 261.9 |
| 82.5° | 176.7 | 119.8 | 105.0 | 132.0 | 138.8 | 312.1 | 399.0 | 274.2 | 217.7 | 301.2 | 319.7 |
| 85° | 75.9 | 65.8 | 62.4 | 68.3 | 78.5 | 218.9 | 317.6 | 209.2 | 235.0 | 209.6 | 166.6 |
| 87.5° | 22.8 | 27.8 | 26.6 | 26.2 | 28.7 | 52.3 | 169.1 | 116.4 | 172.5 | 65.4 | 48.9 |
| 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)