

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P257955

Luminaire Tested: **ARCH-L-AF72-190-D-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-190-D-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23752.9 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

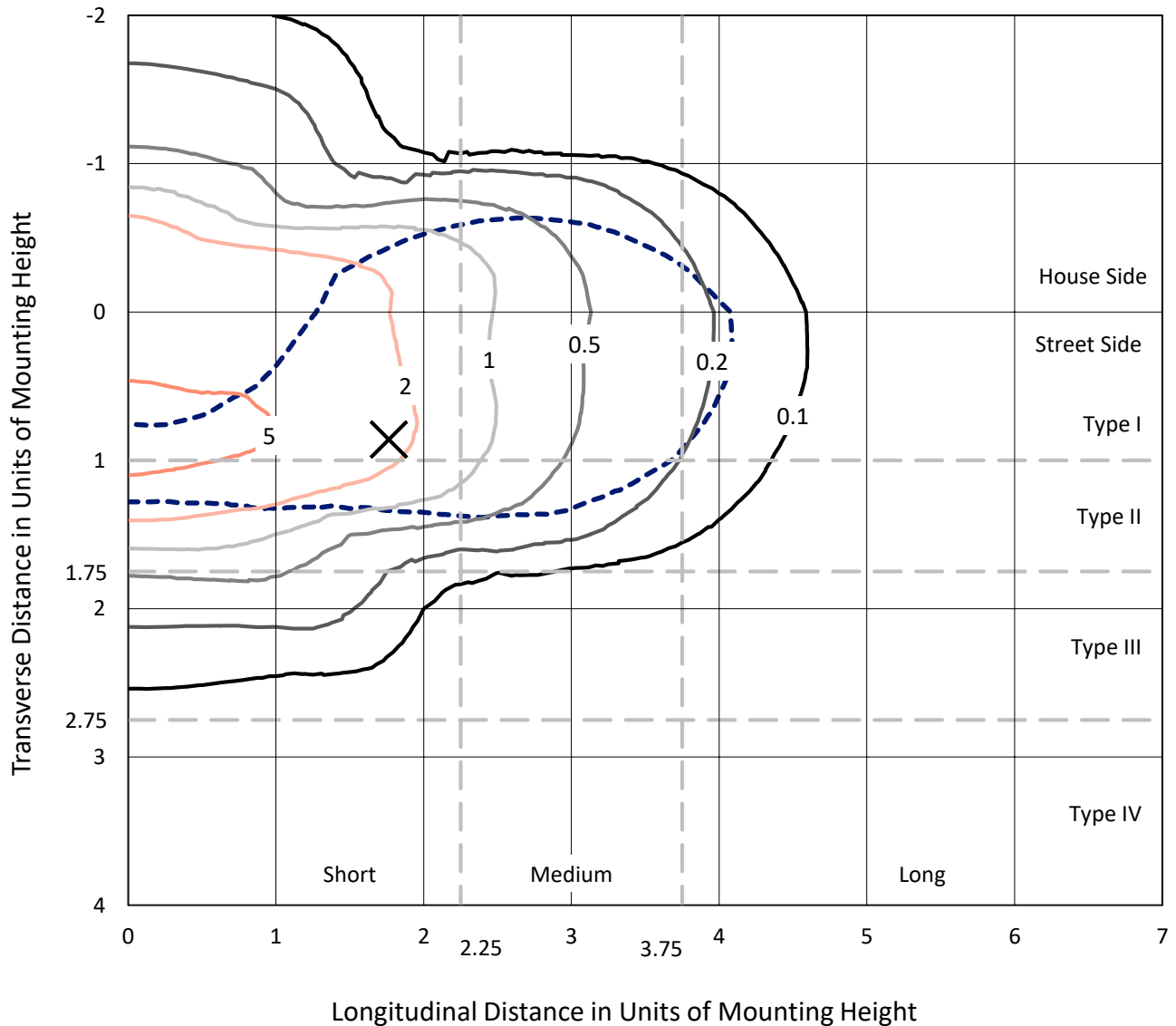
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

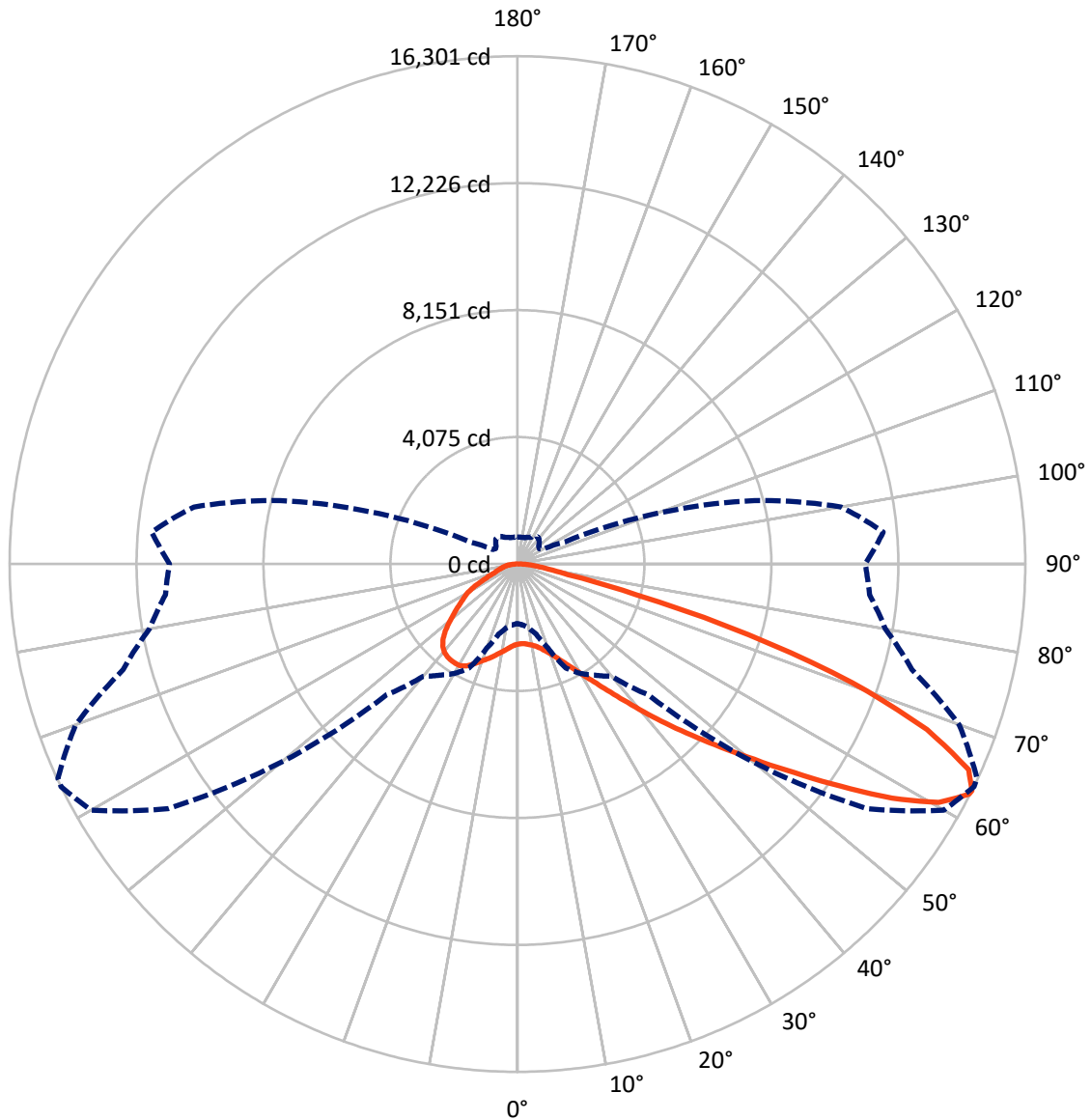
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6982.5 | 0.0 | 6982.5 |
| | % Fixture | 29.4 | 0.0 | 29.4 |
| Street Side | Lumens | 16770.4 | 0.0 | 16770.4 |
| | % Fixture | 70.6 | 0.0 | 70.6 |
| Total | Lumens | 23752.9 | 0.0 | 23752.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 256.8 | 1.1 |
| 10°-20° | 855.5 | 3.6 |
| 20°-30° | 1605.8 | 6.8 |
| 30°-40° | 2691.5 | 11.3 |
| 40°-50° | 4515.7 | 19.0 |
| 50°-60° | 5724.6 | 24.1 |
| 60°-70° | 5050.0 | 21.3 |
| 70°-80° | 2606.9 | 11.0 |
| 80°-90° | 446.1 | 1.9 |
| 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° | 23752.9 | 100.0 |
| 0°-180° | 23752.9 | 100.0 |



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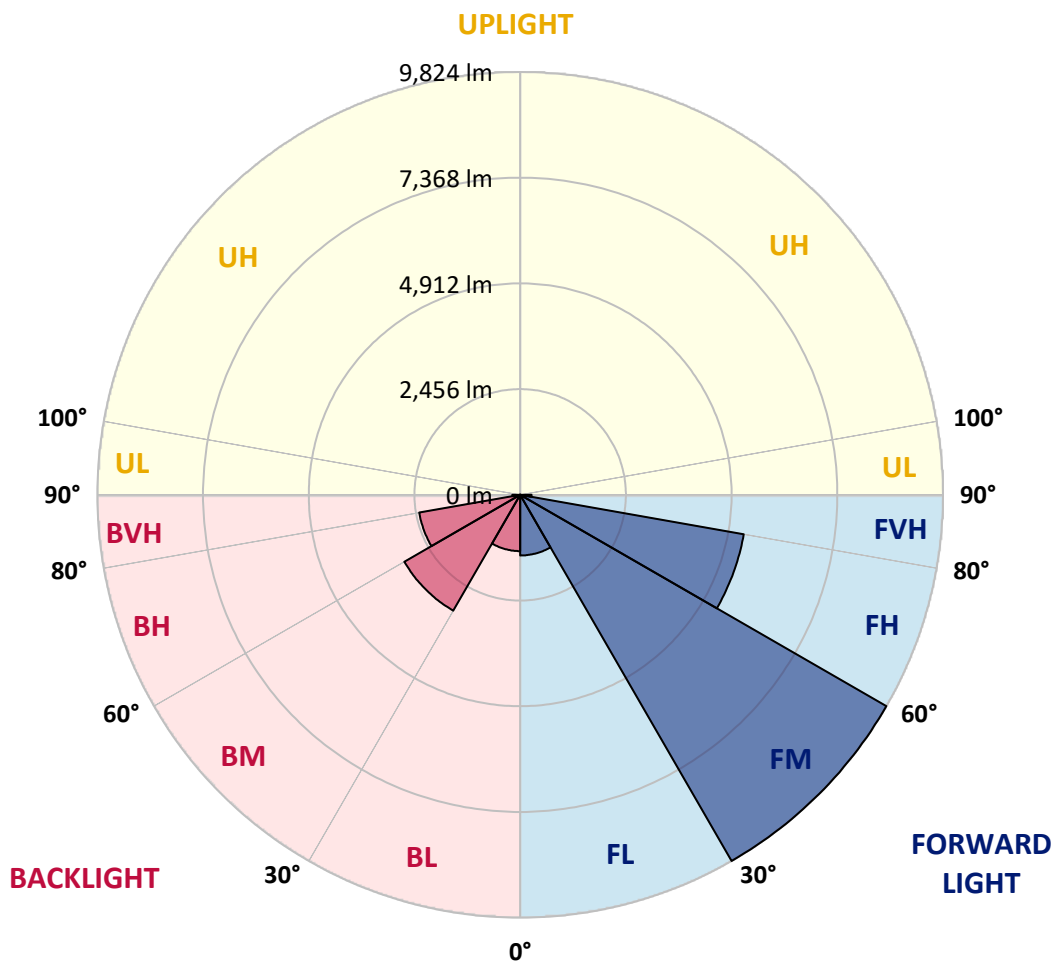
CATALOG NUMBER: ARCH-L-AF72-190-D-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1409.8 | 5.9 | | | |
| FM | (30°-60°) | 9823.6 | 41.4 | | | |
| FH | (60°-80°) | 5274.5 | 22.2 | | | G3/7500 |
| FVH | (80°-90°) | 262.5 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1308.3 | 5.5 | B3/2500 | | |
| BM | (30°-60°) | 3108.3 | 13.1 | B3/5000 | | |
| BH | (60°-80°) | 2382.4 | 10.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 183.6 | 0.8 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CATALOG NUMBER: ARCH-L-AF72-190-D-U-T2U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 |
| 2.5° | 2556.6 | 2552.6 | 2552.6 | 2552.6 | 2552.6 | 2548.6 | 2552.6 | 2560.5 | 2556.6 | 2552.6 | 2560.5 |
| 5° | 2564.4 | 2560.5 | 2560.5 | 2560.5 | 2564.4 | 2560.5 | 2564.4 | 2576.4 | 2568.4 | 2568.4 | 2576.4 |
| 7.5° | 2584.4 | 2580.4 | 2584.4 | 2580.4 | 2580.4 | 2580.4 | 2584.4 | 2596.2 | 2592.3 | 2596.2 | 2608.2 |
| 10° | 2608.2 | 2608.2 | 2608.2 | 2608.2 | 2608.2 | 2608.2 | 2616.2 | 2624.1 | 2628.1 | 2632.1 | 2648.0 |
| 12.5° | 2679.8 | 2679.8 | 2679.8 | 2675.8 | 2675.8 | 2663.9 | 2679.8 | 2687.7 | 2695.7 | 2703.7 | 2715.5 |
| 15° | 2830.9 | 2830.9 | 2826.9 | 2811.0 | 2811.0 | 2787.1 | 2791.1 | 2795.1 | 2795.1 | 2803.0 | 2811.0 |
| 17.5° | 3029.7 | 3025.7 | 3017.7 | 3005.8 | 2989.9 | 2962.1 | 2954.1 | 2946.2 | 2934.2 | 2930.2 | 2930.2 |
| 20° | 3308.0 | 3304.0 | 3288.1 | 3256.3 | 3236.4 | 3192.6 | 3160.9 | 3129.1 | 3117.1 | 3097.3 | 3093.3 |
| 22.5° | 3705.5 | 3705.5 | 3673.7 | 3626.1 | 3610.2 | 3518.7 | 3427.3 | 3359.7 | 3335.8 | 3308.0 | 3308.0 |
| 25° | 4186.6 | 4182.6 | 4139.0 | 4083.3 | 4015.7 | 3920.3 | 3809.0 | 3717.5 | 3657.9 | 3594.2 | 3570.4 |
| 27.5° | 4763.2 | 4751.2 | 4691.6 | 4624.0 | 4496.8 | 4377.5 | 4246.3 | 4150.8 | 4047.5 | 3968.0 | 3896.4 |
| 30° | 5439.1 | 5427.2 | 5323.7 | 5196.6 | 5065.3 | 4946.1 | 4755.2 | 4639.9 | 4476.9 | 4381.5 | 4301.9 |
| 32.5° | 6222.3 | 6210.4 | 6023.5 | 5900.3 | 5761.2 | 5614.1 | 5387.4 | 5204.5 | 4997.7 | 4862.6 | 4751.2 |
| 35° | 7220.3 | 7172.6 | 6906.2 | 6735.2 | 6516.6 | 6369.4 | 6130.9 | 5884.4 | 5641.9 | 5451.0 | 5288.0 |
| 37.5° | 8297.8 | 8242.1 | 8007.6 | 7753.0 | 7538.3 | 7359.4 | 7021.5 | 6711.4 | 6425.2 | 6162.7 | 5959.9 |
| 40° | 9423.0 | 9275.8 | 9025.4 | 8838.5 | 8691.4 | 8520.5 | 8166.5 | 7840.5 | 7391.2 | 7097.0 | 6790.9 |
| 42.5° | 10202.3 | 10059.1 | 9884.2 | 9760.9 | 9689.4 | 9558.1 | 9359.4 | 9077.1 | 8675.5 | 8683.4 | 876.3 |
| 45° | 10715.1 | 10504.4 | 10385.1 | 10393.1 | 10420.9 | 10420.9 | 10385.1 | 10341.4 | 10166.5 | 10285.8 | 9609.8 |
| 47.5° | 10532.3 | 10393.1 | 10317.6 | 10476.6 | 10675.4 | 10874.2 | 11104.7 | 11355.3 | 11641.6 | 11979.5 | 11148.5 |
| 50° | 9458.7 | 9510.5 | 9546.2 | 9884.2 | 10309.6 | 10762.9 | 11291.6 | 11975.5 | 12774.7 | 12929.8 | 12528.2 |
| 52.5° | 7745.2 | 7856.5 | 7975.7 | 8492.6 | 9053.2 | 9836.5 | 10762.9 | 11892.0 | 12965.5 | 13597.7 | 13558.0 |
| 55° | 6015.6 | 6154.8 | 6409.2 | 6794.8 | 7240.1 | 7979.7 | 9124.8 | 10866.2 | 12540.1 | 13546.0 | 14158.4 |
| 57.5° | 4282.1 | 4484.8 | 4818.8 | 5355.6 | 5749.2 | 6166.7 | 7013.6 | 8945.8 | 10778.7 | 12651.4 | 14058.9 |
| 60° | 2846.8 | 2942.2 | 3160.9 | 3828.8 | 4492.8 | 4930.1 | 5530.5 | 6230.3 | 7729.2 | 10309.6 | 13033.1 |
| 62.5° | 2019.8 | 2083.3 | 2218.6 | 2520.8 | 3121.1 | 3912.3 | 4274.1 | 4596.2 | 5077.3 | 6631.9 | 10464.7 |
| 63° | 1908.4 | 1964.1 | 2075.5 | 2329.9 | 2870.6 | 3689.7 | 4059.5 | 4353.7 | 4703.5 | 5932.1 | 9900.1 |
| 65° | 1582.4 | 1606.2 | 1665.9 | 1789.1 | 2079.5 | 2759.3 | 3363.7 | 3542.6 | 3602.2 | 3812.9 | 6202.5 |
| 67.5° | 1335.9 | 1351.8 | 1371.7 | 1407.5 | 1522.8 | 1836.9 | 2508.8 | 2735.5 | 2667.9 | 2524.7 | 3065.5 |
| 70° | 1160.9 | 1172.9 | 1204.7 | 1248.4 | 1288.2 | 1367.7 | 1725.5 | 2063.5 | 1988.0 | 1793.1 | 1876.6 |
| 72.5° | 926.4 | 946.2 | 982.0 | 1057.6 | 1137.1 | 1240.5 | 1328.0 | 1538.7 | 1491.0 | 1304.1 | 1324.0 |
| 75° | 731.6 | 743.5 | 775.3 | 830.9 | 906.5 | 1025.8 | 1196.8 | 1268.4 | 1137.1 | 962.2 | 962.2 |
| 77.5° | 580.5 | 592.4 | 620.2 | 664.0 | 711.7 | 795.1 | 914.4 | 1101.3 | 1021.8 | 723.6 | 719.6 |
| 80° | 437.3 | 449.3 | 477.1 | 516.9 | 564.6 | 624.2 | 695.8 | 779.3 | 938.4 | 675.9 | 540.7 |
| 82.5° | 322.0 | 326.0 | 373.8 | 401.6 | 417.5 | 465.1 | 524.8 | 572.5 | 644.2 | 624.2 | 481.1 |
| 85° | 242.5 | 238.6 | 270.4 | 290.2 | 294.2 | 306.2 | 342.0 | 389.6 | 421.5 | 405.5 | 373.8 |
| 87.5° | 135.1 | 119.3 | 139.1 | 159.1 | 159.1 | 163.1 | 170.9 | 198.8 | 226.6 | 218.7 | 198.8 |
| 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: ARCH-L-AF72-190-D-U-T2U

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 64° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 |
| 2.5° | 2560.5 | 2560.5 | 2556.6 | 2556.6 | 2560.5 | 2560.5 | 2556.6 | 2568.4 | 2576.4 | 2576.4 | 2580.4 |
| 5° | 2572.4 | 2576.4 | 2572.4 | 2572.4 | 2576.4 | 2576.4 | 2580.4 | 2592.3 | 2604.2 | 2612.2 | 2624.1 |
| 7.5° | 2608.2 | 2612.2 | 2608.2 | 2608.2 | 2612.2 | 2616.2 | 2624.1 | 2640.0 | 2648.0 | 2663.9 | 2683.7 |
| 10° | 2648.0 | 2652.0 | 2648.0 | 2652.0 | 2655.9 | 2659.9 | 2671.8 | 2683.7 | 2695.7 | 2711.6 | 2743.3 |
| 12.5° | 2719.5 | 2723.5 | 2715.5 | 2719.5 | 2731.5 | 2731.5 | 2739.5 | 2747.3 | 2767.3 | 2787.1 | 2818.9 |
| 15° | 2818.9 | 2818.9 | 2811.0 | 2815.0 | 2826.9 | 2826.9 | 2830.9 | 2838.8 | 2862.6 | 2886.6 | 2918.4 |
| 17.5° | 2934.2 | 2942.2 | 2938.2 | 2942.2 | 2950.2 | 2954.1 | 2954.1 | 2962.1 | 2978.0 | 2993.9 | 3025.7 |
| 20° | 3089.3 | 3093.3 | 3085.3 | 3093.3 | 3101.3 | 3093.3 | 3085.3 | 3081.3 | 3089.3 | 3097.3 | 3133.0 |
| 22.5° | 3300.0 | 3296.0 | 3276.2 | 3276.2 | 3276.2 | 3260.2 | 3240.4 | 3216.6 | 3216.6 | 3204.6 | 3232.4 |
| 25° | 3550.6 | 3538.6 | 3510.8 | 3514.8 | 3486.9 | 3463.0 | 3427.3 | 3391.5 | 3359.7 | 3347.7 | 3351.7 |
| 27.5° | 3844.8 | 3820.9 | 3793.0 | 3785.1 | 3757.3 | 3713.5 | 3653.9 | 3586.3 | 3534.6 | 3494.8 | 3486.9 |
| 30° | 4214.5 | 4162.8 | 4115.1 | 4107.1 | 4063.4 | 3991.9 | 3896.4 | 3805.0 | 3717.5 | 3649.9 | 3626.1 |
| 32.5° | 4651.9 | 4572.3 | 4496.8 | 4488.8 | 4417.3 | 4321.9 | 4206.6 | 4079.3 | 3952.1 | 3844.8 | 3793.0 |
| 35° | 5164.8 | 5045.5 | 4973.9 | 4954.0 | 4850.6 | 4731.4 | 4604.1 | 4441.1 | 4262.2 | 4111.1 | 4015.7 |
| 37.5° | 5789.0 | 5665.7 | 5542.4 | 5546.4 | 5403.3 | 5264.1 | 5093.2 | 4894.4 | 4667.7 | 4457.0 | 4321.9 |
| 40° | 6560.3 | 6385.4 | 6226.3 | 6190.5 | 6067.3 | 5872.5 | 5685.6 | 5455.0 | 5176.6 | 4898.4 | 4703.5 |
| 42.5° | 7494.6 | 7208.3 | 6989.7 | 6957.9 | 6794.8 | 6556.3 | 6329.7 | 6023.5 | 5741.2 | 5403.3 | 5168.8 |
| 45° | 8556.2 | 8099.0 | 7836.6 | 7788.8 | 7526.5 | 7283.9 | 7009.6 | 6683.6 | 6337.7 | 5955.9 | 5677.7 |
| 47.5° | 9876.2 | 9224.2 | 8778.9 | 8699.4 | 8337.6 | 8019.4 | 7733.2 | 7371.4 | 6957.9 | 6532.5 | 6226.3 |
| 50° | 11414.9 | 10452.7 | 9852.3 | 9729.1 | 9244.1 | 8870.3 | 8504.5 | 8051.2 | 7609.9 | 7164.6 | 6810.8 |
| 52.5° | 12957.6 | 11923.8 | 11124.7 | 10973.6 | 10257.9 | 9756.9 | 9275.8 | 8822.6 | 8301.8 | 7860.5 | 7458.8 |
| 55° | 14198.0 | 13510.2 | 12583.8 | 12373.1 | 11347.3 | 10667.4 | 10035.2 | 9518.4 | 9001.6 | 8651.6 | 8178.5 |
| 57.5° | 14945.5 | 14909.7 | 14178.2 | 13888.0 | 12484.4 | 11478.5 | 10774.7 | 10186.3 | 9685.4 | 9538.3 | 8910.1 |
| 60° | 14925.7 | 15852.1 | 15538.0 | 15319.3 | 13633.5 | 12309.5 | 11395.1 | 10758.9 | 10345.4 | 10512.4 | 9645.6 |
| 62.5° | 14015.1 | 15891.8 | 16269.5 | 16209.9 | 14858.1 | 12977.5 | 11904.0 | 11248.0 | 11029.3 | 11526.2 | 10409.0 |
| 63° | 13685.1 | 15800.4 | 16301.3 | 16277.5 | 15092.6 | 13104.7 | 11991.4 | 11343.3 | 11164.4 | 11784.7 | 10548.2 |
| 65° | 11566.0 | 15001.2 | 15915.7 | 16023.0 | 15597.6 | 13542.0 | 12194.2 | 11585.8 | 11566.0 | 12361.2 | 10878.2 |
| 67.5° | 7049.4 | 12675.3 | 14178.2 | 14384.9 | 14885.9 | 13681.1 | 12078.9 | 11502.4 | 11788.7 | 12444.7 | 10778.7 |
| 70° | 3013.7 | 8365.4 | 11395.1 | 11729.1 | 12953.6 | 12989.4 | 11748.9 | 11160.5 | 11736.9 | 11792.7 | 10071.1 |
| 72.5° | 1785.2 | 3944.1 | 7757.0 | 8484.7 | 10250.0 | 11176.4 | 10993.4 | 10564.0 | 11057.1 | 10357.3 | 8576.1 |
| 75° | 1264.4 | 1844.8 | 3940.2 | 4715.5 | 7136.8 | 8532.3 | 9236.1 | 9434.9 | 9415.0 | 8214.3 | 6437.0 |
| 77.5° | 906.5 | 1184.8 | 1662.0 | 1960.2 | 3983.9 | 5478.8 | 6337.7 | 6918.1 | 6731.2 | 5498.8 | 3968.0 |
| 80° | 632.2 | 819.1 | 1017.8 | 1081.5 | 1848.8 | 2815.0 | 3339.8 | 3594.2 | 3482.9 | 2747.3 | 1777.3 |
| 82.5° | 457.3 | 536.7 | 656.0 | 695.8 | 930.4 | 1300.2 | 1546.6 | 1363.7 | 1308.0 | 1013.8 | 767.3 |
| 85° | 353.8 | 345.9 | 409.5 | 425.4 | 544.7 | 679.9 | 695.8 | 540.7 | 473.1 | 421.5 | 429.4 |
| 87.5° | 250.5 | 214.7 | 218.7 | 226.6 | 282.3 | 361.8 | 353.8 | 222.7 | 190.9 | 202.7 | 230.6 |
| 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: ARCH-L-AF72-190-D-U-T2U

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 | 2572.4 |
| 2.5° | 2588.4 | 2592.3 | 2600.2 | 2604.2 | 2612.2 | 2612.2 | 2620.2 | 2624.1 | 2632.1 | 2640.0 | 2644.0 |
| 5° | 2636.0 | 2648.0 | 2663.9 | 2671.8 | 2687.7 | 2699.7 | 2715.5 | 2723.5 | 2739.5 | 2751.3 | 2767.3 |
| 7.5° | 2707.6 | 2727.5 | 2747.3 | 2771.3 | 2795.1 | 2815.0 | 2830.9 | 2850.8 | 2878.6 | 2898.4 | 2910.4 |
| 10° | 2775.2 | 2803.0 | 2838.8 | 2866.6 | 2902.4 | 2930.2 | 2954.1 | 2989.9 | 3021.7 | 3049.5 | 3065.5 |
| 12.5° | 2862.6 | 2898.4 | 2934.2 | 2978.0 | 3025.7 | 3061.5 | 3097.3 | 3145.0 | 3188.7 | 3220.6 | 3236.4 |
| 15° | 2966.0 | 3009.8 | 3049.5 | 3101.3 | 3156.9 | 3204.6 | 3256.3 | 3308.0 | 3339.8 | 3339.8 | 3331.9 |
| 17.5° | 3073.4 | 3109.2 | 3156.9 | 3216.6 | 3292.1 | 3351.7 | 3379.5 | 3387.5 | 3375.5 | 3347.7 | 3327.9 |
| 20° | 3180.8 | 3212.6 | 3264.2 | 3335.8 | 3415.3 | 3427.3 | 3399.5 | 3363.7 | 3327.9 | 3280.2 | 3248.4 |
| 22.5° | 3268.2 | 3311.9 | 3391.5 | 3475.0 | 3479.0 | 3411.3 | 3335.8 | 3276.2 | 3220.6 | 3164.8 | 3105.2 |
| 25° | 3371.5 | 3431.3 | 3538.6 | 3570.4 | 3467.0 | 3339.8 | 3232.4 | 3145.0 | 3053.5 | 2962.1 | 2894.4 |
| 27.5° | 3498.8 | 3586.3 | 3693.7 | 3602.2 | 3399.5 | 3220.6 | 3073.4 | 2942.2 | 2822.9 | 2695.7 | 2620.2 |
| 30° | 3634.0 | 3769.2 | 3793.0 | 3554.4 | 3284.1 | 3053.5 | 2854.7 | 2655.9 | 2504.8 | 2389.5 | 2345.8 |
| 32.5° | 3797.0 | 3971.9 | 3828.8 | 3471.0 | 3129.1 | 2826.9 | 2560.5 | 2322.0 | 2194.7 | 2123.1 | 2103.3 |
| 35° | 4043.5 | 4186.6 | 3848.8 | 3383.5 | 2950.2 | 2556.6 | 2222.6 | 2031.7 | 1952.2 | 1904.4 | 1880.6 |
| 37.5° | 4397.4 | 4393.4 | 3844.8 | 3276.2 | 2743.3 | 2262.4 | 1952.2 | 1817.0 | 1753.3 | 1713.6 | 1669.9 |
| 40° | 4810.8 | 4552.4 | 3820.9 | 3121.1 | 2465.1 | 1980.0 | 1765.3 | 1638.1 | 1578.4 | 1530.7 | 1479.1 |
| 42.5° | 5220.4 | 4659.8 | 3753.3 | 2890.6 | 2119.1 | 1777.3 | 1630.2 | 1514.8 | 1451.3 | 1399.5 | 1328.0 |
| 45° | 5574.3 | 4703.5 | 3622.1 | 2572.4 | 1809.1 | 1618.2 | 1542.7 | 1443.3 | 1367.7 | 1288.2 | 1232.6 |
| 47.5° | 5852.6 | 4695.5 | 3411.3 | 2198.7 | 1602.4 | 1506.9 | 1471.1 | 1403.5 | 1312.0 | 1212.7 | 1141.1 |
| 50° | 6087.2 | 4635.9 | 3125.1 | 1868.7 | 1463.1 | 1407.5 | 1395.5 | 1375.7 | 1228.6 | 1145.1 | 1101.3 |
| 52.5° | 6301.9 | 4548.4 | 2818.9 | 1646.0 | 1343.9 | 1296.2 | 1320.0 | 1300.2 | 1196.8 | 1125.1 | 1081.5 |
| 55° | 6596.1 | 4488.8 | 2516.8 | 1475.1 | 1204.7 | 1192.8 | 1212.7 | 1240.5 | 1176.9 | 1109.3 | 1061.6 |
| 57.5° | 6941.9 | 4520.6 | 2286.2 | 1284.2 | 1073.5 | 1081.5 | 1149.1 | 1188.8 | 1157.0 | 1085.5 | 1037.7 |
| 60° | 7339.6 | 4616.1 | 2083.3 | 1101.3 | 966.2 | 986.0 | 1085.5 | 1141.1 | 1137.1 | 1053.6 | 998.0 |
| 62.5° | 7784.9 | 4715.5 | 1761.3 | 962.2 | 874.7 | 906.5 | 1009.9 | 1081.5 | 1093.4 | 1021.8 | 954.2 |
| 63° | 7872.3 | 4723.4 | 1677.8 | 934.4 | 858.8 | 894.6 | 990.0 | 1065.5 | 1081.5 | 1013.8 | 946.2 |
| 65° | 8087.0 | 4651.9 | 1351.8 | 858.8 | 795.1 | 834.9 | 930.4 | 998.0 | 1029.8 | 970.2 | 914.4 |
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| 70° | 7232.3 | 2958.1 | 795.1 | 683.8 | 687.8 | 707.7 | 771.3 | 830.9 | 862.8 | 854.8 | 803.1 |
| 72.5° | 5824.8 | 1677.8 | 664.0 | 612.3 | 624.2 | 648.0 | 691.8 | 747.5 | 775.3 | 771.3 | 735.5 |
| 75° | 3836.8 | 858.8 | 560.6 | 548.7 | 556.6 | 576.5 | 608.3 | 652.0 | 683.8 | 679.9 | 664.0 |
| 77.5° | 1900.5 | 596.4 | 481.1 | 485.1 | 489.1 | 504.9 | 528.8 | 568.6 | 588.4 | 592.4 | 588.4 |
| 80° | 783.3 | 465.1 | 413.5 | 417.5 | 421.5 | 433.4 | 449.3 | 485.1 | 496.9 | 504.9 | 508.9 |
| 82.5° | 469.1 | 353.8 | 330.0 | 338.0 | 342.0 | 353.8 | 365.8 | 397.6 | 409.5 | 421.5 | 421.5 |
| 85° | 310.2 | 246.5 | 238.6 | 246.5 | 254.5 | 262.4 | 266.4 | 286.2 | 306.2 | 322.0 | 330.0 |
| 87.5° | 166.9 | 147.1 | 143.1 | 147.1 | 147.1 | 155.1 | 163.1 | 182.9 | 206.7 | 222.7 | 230.6 |
| 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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