

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: P257925

Luminaire Tested: **ARCH-L-AF72-90-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-90-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12607.4 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

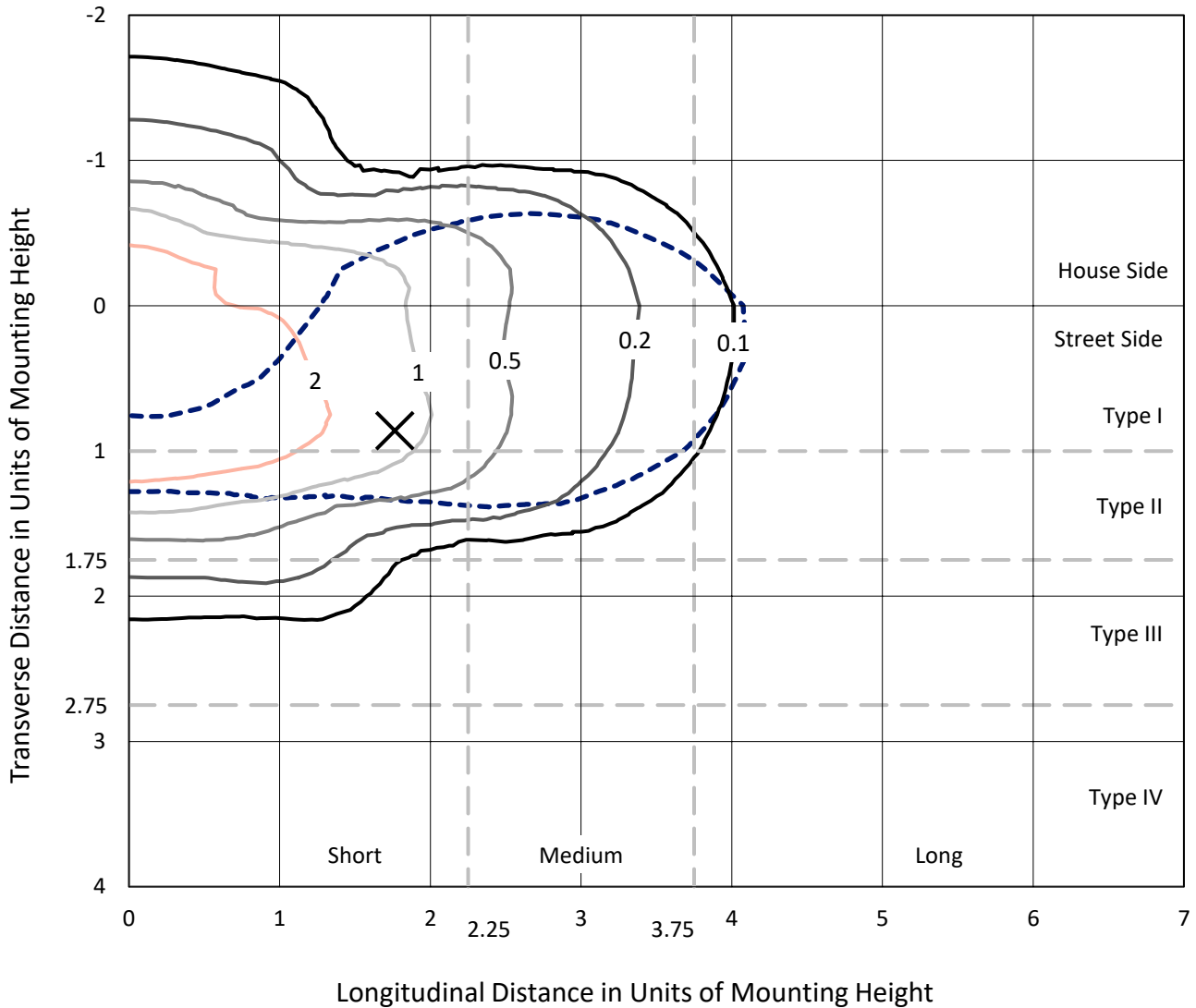
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

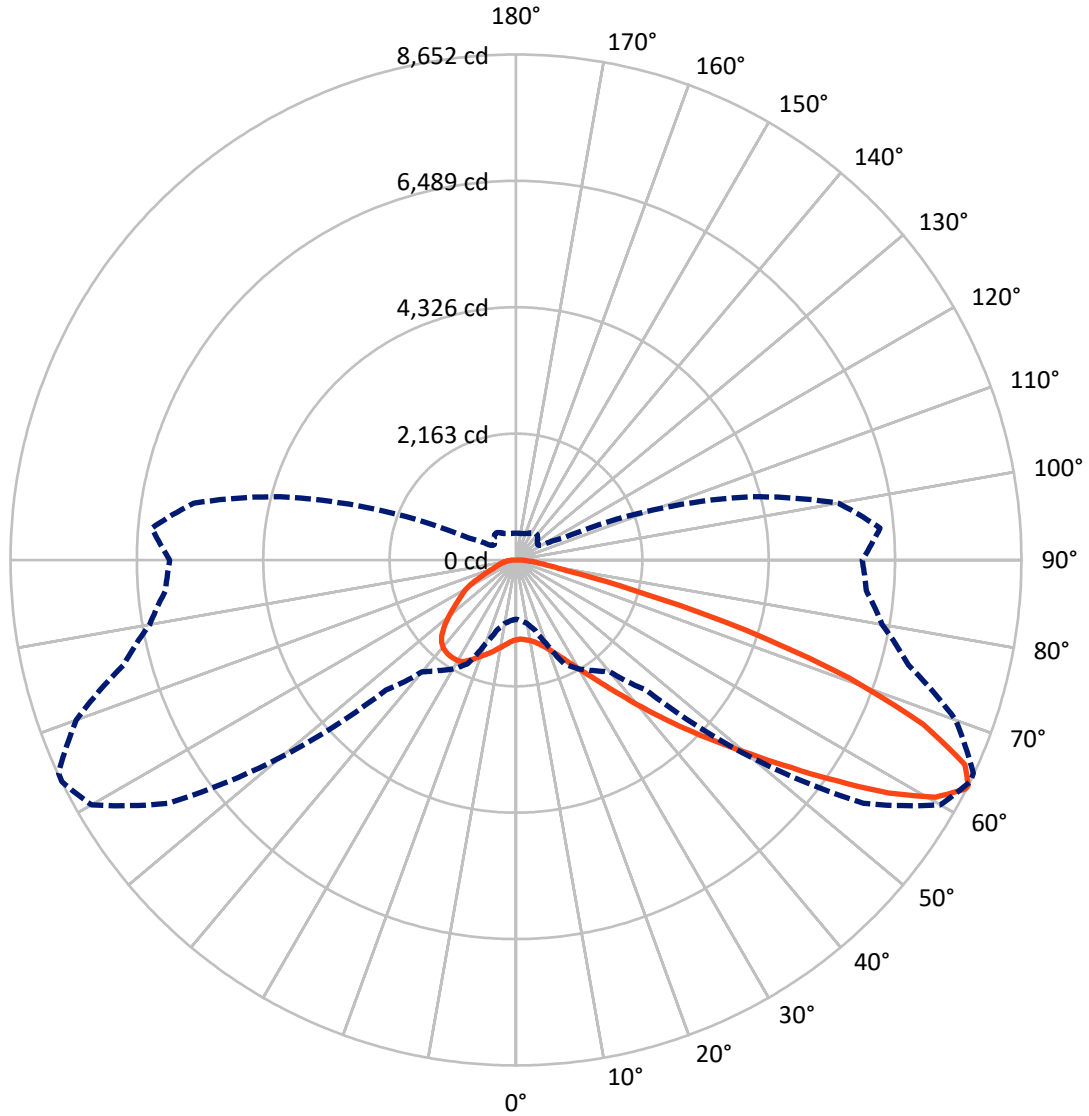
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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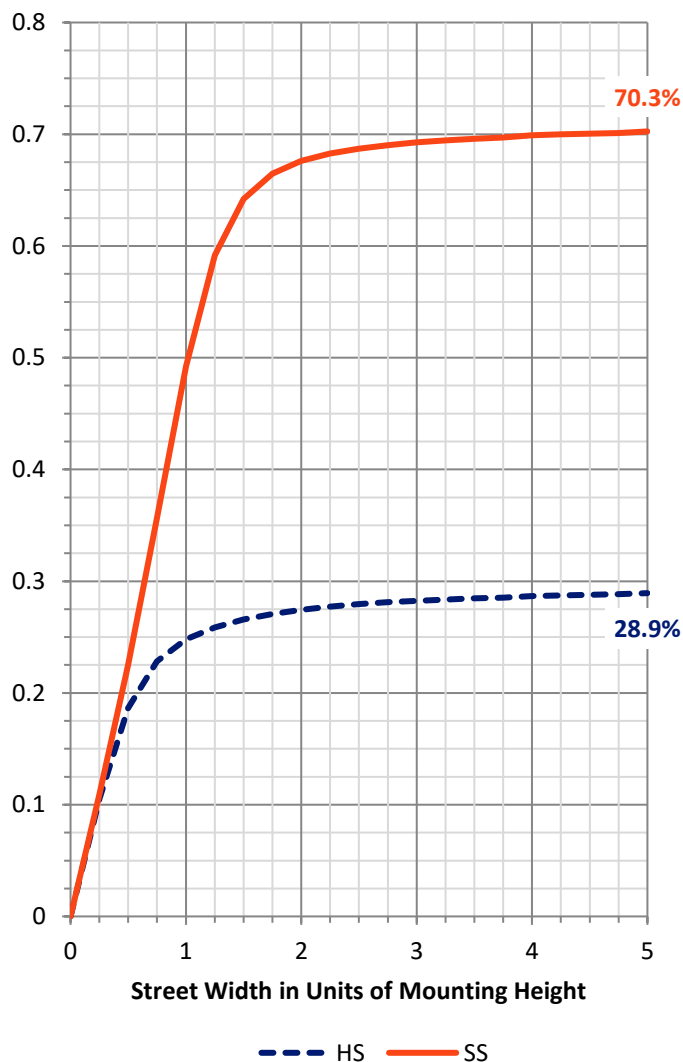
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3706.1 | 0.0 | 3706.1 |
| | % Fixture | 29.4 | 0.0 | 29.4 |
| Street Side | Lumens | 8901.3 | 0.0 | 8901.3 |
| | % Fixture | 70.6 | 0.0 | 70.6 |
| Total | Lumens | 12607.4 | 0.0 | 12607.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 136.3 | 1.1 |
| 10°-20° | 454.1 | 3.6 |
| 20°-30° | 852.3 | 6.8 |
| 30°-40° | 1428.6 | 11.3 |
| 40°-50° | 2396.8 | 19.0 |
| 50°-60° | 3038.5 | 24.1 |
| 60°-70° | 2680.4 | 21.3 |
| 70°-80° | 1383.7 | 11.0 |
| 80°-90° | 236.8 | 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° | 12607.4 | 100.0 |
| 0°-180° | 12607.4 | 100.0 |

Coefficient of Utilization

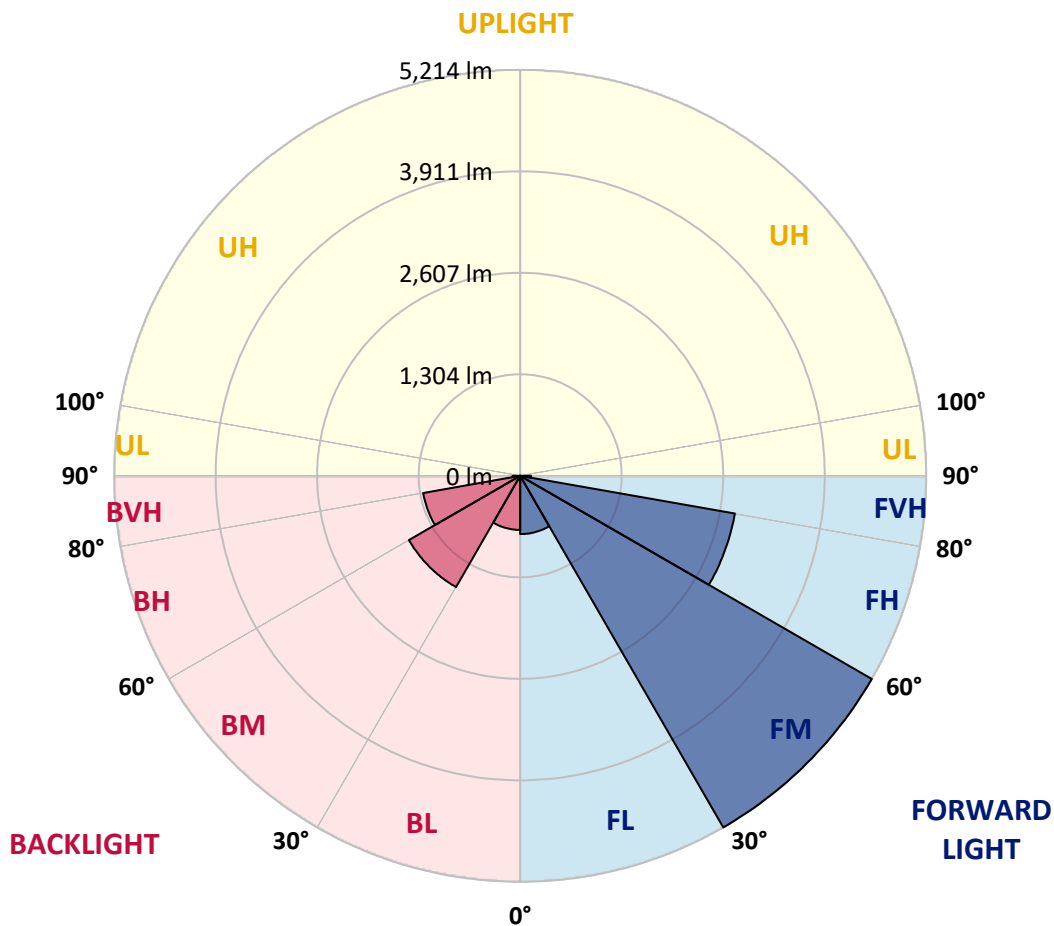


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 748.3 | 5.9 | | | |
| FM (30°-60°) | 5214.1 | 41.4 | | | |
| FH (60°-80°) | 2799.6 | 22.2 | | | G2/5000 |
| FVH (80°-90°) | 139.3 | 1.1 | | | G2/225 |
| BL (0°-30°) | 694.4 | 5.5 | B2/1000 | | |
| BM (30°-60°) | 1649.8 | 13.1 | B2/2500 | | |
| BH (60°-80°) | 1264.5 | 10.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 97.4 | 0.8 | | | G1/100 |
| 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-AF72-90-D-U-T2U-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 |
| 2.5° | 1356.9 | 1354.9 | 1354.9 | 1354.9 | 1354.9 | 1352.7 | 1354.9 | 1359.0 | 1356.9 | 1354.9 | 1359.0 |
| 5° | 1361.2 | 1359.0 | 1359.0 | 1359.0 | 1361.2 | 1359.0 | 1361.2 | 1367.5 | 1363.2 | 1363.2 | 1367.5 |
| 7.5° | 1371.8 | 1369.6 | 1371.8 | 1369.6 | 1369.6 | 1369.6 | 1371.8 | 1378.1 | 1375.9 | 1378.1 | 1384.5 |
| 10° | 1384.5 | 1384.5 | 1384.5 | 1384.5 | 1384.5 | 1384.5 | 1388.5 | 1392.8 | 1394.9 | 1397.0 | 1405.5 |
| 12.5° | 1422.3 | 1422.3 | 1422.3 | 1420.3 | 1420.3 | 1414.0 | 1422.3 | 1426.6 | 1430.8 | 1435.0 | 1441.3 |
| 15° | 1502.6 | 1502.6 | 1500.4 | 1492.1 | 1492.1 | 1479.4 | 1481.4 | 1483.5 | 1483.5 | 1487.8 | 1492.1 |
| 17.5° | 1608.1 | 1606.0 | 1601.7 | 1595.4 | 1587.0 | 1572.2 | 1568.0 | 1563.7 | 1557.4 | 1555.3 | 1555.3 |
| 20° | 1755.8 | 1753.7 | 1745.2 | 1728.4 | 1717.8 | 1694.6 | 1677.6 | 1660.8 | 1654.5 | 1644.0 | 1641.8 |
| 22.5° | 1966.7 | 1966.7 | 1950.0 | 1924.6 | 1916.2 | 1867.7 | 1819.0 | 1783.2 | 1770.5 | 1755.8 | 1755.8 |
| 25° | 2222.3 | 2220.0 | 2196.8 | 2167.2 | 2131.4 | 2080.8 | 2021.8 | 1973.1 | 1941.5 | 1907.7 | 1895.1 |
| 27.5° | 2528.2 | 2521.8 | 2490.1 | 2454.3 | 2386.8 | 2323.5 | 2253.8 | 2203.2 | 2148.2 | 2106.1 | 2068.2 |
| 30° | 2886.9 | 2880.6 | 2825.8 | 2758.1 | 2688.6 | 2625.3 | 2524.0 | 2462.7 | 2376.2 | 2325.6 | 2283.4 |
| 32.5° | 3302.7 | 3296.4 | 3197.2 | 3131.7 | 3057.8 | 2979.8 | 2859.6 | 2762.4 | 2652.7 | 2580.9 | 2521.8 |
| 35° | 3832.4 | 3807.0 | 3665.6 | 3574.9 | 3458.8 | 3380.7 | 3254.1 | 3123.2 | 2994.6 | 2893.3 | 2806.8 |
| 37.5° | 4404.2 | 4374.7 | 4250.1 | 4115.1 | 4001.2 | 3906.2 | 3726.9 | 3562.2 | 3410.3 | 3271.0 | 3163.4 |
| 40° | 5001.5 | 4923.3 | 4790.5 | 4691.3 | 4613.2 | 4522.5 | 4334.7 | 4161.5 | 3923.1 | 3766.9 | 3604.5 |
| 42.5° | 5415.1 | 5339.1 | 5246.3 | 5180.8 | 5142.9 | 5073.2 | 4967.7 | 4817.9 | 4604.7 | 4609.0 | 4180.6 |
| 45° | 5687.3 | 5575.5 | 5512.1 | 5516.4 | 5531.1 | 5531.1 | 5512.1 | 5488.9 | 5396.1 | 5459.3 | 5100.7 |
| 47.5° | 5590.2 | 5516.4 | 5476.3 | 5560.8 | 5666.1 | 5771.7 | 5894.1 | 6027.1 | 6179.0 | 6358.5 | 5917.4 |
| 50° | 5020.5 | 5047.9 | 5066.9 | 5246.3 | 5472.0 | 5712.6 | 5993.3 | 6356.2 | 6780.5 | 6862.8 | 6649.6 |
| 52.5° | 4110.9 | 4170.0 | 4233.4 | 4507.6 | 4805.2 | 5221.0 | 5712.6 | 6312.0 | 6881.8 | 7217.3 | 7196.3 |
| 55° | 3192.9 | 3266.8 | 3401.8 | 3606.5 | 3842.8 | 4235.4 | 4843.3 | 5767.5 | 6656.0 | 7190.0 | 7514.9 |
| 57.5° | 2272.8 | 2380.4 | 2557.8 | 2842.6 | 3051.5 | 3273.1 | 3722.6 | 4748.2 | 5721.1 | 6715.1 | 7462.1 |
| 60° | 1510.9 | 1561.7 | 1677.6 | 2032.2 | 2384.7 | 2616.8 | 2935.5 | 3306.8 | 4102.4 | 5472.0 | 6917.6 |
| 62.5° | 1072.1 | 1105.8 | 1177.6 | 1338.0 | 1656.6 | 2076.6 | 2268.5 | 2439.5 | 2694.9 | 3520.0 | 5554.4 |
| 63° | 1013.0 | 1042.6 | 1101.6 | 1236.6 | 1523.6 | 1958.4 | 2154.6 | 2310.9 | 2496.5 | 3148.7 | 5254.8 |
| 65° | 839.8 | 852.6 | 884.2 | 949.7 | 1103.7 | 1464.5 | 1785.3 | 1880.4 | 1911.9 | 2023.8 | 3292.1 |
| 67.5° | 709.1 | 717.5 | 728.1 | 747.0 | 808.3 | 974.9 | 1331.7 | 1451.9 | 1416.0 | 1340.1 | 1627.1 |
| 70° | 616.2 | 622.6 | 639.3 | 662.6 | 683.8 | 725.9 | 915.9 | 1095.3 | 1055.1 | 951.7 | 996.1 |
| 72.5° | 491.6 | 502.3 | 521.2 | 561.4 | 603.5 | 658.4 | 704.8 | 816.7 | 791.4 | 692.1 | 702.7 |
| 75° | 388.3 | 394.7 | 411.5 | 441.1 | 481.2 | 544.4 | 635.3 | 673.1 | 603.5 | 510.7 | 510.7 |
| 77.5° | 308.1 | 314.4 | 329.2 | 352.5 | 377.7 | 422.1 | 485.3 | 584.5 | 542.4 | 384.0 | 382.0 |
| 80° | 232.1 | 238.5 | 253.3 | 274.3 | 299.7 | 331.3 | 369.3 | 413.6 | 498.0 | 358.8 | 287.1 |
| 82.5° | 171.0 | 173.0 | 198.5 | 213.2 | 221.6 | 246.9 | 278.6 | 303.8 | 341.9 | 331.3 | 255.3 |
| 85° | 128.7 | 126.6 | 143.4 | 154.0 | 156.1 | 162.5 | 181.5 | 206.8 | 223.7 | 215.2 | 198.5 |
| 87.5° | 71.8 | 63.3 | 73.9 | 84.4 | 84.4 | 86.6 | 90.8 | 105.6 | 120.3 | 116.1 | 105.6 |
| 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-AF72-90-D-U-T2U-7030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 64° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 |
| 2.5° | 1359.0 | 1359.0 | 1356.9 | 1356.9 | 1359.0 | 1359.0 | 1356.9 | 1363.2 | 1367.5 | 1367.5 | 1369.6 |
| 5° | 1365.4 | 1367.5 | 1365.4 | 1365.4 | 1367.5 | 1367.5 | 1369.6 | 1375.9 | 1382.2 | 1386.5 | 1392.8 |
| 7.5° | 1384.5 | 1386.5 | 1384.5 | 1384.5 | 1386.5 | 1388.5 | 1392.8 | 1401.2 | 1405.5 | 1414.0 | 1424.5 |
| 10° | 1405.5 | 1407.6 | 1405.5 | 1407.6 | 1409.7 | 1411.8 | 1418.1 | 1424.5 | 1430.8 | 1439.3 | 1456.1 |
| 12.5° | 1443.5 | 1445.6 | 1441.3 | 1443.5 | 1449.8 | 1449.8 | 1454.0 | 1458.3 | 1468.8 | 1479.4 | 1496.2 |
| 15° | 1496.2 | 1496.2 | 1492.1 | 1494.1 | 1500.4 | 1500.4 | 1502.6 | 1506.8 | 1519.5 | 1532.2 | 1549.0 |
| 17.5° | 1557.4 | 1561.7 | 1559.5 | 1561.7 | 1565.9 | 1568.0 | 1568.0 | 1572.2 | 1580.7 | 1589.0 | 1606.0 |
| 20° | 1639.8 | 1641.8 | 1637.6 | 1641.8 | 1646.1 | 1641.8 | 1637.6 | 1635.5 | 1639.8 | 1644.0 | 1662.9 |
| 22.5° | 1751.5 | 1749.5 | 1738.9 | 1738.9 | 1738.9 | 1730.4 | 1720.0 | 1707.2 | 1707.2 | 1700.9 | 1715.7 |
| 25° | 1884.5 | 1878.1 | 1863.4 | 1865.5 | 1850.8 | 1838.1 | 1819.0 | 1800.1 | 1783.2 | 1776.9 | 1779.0 |
| 27.5° | 2040.6 | 2028.1 | 2013.2 | 2009.1 | 1994.3 | 1971.0 | 1939.4 | 1903.6 | 1876.1 | 1855.0 | 1850.8 |
| 30° | 2237.0 | 2209.5 | 2184.2 | 2179.9 | 2156.8 | 2118.7 | 2068.2 | 2019.5 | 1973.1 | 1937.2 | 1924.6 |
| 32.5° | 2469.0 | 2426.8 | 2386.8 | 2382.5 | 2344.6 | 2293.9 | 2232.7 | 2165.2 | 2097.7 | 2040.6 | 2013.2 |
| 35° | 2741.4 | 2678.1 | 2640.0 | 2629.5 | 2574.5 | 2511.4 | 2443.8 | 2357.3 | 2262.2 | 2182.1 | 2131.4 |
| 37.5° | 3072.6 | 3007.3 | 2941.8 | 2943.9 | 2867.9 | 2794.1 | 2703.3 | 2597.8 | 2477.6 | 2365.7 | 2293.9 |
| 40° | 3482.0 | 3389.2 | 3304.8 | 3285.8 | 3220.3 | 3116.9 | 3017.7 | 2895.4 | 2747.7 | 2600.0 | 2496.5 |
| 42.5° | 3977.9 | 3826.0 | 3709.9 | 3693.1 | 3606.5 | 3479.9 | 3359.6 | 3197.2 | 3047.3 | 2867.9 | 2743.4 |
| 45° | 4541.4 | 4298.7 | 4159.5 | 4134.2 | 3994.8 | 3866.1 | 3720.5 | 3547.4 | 3363.9 | 3161.3 | 3013.6 |
| 47.5° | 5242.0 | 4895.9 | 4659.6 | 4617.4 | 4425.3 | 4256.5 | 4104.6 | 3912.6 | 3693.1 | 3467.3 | 3304.8 |
| 50° | 6058.8 | 5548.0 | 5229.3 | 5163.9 | 4906.5 | 4708.1 | 4513.9 | 4273.4 | 4039.2 | 3802.8 | 3615.0 |
| 52.5° | 6877.6 | 6328.9 | 5904.7 | 5824.5 | 5444.6 | 5178.8 | 4923.3 | 4682.9 | 4406.3 | 4172.1 | 3959.0 |
| 55° | 7535.9 | 7170.9 | 6679.1 | 6567.3 | 6022.8 | 5662.1 | 5326.5 | 5052.1 | 4777.8 | 4592.0 | 4341.0 |
| 57.5° | 7932.7 | 7913.7 | 7525.4 | 7371.4 | 6626.5 | 6092.6 | 5718.9 | 5406.7 | 5140.7 | 5062.6 | 4729.3 |
| 60° | 7922.2 | 8413.8 | 8247.1 | 8131.1 | 7236.4 | 6533.6 | 6048.1 | 5710.6 | 5491.1 | 5579.7 | 5119.7 |
| 62.5° | 7438.9 | 8435.0 | 8635.5 | 8603.8 | 7886.3 | 6888.1 | 6318.4 | 5970.2 | 5854.0 | 6117.9 | 5524.8 |
| 63° | 7263.8 | 8386.4 | 8652.4 | 8639.6 | 8010.8 | 6955.7 | 6364.7 | 6020.7 | 5925.7 | 6255.0 | 5598.7 |
| 65° | 6138.9 | 7962.3 | 8447.6 | 8504.6 | 8278.8 | 7187.7 | 6472.4 | 6149.4 | 6138.9 | 6561.0 | 5773.8 |
| 67.5° | 3741.6 | 6727.7 | 7525.4 | 7635.1 | 7901.1 | 7261.6 | 6411.2 | 6105.2 | 6257.1 | 6605.3 | 5721.1 |
| 70° | 1599.7 | 4440.1 | 6048.1 | 6225.5 | 6875.4 | 6894.5 | 6236.0 | 5923.7 | 6229.6 | 6259.3 | 5345.4 |
| 72.5° | 947.5 | 2093.4 | 4117.2 | 4503.4 | 5440.4 | 5932.1 | 5835.0 | 5607.0 | 5868.9 | 5497.4 | 4552.0 |
| 75° | 671.1 | 979.2 | 2091.3 | 2502.8 | 3788.0 | 4528.8 | 4902.3 | 5007.8 | 4997.2 | 4359.9 | 3416.6 |
| 77.5° | 481.2 | 628.9 | 882.2 | 1040.3 | 2114.5 | 2908.1 | 3363.9 | 3671.9 | 3572.8 | 2918.6 | 2106.1 |
| 80° | 335.5 | 434.8 | 540.3 | 574.0 | 981.2 | 1494.1 | 1772.6 | 1907.7 | 1848.6 | 1458.3 | 943.4 |
| 82.5° | 242.7 | 284.9 | 348.2 | 369.3 | 493.9 | 690.1 | 820.9 | 723.9 | 694.4 | 538.1 | 407.3 |
| 85° | 187.8 | 183.5 | 217.3 | 225.8 | 289.1 | 360.9 | 369.3 | 287.1 | 251.1 | 223.7 | 228.0 |
| 87.5° | 133.0 | 113.9 | 116.1 | 120.3 | 149.8 | 192.1 | 187.8 | 118.2 | 101.3 | 107.6 | 122.4 |
| 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):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 | 1365.4 |
| 2.5° | 1373.8 | 1375.9 | 1380.2 | 1382.2 | 1386.5 | 1386.5 | 1390.7 | 1392.8 | 1397.0 | 1401.2 | 1403.3 |
| 5° | 1399.2 | 1405.5 | 1414.0 | 1418.1 | 1426.6 | 1432.9 | 1441.3 | 1445.6 | 1454.0 | 1460.4 | 1468.8 |
| 7.5° | 1437.1 | 1447.6 | 1458.3 | 1470.8 | 1483.5 | 1494.1 | 1502.6 | 1513.1 | 1527.9 | 1538.5 | 1544.7 |
| 10° | 1473.1 | 1487.8 | 1506.8 | 1521.6 | 1540.5 | 1555.3 | 1568.0 | 1587.0 | 1603.8 | 1618.5 | 1627.1 |
| 12.5° | 1519.5 | 1538.5 | 1557.4 | 1580.7 | 1606.0 | 1624.9 | 1644.0 | 1669.3 | 1692.4 | 1709.4 | 1717.8 |
| 15° | 1574.3 | 1597.5 | 1618.5 | 1646.1 | 1675.6 | 1700.9 | 1728.4 | 1755.8 | 1772.6 | 1772.6 | 1768.5 |
| 17.5° | 1631.2 | 1650.3 | 1675.6 | 1707.2 | 1747.4 | 1779.0 | 1793.8 | 1798.0 | 1791.7 | 1776.9 | 1766.4 |
| 20° | 1688.3 | 1705.1 | 1732.6 | 1770.5 | 1812.7 | 1819.0 | 1804.3 | 1785.3 | 1766.4 | 1741.0 | 1724.1 |
| 22.5° | 1734.7 | 1757.9 | 1800.1 | 1844.4 | 1846.5 | 1810.7 | 1770.5 | 1738.9 | 1709.4 | 1679.9 | 1648.1 |
| 25° | 1789.5 | 1821.3 | 1878.1 | 1895.1 | 1840.3 | 1772.6 | 1715.7 | 1669.3 | 1620.8 | 1572.2 | 1536.3 |
| 27.5° | 1857.1 | 1903.6 | 1960.4 | 1911.9 | 1804.3 | 1709.4 | 1631.2 | 1561.7 | 1498.4 | 1430.8 | 1390.7 |
| 30° | 1928.9 | 2000.5 | 2013.2 | 1886.6 | 1743.1 | 1620.8 | 1515.2 | 1409.7 | 1329.4 | 1268.3 | 1245.1 |
| 32.5° | 2015.4 | 2108.2 | 2032.2 | 1842.3 | 1660.8 | 1500.4 | 1359.0 | 1232.5 | 1164.9 | 1126.9 | 1116.4 |
| 35° | 2146.2 | 2222.3 | 2042.8 | 1795.9 | 1565.9 | 1356.9 | 1179.7 | 1078.4 | 1036.3 | 1010.8 | 998.2 |
| 37.5° | 2334.0 | 2331.9 | 2040.6 | 1738.9 | 1456.1 | 1200.8 | 1036.3 | 964.4 | 930.7 | 909.6 | 886.3 |
| 40° | 2553.5 | 2416.3 | 2028.1 | 1656.6 | 1308.4 | 1051.0 | 937.0 | 869.4 | 837.8 | 812.5 | 785.0 |
| 42.5° | 2770.9 | 2473.3 | 1992.2 | 1534.2 | 1124.9 | 943.4 | 865.3 | 804.0 | 770.3 | 742.9 | 704.8 |
| 45° | 2958.6 | 2496.5 | 1922.5 | 1365.4 | 960.2 | 858.9 | 818.8 | 766.0 | 725.9 | 683.8 | 654.3 |
| 47.5° | 3106.3 | 2492.3 | 1810.7 | 1167.0 | 850.5 | 799.8 | 780.7 | 744.9 | 696.4 | 643.6 | 605.7 |
| 50° | 3230.9 | 2460.6 | 1658.7 | 991.8 | 776.7 | 747.0 | 740.8 | 730.2 | 652.1 | 607.8 | 584.5 |
| 52.5° | 3344.9 | 2414.2 | 1496.2 | 873.6 | 713.3 | 688.0 | 700.7 | 690.1 | 635.3 | 597.2 | 574.0 |
| 55° | 3501.0 | 2382.5 | 1335.8 | 783.0 | 639.3 | 633.0 | 643.6 | 658.4 | 624.6 | 588.8 | 563.4 |
| 57.5° | 3684.7 | 2399.5 | 1213.5 | 681.7 | 569.8 | 574.0 | 609.8 | 631.0 | 614.1 | 576.2 | 550.7 |
| 60° | 3895.6 | 2450.1 | 1105.8 | 584.5 | 512.9 | 523.4 | 576.2 | 605.7 | 603.5 | 559.2 | 529.7 |
| 62.5° | 4131.9 | 2502.8 | 934.8 | 510.7 | 464.3 | 481.2 | 536.0 | 574.0 | 580.3 | 542.4 | 506.5 |
| 63° | 4178.4 | 2507.1 | 890.6 | 495.9 | 455.8 | 474.8 | 525.4 | 565.5 | 574.0 | 538.1 | 502.3 |
| 65° | 4292.4 | 2469.0 | 717.5 | 455.8 | 422.1 | 443.1 | 493.9 | 529.7 | 546.7 | 514.9 | 485.3 |
| 67.5° | 4197.4 | 2158.9 | 540.3 | 407.3 | 394.7 | 409.4 | 453.8 | 487.6 | 502.3 | 487.6 | 457.9 |
| 70° | 3838.8 | 1570.0 | 422.1 | 363.0 | 365.0 | 375.7 | 409.4 | 441.1 | 457.9 | 453.8 | 426.3 |
| 72.5° | 3091.6 | 890.6 | 352.5 | 324.9 | 331.3 | 343.9 | 367.2 | 396.7 | 411.5 | 409.4 | 390.4 |
| 75° | 2036.5 | 455.8 | 297.5 | 291.1 | 295.4 | 306.0 | 322.9 | 346.2 | 363.0 | 360.9 | 352.5 |
| 77.5° | 1008.7 | 316.6 | 255.3 | 257.5 | 259.6 | 268.0 | 280.7 | 301.8 | 312.4 | 314.4 | 312.4 |
| 80° | 415.7 | 246.9 | 219.5 | 221.6 | 223.7 | 230.0 | 238.5 | 257.5 | 263.8 | 268.0 | 270.1 |
| 82.5° | 249.0 | 187.8 | 175.2 | 179.4 | 181.5 | 187.8 | 194.2 | 211.0 | 217.3 | 223.7 | 223.7 |
| 85° | 164.7 | 130.9 | 126.6 | 130.9 | 135.1 | 139.3 | 141.4 | 152.0 | 162.5 | 171.0 | 175.2 |
| 87.5° | 88.6 | 78.1 | 75.9 | 78.1 | 78.1 | 82.3 | 86.6 | 97.0 | 109.7 | 118.2 | 122.4 |
| 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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