

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: P572917

Luminaire Tested: **ARCH-S-PA2-130-740-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-740-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16014 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

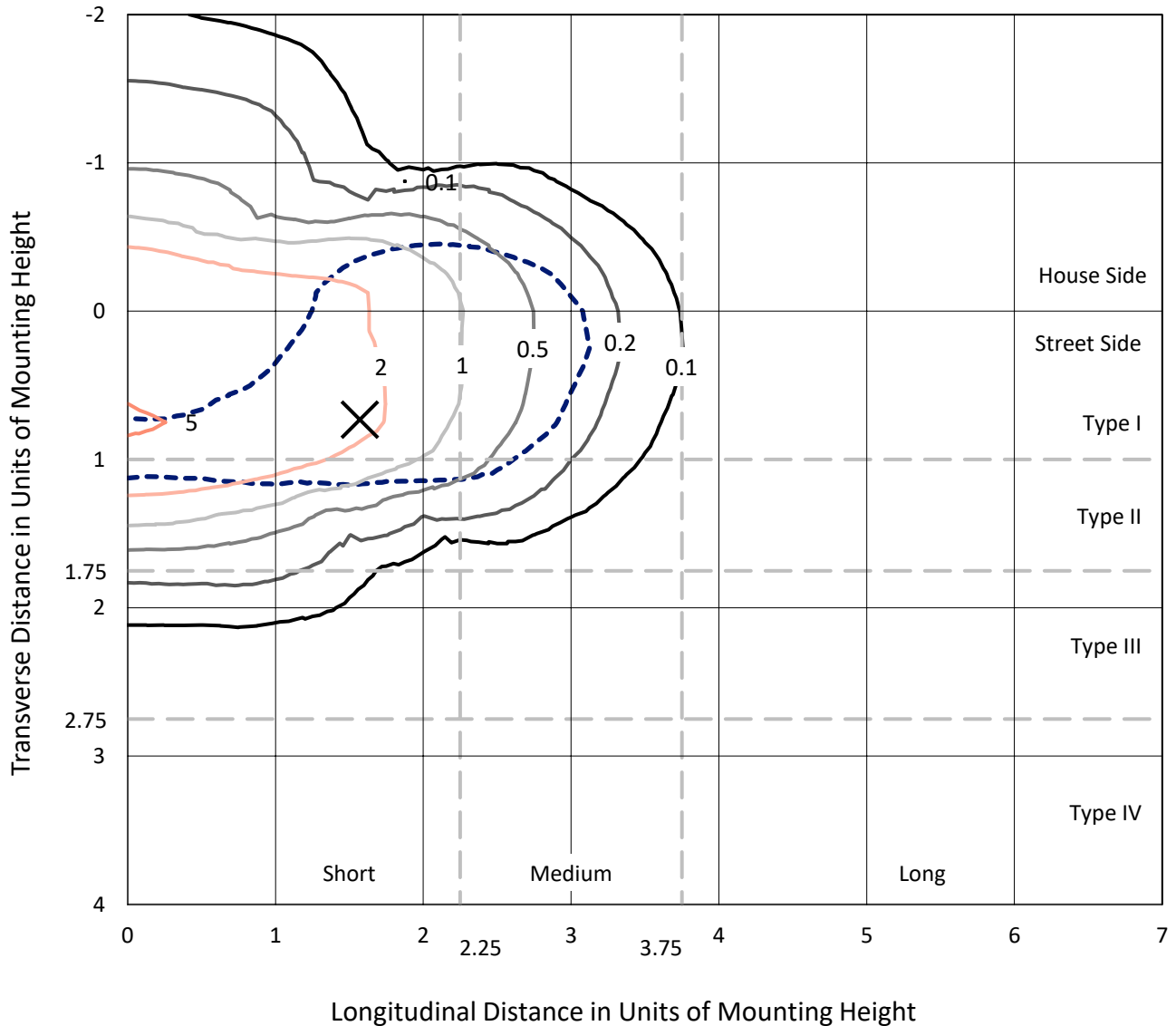
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572917
 CATALOG NUMBER: ARCH-S-PA2-130-740-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

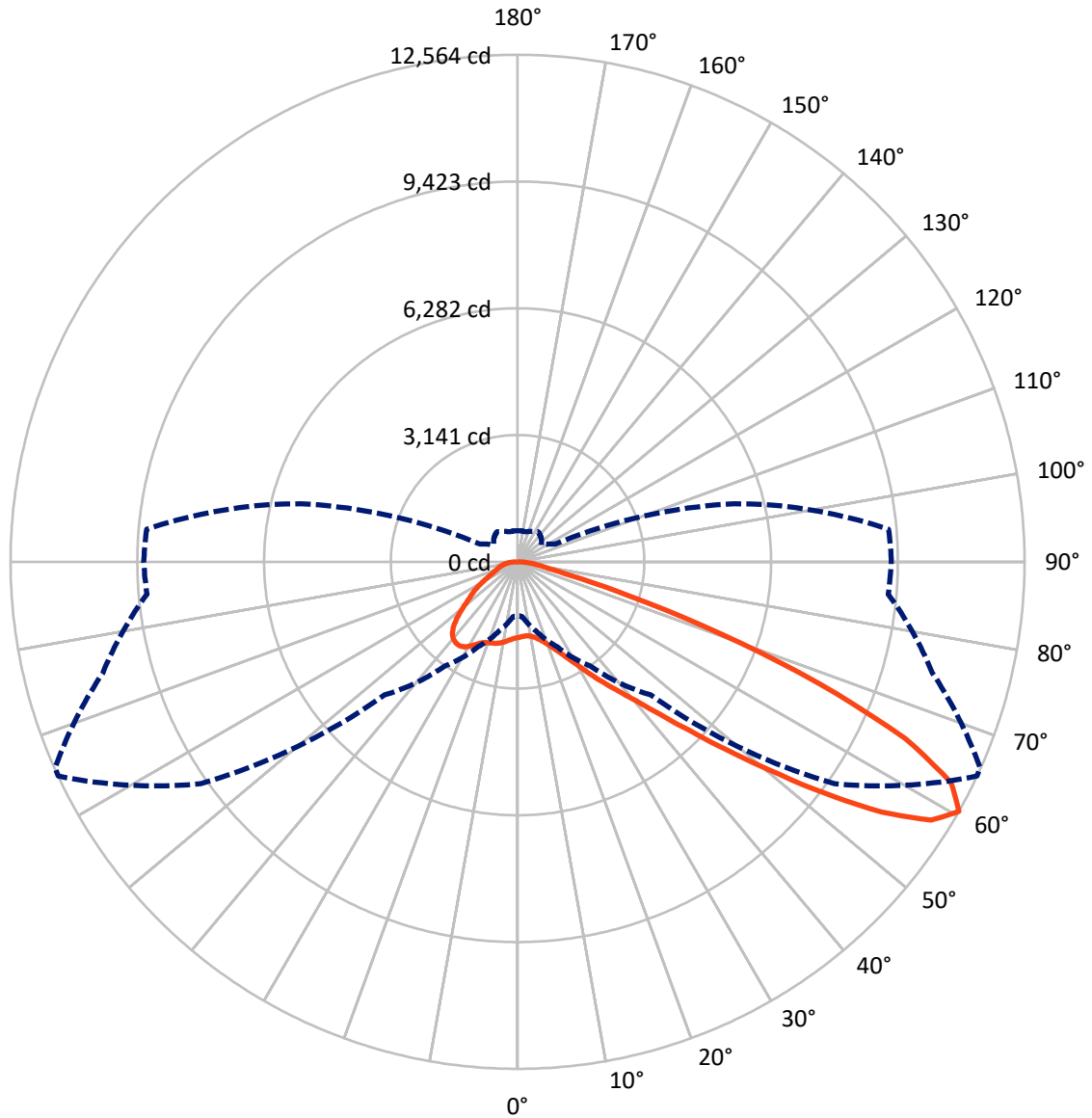
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

REPORT NUMBER: P572917
CATALOG NUMBER: ARCH-S-PA2-130-740-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P572917
 CATALOG NUMBER: ARCH-S-PA2-130-740-U-T2U

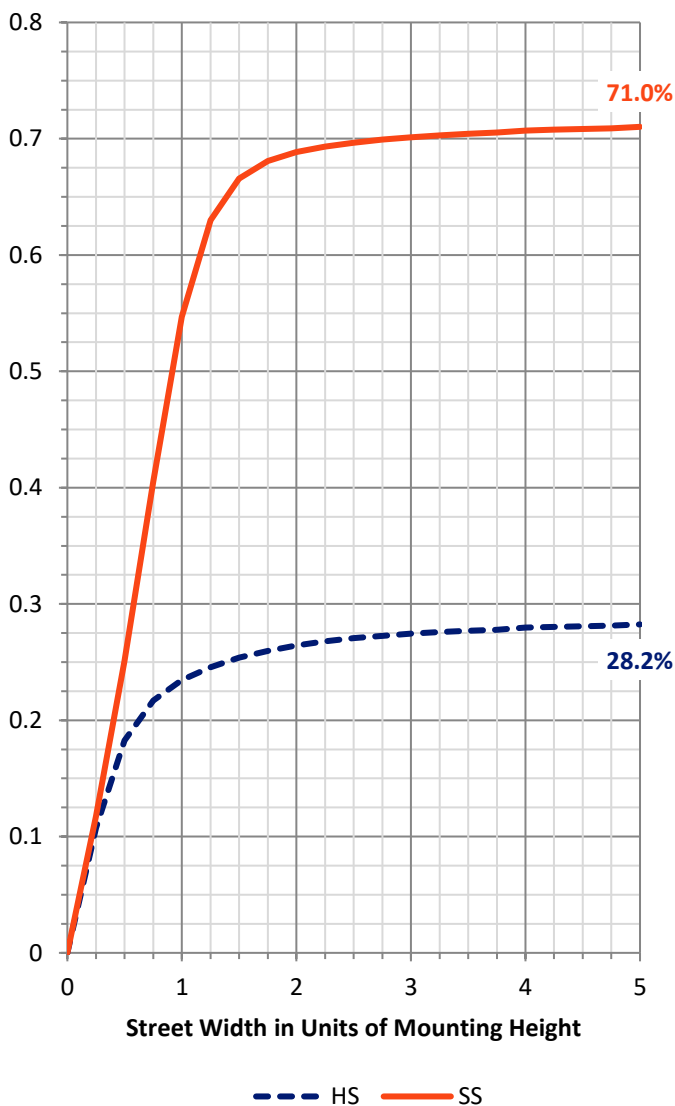
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4584.4 | 0.0 | 4584.4 |
| | % Fixture | 28.6 | 0.0 | 28.6 |
| Street Side | Lumens | 11429.6 | 0.0 | 11429.6 |
| | % Fixture | 71.4 | 0.0 | 71.4 |
| Total | Lumens | 16014.0 | 0.0 | 16014.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 181.5 | 1.1 |
| 10°-20° | 584.2 | 3.6 |
| 20°-30° | 1120.0 | 7.0 |
| 30°-40° | 1945.1 | 12.1 |
| 40°-50° | 3298.9 | 20.6 |
| 50°-60° | 4107.9 | 25.7 |
| 60°-70° | 3310.2 | 20.7 |
| 70°-80° | 1253.5 | 7.8 |
| 80°-90° | 212.6 | 1.3 |
| 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° | 16014.0 | 100.0 |
| 0°-180° | 16014.0 | 100.0 |

Coefficient of Utilization



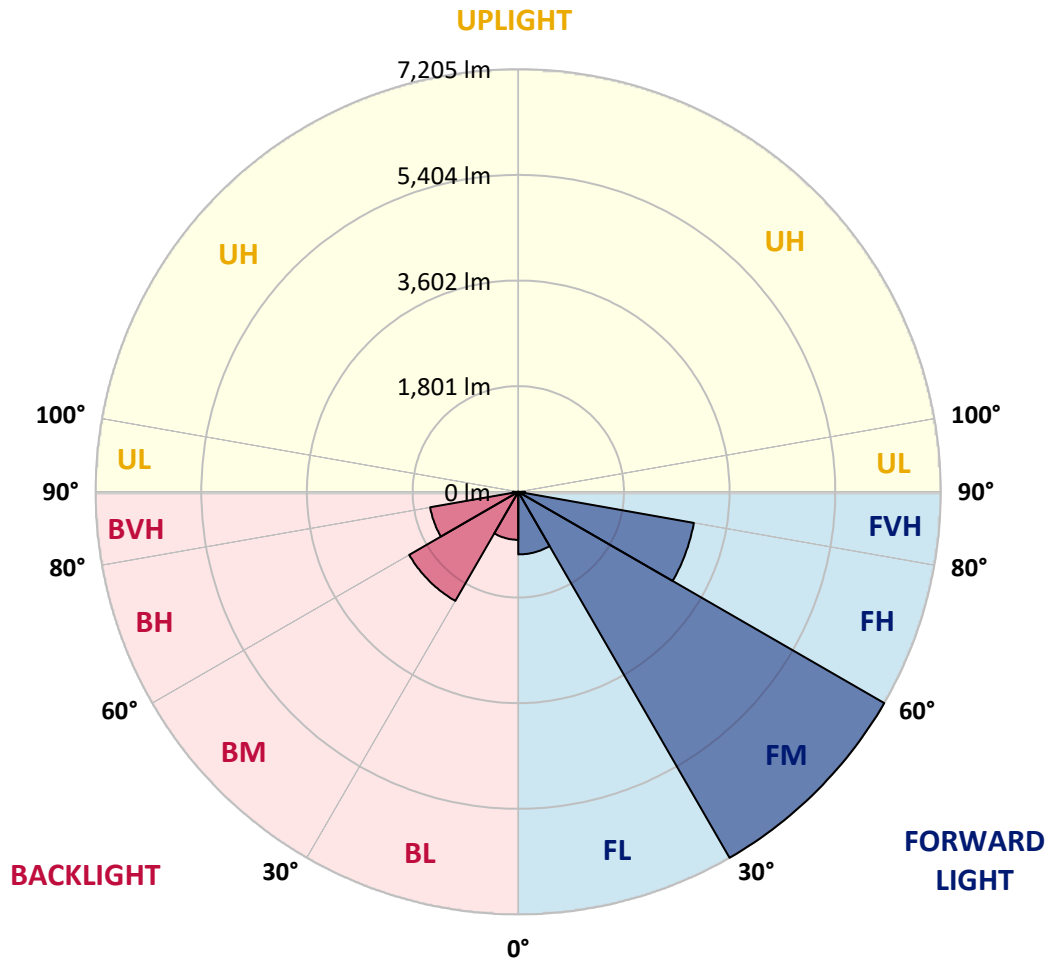
REPORT NUMBER: P572917
 CATALOG NUMBER: ARCH-S-PA2-130-740-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1067.6 | 6.7 | | | |
| FM (30°-60°) | 7204.7 | 45.0 | | | |
| FH (60°-80°) | 3039.4 | 19.0 | | | G2/5000 |
| FVH (80°-90°) | 117.9 | 0.7 | | | G2/225 |
| BL (0°-30°) | 818.2 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 2147.2 | 13.4 | B2/2500 | | |
| BH (60°-80°) | 1524.3 | 9.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 94.7 | 0.6 | | | 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





REPORT NUMBER: P572917

CATALOG NUMBER: ARCH-S-PA2-130-740-U-T2U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0° | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 |
| 2.5° | 1835.0 | 1835.0 | 1835.0 | 1839.4 | 1843.8 | 1848.2 | 1857.0 | 1857.0 | 1857.0 | 1861.4 | 1870.1 |
| 5° | 1799.9 | 1795.5 | 1799.9 | 1804.3 | 1813.1 | 1821.9 | 1839.4 | 1848.2 | 1848.2 | 1865.8 | 1883.3 |
| 7.5° | 1804.3 | 1795.5 | 1795.5 | 1799.9 | 1808.7 | 1817.5 | 1835.0 | 1848.2 | 1852.6 | 1874.5 | 1905.3 |
| 10° | 1848.2 | 1835.0 | 1835.0 | 1839.4 | 1839.4 | 1848.2 | 1861.4 | 1878.9 | 1883.3 | 1905.3 | 1936.0 |
| 12.5° | 1940.4 | 1927.2 | 1922.8 | 1909.7 | 1896.5 | 1905.3 | 1918.4 | 1922.8 | 1927.2 | 1940.4 | 1971.1 |
| 15° | 2133.5 | 2111.6 | 2076.5 | 2050.1 | 2015.0 | 1993.1 | 1988.7 | 1993.1 | 1993.1 | 1997.5 | 2015.0 |
| 17.5° | 2410.1 | 2383.8 | 2331.1 | 2274.0 | 2190.6 | 2120.4 | 2098.4 | 2080.9 | 2080.9 | 2067.7 | 2067.7 |
| 20° | 2748.1 | 2708.6 | 2647.2 | 2563.8 | 2440.8 | 2313.5 | 2238.9 | 2199.4 | 2186.2 | 2164.3 | 2133.5 |
| 22.5° | 3138.9 | 3112.5 | 3033.5 | 2906.2 | 2721.8 | 2550.6 | 2427.7 | 2339.9 | 2339.9 | 2287.2 | 2221.3 |
| 25° | 3599.8 | 3551.5 | 3459.3 | 3310.1 | 3059.8 | 2814.0 | 2647.2 | 2519.9 | 2506.7 | 2423.3 | 2317.9 |
| 27.5° | 4047.6 | 4016.9 | 3902.7 | 3705.2 | 3406.6 | 3121.3 | 2888.6 | 2739.4 | 2717.4 | 2585.7 | 2423.3 |
| 30° | 4591.9 | 4556.8 | 4385.6 | 4109.0 | 3788.6 | 3463.7 | 3191.5 | 2998.4 | 2976.4 | 2796.4 | 2568.2 |
| 32.5° | 5268.0 | 5149.5 | 4938.8 | 4622.7 | 4210.0 | 3845.6 | 3534.0 | 3327.6 | 3301.3 | 3095.0 | 2822.8 |
| 35° | 6088.9 | 5988.0 | 5623.6 | 5290.0 | 4798.3 | 4319.8 | 3946.6 | 3674.4 | 3639.3 | 3393.5 | 3051.1 |
| 37.5° | 6668.4 | 6620.1 | 6369.9 | 6106.5 | 5544.6 | 4899.2 | 4442.7 | 4065.1 | 4030.0 | 3705.2 | 3261.8 |
| 40° | 7032.8 | 6984.5 | 6914.3 | 6839.6 | 6527.9 | 5799.2 | 5039.7 | 4526.1 | 4469.0 | 4161.7 | 3683.2 |
| 42.5° | 7221.6 | 7182.1 | 7195.2 | 7344.5 | 7432.3 | 7318.1 | 5891.4 | 5140.7 | 5101.2 | 4728.0 | 4196.8 |
| 45° | 7111.8 | 7085.5 | 7212.8 | 7607.9 | 8038.1 | 8881.0 | 6984.5 | 5948.5 | 5843.1 | 5399.7 | 4820.2 |
| 47.5° | 6585.0 | 6506.0 | 6804.5 | 7476.2 | 8398.1 | 9627.3 | 8301.5 | 6945.0 | 6830.9 | 6194.3 | 5452.4 |
| 50° | 5500.7 | 5478.7 | 5887.0 | 6738.7 | 8257.6 | 9921.4 | 9710.7 | 8121.5 | 8038.1 | 7050.4 | 6154.8 |
| 52.5° | 4491.0 | 4482.2 | 4798.3 | 5579.7 | 7362.0 | 9715.1 | 10733.6 | 9521.9 | 9271.7 | 7910.8 | 6918.7 |
| 55° | 3485.7 | 3481.3 | 3762.2 | 4346.1 | 5873.8 | 8744.9 | 11216.5 | 10948.7 | 10764.3 | 8850.3 | 7704.5 |
| 57.5° | 2383.8 | 2353.0 | 2717.4 | 3160.8 | 4412.0 | 6927.4 | 10900.4 | 12076.9 | 11962.8 | 9846.8 | 8538.6 |
| 60° | 1325.8 | 1369.7 | 1773.6 | 2322.3 | 3156.4 | 4666.6 | 9583.4 | 12564.2 | 12546.6 | 10641.4 | 9219.0 |
| 62.5° | 939.5 | 957.0 | 1128.2 | 1650.6 | 2076.5 | 2673.5 | 7392.8 | 12059.4 | 12199.8 | 11080.4 | 9605.3 |
| 65° | 781.4 | 790.2 | 873.6 | 1220.4 | 1518.9 | 1545.3 | 4609.5 | 10562.4 | 10746.7 | 10944.3 | 9688.7 |
| 67.5° | 737.5 | 741.9 | 785.8 | 900.0 | 1189.7 | 1119.5 | 2058.9 | 8064.4 | 8455.2 | 9846.8 | 9144.4 |
| 70° | 671.7 | 676.1 | 741.9 | 794.6 | 961.4 | 882.4 | 1058.0 | 5355.8 | 5882.6 | 7783.5 | 7884.5 |
| 72.5° | 575.1 | 588.3 | 640.9 | 746.3 | 781.4 | 733.1 | 816.5 | 2862.3 | 3384.7 | 5206.6 | 6088.9 |
| 75° | 496.1 | 504.9 | 544.4 | 632.2 | 733.1 | 583.9 | 693.6 | 1303.8 | 1527.7 | 3055.4 | 3854.4 |
| 77.5° | 399.5 | 403.9 | 461.0 | 518.0 | 614.6 | 474.1 | 540.0 | 781.4 | 820.9 | 1492.6 | 1742.8 |
| 80° | 302.9 | 302.9 | 342.4 | 412.7 | 456.6 | 456.6 | 395.1 | 544.4 | 566.3 | 711.2 | 689.2 |
| 82.5° | 232.7 | 228.3 | 259.0 | 289.7 | 329.3 | 381.9 | 298.5 | 360.0 | 368.8 | 430.2 | 368.8 |
| 85° | 153.7 | 153.7 | 171.2 | 197.6 | 219.5 | 210.7 | 232.7 | 210.7 | 219.5 | 267.8 | 201.9 |
| 87.5° | 65.9 | 65.9 | 92.2 | 87.8 | 96.6 | 101.0 | 114.1 | 101.0 | 101.0 | 122.9 | 92.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P572917

CATALOG NUMBER: ARCH-S-PA2-130-740-U-T2U

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 | 1878.9 |
| 2.5° | 1874.5 | 1878.9 | 1887.7 | 1892.1 | 1905.3 | 1909.7 | 1909.7 | 1918.4 | 1918.4 | 1927.2 | 1927.2 |
| 5° | 1887.7 | 1900.9 | 1914.0 | 1927.2 | 1940.4 | 1944.8 | 1953.6 | 1957.9 | 1957.9 | 1966.7 | 1962.3 |
| 7.5° | 1914.0 | 1927.2 | 1953.6 | 1966.7 | 1984.3 | 1993.1 | 1988.7 | 1993.1 | 1988.7 | 1993.1 | 1993.1 |
| 10° | 1949.2 | 1966.7 | 1997.5 | 2015.0 | 2028.2 | 2032.6 | 2019.4 | 2006.2 | 1988.7 | 1988.7 | 1988.7 |
| 12.5° | 1988.7 | 2001.8 | 2041.4 | 2054.5 | 2063.3 | 2050.1 | 2015.0 | 1988.7 | 1975.5 | 1979.9 | 1975.5 |
| 15° | 2028.2 | 2041.4 | 2072.1 | 2085.3 | 2085.3 | 2045.7 | 2015.0 | 2006.2 | 2001.8 | 2006.2 | 2006.2 |
| 17.5° | 2067.7 | 2080.9 | 2107.2 | 2107.2 | 2094.0 | 2063.3 | 2032.6 | 2001.8 | 1979.9 | 1966.7 | 1966.7 |
| 20° | 2120.4 | 2120.4 | 2129.2 | 2129.2 | 2124.8 | 2076.5 | 2001.8 | 1927.2 | 1883.3 | 1857.0 | 1852.6 |
| 22.5° | 2190.6 | 2173.1 | 2155.5 | 2155.5 | 2173.1 | 2045.7 | 1900.9 | 1786.7 | 1716.5 | 1707.7 | 1690.2 |
| 25° | 2265.2 | 2225.7 | 2181.8 | 2212.6 | 2181.8 | 1966.7 | 1760.4 | 1606.7 | 1523.3 | 1492.6 | 1501.4 |
| 27.5° | 2344.3 | 2282.8 | 2217.0 | 2304.8 | 2137.9 | 1813.1 | 1562.8 | 1391.6 | 1312.6 | 1290.7 | 1290.7 |
| 30° | 2454.0 | 2361.8 | 2265.2 | 2401.3 | 2054.5 | 1637.5 | 1330.2 | 1207.3 | 1163.4 | 1145.8 | 1141.4 |
| 32.5° | 2664.7 | 2524.3 | 2383.8 | 2489.1 | 1962.3 | 1409.2 | 1172.1 | 1097.5 | 1044.8 | 1027.3 | 1040.4 |
| 35° | 2853.5 | 2656.0 | 2563.8 | 2528.6 | 1817.5 | 1224.8 | 1075.6 | 1009.7 | 965.8 | 943.9 | 943.9 |
| 37.5° | 3024.7 | 2835.9 | 2765.7 | 2528.6 | 1628.7 | 1110.7 | 1014.1 | 961.4 | 904.3 | 886.8 | 886.8 |
| 40° | 3397.9 | 3147.6 | 3024.7 | 2493.5 | 1396.0 | 1053.6 | 983.4 | 921.9 | 873.6 | 856.1 | 851.7 |
| 42.5° | 3911.5 | 3573.5 | 3292.5 | 2414.5 | 1198.5 | 1027.3 | 965.8 | 895.6 | 856.1 | 842.9 | 838.5 |
| 45° | 4455.9 | 4157.3 | 3547.1 | 2274.0 | 1071.2 | 1000.9 | 961.4 | 886.8 | 838.5 | 825.3 | 820.9 |
| 47.5° | 5114.4 | 4807.1 | 3841.3 | 2058.9 | 983.4 | 983.4 | 957.0 | 873.6 | 829.7 | 816.5 | 816.5 |
| 50° | 5843.1 | 5588.5 | 4214.4 | 1813.1 | 917.5 | 970.2 | 948.2 | 873.6 | 825.3 | 812.2 | 807.8 |
| 52.5° | 6589.4 | 6470.9 | 4605.1 | 1571.6 | 851.7 | 952.6 | 943.9 | 873.6 | 816.5 | 803.4 | 803.4 |
| 55° | 7537.6 | 7441.1 | 5057.3 | 1391.6 | 799.0 | 917.5 | 943.9 | 864.8 | 803.4 | 794.6 | 794.6 |
| 57.5° | 8468.3 | 8433.2 | 5408.5 | 1233.6 | 759.5 | 873.6 | 930.7 | 851.7 | 790.2 | 785.8 | 785.8 |
| 60° | 9262.9 | 9227.8 | 5557.8 | 1036.0 | 720.0 | 829.7 | 904.3 | 829.7 | 768.3 | 772.6 | 772.6 |
| 62.5° | 9754.6 | 9552.7 | 5448.0 | 856.1 | 680.5 | 790.2 | 873.6 | 803.4 | 746.3 | 759.5 | 755.1 |
| 65° | 9842.4 | 9372.7 | 5022.2 | 715.6 | 636.6 | 746.3 | 838.5 | 772.6 | 715.6 | 746.3 | 741.9 |
| 67.5° | 9197.1 | 8415.6 | 4223.2 | 623.4 | 592.7 | 698.0 | 799.0 | 728.7 | 680.5 | 724.4 | 711.2 |
| 70° | 7801.0 | 6835.2 | 3125.7 | 553.1 | 548.8 | 640.9 | 746.3 | 676.1 | 632.2 | 654.1 | 636.6 |
| 72.5° | 5808.0 | 4934.4 | 2023.8 | 500.5 | 500.5 | 575.1 | 671.7 | 610.2 | 566.3 | 570.7 | 553.1 |
| 75° | 3621.8 | 3033.5 | 1150.2 | 452.2 | 452.2 | 509.2 | 597.0 | 535.6 | 504.9 | 487.3 | 509.2 |
| 77.5° | 1646.3 | 1334.6 | 605.8 | 403.9 | 408.3 | 434.6 | 513.6 | 456.6 | 421.4 | 395.1 | 408.3 |
| 80° | 610.2 | 544.4 | 395.1 | 346.8 | 355.6 | 360.0 | 412.7 | 364.4 | 333.6 | 316.1 | 307.3 |
| 82.5° | 316.1 | 294.1 | 267.8 | 276.6 | 289.7 | 276.6 | 320.5 | 272.2 | 237.1 | 223.9 | 188.8 |
| 85° | 158.0 | 153.7 | 162.4 | 184.4 | 201.9 | 171.2 | 193.2 | 175.6 | 144.9 | 105.4 | 105.4 |
| 87.5° | 61.5 | 65.9 | 61.5 | 83.4 | 92.2 | 79.0 | 87.8 | 61.5 | 43.9 | 22.0 | 17.6 |
| 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)