

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: P572918

Luminaire Tested: **ARCH-S-PA2-130-740-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
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-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12063 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

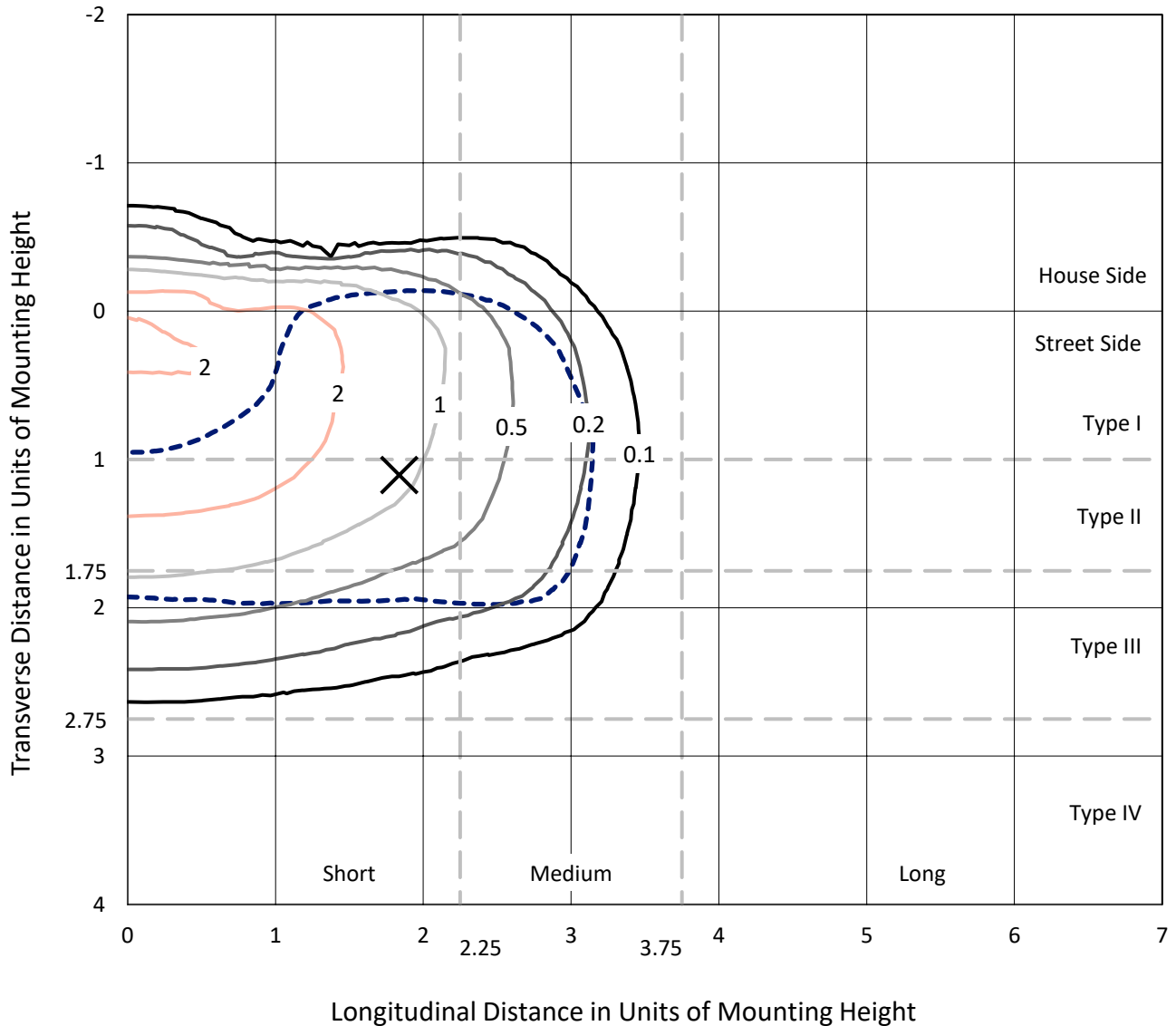
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572918
 CATALOG NUMBER: ARCH-S-PA2-130-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

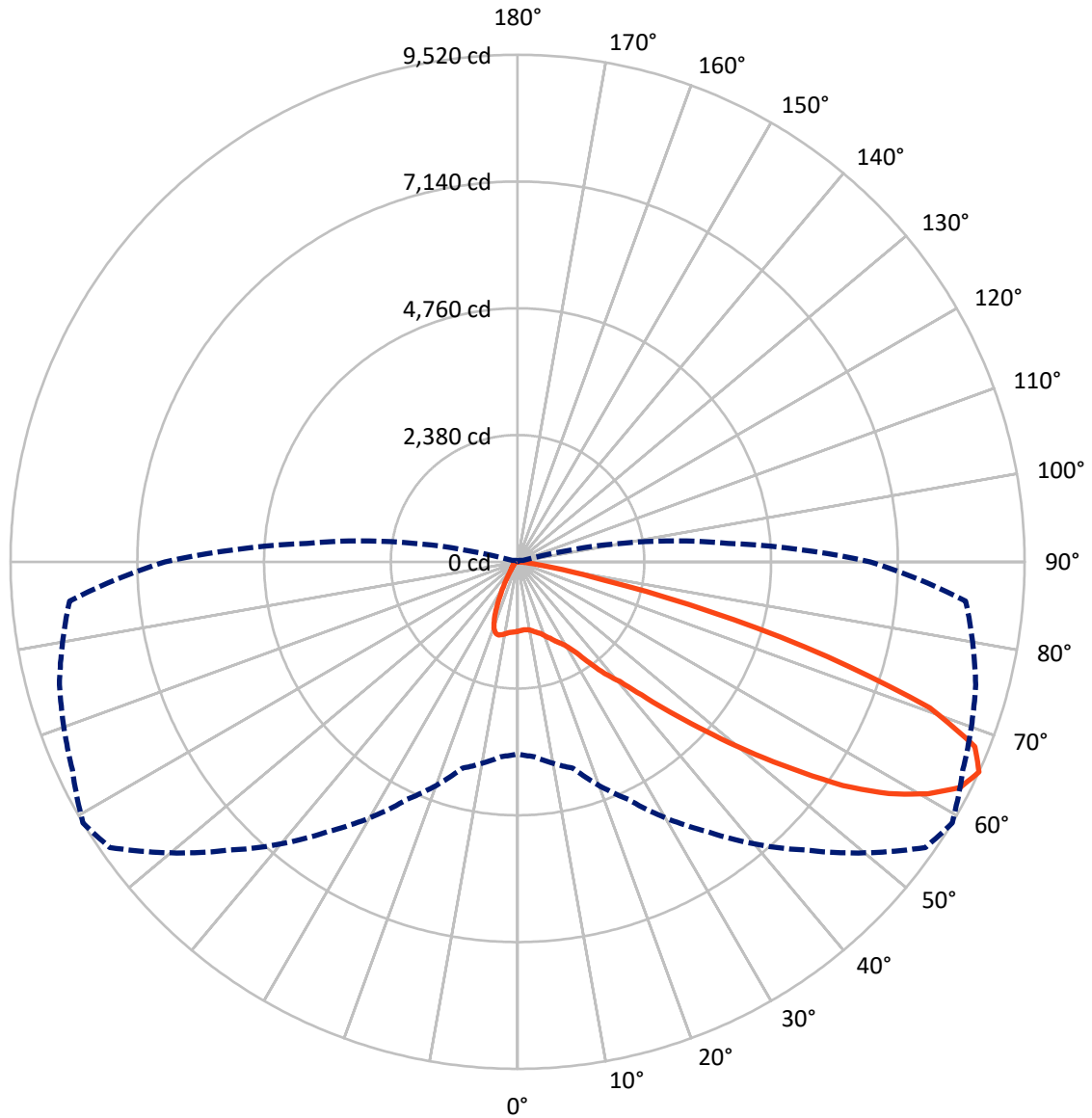
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

REPORT NUMBER: P572918
CATALOG NUMBER: ARCH-S-PA2-130-740-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P572918
 CATALOG NUMBER: ARCH-S-PA2-130-740-U-T3-HSS

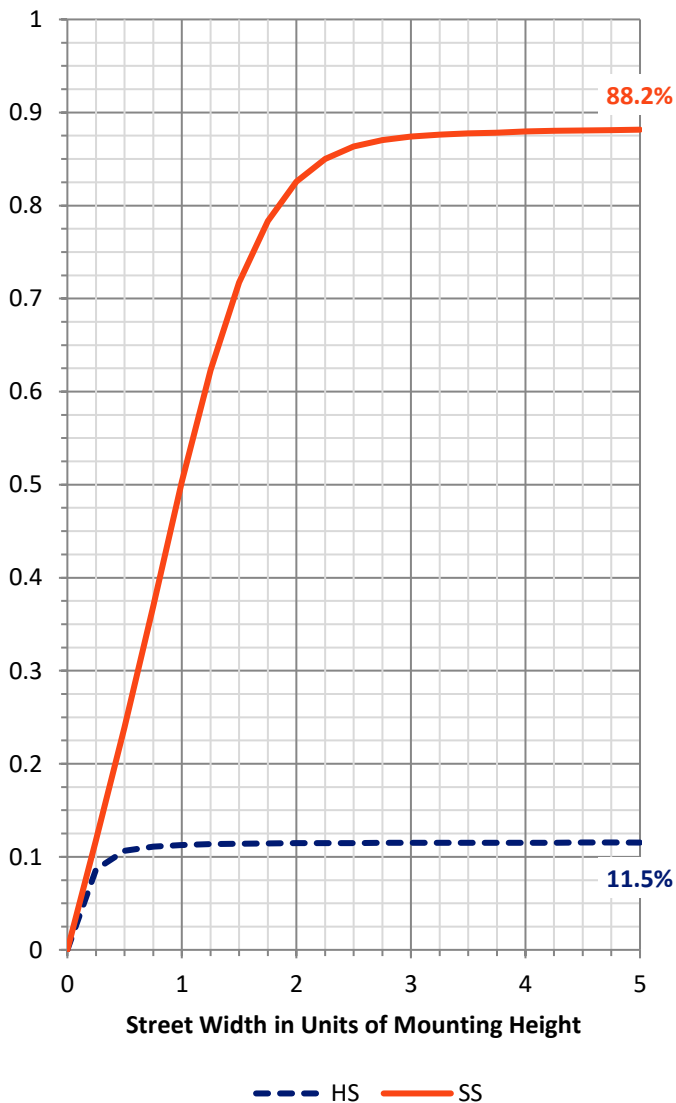
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1407.3 | 0.0 | 1407.3 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 10655.7 | 0.0 | 10655.7 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 12063.0 | 0.0 | 12063.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 123.2 | 1.0 |
| 10°-20° | 349.9 | 2.9 |
| 20°-30° | 594.4 | 4.9 |
| 30°-40° | 1052.8 | 8.7 |
| 40°-50° | 1986.1 | 16.5 |
| 50°-60° | 3360.3 | 27.9 |
| 60°-70° | 3493.7 | 29.0 |
| 70°-80° | 1047.7 | 8.7 |
| 80°-90° | 54.9 | 0.5 |
| 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° | 12063.0 | 100.0 |
| 0°-180° | 12063.0 | 100.0 |

Coefficient of Utilization



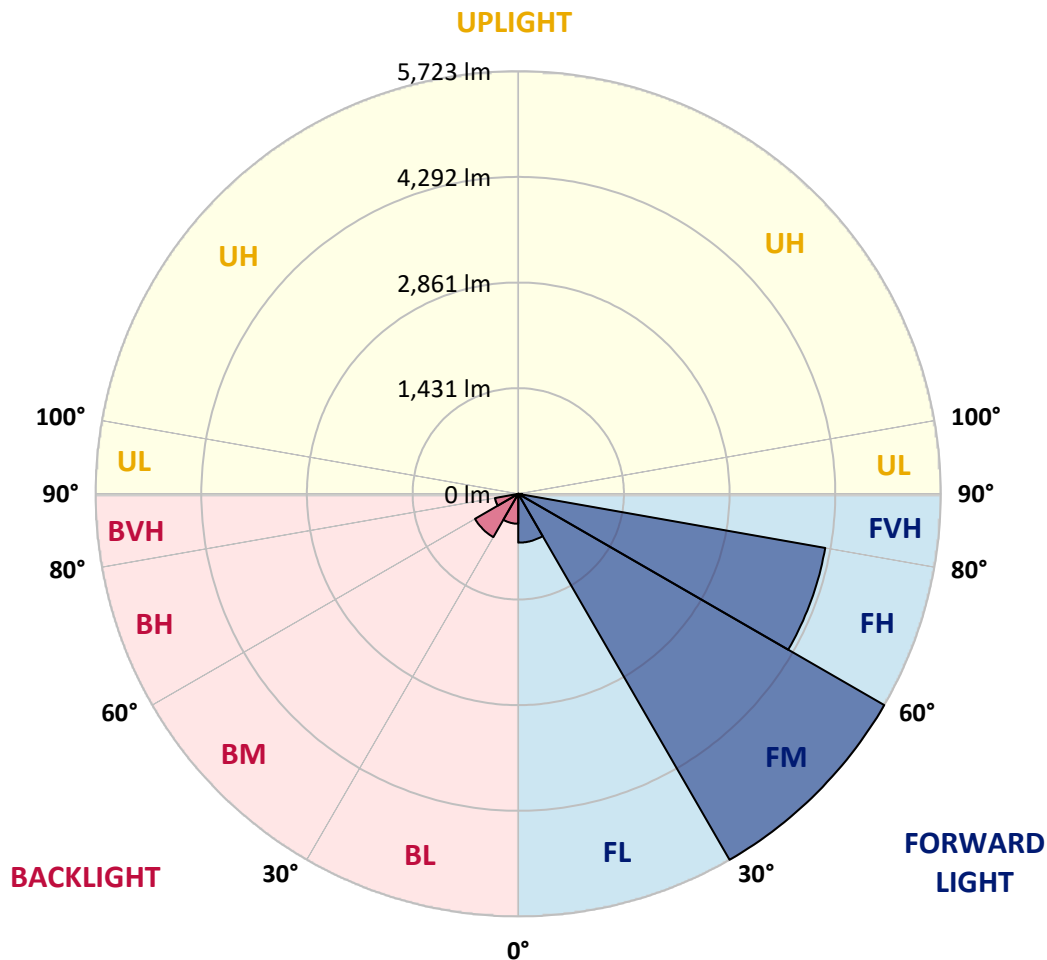
REPORT NUMBER: P572918
 CATALOG NUMBER: ARCH-S-PA2-130-740-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 661.5 | 5.5 | | | |
| FM (30°-60°) | 5722.7 | 47.4 | | | |
| FH (60°-80°) | 4221.2 | 35.0 | | | G2/5000 |
| FVH (80°-90°) | 50.3 | 0.4 | | | G1/100 |
| BL (0°-30°) | 405.9 | 3.4 | B1/500 | | |
| BM (30°-60°) | 676.5 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 320.2 | 2.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P572918

CATALOG NUMBER: ARCH-S-PA2-130-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 |
| 2.5° | 1268.4 | 1264.0 | 1264.0 | 1272.8 | 1277.2 | 1281.6 | 1290.4 | 1290.4 | 1290.4 | 1299.1 | 1303.5 |
| 5° | 1207.0 | 1207.0 | 1211.4 | 1220.1 | 1237.7 | 1250.9 | 1277.2 | 1277.2 | 1286.0 | 1307.9 | 1316.7 |
| 7.5° | 1167.5 | 1167.5 | 1171.9 | 1189.4 | 1211.4 | 1242.1 | 1277.2 | 1277.2 | 1286.0 | 1299.1 | 1329.9 |
| 10° | 1163.1 | 1158.7 | 1167.5 | 1185.0 | 1211.4 | 1250.9 | 1290.4 | 1290.4 | 1303.5 | 1329.9 | 1369.4 |
| 12.5° | 1176.2 | 1171.9 | 1180.6 | 1198.2 | 1224.5 | 1264.0 | 1316.7 | 1316.7 | 1338.6 | 1369.4 | 1422.0 |
| 15° | 1185.0 | 1180.6 | 1189.4 | 1211.4 | 1242.1 | 1290.4 | 1351.8 | 1351.8 | 1378.1 | 1417.6 | 1492.3 |
| 17.5° | 1211.4 | 1207.0 | 1211.4 | 1228.9 | 1259.6 | 1312.3 | 1391.3 | 1391.3 | 1417.6 | 1483.5 | 1566.9 |
| 20° | 1329.9 | 1325.5 | 1299.1 | 1290.4 | 1294.7 | 1343.0 | 1444.0 | 1444.0 | 1487.9 | 1566.9 | 1672.2 |
| 22.5° | 1575.6 | 1558.1 | 1509.8 | 1430.8 | 1378.1 | 1395.7 | 1509.8 | 1509.8 | 1558.1 | 1663.4 | 1781.9 |
| 25° | 1904.8 | 1891.7 | 1821.4 | 1685.4 | 1536.1 | 1492.3 | 1584.4 | 1584.4 | 1650.3 | 1777.5 | 1909.2 |
| 27.5° | 2277.9 | 2251.5 | 2185.7 | 1997.0 | 1795.1 | 1650.3 | 1676.6 | 1676.6 | 1733.6 | 1874.1 | 2014.5 |
| 30° | 2602.7 | 2593.9 | 2519.3 | 2361.3 | 2124.3 | 1909.2 | 1817.0 | 1817.0 | 1847.8 | 1975.0 | 2124.3 |
| 32.5° | 2901.1 | 2874.8 | 2813.3 | 2664.1 | 2444.7 | 2225.2 | 2040.9 | 2040.9 | 2040.9 | 2146.2 | 2321.8 |
| 35° | 3230.3 | 3212.7 | 3138.1 | 2988.9 | 2778.2 | 2519.3 | 2352.5 | 2352.5 | 2334.9 | 2422.7 | 2620.2 |
| 37.5° | 3568.2 | 3524.4 | 3489.2 | 3335.6 | 3125.0 | 2901.1 | 2699.2 | 2699.2 | 2659.7 | 2703.6 | 2848.4 |
| 40° | 3989.6 | 3989.6 | 3910.6 | 3770.1 | 3572.6 | 3335.6 | 3054.7 | 3054.7 | 2953.8 | 2940.6 | 3129.3 |
| 42.5° | 4481.1 | 4468.0 | 4402.1 | 4270.5 | 4081.8 | 3862.3 | 3506.8 | 3506.8 | 3414.6 | 3405.8 | 3634.1 |
| 45° | 5047.3 | 5038.5 | 4959.5 | 4849.8 | 4718.2 | 4476.8 | 4125.6 | 4125.6 | 4033.5 | 3980.8 | 4244.1 |
| 47.5° | 5565.2 | 5534.5 | 5508.2 | 5521.3 | 5446.7 | 5174.6 | 4845.4 | 4845.4 | 4735.7 | 4731.3 | 4937.6 |
| 50° | 5920.7 | 5903.2 | 5995.3 | 6083.1 | 6223.6 | 6052.4 | 5661.8 | 5661.8 | 5565.2 | 5490.6 | 5762.7 |
| 52.5° | 6153.3 | 6144.6 | 6328.9 | 6579.1 | 6868.8 | 6855.6 | 6508.9 | 6508.9 | 6451.8 | 6390.4 | 6465.0 |
| 55° | 6245.5 | 6245.5 | 6465.0 | 6925.8 | 7434.9 | 7654.4 | 7492.0 | 7492.0 | 7413.0 | 7197.9 | 7044.3 |
| 57.5° | 6135.8 | 6122.6 | 6407.9 | 7009.2 | 7786.1 | 8238.1 | 8308.3 | 8308.3 | 8216.2 | 7878.2 | 7707.0 |
| 60° | 5670.6 | 5679.3 | 6017.3 | 6776.6 | 7759.7 | 8475.1 | 8927.2 | 8927.2 | 8843.8 | 8505.8 | 8251.3 |
| 62.5° | 4801.5 | 4876.2 | 5231.7 | 6056.8 | 7197.9 | 8286.4 | 9282.7 | 9282.7 | 9326.6 | 8962.3 | 8646.3 |
| 65° | 3607.7 | 3673.6 | 4011.5 | 4924.4 | 6175.3 | 7654.4 | 9348.5 | 9348.5 | 9519.7 | 9225.6 | 8905.2 |
| 67.5° | 2194.5 | 2216.4 | 2629.0 | 3318.1 | 4547.0 | 6377.2 | 8887.7 | 8887.7 | 9260.7 | 9050.1 | 8523.4 |
| 70° | 1022.6 | 1079.7 | 1281.6 | 1812.6 | 2879.2 | 4696.2 | 7680.7 | 7680.7 | 8207.4 | 7970.4 | 7316.4 |
| 72.5° | 399.4 | 417.0 | 544.2 | 838.3 | 1527.4 | 2953.8 | 5732.0 | 5732.0 | 6083.1 | 5920.7 | 5196.6 |
| 75° | 197.5 | 210.7 | 263.3 | 399.4 | 697.8 | 1220.1 | 3502.4 | 3502.4 | 3730.6 | 3462.9 | 2611.4 |
| 77.5° | 144.8 | 144.8 | 175.6 | 245.8 | 381.8 | 452.1 | 1474.7 | 1474.7 | 1654.6 | 1562.5 | 1009.5 |
| 80° | 96.6 | 105.3 | 122.9 | 166.8 | 241.4 | 219.4 | 557.4 | 557.4 | 662.7 | 553.0 | 311.6 |
| 82.5° | 57.1 | 61.4 | 92.2 | 118.5 | 162.4 | 127.3 | 188.7 | 188.7 | 210.7 | 228.2 | 153.6 |
| 85° | 30.7 | 30.7 | 61.4 | 87.8 | 87.8 | 57.1 | 65.8 | 65.8 | 74.6 | 87.8 | 92.2 |
| 87.5° | 8.8 | 8.8 | 39.5 | 52.7 | 35.1 | 30.7 | 35.1 | 35.1 | 35.1 | 39.5 | 48.3 |
| 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: P572918

CATALOG NUMBER: ARCH-S-PA2-130-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 | 1303.5 |
| 2.5° | 1307.9 | 1307.9 | 1312.3 | 1312.3 | 1316.7 | 1316.7 | 1316.7 | 1316.7 | 1321.1 | 1325.5 | 1325.5 |
| 5° | 1321.1 | 1325.5 | 1325.5 | 1325.5 | 1325.5 | 1316.7 | 1312.3 | 1307.9 | 1307.9 | 1312.3 | 1312.3 |
| 7.5° | 1356.2 | 1360.6 | 1356.2 | 1347.4 | 1334.2 | 1316.7 | 1299.1 | 1299.1 | 1294.7 | 1299.1 | 1294.7 |
| 10° | 1408.9 | 1408.9 | 1404.5 | 1382.5 | 1360.6 | 1325.5 | 1290.4 | 1264.0 | 1246.5 | 1242.1 | 1233.3 |
| 12.5° | 1474.7 | 1474.7 | 1461.5 | 1422.0 | 1382.5 | 1316.7 | 1224.5 | 1136.7 | 1066.5 | 1035.8 | 1027.0 |
| 15° | 1540.5 | 1540.5 | 1523.0 | 1465.9 | 1386.9 | 1228.9 | 1035.8 | 851.5 | 746.1 | 702.2 | 675.9 |
| 17.5° | 1619.5 | 1610.8 | 1580.0 | 1501.0 | 1338.6 | 1053.4 | 741.7 | 553.0 | 469.6 | 430.1 | 430.1 |
| 20° | 1702.9 | 1694.1 | 1637.1 | 1505.4 | 1215.7 | 754.9 | 482.8 | 381.8 | 359.9 | 351.1 | 351.1 |
| 22.5° | 1795.1 | 1773.1 | 1685.4 | 1470.3 | 956.8 | 513.5 | 364.3 | 338.0 | 329.2 | 324.8 | 324.8 |
| 25° | 1869.7 | 1834.6 | 1720.5 | 1373.8 | 684.7 | 359.9 | 320.4 | 311.6 | 294.1 | 289.7 | 280.9 |
| 27.5° | 1926.8 | 1874.1 | 1733.6 | 1167.5 | 452.1 | 298.5 | 285.3 | 267.7 | 250.2 | 232.6 | 232.6 |
| 30° | 2001.4 | 1935.5 | 1742.4 | 908.5 | 307.2 | 258.9 | 245.8 | 223.8 | 201.9 | 184.3 | 184.3 |
| 32.5° | 2150.6 | 2054.0 | 1746.8 | 636.4 | 254.6 | 228.2 | 201.9 | 175.6 | 153.6 | 144.8 | 140.4 |
| 35° | 2313.0 | 2181.3 | 1698.5 | 412.6 | 223.8 | 193.1 | 162.4 | 140.4 | 118.5 | 114.1 | 114.1 |
| 37.5° | 2492.9 | 2370.0 | 1593.2 | 280.9 | 197.5 | 162.4 | 131.7 | 109.7 | 96.6 | 92.2 | 92.2 |
| 40° | 2795.8 | 2650.9 | 1417.6 | 223.8 | 171.2 | 136.1 | 109.7 | 92.2 | 83.4 | 79.0 | 79.0 |
| 42.5° | 3230.3 | 2980.1 | 1198.2 | 193.1 | 149.2 | 114.1 | 87.8 | 74.6 | 70.2 | 65.8 | 65.8 |
| 45° | 3730.6 | 3348.8 | 943.6 | 175.6 | 131.7 | 96.6 | 74.6 | 65.8 | 61.4 | 57.1 | 57.1 |
| 47.5° | 4305.6 | 3730.6 | 746.1 | 153.6 | 114.1 | 83.4 | 65.8 | 57.1 | 52.7 | 48.3 | 48.3 |
| 50° | 4849.8 | 4029.1 | 561.8 | 136.1 | 100.9 | 70.2 | 57.1 | 52.7 | 48.3 | 43.9 | 43.9 |
| 52.5° | 5297.5 | 4231.0 | 425.7 | 118.5 | 87.8 | 61.4 | 52.7 | 48.3 | 39.5 | 39.5 | 39.5 |
| 55° | 5837.3 | 4389.0 | 324.8 | 105.3 | 79.0 | 57.1 | 48.3 | 39.5 | 35.1 | 30.7 | 30.7 |
| 57.5° | 6307.0 | 4446.0 | 237.0 | 92.2 | 70.2 | 52.7 | 43.9 | 35.1 | 26.3 | 21.9 | 21.9 |
| 60° | 6623.0 | 4397.8 | 171.2 | 79.0 | 61.4 | 43.9 | 35.1 | 26.3 | 17.6 | 13.2 | 13.2 |
| 62.5° | 6846.8 | 4292.4 | 131.7 | 70.2 | 52.7 | 39.5 | 30.7 | 21.9 | 13.2 | 8.8 | 8.8 |
| 65° | 6623.0 | 3967.6 | 105.3 | 61.4 | 43.9 | 35.1 | 21.9 | 17.6 | 8.8 | 4.4 | 4.4 |
| 67.5° | 5727.6 | 3326.8 | 83.4 | 52.7 | 39.5 | 30.7 | 21.9 | 13.2 | 4.4 | 0.0 | 0.0 |
| 70° | 4116.9 | 2374.4 | 70.2 | 48.3 | 35.1 | 26.3 | 17.6 | 8.8 | 4.4 | 0.0 | 0.0 |
| 72.5° | 2295.4 | 1224.5 | 65.8 | 43.9 | 35.1 | 26.3 | 17.6 | 8.8 | 4.4 | 0.0 | 0.0 |
| 75° | 930.5 | 421.3 | 61.4 | 43.9 | 35.1 | 21.9 | 17.6 | 8.8 | 4.4 | 0.0 | 0.0 |
| 77.5° | 272.1 | 144.8 | 52.7 | 39.5 | 35.1 | 26.3 | 17.6 | 8.8 | 4.4 | 0.0 | 0.0 |
| 80° | 96.6 | 65.8 | 39.5 | 35.1 | 26.3 | 21.9 | 17.6 | 13.2 | 4.4 | 0.0 | 0.0 |
| 82.5° | 43.9 | 26.3 | 17.6 | 13.2 | 13.2 | 13.2 | 13.2 | 8.8 | 4.4 | 0.0 | 0.0 |
| 85° | 17.6 | 13.2 | 8.8 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 0.0 | 0.0 |
| 87.5° | 13.2 | 8.8 | 4.4 | 4.4 | 4.4 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)