

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: P398052

Luminaire Tested: **ARCH-S-PA1-80-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-80-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9930 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

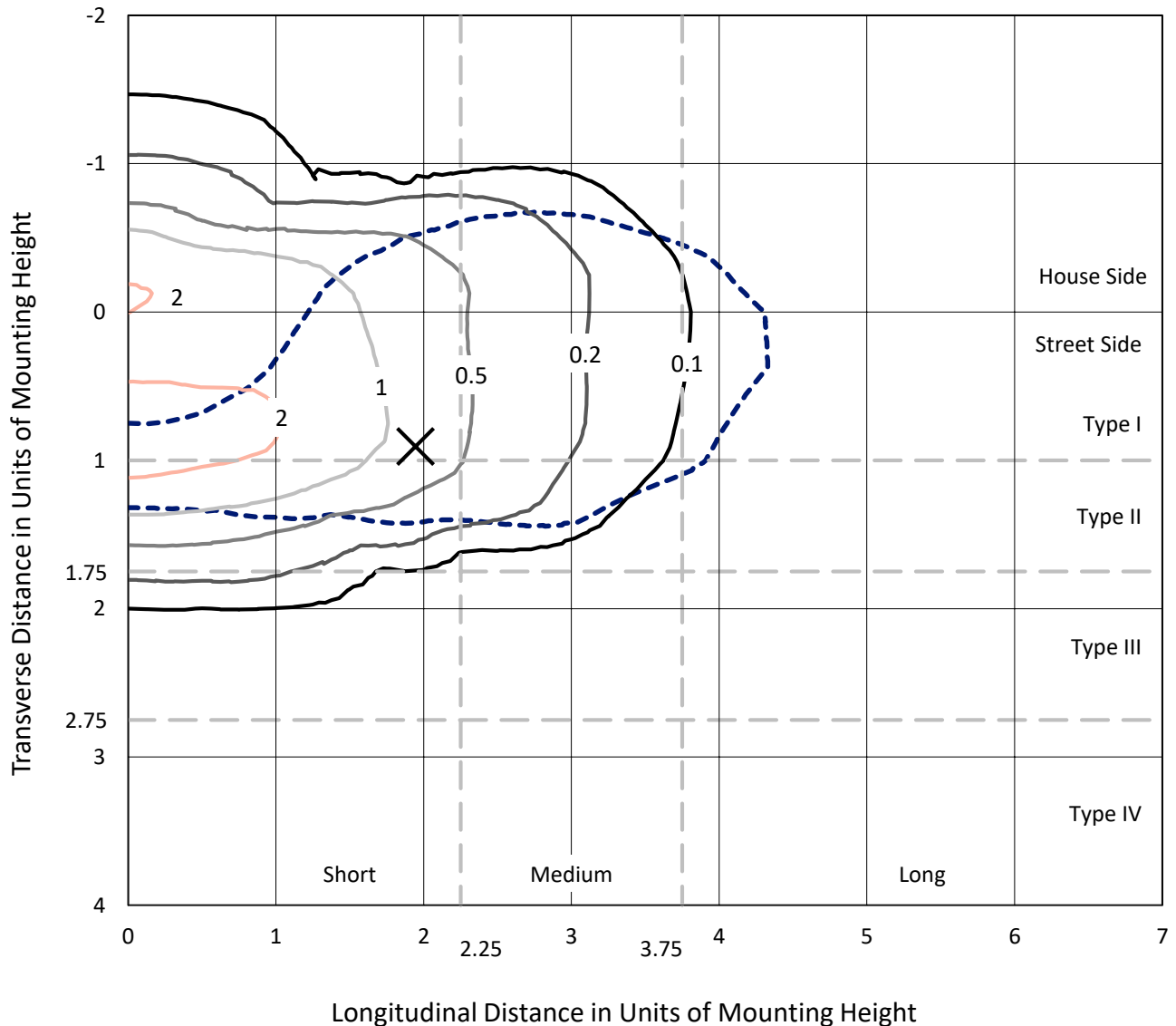
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

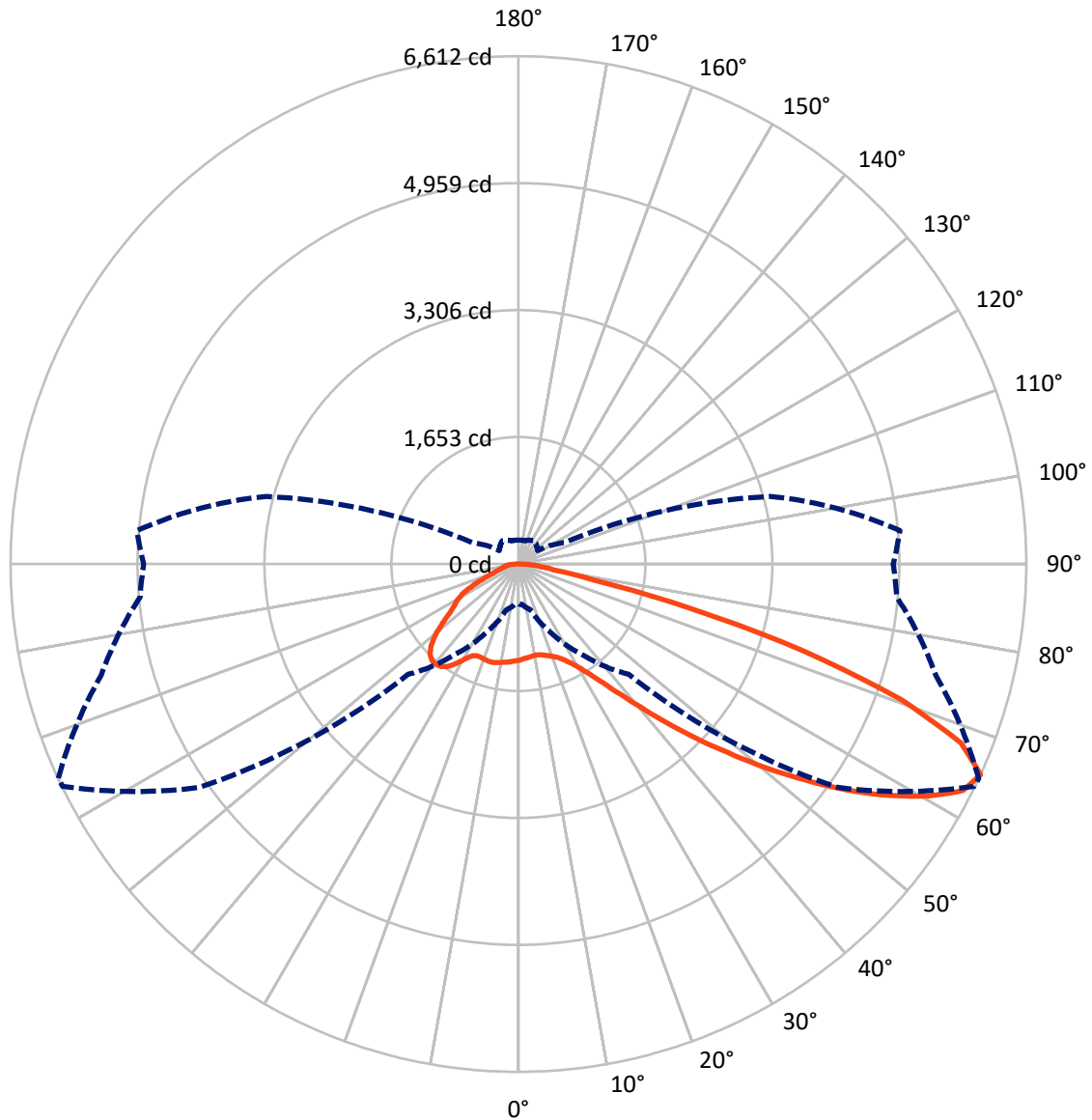


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2870.9 | 0.0 | 2870.9 |
| | % Fixture | 28.9 | 0.0 | 28.9 |
| Street Side | Lumens | 7059.1 | 0.0 | 7059.1 |
| | % Fixture | 71.1 | 0.0 | 71.1 |
| Total | Lumens | 9930.0 | 0.0 | 9930.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 119.5 | 1.2 |
| 10°-20° | 356.9 | 3.6 |
| 20°-30° | 634.0 | 6.4 |
| 30°-40° | 1072.5 | 10.8 |
| 40°-50° | 1867.0 | 18.8 |
| 50°-60° | 2412.8 | 24.3 |
| 60°-70° | 2111.3 | 21.3 |
| 70°-80° | 1148.4 | 11.6 |
| 80°-90° | 207.5 | 2.1 |
| 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° | 9930.0 | 100.0 |
| 0°-180° | 9930.0 | 100.0 |



REPORT NUMBER: P398052

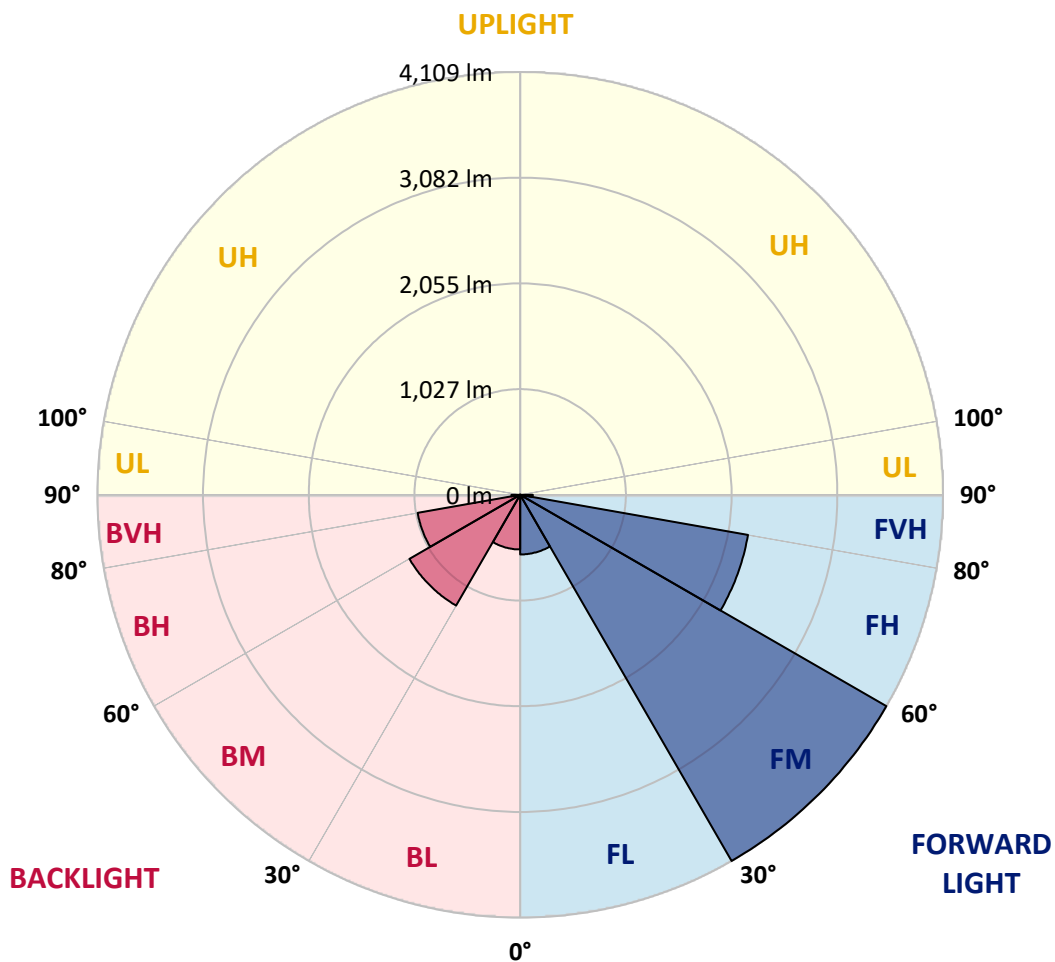
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 579.4 | 5.8 | | | |
| FM (30°-60°) | 4109.3 | 41.4 | | | |
| FH (60°-80°) | 2248.3 | 22.6 | | | G2/5000 |
| FVH (80°-90°) | 122.1 | 1.2 | | | G2/225 |
| BL (0°-30°) | 531.0 | 5.3 | B2/1000 | | |
| BM (30°-60°) | 1243.0 | 12.5 | B2/2500 | | |
| BH (60°-80°) | 1011.5 | 10.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 85.4 | 0.9 | | | 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 |
| 2.5° | 1232.5 | 1231.2 | 1228.6 | 1231.2 | 1232.5 | 1235.1 | 1233.8 | 1236.5 | 1235.1 | 1239.1 | 1245.6 |
| 5° | 1201.2 | 1198.5 | 1197.2 | 1203.8 | 1207.7 | 1214.2 | 1216.8 | 1226.0 | 1224.7 | 1231.2 | 1241.7 |
| 7.5° | 1165.9 | 1165.9 | 1164.6 | 1172.4 | 1177.6 | 1189.4 | 1198.5 | 1214.2 | 1215.5 | 1227.3 | 1239.1 |
| 10° | 1138.4 | 1139.7 | 1138.4 | 1145.0 | 1152.8 | 1167.2 | 1182.9 | 1205.1 | 1206.4 | 1223.4 | 1235.1 |
| 12.5° | 1128.0 | 1128.0 | 1128.0 | 1137.1 | 1147.6 | 1167.2 | 1185.5 | 1209.0 | 1211.6 | 1229.9 | 1240.4 |
| 15° | 1142.3 | 1143.7 | 1141.0 | 1150.2 | 1162.0 | 1185.5 | 1202.5 | 1227.3 | 1229.9 | 1246.9 | 1253.4 |
| 17.5° | 1193.3 | 1198.5 | 1192.0 | 1197.2 | 1194.6 | 1212.9 | 1228.6 | 1253.4 | 1254.8 | 1269.1 | 1271.7 |
| 20° | 1294.0 | 1299.2 | 1288.7 | 1282.2 | 1258.7 | 1257.4 | 1263.9 | 1283.5 | 1283.5 | 1292.7 | 1286.1 |
| 22.5° | 1449.5 | 1454.7 | 1436.4 | 1411.6 | 1355.4 | 1327.9 | 1313.6 | 1322.7 | 1321.4 | 1325.3 | 1308.3 |
| 25° | 1656.0 | 1654.7 | 1632.5 | 1586.7 | 1496.6 | 1429.9 | 1394.6 | 1380.2 | 1380.2 | 1372.4 | 1351.5 |
| 27.5° | 1912.2 | 1892.6 | 1853.4 | 1798.5 | 1673.0 | 1580.2 | 1504.4 | 1467.8 | 1461.3 | 1437.7 | 1398.5 |
| 30° | 2185.4 | 2171.0 | 2114.8 | 2035.0 | 1890.0 | 1771.0 | 1645.6 | 1572.4 | 1568.4 | 1517.5 | 1458.6 |
| 32.5° | 2506.9 | 2483.4 | 2420.6 | 2325.2 | 2151.4 | 1984.1 | 1827.2 | 1716.1 | 1709.6 | 1628.6 | 1547.5 |
| 35° | 2919.9 | 2900.3 | 2778.8 | 2683.3 | 2459.8 | 2240.3 | 2054.7 | 1907.0 | 1901.7 | 1802.4 | 1699.1 |
| 37.5° | 3415.3 | 3364.3 | 3246.7 | 3067.6 | 2832.3 | 2572.2 | 2337.0 | 2151.4 | 2144.8 | 2035.0 | 1904.3 |
| 40° | 3857.1 | 3811.3 | 3706.7 | 3542.1 | 3289.8 | 3000.9 | 2682.0 | 2457.2 | 2450.7 | 2317.4 | 2152.7 |
| 42.5° | 4183.8 | 4152.4 | 4084.5 | 3989.1 | 3808.7 | 3633.6 | 3122.5 | 2827.1 | 2815.3 | 2642.8 | 2437.6 |
| 45° | 4373.3 | 4348.5 | 4309.3 | 4332.8 | 4330.2 | 4297.5 | 3647.9 | 3267.6 | 3229.7 | 3006.2 | 2755.2 |
| 47.5° | 4327.6 | 4305.4 | 4321.0 | 4504.0 | 4756.3 | 4945.8 | 4259.6 | 3718.5 | 3667.5 | 3376.1 | 3093.7 |
| 50° | 3996.9 | 4006.1 | 4088.4 | 4438.7 | 5004.6 | 5425.5 | 4938.0 | 4232.2 | 4164.2 | 3748.6 | 3415.3 |
| 52.5° | 3394.4 | 3416.6 | 3616.6 | 4106.7 | 4977.2 | 5736.6 | 5551.0 | 4762.8 | 4672.6 | 4111.9 | 3708.1 |
| 55° | 2696.4 | 2752.6 | 3011.4 | 3526.4 | 4619.1 | 5758.8 | 6013.7 | 5296.1 | 5196.8 | 4453.1 | 3962.9 |
| 57.5° | 1994.5 | 2078.2 | 2377.5 | 2850.6 | 3932.9 | 5407.2 | 6245.0 | 5805.8 | 5685.6 | 4791.6 | 4232.2 |
| 60° | 1265.2 | 1316.2 | 1661.2 | 2219.3 | 3010.1 | 4547.2 | 6214.9 | 6239.8 | 6135.2 | 5128.8 | 4513.2 |
| 62.5° | 807.7 | 832.6 | 1006.4 | 1582.8 | 2104.3 | 3366.9 | 5886.9 | 6567.8 | 6497.3 | 5435.9 | 4779.8 |
| 65° | 518.9 | 529.3 | 618.2 | 973.7 | 1432.5 | 2032.4 | 5070.0 | 6603.1 | 6612.3 | 5628.1 | 4944.5 |
| 67.5° | 422.2 | 427.4 | 460.1 | 601.2 | 1013.0 | 1122.7 | 3531.6 | 6101.2 | 6212.3 | 5578.4 | 4888.3 |
| 70° | 384.3 | 390.8 | 424.8 | 479.7 | 784.2 | 775.1 | 1709.6 | 5105.3 | 5286.9 | 5292.2 | 4638.7 |
| 72.5° | 324.1 | 333.3 | 379.0 | 453.5 | 606.5 | 611.7 | 724.1 | 3636.2 | 3904.1 | 4730.2 | 4263.5 |
| 75° | 270.6 | 275.8 | 315.0 | 400.0 | 513.7 | 488.8 | 508.4 | 1927.9 | 2314.8 | 3793.0 | 3864.9 |
| 77.5° | 219.6 | 224.8 | 253.6 | 318.9 | 456.2 | 380.3 | 400.0 | 798.6 | 986.8 | 2574.9 | 3159.1 |
| 80° | 156.8 | 162.1 | 194.7 | 248.3 | 345.1 | 342.4 | 296.7 | 440.5 | 478.4 | 1392.0 | 2052.0 |
| 82.5° | 112.4 | 116.3 | 147.7 | 177.8 | 239.2 | 343.7 | 223.5 | 299.3 | 313.7 | 616.9 | 827.4 |
| 85° | 75.8 | 75.8 | 101.9 | 117.6 | 154.2 | 217.0 | 180.4 | 202.6 | 211.7 | 292.8 | 223.5 |
| 87.5° | 32.7 | 32.7 | 54.9 | 60.1 | 81.0 | 100.6 | 134.6 | 101.9 | 104.6 | 158.2 | 91.5 |
| 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: P398052

CATALOG NUMBER: ARCH-S-PA1-80-730-U-T2U

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 | 1254.8 |
| 2.5° | 1249.5 | 1250.8 | 1253.4 | 1261.3 | 1266.5 | 1274.4 | 1278.3 | 1283.5 | 1283.5 | 1280.9 | 1282.2 |
| 5° | 1246.9 | 1250.8 | 1260.0 | 1274.4 | 1283.5 | 1297.9 | 1308.3 | 1316.2 | 1318.8 | 1316.2 | 1317.5 |
| 7.5° | 1245.6 | 1252.1 | 1267.8 | 1288.7 | 1301.8 | 1320.1 | 1334.5 | 1343.6 | 1350.2 | 1347.6 | 1348.9 |
| 10° | 1241.7 | 1252.1 | 1271.7 | 1297.9 | 1317.5 | 1335.8 | 1348.9 | 1352.8 | 1356.7 | 1354.1 | 1352.8 |
| 12.5° | 1246.9 | 1258.7 | 1279.6 | 1311.0 | 1333.2 | 1347.6 | 1351.5 | 1344.9 | 1335.8 | 1330.6 | 1329.3 |
| 15° | 1257.4 | 1269.1 | 1290.0 | 1322.7 | 1342.3 | 1347.6 | 1338.4 | 1317.5 | 1296.6 | 1284.8 | 1283.5 |
| 17.5° | 1271.7 | 1279.6 | 1296.6 | 1325.3 | 1341.0 | 1334.5 | 1316.2 | 1291.3 | 1275.7 | 1266.5 | 1267.8 |
| 20° | 1280.9 | 1280.9 | 1294.0 | 1316.2 | 1329.3 | 1324.0 | 1301.8 | 1274.4 | 1249.5 | 1237.8 | 1233.8 |
| 22.5° | 1294.0 | 1287.4 | 1288.7 | 1308.3 | 1326.6 | 1318.8 | 1271.7 | 1223.4 | 1188.1 | 1175.0 | 1173.7 |
| 25° | 1329.3 | 1311.0 | 1299.2 | 1311.0 | 1354.1 | 1290.0 | 1195.9 | 1139.7 | 1107.1 | 1095.3 | 1096.6 |
| 27.5° | 1372.4 | 1347.6 | 1322.7 | 1342.3 | 1376.3 | 1224.7 | 1099.2 | 1035.2 | 1015.6 | 1006.4 | 1010.3 |
| 30° | 1415.5 | 1382.8 | 1350.2 | 1420.7 | 1360.6 | 1122.7 | 975.0 | 912.3 | 895.3 | 888.8 | 894.0 |
| 32.5° | 1495.2 | 1441.7 | 1402.4 | 1525.3 | 1312.3 | 1006.4 | 840.4 | 782.9 | 767.2 | 759.4 | 756.8 |
| 35° | 1628.6 | 1560.6 | 1521.4 | 1616.8 | 1244.3 | 877.0 | 717.6 | 677.0 | 660.1 | 643.1 | 640.4 |
| 37.5° | 1820.7 | 1738.4 | 1703.1 | 1669.1 | 1148.9 | 748.9 | 623.5 | 596.0 | 571.2 | 545.0 | 543.7 |
| 40° | 2050.7 | 1943.6 | 1917.4 | 1692.6 | 1016.9 | 628.7 | 558.1 | 532.0 | 500.6 | 475.8 | 477.1 |
| 42.5° | 2316.1 | 2178.8 | 2122.6 | 1686.1 | 853.5 | 564.6 | 511.0 | 482.3 | 454.8 | 432.6 | 431.3 |
| 45° | 2599.7 | 2444.2 | 2314.8 | 1640.3 | 691.4 | 520.2 | 482.3 | 448.3 | 420.9 | 396.0 | 393.4 |
| 47.5° | 2913.4 | 2739.5 | 2492.5 | 1551.4 | 571.2 | 488.8 | 465.3 | 416.9 | 392.1 | 376.4 | 376.4 |
| 50° | 3229.7 | 3021.9 | 2655.9 | 1416.8 | 500.6 | 465.3 | 440.5 | 400.0 | 380.3 | 367.3 | 367.3 |
| 52.5° | 3500.2 | 3315.9 | 2790.5 | 1256.1 | 456.2 | 445.7 | 423.5 | 392.1 | 371.2 | 359.4 | 358.1 |
| 55° | 3762.9 | 3589.1 | 2910.8 | 1096.6 | 419.6 | 419.6 | 419.6 | 385.6 | 362.0 | 351.6 | 350.3 |
| 57.5° | 4024.4 | 3876.7 | 3036.2 | 992.0 | 386.9 | 397.3 | 411.7 | 377.7 | 354.2 | 345.1 | 343.7 |
| 60° | 4319.7 | 4221.7 | 3181.3 | 918.8 | 358.1 | 373.8 | 401.3 | 368.6 | 341.1 | 333.3 | 332.0 |
| 62.5° | 4633.4 | 4633.4 | 3313.3 | 815.6 | 332.0 | 354.2 | 385.6 | 356.8 | 329.4 | 322.8 | 321.5 |
| 65° | 4879.2 | 4985.0 | 3398.3 | 661.4 | 305.8 | 334.6 | 367.3 | 341.1 | 313.7 | 312.4 | 309.8 |
| 67.5° | 4907.9 | 5073.9 | 3344.7 | 499.3 | 282.3 | 313.7 | 349.0 | 324.1 | 298.0 | 298.0 | 294.1 |
| 70° | 4701.4 | 4870.0 | 3177.4 | 373.8 | 265.3 | 292.8 | 325.5 | 303.2 | 278.4 | 281.0 | 274.5 |
| 72.5° | 4356.3 | 4398.2 | 2761.8 | 295.4 | 245.7 | 270.6 | 296.7 | 279.7 | 257.5 | 257.5 | 248.3 |
| 75° | 3901.5 | 3668.8 | 2006.3 | 247.0 | 222.2 | 244.4 | 267.9 | 253.6 | 234.0 | 227.4 | 222.2 |
| 77.5° | 3105.5 | 2658.5 | 1165.9 | 213.0 | 202.6 | 219.6 | 235.3 | 224.8 | 207.8 | 193.4 | 193.4 |
| 80° | 1892.6 | 1558.0 | 515.0 | 184.3 | 179.1 | 192.1 | 202.6 | 190.8 | 176.4 | 162.1 | 158.2 |
| 82.5° | 720.2 | 601.2 | 249.6 | 158.2 | 156.8 | 164.7 | 172.5 | 160.8 | 150.3 | 143.8 | 124.2 |
| 85° | 197.4 | 181.7 | 171.2 | 132.0 | 129.4 | 128.1 | 137.2 | 132.0 | 117.6 | 96.7 | 86.3 |
| 87.5° | 74.5 | 85.0 | 92.8 | 81.0 | 86.3 | 79.7 | 91.5 | 83.7 | 74.5 | 48.4 | 43.1 |
| 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)