

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: P397550

Luminaire Tested: **ARCH-S-PA1-100-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-100-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10732 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 96
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

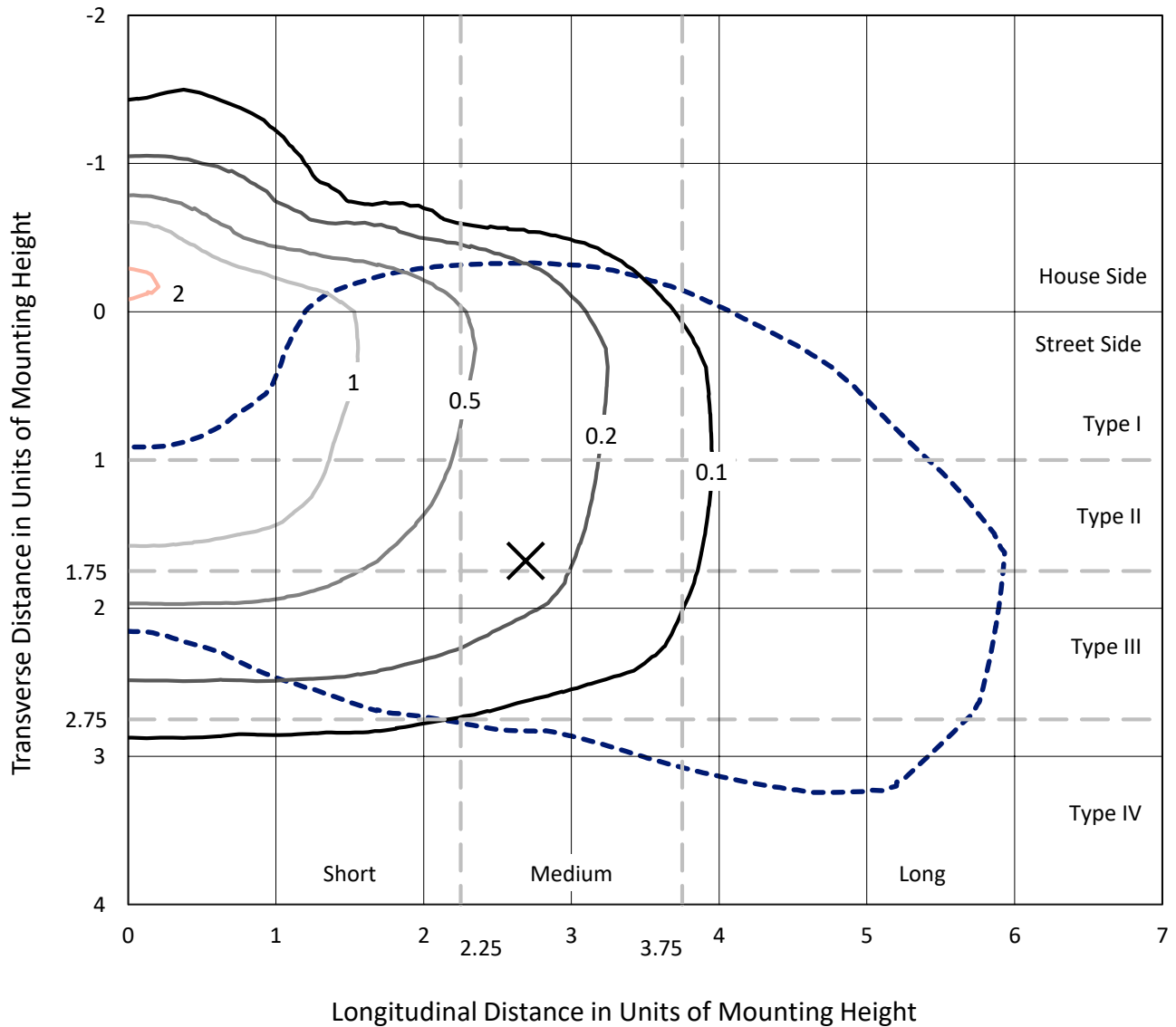


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Iso-Footcandle Lines of Horizontal Illumination

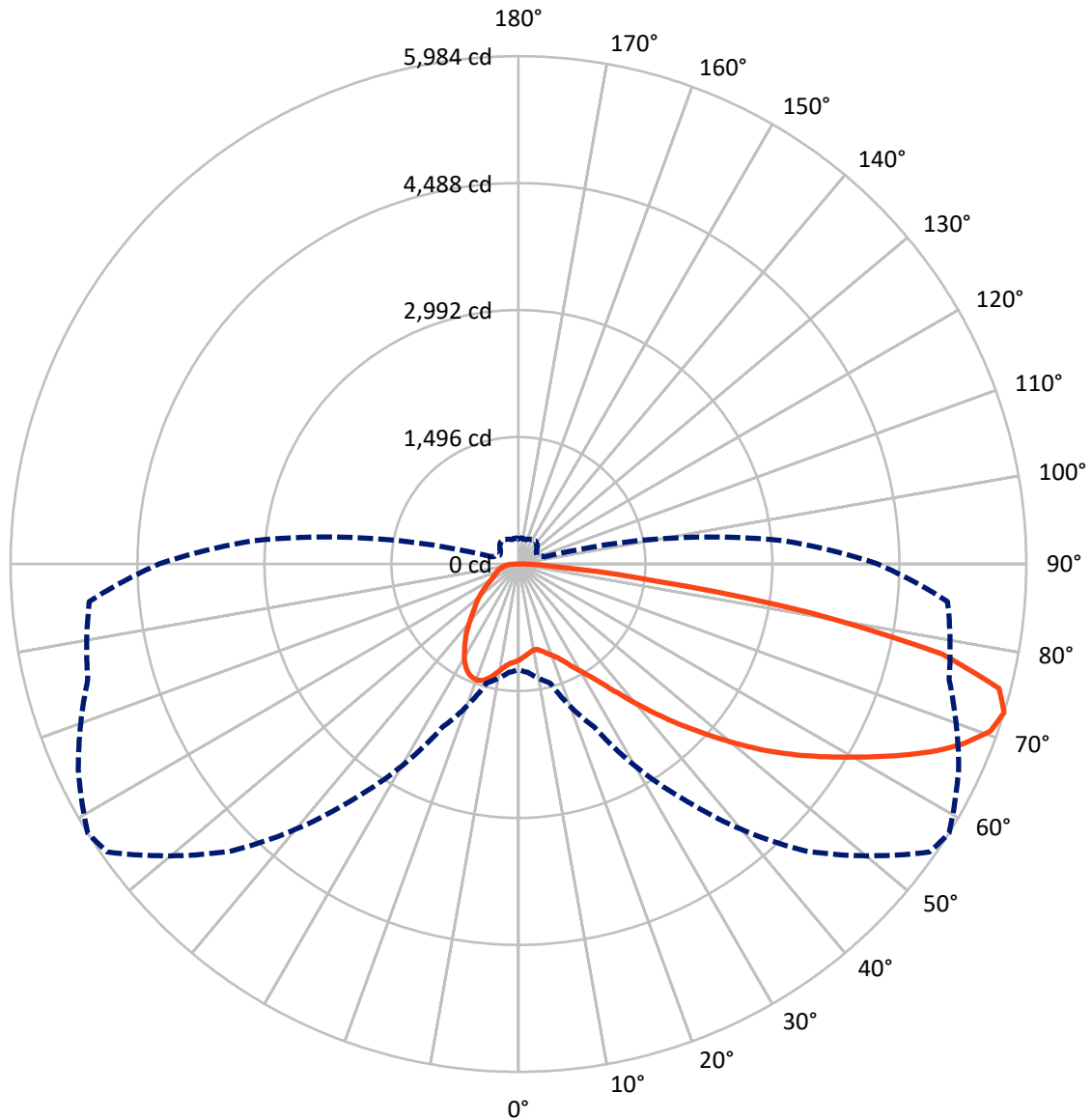
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2433.9 | 0.0 | 2433.9 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 8298.1 | 0.0 | 8298.1 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 10732.0 | 0.0 | 10732.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 109.0 | 1.0 |
| 10°-20° | 346.3 | 3.2 |
| 20°-30° | 620.4 | 5.8 |
| 30°-40° | 933.2 | 8.7 |
| 40°-50° | 1511.1 | 14.1 |
| 50°-60° | 2274.8 | 21.2 |
| 60°-70° | 2677.1 | 24.9 |
| 70°-80° | 1898.3 | 17.7 |
| 80°-90° | 361.7 | 3.4 |
| 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° | 10732.0 | 100.0 |
| 0°-180° | 10732.0 | 100.0 |



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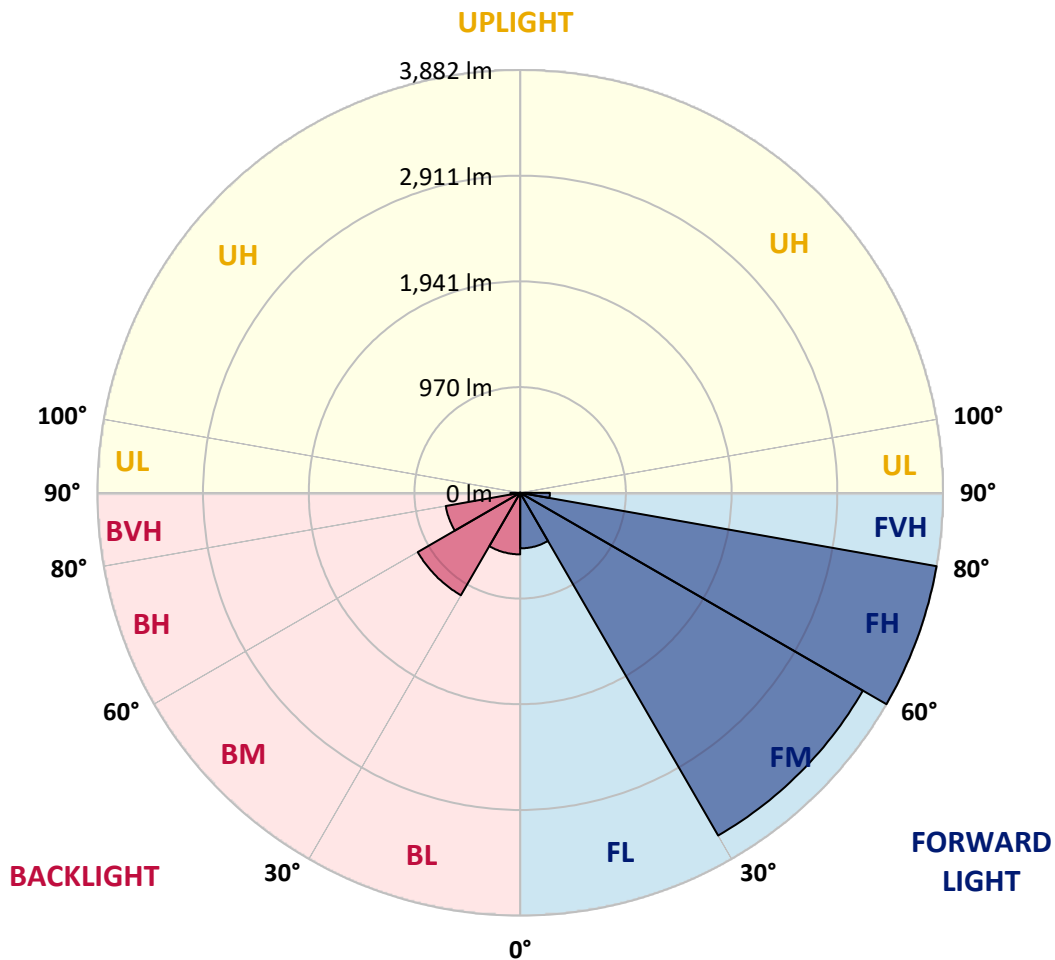
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 510.4 | 4.8 | | | |
| FM (30°-60°) | 3633.1 | 33.9 | | | |
| FH (60°-80°) | 3881.8 | 36.2 | | | G2/5000 |
| FVH (80°-90°) | 272.8 | 2.5 | | | G3/500 |
| BL (0°-30°) | 565.4 | 5.3 | B2/1000 | | |
| BM (30°-60°) | 1086.0 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 693.7 | 6.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 88.9 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 |
| 2.5° | 1089.5 | 1083.8 | 1085.2 | 1085.2 | 1090.9 | 1093.7 | 1095.2 | 1099.4 | 1102.2 | 1109.3 | 1119.2 |
| 5° | 1038.5 | 1034.2 | 1035.7 | 1037.1 | 1047.0 | 1056.9 | 1065.4 | 1071.1 | 1079.6 | 1090.9 | 1105.1 |
| 7.5° | 1001.7 | 998.8 | 1000.2 | 1003.1 | 1011.6 | 1022.9 | 1037.1 | 1045.6 | 1058.3 | 1079.6 | 1103.7 |
| 10° | 974.7 | 974.7 | 976.2 | 981.8 | 990.3 | 1004.5 | 1015.8 | 1025.7 | 1051.2 | 1089.5 | 1126.3 |
| 12.5° | 953.5 | 953.5 | 957.7 | 969.1 | 983.2 | 997.4 | 1024.3 | 1035.7 | 1069.7 | 1122.1 | 1166.0 |
| 15° | 952.1 | 953.5 | 954.9 | 964.8 | 980.4 | 1011.6 | 1051.2 | 1068.2 | 1109.3 | 1171.7 | 1222.7 |
| 17.5° | 974.7 | 976.2 | 970.5 | 973.3 | 991.7 | 1035.7 | 1088.1 | 1107.9 | 1160.3 | 1228.3 | 1280.8 |
| 20° | 1044.2 | 1044.2 | 1027.2 | 1011.6 | 1024.3 | 1072.5 | 1132.0 | 1151.8 | 1209.9 | 1285.0 | 1337.4 |
| 22.5° | 1185.8 | 1192.9 | 1153.2 | 1119.2 | 1099.4 | 1126.3 | 1180.2 | 1201.4 | 1266.6 | 1347.3 | 1399.8 |
| 25° | 1357.3 | 1364.3 | 1310.5 | 1262.3 | 1225.5 | 1221.3 | 1256.7 | 1279.3 | 1333.2 | 1416.8 | 1460.7 |
| 27.5° | 1523.0 | 1510.3 | 1460.7 | 1415.4 | 1368.6 | 1330.3 | 1357.3 | 1377.1 | 1439.4 | 1503.2 | 1530.1 |
| 30° | 1653.4 | 1643.5 | 1595.3 | 1562.7 | 1518.8 | 1469.2 | 1453.6 | 1474.9 | 1525.9 | 1585.4 | 1599.5 |
| 32.5° | 1797.9 | 1790.8 | 1742.6 | 1700.1 | 1663.3 | 1616.5 | 1582.5 | 1592.4 | 1620.8 | 1663.3 | 1671.8 |
| 35° | 1982.1 | 1997.6 | 1946.6 | 1860.2 | 1819.1 | 1773.8 | 1749.7 | 1752.5 | 1773.8 | 1800.7 | 1786.5 |
| 37.5° | 2176.2 | 2194.6 | 2197.4 | 2061.4 | 2006.1 | 1965.1 | 1939.6 | 1949.5 | 1975.0 | 1993.4 | 1949.5 |
| 40° | 2536.0 | 2517.6 | 2443.9 | 2343.3 | 2258.3 | 2218.7 | 2183.2 | 2181.8 | 2200.2 | 2232.8 | 2153.5 |
| 42.5° | 3013.5 | 2996.5 | 2847.7 | 2717.4 | 2582.8 | 2537.4 | 2468.0 | 2438.3 | 2446.8 | 2487.8 | 2377.3 |
| 45° | 3471.1 | 3464.0 | 3345.0 | 3193.4 | 3031.9 | 2944.0 | 2785.4 | 2713.1 | 2706.0 | 2738.6 | 2606.9 |
| 47.5° | 3877.7 | 3846.5 | 3760.1 | 3642.5 | 3625.5 | 3396.0 | 3104.1 | 3006.4 | 2972.4 | 2990.8 | 2843.5 |
| 50° | 4312.6 | 4206.4 | 4087.4 | 4015.1 | 4138.4 | 3924.4 | 3425.7 | 3323.7 | 3240.1 | 3252.9 | 3099.9 |
| 52.5° | 4543.6 | 4365.1 | 4287.1 | 4308.4 | 4474.2 | 4392.0 | 3775.7 | 3651.0 | 3516.4 | 3534.8 | 3354.9 |
| 55° | 4345.2 | 4343.8 | 4377.8 | 4509.6 | 4740.5 | 4645.6 | 4108.6 | 3968.4 | 3821.0 | 3825.3 | 3648.2 |
| 57.5° | 4073.2 | 4128.5 | 4304.1 | 4594.6 | 5070.6 | 4911.9 | 4435.9 | 4287.1 | 4152.5 | 4131.3 | 3981.1 |
| 60° | 3825.3 | 3886.2 | 4141.2 | 4580.4 | 5185.4 | 5155.6 | 4747.6 | 4617.2 | 4508.2 | 4445.8 | 4331.1 |
| 62.5° | 3448.4 | 3493.8 | 3855.0 | 4489.7 | 5089.0 | 5331.3 | 5063.5 | 4974.3 | 4892.1 | 4763.2 | 4707.9 |
| 65° | 3005.0 | 3020.5 | 3401.7 | 4190.8 | 4968.6 | 5399.3 | 5378.1 | 5338.4 | 5259.0 | 5069.2 | 5080.5 |
| 67.5° | 2524.7 | 2555.8 | 2890.2 | 3713.3 | 4705.1 | 5368.1 | 5621.7 | 5654.3 | 5560.8 | 5276.0 | 5318.5 |
| 70° | 2013.2 | 2051.5 | 2305.1 | 3053.1 | 4257.4 | 5233.5 | 5847.0 | 5899.4 | 5719.5 | 5344.0 | 5362.5 |
| 72.5° | 1245.3 | 1282.2 | 1452.2 | 2120.9 | 3374.7 | 4781.6 | 5916.4 | 5984.4 | 5723.7 | 5253.4 | 5076.3 |
| 75° | 430.7 | 434.9 | 568.1 | 1017.2 | 2003.3 | 3609.9 | 5689.7 | 5849.8 | 5543.8 | 4923.3 | 4417.5 |
| 77.5° | 196.9 | 204.0 | 252.2 | 419.4 | 888.3 | 1948.1 | 4698.0 | 5098.9 | 4996.9 | 4407.6 | 3400.2 |
| 80° | 136.0 | 138.8 | 174.3 | 250.8 | 512.9 | 685.7 | 2965.3 | 3488.1 | 3666.6 | 3413.0 | 2179.0 |
| 82.5° | 102.0 | 104.8 | 134.6 | 170.0 | 369.8 | 332.9 | 1129.2 | 1620.8 | 2014.6 | 1977.8 | 911.0 |
| 85° | 97.8 | 96.3 | 104.8 | 113.3 | 246.5 | 198.3 | 365.5 | 501.5 | 786.3 | 673.0 | 229.5 |
| 87.5° | 42.5 | 46.8 | 107.7 | 63.8 | 128.9 | 92.1 | 158.7 | 185.6 | 239.4 | 208.3 | 82.2 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 |
| 2.5° | 1123.5 | 1126.3 | 1134.8 | 1147.6 | 1154.7 | 1168.8 | 1178.8 | 1184.4 | 1188.7 | 1190.1 | 1190.1 |
| 5° | 1113.6 | 1119.2 | 1137.7 | 1158.9 | 1178.8 | 1208.5 | 1235.4 | 1251.0 | 1262.3 | 1266.6 | 1268.0 |
| 7.5° | 1116.4 | 1130.6 | 1157.5 | 1188.7 | 1214.2 | 1252.4 | 1285.0 | 1316.2 | 1341.7 | 1351.6 | 1351.6 |
| 10° | 1143.3 | 1163.2 | 1200.0 | 1241.1 | 1273.7 | 1313.3 | 1347.3 | 1374.3 | 1404.0 | 1421.0 | 1423.9 |
| 12.5° | 1184.4 | 1208.5 | 1256.7 | 1302.0 | 1338.8 | 1370.0 | 1401.2 | 1421.0 | 1435.2 | 1447.9 | 1450.8 |
| 15° | 1242.5 | 1272.3 | 1320.4 | 1367.2 | 1399.8 | 1419.6 | 1428.1 | 1428.1 | 1426.7 | 1428.1 | 1430.9 |
| 17.5° | 1300.6 | 1328.9 | 1377.1 | 1423.9 | 1439.4 | 1428.1 | 1418.2 | 1415.4 | 1413.9 | 1411.1 | 1412.5 |
| 20° | 1357.3 | 1384.2 | 1425.3 | 1460.7 | 1447.9 | 1408.3 | 1395.5 | 1394.1 | 1389.8 | 1387.0 | 1384.2 |
| 22.5° | 1413.9 | 1433.8 | 1467.8 | 1480.5 | 1429.5 | 1372.8 | 1357.3 | 1348.8 | 1343.1 | 1336.0 | 1328.9 |
| 25° | 1479.1 | 1484.8 | 1510.3 | 1490.4 | 1384.2 | 1307.7 | 1285.0 | 1272.3 | 1266.6 | 1259.5 | 1253.8 |
| 27.5° | 1540.0 | 1540.0 | 1544.3 | 1474.9 | 1317.6 | 1221.3 | 1187.3 | 1164.6 | 1163.2 | 1161.7 | 1160.3 |
| 30° | 1595.3 | 1588.2 | 1574.0 | 1428.1 | 1231.2 | 1115.0 | 1064.0 | 1041.3 | 1049.8 | 1056.9 | 1058.3 |
| 32.5° | 1660.5 | 1646.3 | 1606.6 | 1364.3 | 1127.7 | 996.0 | 933.7 | 923.7 | 933.7 | 942.2 | 936.5 |
| 35° | 1762.5 | 1737.0 | 1640.6 | 1290.7 | 1028.6 | 886.9 | 827.4 | 813.2 | 810.4 | 809.0 | 797.6 |
| 37.5° | 1908.4 | 1864.5 | 1667.5 | 1211.3 | 930.8 | 790.6 | 746.6 | 716.9 | 690.0 | 661.6 | 657.4 |
| 40° | 2086.9 | 2011.8 | 1686.0 | 1120.7 | 827.4 | 709.8 | 663.0 | 624.8 | 579.5 | 529.9 | 524.2 |
| 42.5° | 2282.4 | 2170.5 | 1694.5 | 1020.1 | 736.7 | 643.2 | 585.1 | 537.0 | 486.0 | 447.7 | 440.6 |
| 45° | 2493.5 | 2341.9 | 1687.4 | 923.7 | 663.0 | 586.5 | 521.4 | 469.0 | 427.9 | 400.9 | 395.3 |
| 47.5° | 2698.9 | 2538.8 | 1667.5 | 847.2 | 606.4 | 538.4 | 471.8 | 423.6 | 392.4 | 362.7 | 355.6 |
| 50° | 2962.5 | 2727.3 | 1643.5 | 787.7 | 544.0 | 490.2 | 440.6 | 389.6 | 354.2 | 340.0 | 337.2 |
| 52.5° | 3254.3 | 2915.7 | 1615.1 | 712.6 | 483.1 | 451.9 | 420.8 | 375.4 | 364.1 | 337.2 | 332.9 |
| 55° | 3570.3 | 3139.6 | 1609.4 | 617.7 | 429.3 | 425.0 | 400.9 | 388.2 | 391.0 | 337.2 | 330.1 |
| 57.5° | 3903.2 | 3379.0 | 1622.2 | 522.8 | 385.4 | 400.9 | 409.4 | 399.5 | 395.3 | 344.3 | 330.1 |
| 60° | 4250.3 | 3609.9 | 1583.9 | 434.9 | 351.4 | 381.1 | 419.4 | 393.9 | 362.7 | 341.4 | 331.5 |
| 62.5° | 4587.5 | 3804.0 | 1418.2 | 372.6 | 325.9 | 375.4 | 413.7 | 372.6 | 337.2 | 337.2 | 332.9 |
| 65° | 4832.6 | 3890.4 | 1109.3 | 327.3 | 308.9 | 368.4 | 403.8 | 358.4 | 330.1 | 340.0 | 334.4 |
| 67.5° | 4860.9 | 3801.2 | 745.2 | 291.9 | 294.7 | 355.6 | 381.1 | 345.7 | 323.0 | 348.5 | 340.0 |
| 70° | 4686.7 | 3568.8 | 456.2 | 264.9 | 276.3 | 332.9 | 361.3 | 332.9 | 313.1 | 341.4 | 328.7 |
| 72.5° | 4234.7 | 3135.3 | 321.6 | 242.3 | 256.4 | 311.7 | 342.9 | 321.6 | 298.9 | 308.9 | 296.1 |
| 75° | 3473.9 | 2429.8 | 255.0 | 221.0 | 236.6 | 291.9 | 327.3 | 304.6 | 281.9 | 277.7 | 269.2 |
| 77.5° | 2460.9 | 1557.0 | 205.4 | 204.0 | 215.3 | 267.8 | 306.0 | 284.8 | 262.1 | 253.6 | 247.9 |
| 80° | 1415.4 | 763.6 | 177.1 | 184.2 | 195.5 | 243.7 | 280.5 | 262.1 | 240.9 | 228.1 | 219.6 |
| 82.5° | 541.2 | 266.4 | 155.8 | 160.1 | 172.8 | 218.2 | 255.0 | 239.4 | 218.2 | 229.5 | 192.7 |
| 85° | 175.7 | 145.9 | 127.5 | 131.8 | 144.5 | 181.3 | 225.3 | 212.5 | 188.4 | 167.2 | 154.4 |
| 87.5° | 77.9 | 79.3 | 68.0 | 75.1 | 90.7 | 120.4 | 164.3 | 155.8 | 137.4 | 114.8 | 110.5 |
| 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)