

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: P398126

Luminaire Tested: **ARCH-S-PA1-90-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398126
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-PA1-90-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10623 lumens
Efficiency: N/A
Efficacy: 113.0 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): 94
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

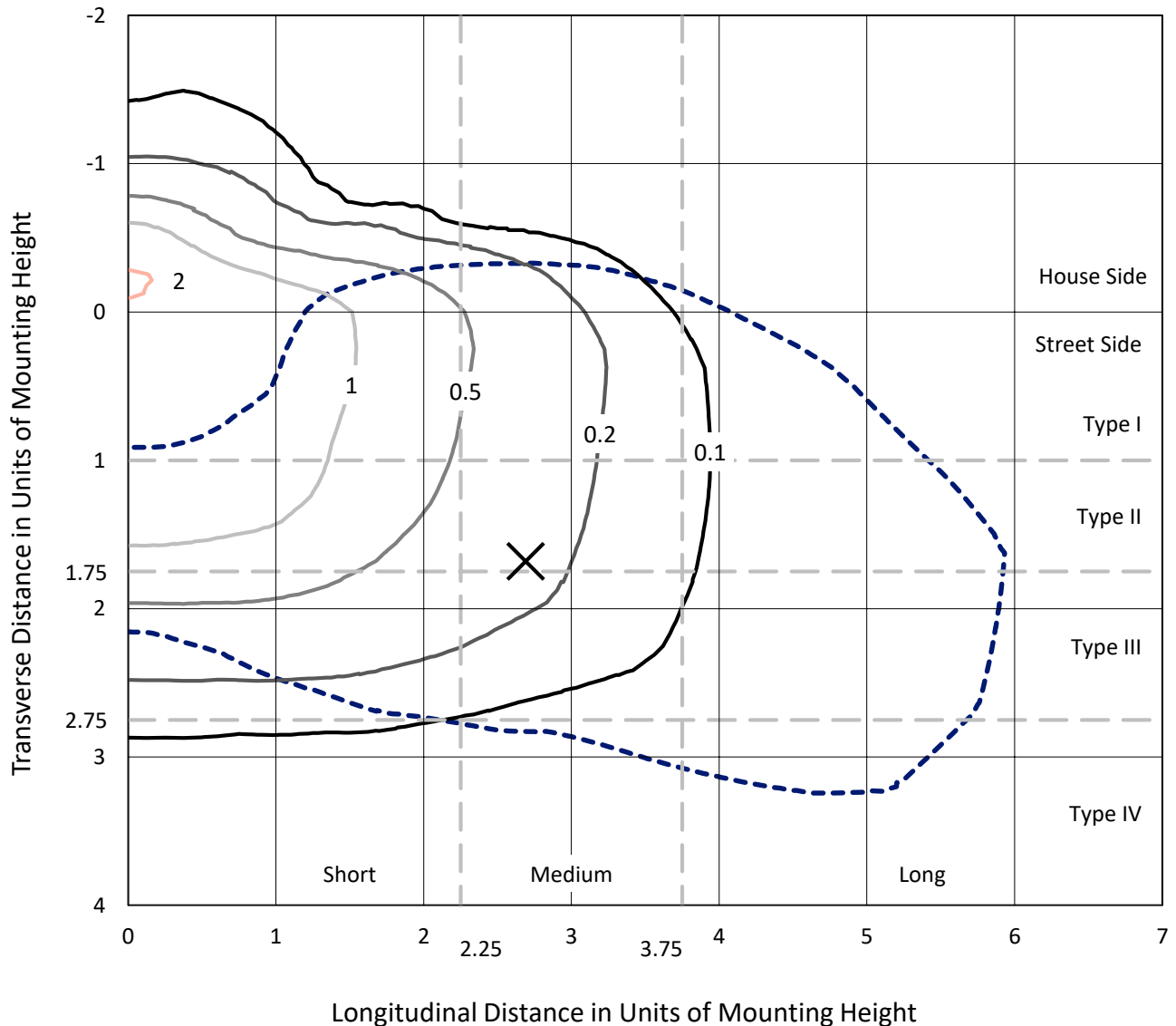


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

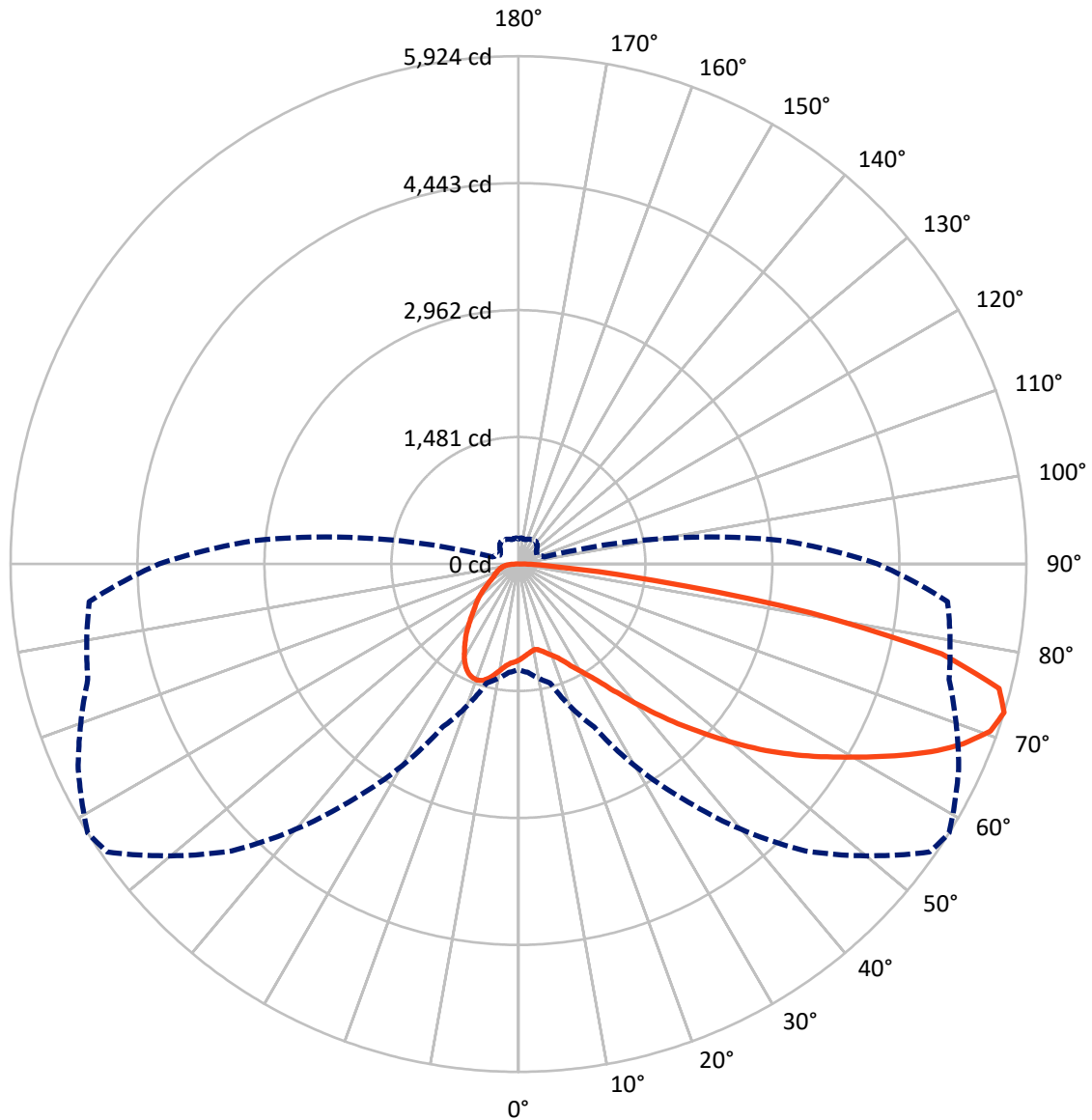


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Medium - Non-Cutoff

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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 | 2409.2 | 0.0 | 2409.2 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 8213.8 | 0.0 | 8213.8 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 10623.0 | 0.0 | 10623.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 107.9 | 1.0 |
| 10°-20° | 342.8 | 3.2 |
| 20°-30° | 614.1 | 5.8 |
| 30°-40° | 923.7 | 8.7 |
| 40°-50° | 1495.8 | 14.1 |
| 50°-60° | 2251.7 | 21.2 |
| 60°-70° | 2650.0 | 24.9 |
| 70°-80° | 1879.1 | 17.7 |
| 80°-90° | 358.1 | 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° | 10623.0 | 100.0 |
| 0°-180° | 10623.0 | 100.0 |

Coefficient of Utilization



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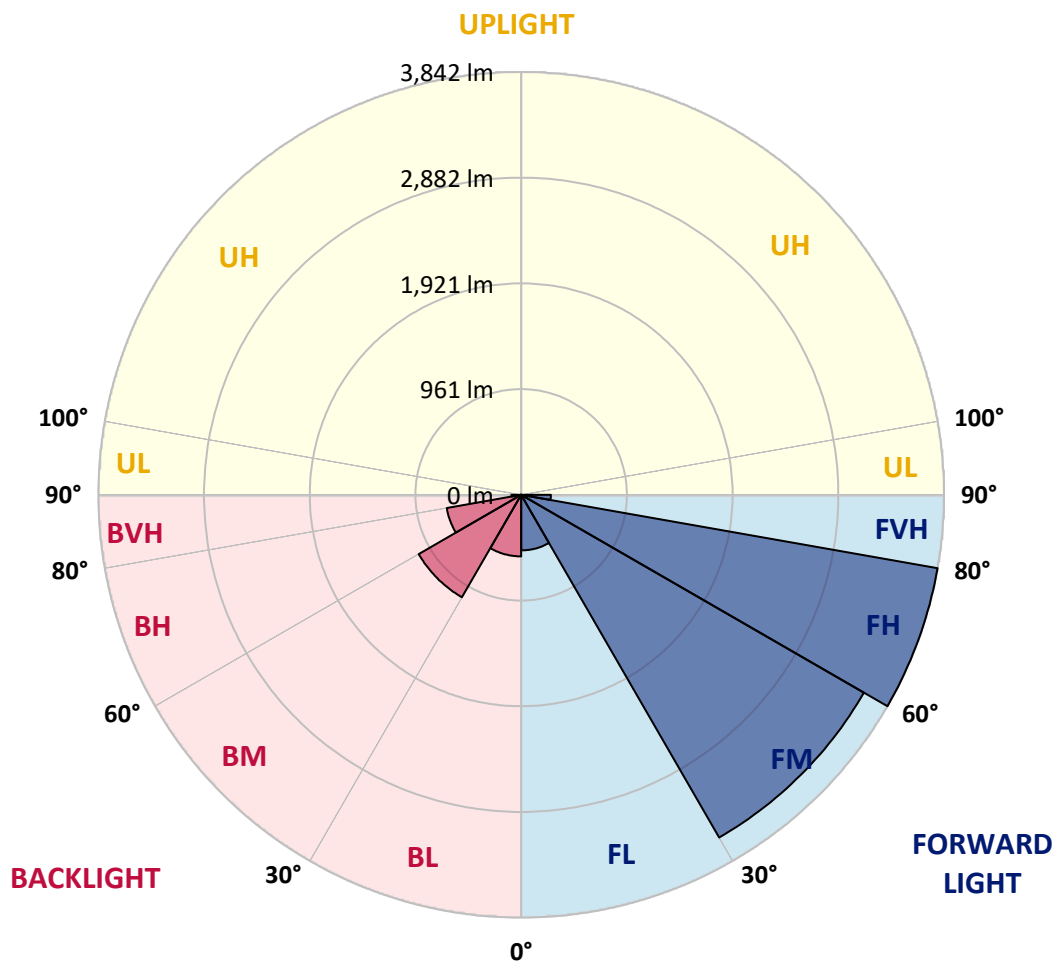
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 505.2 | 4.8 | | | |
| FM | (30°-60°) | 3596.2 | 33.9 | | | |
| FH | (60°-80°) | 3842.4 | 36.2 | | | G2/5000 |
| FVH | (80°-90°) | 270.1 | 2.5 | | | G3/500 |
| BL | (0°-30°) | 559.6 | 5.3 | B2/1000 | | |
| BM | (30°-60°) | 1075.0 | 10.1 | B2/2500 | | |
| BH | (60°-80°) | 686.6 | 6.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 88.0 | 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° | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 |
| 2.5° | 1078.4 | 1072.8 | 1074.2 | 1074.2 | 1079.8 | 1082.6 | 1084.0 | 1088.2 | 1091.1 | 1098.1 | 1107.9 |
| 5° | 1027.9 | 1023.7 | 1025.1 | 1026.5 | 1036.4 | 1046.2 | 1054.6 | 1060.2 | 1068.6 | 1079.8 | 1093.9 |
| 7.5° | 991.5 | 988.7 | 990.1 | 992.9 | 1001.3 | 1012.5 | 1026.5 | 1035.0 | 1047.6 | 1068.6 | 1092.5 |
| 10° | 964.8 | 964.8 | 966.2 | 971.8 | 980.3 | 994.3 | 1005.5 | 1015.3 | 1040.6 | 1078.4 | 1114.9 |
| 12.5° | 943.8 | 943.8 | 948.0 | 959.2 | 973.3 | 987.3 | 1013.9 | 1025.1 | 1058.8 | 1110.7 | 1154.2 |
| 15° | 942.4 | 943.8 | 945.2 | 955.0 | 970.4 | 1001.3 | 1040.6 | 1057.4 | 1098.1 | 1159.8 | 1210.3 |
| 17.5° | 964.8 | 966.2 | 960.6 | 963.4 | 981.7 | 1025.1 | 1077.0 | 1096.7 | 1148.5 | 1215.9 | 1267.8 |
| 20° | 1033.6 | 1033.6 | 1016.7 | 1001.3 | 1013.9 | 1061.6 | 1120.5 | 1140.1 | 1197.6 | 1272.0 | 1323.8 |
| 22.5° | 1173.8 | 1180.8 | 1141.5 | 1107.9 | 1088.2 | 1114.9 | 1168.2 | 1189.2 | 1253.7 | 1333.7 | 1385.6 |
| 25° | 1343.5 | 1350.5 | 1297.2 | 1249.5 | 1213.1 | 1208.9 | 1243.9 | 1266.3 | 1319.6 | 1402.4 | 1445.9 |
| 27.5° | 1507.6 | 1494.9 | 1445.9 | 1401.0 | 1354.7 | 1316.8 | 1343.5 | 1363.1 | 1424.8 | 1487.9 | 1514.6 |
| 30° | 1636.6 | 1626.8 | 1579.1 | 1546.8 | 1503.4 | 1454.3 | 1438.8 | 1459.9 | 1510.4 | 1569.3 | 1583.3 |
| 32.5° | 1779.6 | 1772.6 | 1724.9 | 1682.9 | 1646.4 | 1600.1 | 1566.5 | 1576.3 | 1604.3 | 1646.4 | 1654.8 |
| 35° | 1961.9 | 1977.4 | 1926.9 | 1841.3 | 1800.7 | 1755.8 | 1731.9 | 1734.7 | 1755.8 | 1782.4 | 1768.4 |
| 37.5° | 2154.1 | 2172.3 | 2175.1 | 2040.5 | 1985.8 | 1945.1 | 1919.9 | 1929.7 | 1954.9 | 1973.1 | 1929.7 |
| 40° | 2510.3 | 2492.0 | 2419.1 | 2319.5 | 2235.4 | 2196.1 | 2161.1 | 2159.7 | 2177.9 | 2210.1 | 2131.6 |
| 42.5° | 2982.9 | 2966.0 | 2818.8 | 2689.8 | 2556.5 | 2511.7 | 2442.9 | 2413.5 | 2421.9 | 2462.6 | 2353.2 |
| 45° | 3435.8 | 3428.8 | 3311.0 | 3161.0 | 3001.1 | 2914.1 | 2757.1 | 2685.6 | 2678.5 | 2710.8 | 2580.4 |
| 47.5° | 3838.3 | 3807.5 | 3721.9 | 3605.5 | 3588.7 | 3361.5 | 3072.6 | 2975.8 | 2942.2 | 2960.4 | 2814.6 |
| 50° | 4268.8 | 4163.7 | 4045.9 | 3974.3 | 4096.3 | 3884.6 | 3391.0 | 3290.0 | 3207.2 | 3219.9 | 3068.4 |
| 52.5° | 4497.4 | 4320.7 | 4243.6 | 4264.6 | 4428.7 | 4347.4 | 3737.3 | 3613.9 | 3480.7 | 3498.9 | 3320.8 |
| 55° | 4301.1 | 4299.7 | 4333.4 | 4463.8 | 4692.4 | 4598.4 | 4066.9 | 3928.1 | 3782.2 | 3786.4 | 3611.1 |
| 57.5° | 4031.8 | 4086.5 | 4260.4 | 4547.9 | 5019.1 | 4862.0 | 4390.8 | 4243.6 | 4110.4 | 4089.3 | 3940.7 |
| 60° | 3786.4 | 3846.7 | 4099.2 | 4533.9 | 5132.7 | 5103.3 | 4699.4 | 4570.4 | 4462.4 | 4400.7 | 4287.1 |
| 62.5° | 3413.4 | 3458.3 | 3815.9 | 4444.1 | 5037.3 | 5277.2 | 5012.1 | 4923.8 | 4842.4 | 4714.8 | 4660.1 |
| 65° | 2974.4 | 2989.9 | 3367.1 | 4148.2 | 4918.1 | 5344.5 | 5323.4 | 5284.2 | 5205.6 | 5017.7 | 5028.9 |
| 67.5° | 2499.0 | 2529.9 | 2860.9 | 3675.6 | 4657.3 | 5313.6 | 5564.6 | 5596.9 | 5504.3 | 5222.5 | 5264.5 |
| 70° | 1992.8 | 2030.6 | 2281.7 | 3022.1 | 4214.1 | 5180.4 | 5787.6 | 5839.5 | 5661.4 | 5289.8 | 5308.0 |
| 72.5° | 1232.7 | 1269.2 | 1437.4 | 2099.4 | 3340.5 | 4733.0 | 5856.3 | 5923.6 | 5665.6 | 5200.0 | 5024.7 |
| 75° | 426.3 | 430.5 | 562.4 | 1006.9 | 1983.0 | 3573.3 | 5632.0 | 5790.4 | 5487.5 | 4873.3 | 4372.6 |
| 77.5° | 194.9 | 201.9 | 249.6 | 415.1 | 879.3 | 1928.3 | 4650.3 | 5047.2 | 4946.2 | 4362.8 | 3365.7 |
| 80° | 134.6 | 137.4 | 172.5 | 248.2 | 507.7 | 678.8 | 2935.2 | 3452.7 | 3629.4 | 3378.3 | 2156.9 |
| 82.5° | 101.0 | 103.8 | 133.2 | 168.3 | 366.0 | 329.6 | 1117.7 | 1604.3 | 1994.2 | 1957.7 | 901.7 |
| 85° | 96.8 | 95.4 | 103.8 | 112.2 | 244.0 | 196.3 | 361.8 | 496.4 | 778.3 | 666.1 | 227.2 |
| 87.5° | 42.1 | 46.3 | 106.6 | 63.1 | 127.6 | 91.2 | 157.1 | 183.7 | 237.0 | 206.1 | 81.3 |
| 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° | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 |
| 2.5° | 1112.1 | 1114.9 | 1123.3 | 1135.9 | 1142.9 | 1157.0 | 1166.8 | 1172.4 | 1176.6 | 1178.0 | 1178.0 |
| 5° | 1102.3 | 1107.9 | 1126.1 | 1147.1 | 1166.8 | 1196.2 | 1222.9 | 1238.3 | 1249.5 | 1253.7 | 1255.1 |
| 7.5° | 1105.1 | 1119.1 | 1145.7 | 1176.6 | 1201.8 | 1239.7 | 1272.0 | 1302.8 | 1328.1 | 1337.9 | 1337.9 |
| 10° | 1131.7 | 1151.4 | 1187.8 | 1228.5 | 1260.7 | 1300.0 | 1333.7 | 1360.3 | 1389.8 | 1406.6 | 1409.4 |
| 12.5° | 1172.4 | 1196.2 | 1243.9 | 1288.8 | 1325.2 | 1356.1 | 1387.0 | 1406.6 | 1420.6 | 1433.2 | 1436.0 |
| 15° | 1229.9 | 1259.3 | 1307.0 | 1353.3 | 1385.6 | 1405.2 | 1413.6 | 1413.6 | 1412.2 | 1413.6 | 1416.4 |
| 17.5° | 1287.4 | 1315.4 | 1363.1 | 1409.4 | 1424.8 | 1413.6 | 1403.8 | 1401.0 | 1399.6 | 1396.8 | 1398.2 |
| 20° | 1343.5 | 1370.1 | 1410.8 | 1445.9 | 1433.2 | 1394.0 | 1381.3 | 1379.9 | 1375.7 | 1372.9 | 1370.1 |
| 22.5° | 1399.6 | 1419.2 | 1452.9 | 1465.5 | 1415.0 | 1358.9 | 1343.5 | 1335.1 | 1329.5 | 1322.4 | 1315.4 |
| 25° | 1464.1 | 1469.7 | 1494.9 | 1475.3 | 1370.1 | 1294.4 | 1272.0 | 1259.3 | 1253.7 | 1246.7 | 1241.1 |
| 27.5° | 1524.4 | 1524.4 | 1528.6 | 1459.9 | 1304.2 | 1208.9 | 1175.2 | 1152.8 | 1151.4 | 1150.0 | 1148.5 |
| 30° | 1579.1 | 1572.1 | 1558.0 | 1413.6 | 1218.7 | 1103.7 | 1053.2 | 1030.7 | 1039.2 | 1046.2 | 1047.6 |
| 32.5° | 1643.6 | 1629.6 | 1590.3 | 1350.5 | 1116.3 | 985.9 | 924.2 | 914.4 | 924.2 | 932.6 | 927.0 |
| 35° | 1744.6 | 1719.3 | 1624.0 | 1277.6 | 1018.1 | 877.9 | 819.0 | 805.0 | 802.2 | 800.8 | 789.5 |
| 37.5° | 1889.0 | 1845.5 | 1650.6 | 1199.0 | 921.4 | 782.5 | 739.1 | 709.6 | 683.0 | 654.9 | 650.7 |
| 40° | 2065.7 | 1991.4 | 1668.8 | 1109.3 | 819.0 | 702.6 | 656.3 | 618.4 | 573.6 | 524.5 | 518.9 |
| 42.5° | 2259.2 | 2148.4 | 1677.2 | 1009.7 | 729.2 | 636.7 | 579.2 | 531.5 | 481.0 | 443.2 | 436.1 |
| 45° | 2468.2 | 2318.1 | 1670.2 | 914.4 | 656.3 | 580.6 | 516.1 | 464.2 | 423.5 | 396.9 | 391.3 |
| 47.5° | 2671.5 | 2513.1 | 1650.6 | 838.6 | 600.2 | 532.9 | 467.0 | 419.3 | 388.5 | 359.0 | 352.0 |
| 50° | 2932.4 | 2699.6 | 1626.8 | 779.7 | 538.5 | 485.2 | 436.1 | 385.7 | 350.6 | 336.6 | 333.8 |
| 52.5° | 3221.3 | 2886.1 | 1598.7 | 705.4 | 478.2 | 447.4 | 416.5 | 371.6 | 360.4 | 333.8 | 329.6 |
| 55° | 3534.0 | 3107.7 | 1593.1 | 611.4 | 424.9 | 420.7 | 396.9 | 384.3 | 387.1 | 333.8 | 326.8 |
| 57.5° | 3863.6 | 3344.7 | 1605.7 | 517.5 | 381.4 | 396.9 | 405.3 | 395.5 | 391.3 | 340.8 | 326.8 |
| 60° | 4207.1 | 3573.3 | 1567.9 | 430.5 | 347.8 | 377.2 | 415.1 | 389.9 | 359.0 | 338.0 | 328.2 |
| 62.5° | 4540.9 | 3765.4 | 1403.8 | 368.8 | 322.5 | 371.6 | 409.5 | 368.8 | 333.8 | 333.8 | 329.6 |
| 65° | 4783.5 | 3850.9 | 1098.1 | 323.9 | 305.7 | 364.6 | 399.7 | 354.8 | 326.8 | 336.6 | 331.0 |
| 67.5° | 4811.6 | 3762.6 | 737.7 | 288.9 | 291.7 | 352.0 | 377.2 | 342.2 | 319.7 | 345.0 | 336.6 |
| 70° | 4639.1 | 3532.6 | 451.6 | 262.2 | 273.5 | 329.6 | 357.6 | 329.6 | 309.9 | 338.0 | 325.4 |
| 72.5° | 4191.7 | 3103.5 | 318.3 | 239.8 | 253.8 | 308.5 | 339.4 | 318.3 | 295.9 | 305.7 | 293.1 |
| 75° | 3438.6 | 2405.1 | 252.4 | 218.8 | 234.2 | 288.9 | 323.9 | 301.5 | 279.1 | 274.9 | 266.5 |
| 77.5° | 2435.9 | 1541.2 | 203.3 | 201.9 | 213.2 | 265.0 | 302.9 | 281.9 | 259.4 | 251.0 | 245.4 |
| 80° | 1401.0 | 755.9 | 175.3 | 182.3 | 193.5 | 241.2 | 277.7 | 259.4 | 238.4 | 225.8 | 217.4 |
| 82.5° | 535.7 | 263.6 | 154.3 | 158.5 | 171.1 | 216.0 | 252.4 | 237.0 | 216.0 | 227.2 | 190.7 |
| 85° | 173.9 | 144.4 | 126.2 | 130.4 | 143.0 | 179.5 | 223.0 | 210.4 | 186.5 | 165.5 | 152.9 |
| 87.5° | 77.1 | 78.5 | 67.3 | 74.3 | 89.8 | 119.2 | 162.7 | 154.3 | 136.0 | 113.6 | 109.4 |
| 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)