

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: P598144

Luminaire Tested: **PMM-SA3D-827-U-T4FT**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3D-827-U-T4FT
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14666 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

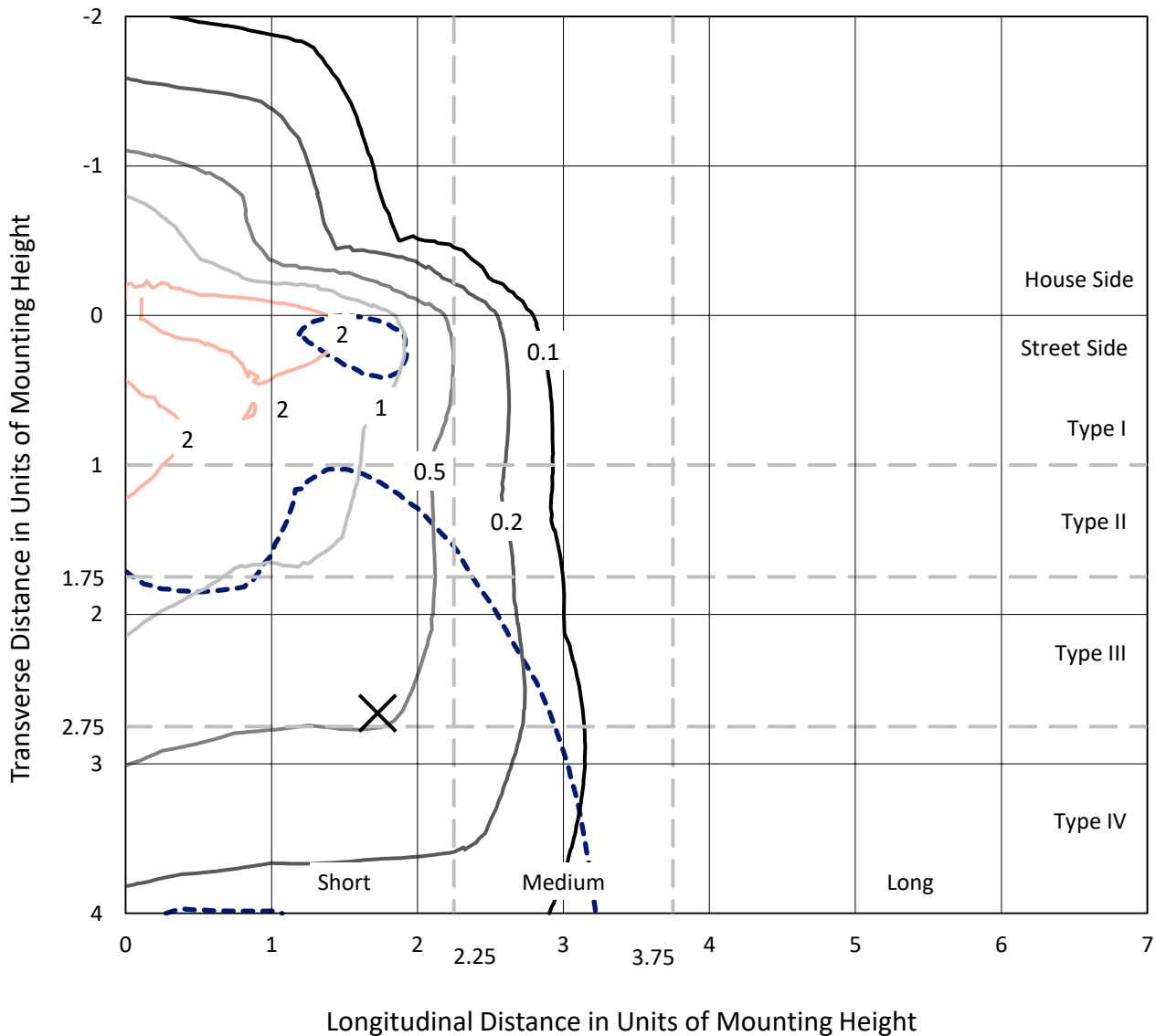
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

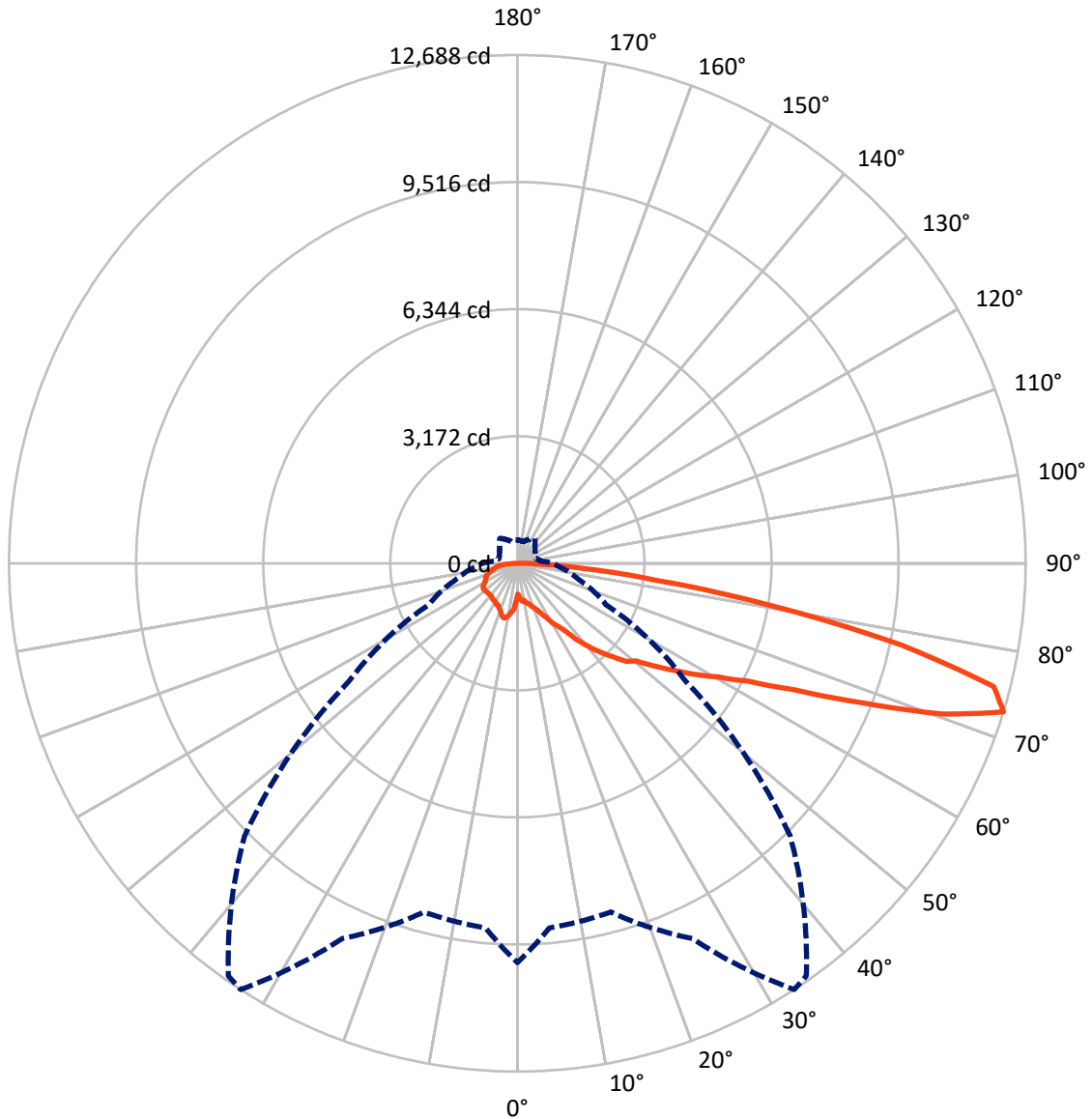
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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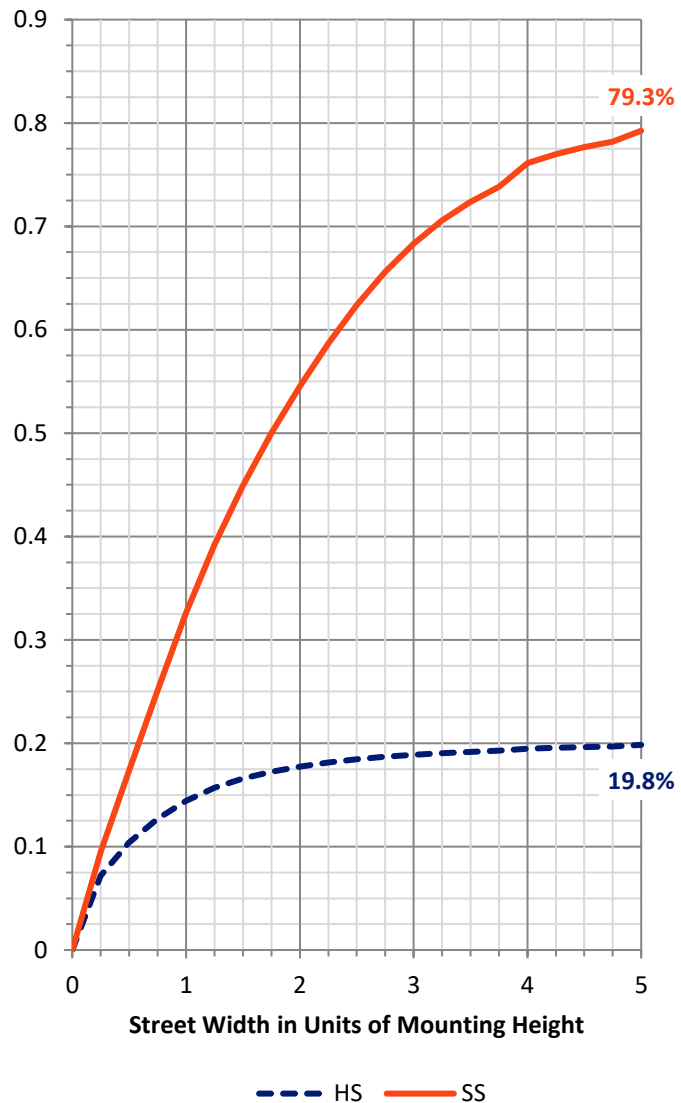
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2966.9 | 0.0 | 2966.9 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 11699.1 | 0.0 | 11699.1 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 14666.0 | 0.0 | 14666.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 105.8 | 0.7 |
| 10°-20° | 390.8 | 2.7 |
| 20°-30° | 712.6 | 4.9 |
| 30°-40° | 1205.5 | 8.2 |
| 40°-50° | 2005.5 | 13.7 |
| 50°-60° | 2943.2 | 20.1 |
| 60°-70° | 3765.1 | 25.7 |
| 70°-80° | 3063.2 | 20.9 |
| 80°-90° | 474.4 | 3.2 |
| 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° | 14666.0 | 100.0 |
| 0°-180° | 14666.0 | 100.0 |

Coefficient of Utilization



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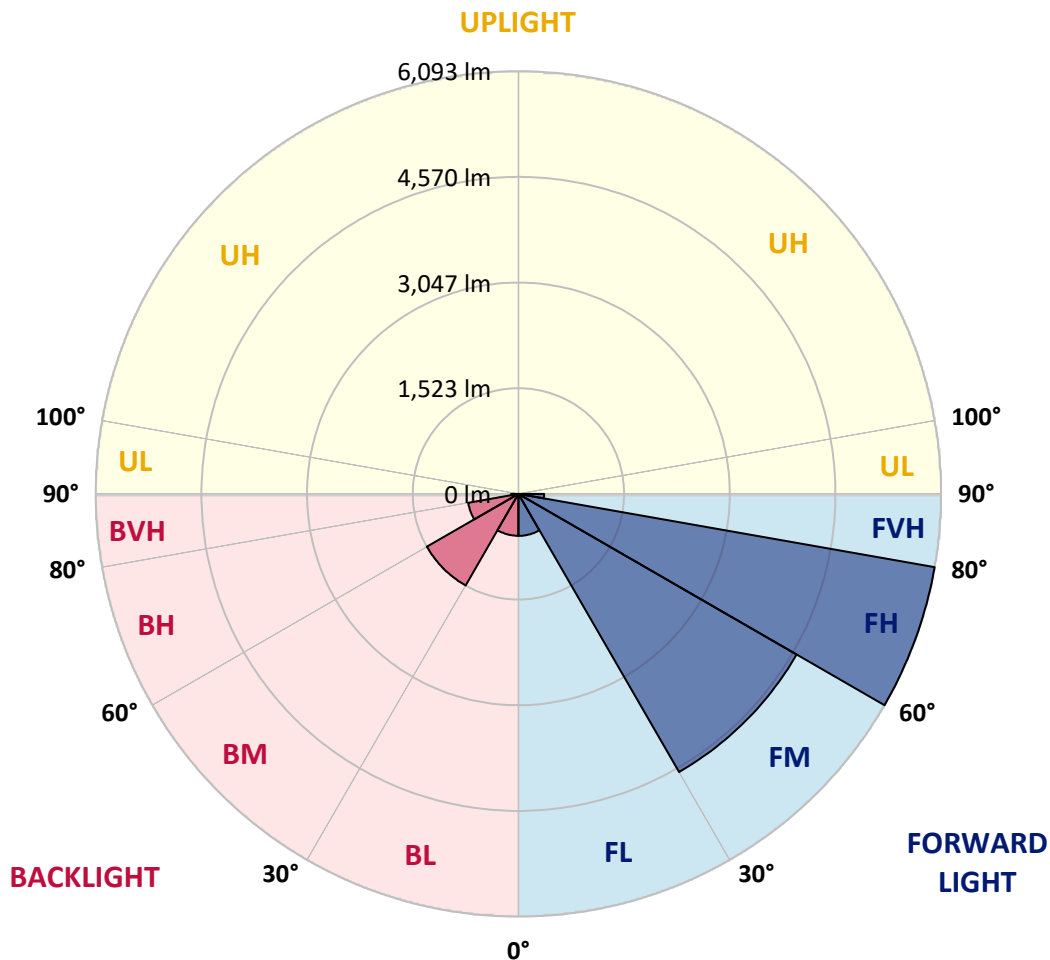
CATALOG NUMBER: PMM-SA3D-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 605.3 | 4.1 | | | |
| FM (30°-60°) | 4630.4 | 31.6 | | | |
| FH (60°-80°) | 6093.2 | 41.5 | | | G3/7500 |
| FVH (80°-90°) | 370.3 | 2.5 | | | G3/500 |
| BL (0°-30°) | 603.8 | 4.1 | B2/1000 | | |
| BM (30°-60°) | 1523.8 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 735.1 | 5.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 104.1 | 0.7 | | | G2/225 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 |
| 2.5° | 871.8 | 844.5 | 799.4 | 798.2 | 823.2 | 828.7 | 845.1 | 846.3 | 852.4 | 842.6 | 912.0 |
| 5° | 961.9 | 932.7 | 915.0 | 921.1 | 909.6 | 923.6 | 923.6 | 963.7 | 1017.3 | 1079.3 | 1167.5 |
| 7.5° | 983.2 | 961.9 | 941.8 | 957.0 | 959.5 | 946.1 | 958.9 | 1053.2 | 1149.9 | 1211.9 | 1353.1 |
| 10° | 940.6 | 919.3 | 934.5 | 939.4 | 938.8 | 969.2 | 1035.5 | 1111.0 | 1218.6 | 1333.0 | 1409.1 |
| 12.5° | 932.7 | 947.9 | 955.2 | 963.7 | 1021.5 | 1030.6 | 1131.0 | 1208.9 | 1317.2 | 1417.6 | 1615.3 |
| 15° | 1050.1 | 1070.2 | 1025.2 | 1022.1 | 1041.0 | 1049.5 | 1153.5 | 1232.0 | 1390.2 | 1558.7 | 1736.4 |
| 17.5° | 1217.4 | 1224.7 | 1143.8 | 1102.4 | 1116.4 | 1123.1 | 1168.8 | 1267.3 | 1364.7 | 1676.2 | 1897.6 |
| 20° | 1379.3 | 1384.1 | 1232.0 | 1139.5 | 1188.8 | 1196.1 | 1238.7 | 1295.3 | 1372.0 | 1741.9 | 2006.5 |
| 22.5° | 1549.0 | 1518.0 | 1351.3 | 1234.5 | 1263.1 | 1264.9 | 1289.8 | 1320.9 | 1429.8 | 1731.5 | 2139.2 |
| 25° | 1734.6 | 1715.1 | 1505.2 | 1393.3 | 1392.0 | 1367.1 | 1368.3 | 1412.7 | 1491.2 | 1842.3 | 2226.2 |
| 27.5° | 1981.0 | 1983.4 | 1678.6 | 1618.4 | 1524.1 | 1507.6 | 1425.5 | 1508.2 | 1597.7 | 1843.5 | 2414.2 |
| 30° | 2300.4 | 2241.4 | 1920.1 | 1822.8 | 1729.7 | 1695.0 | 1583.7 | 1654.3 | 1693.2 | 1948.7 | 2618.6 |
| 32.5° | 2560.2 | 2543.1 | 2172.0 | 2024.8 | 1872.7 | 1912.8 | 1789.9 | 1727.9 | 1797.8 | 2130.0 | 2928.3 |
| 35° | 2809.0 | 2753.0 | 2438.5 | 2246.9 | 2086.8 | 2062.5 | 1982.8 | 1993.1 | 2035.7 | 2359.4 | 3332.9 |
| 37.5° | 3180.1 | 3149.7 | 2815.7 | 2509.1 | 2434.2 | 2335.1 | 2284.6 | 2316.8 | 2283.4 | 2653.3 | 3939.4 |
| 40° | 3595.1 | 3418.6 | 3130.9 | 2857.7 | 2717.8 | 2647.8 | 2665.4 | 2635.0 | 2609.5 | 2983.0 | 4483.4 |
| 42.5° | 3992.4 | 3831.8 | 3340.2 | 3217.3 | 3034.7 | 3063.9 | 2967.2 | 2988.5 | 3060.9 | 3450.9 | 4986.5 |
| 45° | 4425.0 | 4077.6 | 3562.2 | 3453.9 | 3323.1 | 3360.2 | 3437.5 | 3414.4 | 3533.0 | 4002.7 | 5460.5 |
| 47.5° | 4640.9 | 4310.6 | 3834.8 | 3658.4 | 3656.5 | 3579.3 | 4049.6 | 4100.7 | 3915.1 | 4411.6 | 5941.7 |
| 50° | 4849.0 | 4524.1 | 4037.4 | 3918.1 | 3831.8 | 3997.2 | 4636.7 | 4519.3 | 4260.7 | 4880.7 | 6471.0 |
| 52.5° | 5138.6 | 4768.1 | 4269.8 | 4142.7 | 4249.7 | 4403.1 | 5105.2 | 5082.0 | 4599.6 | 5363.1 | 6931.0 |
| 55° | 5359.5 | 4985.3 | 4619.6 | 4501.6 | 4706.0 | 4856.3 | 5582.1 | 5442.8 | 4889.8 | 5717.2 | 7222.4 |
| 57.5° | 5746.4 | 5362.5 | 5136.2 | 4874.0 | 5241.4 | 5239.0 | 6042.1 | 5934.4 | 5200.1 | 6008.0 | 7339.8 |
| 60° | 6361.5 | 5910.7 | 5674.0 | 5371.6 | 5765.3 | 5905.8 | 6567.8 | 6257.5 | 5419.7 | 6191.8 | 7128.1 |
| 62.5° | 7224.8 | 6689.4 | 6305.5 | 6006.2 | 6486.2 | 6740.6 | 7216.9 | 6492.9 | 5433.7 | 6139.4 | 6571.4 |
| 65° | 8292.6 | 7641.6 | 7138.5 | 6822.1 | 7614.2 | 7977.4 | 8001.8 | 6638.3 | 5304.7 | 5598.6 | 5400.8 |
| 67.5° | 9334.2 | 8602.3 | 8077.2 | 8137.5 | 9294.0 | 9466.2 | 8852.3 | 6760.0 | 4611.7 | 4495.5 | 3750.2 |
| 70° | 10019.9 | 9226.5 | 8876.7 | 9515.5 | 11272.6 | 11096.1 | 9541.7 | 6439.4 | 3631.6 | 2914.3 | 2111.8 |
| 72.5° | 9968.2 | 9137.7 | 9011.7 | 10334.4 | 12687.7 | 12577.6 | 9625.6 | 5121.0 | 2432.4 | 1593.4 | 1053.2 |
| 75° | 8121.0 | 7475.5 | 7761.5 | 9783.2 | 12280.1 | 12274.6 | 8357.1 | 3169.8 | 1247.8 | 818.3 | 665.6 |
| 77.5° | 4490.1 | 4239.4 | 5079.6 | 7407.4 | 9777.7 | 9827.6 | 5646.6 | 1437.7 | 672.9 | 579.8 | 501.3 |
| 80° | 1572.7 | 1549.6 | 2201.2 | 3997.2 | 6432.1 | 6444.3 | 2625.9 | 657.7 | 489.2 | 438.7 | 368.1 |
| 82.5° | 574.9 | 570.1 | 912.6 | 1856.9 | 3541.5 | 3533.6 | 996.0 | 409.5 | 362.6 | 310.3 | 242.8 |
| 85° | 229.4 | 224.5 | 417.4 | 824.4 | 1626.9 | 1600.7 | 386.9 | 232.4 | 237.3 | 185.0 | 119.2 |
| 87.5° | 63.3 | 65.7 | 141.8 | 258.0 | 498.3 | 461.8 | 97.3 | 78.5 | 96.1 | 75.4 | 37.7 |
| 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° | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 | 769.0 |
| 2.5° | 924.2 | 930.3 | 870.0 | 891.3 | 918.7 | 933.3 | 940.6 | 909.6 | 919.9 | 963.7 | 961.9 |
| 5° | 1185.8 | 1161.5 | 1138.3 | 1162.1 | 1146.2 | 1123.7 | 1160.2 | 1158.4 | 1182.1 | 1205.9 | 1211.3 |
| 7.5° | 1381.1 | 1349.4 | 1338.5 | 1285.0 | 1231.4 | 1177.3 | 1224.1 | 1253.3 | 1259.4 | 1318.4 | 1343.4 |
| 10° | 1451.7 | 1439.5 | 1443.8 | 1373.2 | 1366.5 | 1372.0 | 1328.8 | 1281.9 | 1310.5 | 1286.2 | 1304.4 |
| 12.5° | 1614.7 | 1645.1 | 1569.7 | 1521.6 | 1517.4 | 1483.9 | 1397.5 | 1367.1 | 1334.8 | 1368.3 | 1351.3 |
| 15° | 1745.5 | 1802.1 | 1721.2 | 1636.6 | 1541.1 | 1489.4 | 1415.8 | 1369.5 | 1348.2 | 1355.5 | 1334.8 |
| 17.5° | 1937.2 | 1990.1 | 1784.5 | 1654.9 | 1556.3 | 1480.3 | 1367.7 | 1269.1 | 1321.5 | 1325.7 | 1302.0 |
| 20° | 2064.3 | 2068.0 | 1805.8 | 1609.8 | 1521.0 | 1389.0 | 1279.5 | 1193.1 | 1253.3 | 1314.8 | 1341.5 |
| 22.5° | 2188.4 | 2161.1 | 1831.9 | 1574.0 | 1392.6 | 1264.9 | 1211.3 | 1205.9 | 1250.9 | 1302.6 | 1308.7 |
| 25° | 2281.5 | 2285.8 | 1847.1 | 1560.6 | 1317.2 | 1143.2 | 1143.2 | 1182.7 | 1222.3 | 1345.2 | 1339.1 |
| 27.5° | 2507.3 | 2341.2 | 1788.1 | 1499.1 | 1212.6 | 1072.0 | 1143.8 | 1196.7 | 1215.6 | 1348.8 | 1362.2 |
| 30° | 2671.5 | 2563.2 | 1800.3 | 1393.9 | 1106.7 | 1038.6 | 1097.6 | 1163.9 | 1216.2 | 1370.1 | 1365.3 |
| 32.5° | 2947.1 | 2655.7 | 1828.9 | 1246.0 | 1027.6 | 1025.8 | 1078.1 | 1148.1 | 1210.7 | 1347.0 | 1354.3 |
| 35° | 3251.9 | 2928.3 | 1749.2 | 1133.5 | 1008.7 | 1018.5 | 1086.0 | 1114.0 | 1187.6 | 1337.9 | 1344.6 |
| 37.5° | 3815.9 | 3070.6 | 1698.7 | 1046.5 | 996.6 | 1024.6 | 1050.1 | 1093.3 | 1167.5 | 1292.3 | 1336.1 |
| 40° | 4146.9 | 3363.9 | 1511.3 | 996.0 | 971.0 | 1019.7 | 1032.5 | 1069.0 | 1109.1 | 1237.5 | 1265.5 |
| 42.5° | 4582.5 | 3456.4 | 1351.3 | 940.0 | 958.2 | 999.6 | 1037.9 | 1047.1 | 1073.8 | 1151.1 | 1202.2 |
| 45° | 4945.8 | 3525.7 | 1181.5 | 895.0 | 915.0 | 1044.0 | 1046.5 | 1042.2 | 1037.3 | 1065.9 | 1107.9 |
| 47.5° | 5321.7 | 3711.9 | 1025.2 | 845.1 | 898.6 | 1080.5 | 1050.7 | 1011.8 | 991.7 | 995.4 | 1034.3 |
| 50° | 5736.7 | 3847.0 | 914.4 | 804.3 | 902.3 | 1080.5 | 1071.4 | 980.8 | 940.6 | 930.3 | 971.0 |
| 52.5° | 6101.7 | 3862.8 | 830.5 | 771.5 | 887.1 | 1043.4 | 1085.4 | 961.3 | 893.8 | 868.8 | 907.1 |
| 55° | 6300.7 | 3662.6 | 769.6 | 741.6 | 848.1 | 1010.0 | 1078.1 | 950.3 | 837.2 | 818.3 | 852.4 |
| 57.5° | 6296.4 | 3330.4 | 717.9 | 700.3 | 803.7 | 963.1 | 1037.3 | 890.7 | 802.5 | 791.5 | 825.0 |
| 60° | 6069.5 | 2941.0 | 678.4 | 666.2 | 758.1 | 895.0 | 964.3 | 851.8 | 769.0 | 763.6 | 800.1 |
| 62.5° | 5554.8 | 2538.9 | 640.0 | 630.3 | 715.5 | 846.9 | 929.6 | 808.6 | 734.3 | 733.7 | 768.4 |
| 65° | 4549.1 | 2038.2 | 604.1 | 601.7 | 675.9 | 799.4 | 896.8 | 772.1 | 698.5 | 710.6 | 745.9 |
| 67.5° | 3134.5 | 1432.2 | 565.8 | 573.1 | 639.4 | 753.8 | 871.8 | 747.7 | 660.7 | 685.7 | 717.3 |
| 70° | 1720.0 | 885.8 | 523.2 | 537.8 | 593.2 | 700.9 | 832.9 | 708.2 | 611.5 | 649.8 | 671.7 |
| 72.5° | 874.9 | 590.8 | 470.3 | 493.4 | 536.6 | 623.0 | 759.9 | 651.0 | 558.5 | 573.1 | 584.7 |
| 75° | 587.7 | 444.7 | 411.3 | 436.8 | 467.9 | 548.8 | 674.1 | 597.5 | 508.0 | 506.2 | 519.0 |
| 77.5° | 444.1 | 347.4 | 349.2 | 378.4 | 398.5 | 482.5 | 606.0 | 552.4 | 465.4 | 461.2 | 480.0 |
| 80° | 324.9 | 263.4 | 281.1 | 311.5 | 329.8 | 433.2 | 561.6 | 502.5 | 407.6 | 390.6 | 406.4 |
| 82.5° | 215.4 | 186.8 | 208.1 | 238.5 | 253.1 | 362.0 | 509.8 | 426.5 | 332.2 | 289.0 | 291.4 |
| 85° | 101.6 | 98.0 | 124.1 | 138.7 | 157.6 | 224.5 | 381.5 | 295.1 | 211.7 | 175.2 | 183.1 |
| 87.5° | 23.1 | 31.0 | 40.8 | 40.2 | 46.8 | 60.2 | 118.6 | 82.7 | 61.4 | 42.0 | 28.0 |
| 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)