

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: P598454

Luminaire Tested: **PMIM-SA3B-835-U-T4W**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3B-835-U-T4W
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12288 lumens
Efficiency: N/A
Efficacy: 97.5 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): 126
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

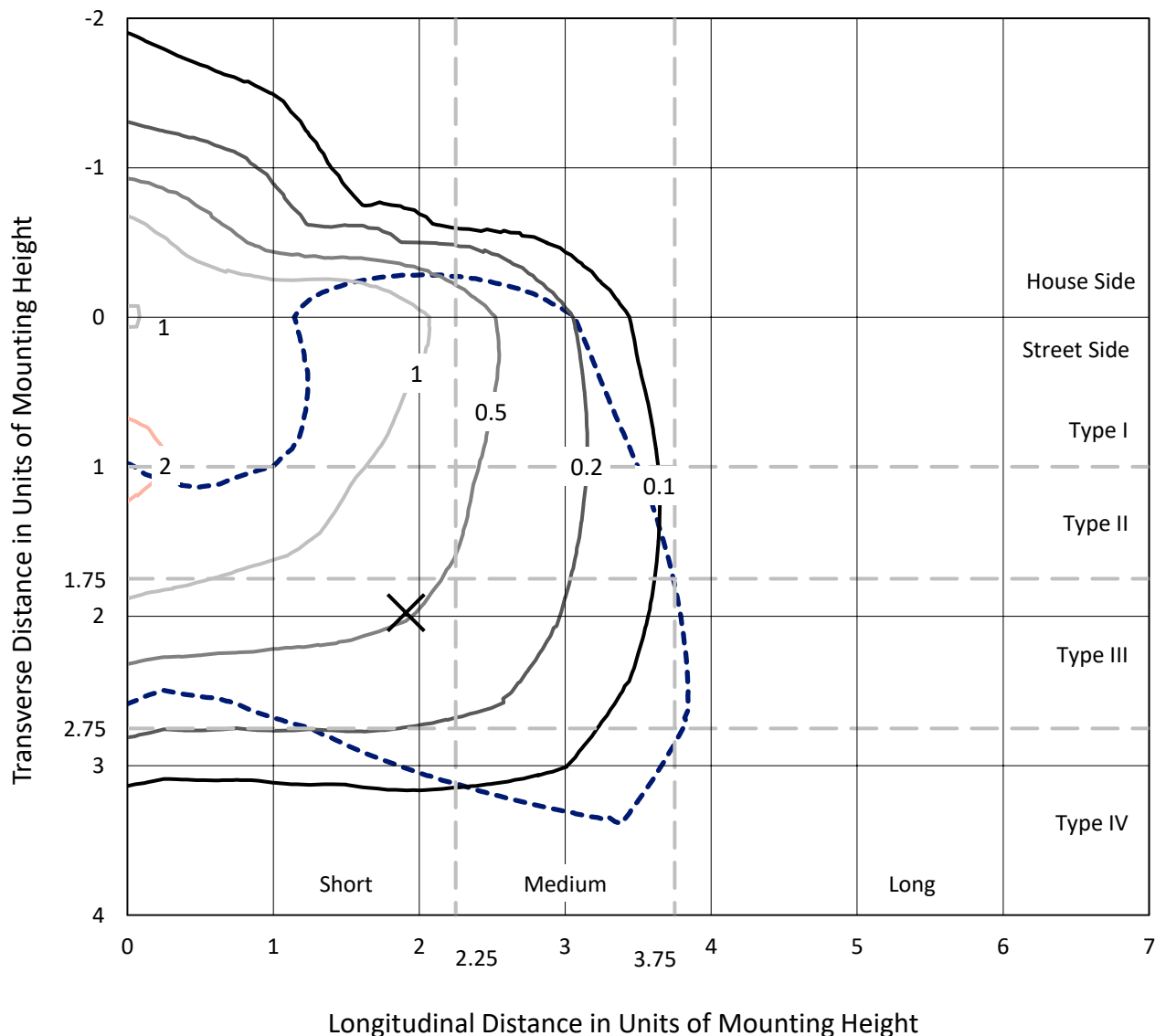


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Iso-Footcandle Lines of Horizontal Illumination

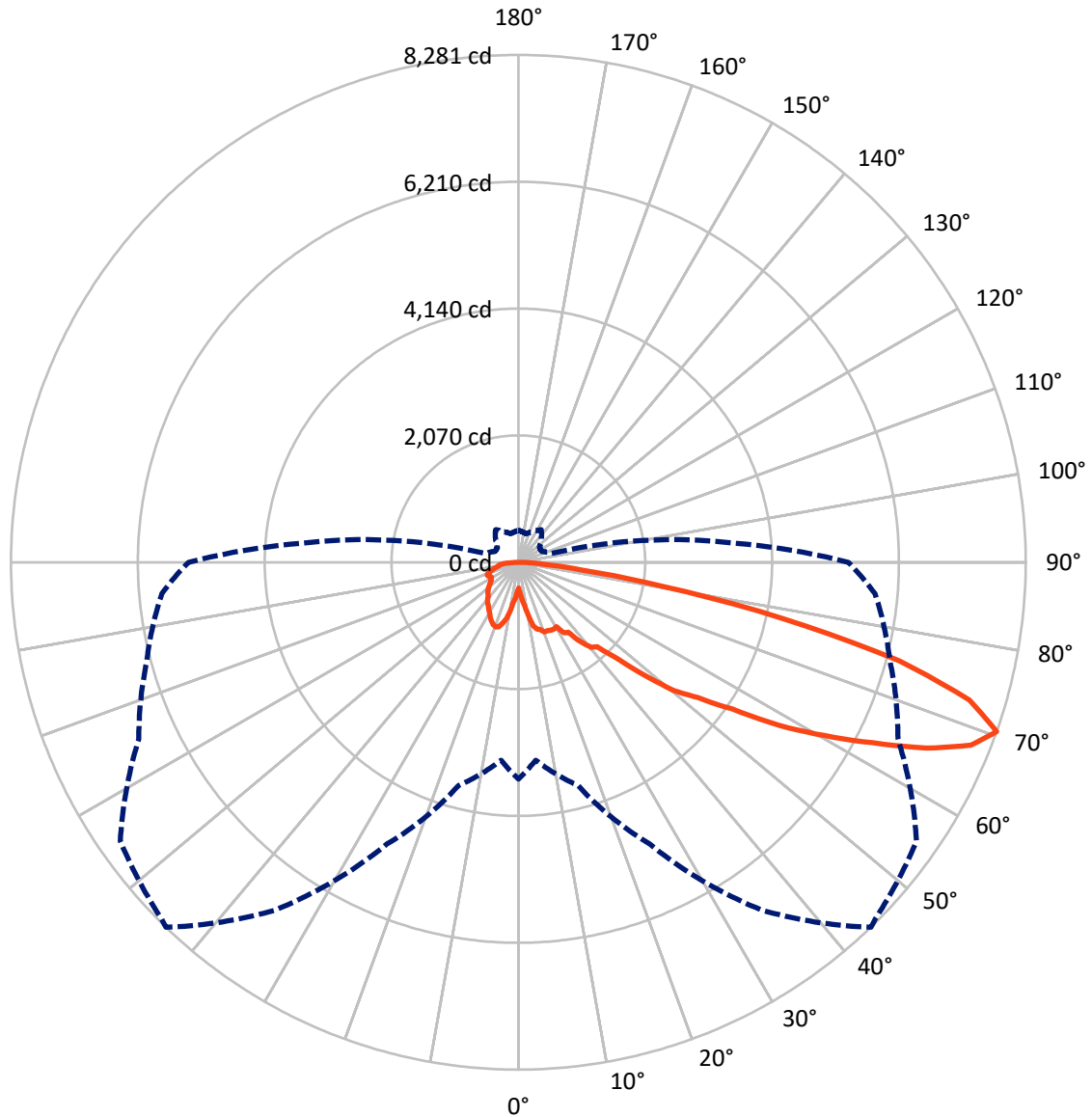
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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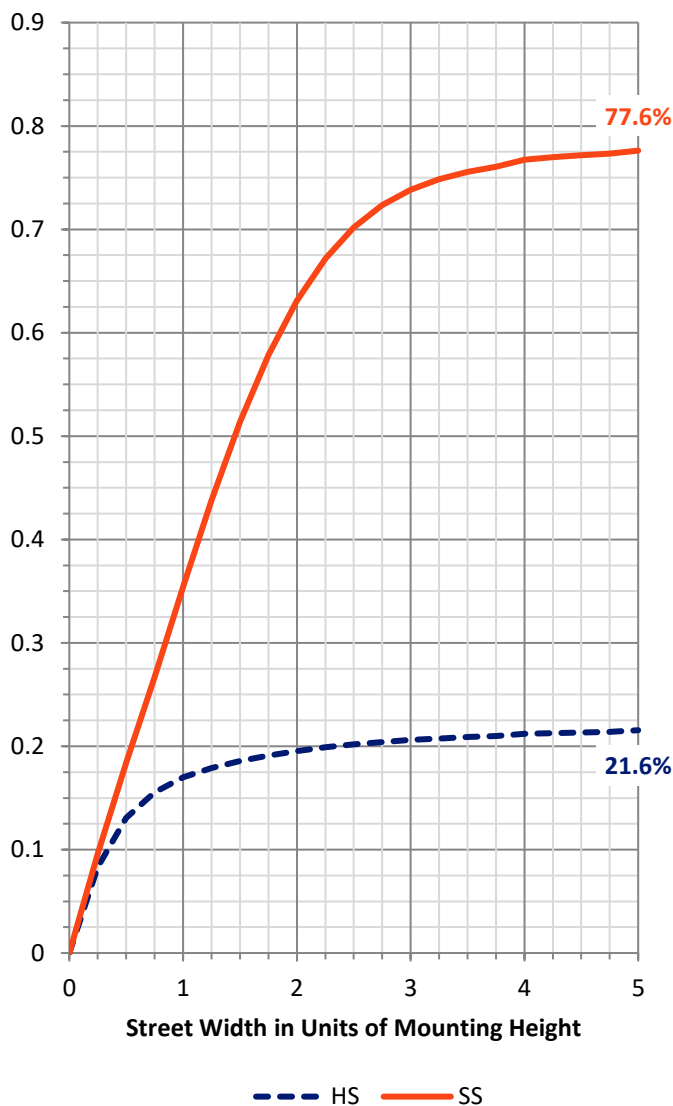
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2711.2 | 0.0 | 2711.2 |
| | % Fixture | 22.1 | 0.0 | 22.1 |
| Street Side | Lumens | 9576.8 | 0.0 | 9576.8 |
| | % Fixture | 77.9 | 0.0 | 77.9 |
| Total | Lumens | 12288.0 | 0.0 | 12288.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 65.5 | 0.5 |
| 10°-20° | 301.6 | 2.5 |
| 20°-30° | 563.6 | 4.6 |
| 30°-40° | 904.6 | 7.4 |
| 40°-50° | 1526.9 | 12.4 |
| 50°-60° | 2720.9 | 22.1 |
| 60°-70° | 3721.8 | 30.3 |
| 70°-80° | 2188.6 | 17.8 |
| 80°-90° | 294.7 | 2.4 |
| 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° | 12288.0 | 100.0 |
| 0°-180° | 12288.0 | 100.0 |

Coefficient of Utilization



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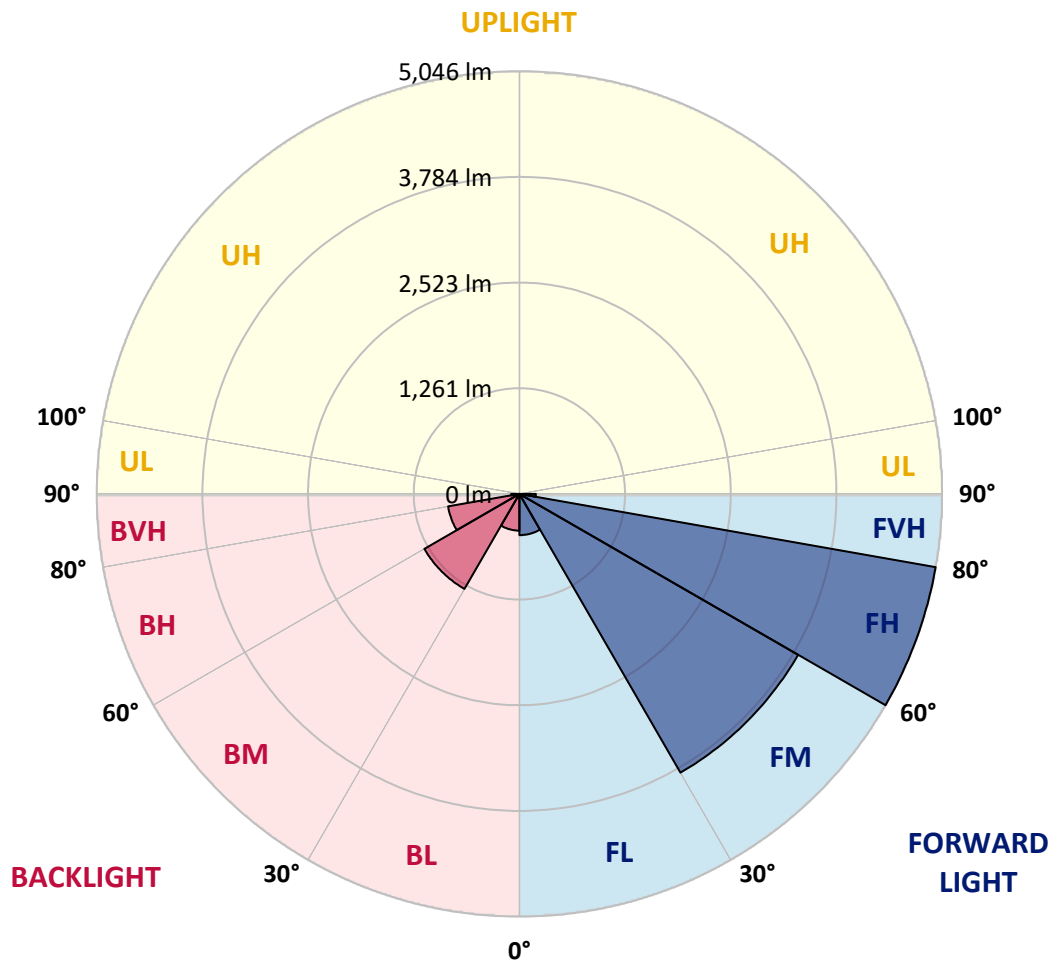
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 492.4 | 4.0 | | | |
| FM (30°-60°) | 3842.1 | 31.3 | | | |
| FH (60°-80°) | 5045.8 | 41.1 | | | G3/7500 |
| FVH (80°-90°) | 196.4 | 1.6 | | | G2/225 |
| BL (0°-30°) | 438.2 | 3.6 | B1/500 | | |
| BM (30°-60°) | 1310.2 | 10.7 | B2/2500 | | |
| BH (60°-80°) | 864.5 | 7.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 98.3 | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 |
| 2.5° | 506.9 | 496.8 | 472.6 | 480.7 | 490.7 | 494.8 | 493.8 | 492.8 | 477.1 | 471.6 | 499.3 |
| 5° | 688.8 | 666.6 | 648.9 | 641.9 | 618.7 | 600.6 | 589.5 | 618.7 | 614.2 | 621.7 | 640.9 |
| 7.5° | 860.1 | 846.0 | 806.1 | 792.0 | 744.7 | 713.4 | 709.9 | 733.1 | 739.1 | 727.0 | 759.8 |
| 10° | 970.4 | 946.2 | 938.2 | 904.4 | 871.6 | 866.6 | 863.6 | 853.0 | 838.4 | 837.4 | 808.2 |
| 12.5° | 1056.1 | 1068.6 | 1075.2 | 1036.4 | 1037.4 | 1055.5 | 1046.0 | 1003.2 | 978.5 | 935.1 | 938.7 |
| 15° | 1209.7 | 1227.9 | 1176.0 | 1151.3 | 1103.9 | 1131.1 | 1127.6 | 1091.8 | 1088.3 | 1060.1 | 1027.3 |
| 17.5° | 1343.7 | 1351.8 | 1265.1 | 1208.7 | 1192.6 | 1153.3 | 1163.9 | 1164.9 | 1118.5 | 1168.9 | 1139.7 |
| 20° | 1354.8 | 1383.6 | 1283.8 | 1171.4 | 1219.8 | 1214.8 | 1216.3 | 1206.2 | 1145.2 | 1228.4 | 1217.3 |
| 22.5° | 1409.2 | 1365.4 | 1275.7 | 1193.6 | 1206.2 | 1213.8 | 1220.8 | 1208.7 | 1205.2 | 1251.5 | 1285.3 |
| 25° | 1399.2 | 1385.1 | 1294.4 | 1224.8 | 1226.4 | 1227.9 | 1231.4 | 1267.7 | 1263.6 | 1326.6 | 1344.3 |
| 27.5° | 1493.4 | 1471.7 | 1299.9 | 1282.8 | 1243.5 | 1234.9 | 1210.7 | 1286.3 | 1345.3 | 1343.7 | 1441.0 |
| 30° | 1672.8 | 1650.6 | 1428.9 | 1379.0 | 1308.0 | 1220.3 | 1266.7 | 1367.4 | 1413.8 | 1429.4 | 1552.8 |
| 32.5° | 1952.9 | 1989.2 | 1682.8 | 1481.8 | 1393.6 | 1374.5 | 1369.4 | 1359.4 | 1474.2 | 1551.3 | 1663.7 |
| 35° | 2355.0 | 2326.2 | 1982.1 | 1702.0 | 1483.8 | 1401.7 | 1412.8 | 1474.2 | 1610.8 | 1660.7 | 1764.5 |
| 37.5° | 2815.5 | 2756.0 | 2365.5 | 1951.4 | 1743.8 | 1641.0 | 1604.2 | 1663.7 | 1693.9 | 1733.2 | 1945.3 |
| 40° | 3283.5 | 3138.4 | 2741.9 | 2279.4 | 1900.0 | 1822.4 | 1790.2 | 1717.1 | 1788.1 | 1867.7 | 2137.3 |
| 42.5° | 3735.5 | 3623.1 | 3151.5 | 2670.9 | 2163.0 | 1886.4 | 1868.8 | 1797.2 | 2017.4 | 2101.5 | 2414.4 |
| 45° | 4209.1 | 3948.6 | 3571.2 | 3112.7 | 2547.4 | 2200.3 | 2174.1 | 2045.6 | 2327.8 | 2503.1 | 2805.4 |
| 47.5° | 4527.5 | 4286.2 | 3955.7 | 3471.5 | 2869.4 | 2725.3 | 2675.4 | 2455.7 | 2711.7 | 2939.4 | 3409.5 |
| 50° | 4828.8 | 4580.4 | 4233.3 | 3864.0 | 3452.3 | 3286.6 | 3180.3 | 2814.5 | 3189.8 | 3560.7 | 4183.9 |
| 52.5° | 5260.1 | 5037.9 | 4555.7 | 4259.5 | 4078.6 | 3671.0 | 3591.9 | 3390.9 | 3749.1 | 4249.4 | 5030.4 |
| 55° | 5721.1 | 5418.3 | 4981.5 | 4817.2 | 4744.2 | 4222.2 | 4157.7 | 4029.7 | 4493.8 | 4954.3 | 5853.1 |
| 57.5° | 5924.7 | 5608.8 | 5367.9 | 5269.7 | 5263.6 | 5023.3 | 4949.2 | 4860.1 | 5255.1 | 5558.9 | 6627.5 |
| 60° | 6086.4 | 5747.3 | 5651.1 | 5706.0 | 5905.5 | 5747.3 | 5651.1 | 5572.5 | 5874.8 | 6156.5 | 7259.4 |
| 62.5° | 6056.7 | 5716.6 | 5766.0 | 5933.2 | 6442.6 | 6489.0 | 6414.9 | 6224.5 | 6489.0 | 6646.2 | 7621.6 |
| 65° | 5577.0 | 5262.6 | 5550.3 | 5947.4 | 6941.9 | 7312.3 | 7308.2 | 6809.9 | 6901.6 | 6901.6 | 7583.3 |
| 67.5° | 4736.6 | 4411.1 | 4882.2 | 5822.9 | 7287.1 | 7964.7 | 7965.7 | 7430.7 | 6939.4 | 6875.9 | 6990.8 |
| 70° | 3537.0 | 3242.2 | 3771.8 | 5071.2 | 6930.9 | 8280.6 | 8234.8 | 7931.5 | 6835.6 | 6280.9 | 5839.5 |
| 72.5° | 2112.6 | 1922.2 | 2409.4 | 3691.7 | 5912.1 | 7699.7 | 7821.6 | 7354.6 | 6257.7 | 5223.3 | 4174.3 |
| 75° | 959.3 | 876.7 | 1132.1 | 2120.7 | 4220.7 | 6422.5 | 6555.0 | 6206.8 | 4970.4 | 3756.6 | 2412.4 |
| 77.5° | 410.6 | 388.5 | 494.3 | 940.7 | 2327.2 | 4392.0 | 4663.6 | 4435.8 | 3367.7 | 2183.1 | 1067.1 |
| 80° | 264.0 | 249.9 | 303.8 | 452.5 | 1080.7 | 2373.1 | 2606.9 | 2521.7 | 1715.6 | 849.0 | 375.9 |
| 82.5° | 157.7 | 153.2 | 203.0 | 284.2 | 589.5 | 1044.5 | 1177.0 | 1208.2 | 712.4 | 380.9 | 215.1 |
| 85° | 86.2 | 87.2 | 111.3 | 172.3 | 353.7 | 406.6 | 435.3 | 473.6 | 335.6 | 220.7 | 104.3 |
| 87.5° | 28.7 | 33.3 | 44.8 | 70.0 | 126.0 | 114.9 | 115.4 | 134.0 | 141.6 | 91.7 | 33.3 |
| 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° | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 | 417.7 |
| 2.5° | 503.8 | 494.8 | 471.6 | 473.1 | 481.7 | 483.7 | 486.2 | 471.6 | 468.6 | 496.3 | 498.8 |
| 5° | 643.9 | 614.2 | 600.6 | 596.0 | 582.9 | 578.4 | 602.6 | 613.7 | 624.8 | 646.4 | 657.0 |
| 7.5° | 756.3 | 723.0 | 698.3 | 675.7 | 656.5 | 645.4 | 686.2 | 717.5 | 736.6 | 781.0 | 801.1 |
| 10° | 807.7 | 778.9 | 769.9 | 751.7 | 766.3 | 799.6 | 807.2 | 808.2 | 850.5 | 849.5 | 858.0 |
| 12.5° | 909.9 | 891.3 | 861.6 | 868.1 | 906.4 | 940.7 | 931.1 | 945.7 | 960.8 | 997.1 | 980.5 |
| 15° | 1003.2 | 998.1 | 970.4 | 974.9 | 982.5 | 1025.3 | 1030.9 | 1045.5 | 1068.6 | 1097.4 | 1077.7 |
| 17.5° | 1118.0 | 1116.0 | 1048.5 | 1042.4 | 1060.1 | 1101.9 | 1088.8 | 1063.1 | 1139.7 | 1170.4 | 1162.4 |
| 20° | 1196.1 | 1181.0 | 1094.3 | 1068.6 | 1113.5 | 1119.0 | 1103.9 | 1063.1 | 1129.6 | 1196.6 | 1214.8 |
| 22.5° | 1261.1 | 1243.5 | 1154.3 | 1103.9 | 1094.8 | 1097.4 | 1097.4 | 1089.8 | 1122.6 | 1177.5 | 1177.0 |
| 25° | 1313.5 | 1330.1 | 1216.8 | 1168.4 | 1120.0 | 1059.6 | 1052.0 | 1058.6 | 1077.2 | 1183.0 | 1179.5 |
| 27.5° | 1445.0 | 1399.2 | 1237.9 | 1201.7 | 1102.4 | 1007.2 | 1027.8 | 1037.9 | 1044.0 | 1159.8 | 1179.0 |
| 30° | 1530.7 | 1544.8 | 1313.5 | 1221.3 | 1076.7 | 948.7 | 955.8 | 985.0 | 1020.3 | 1157.3 | 1162.9 |
| 32.5° | 1646.1 | 1615.8 | 1431.4 | 1188.6 | 1008.2 | 913.5 | 900.4 | 939.7 | 992.1 | 1116.5 | 1131.6 |
| 35° | 1753.4 | 1789.1 | 1481.3 | 1182.5 | 960.3 | 860.6 | 874.7 | 888.3 | 942.7 | 1071.2 | 1088.8 |
| 37.5° | 2005.3 | 1923.7 | 1621.4 | 1153.3 | 920.5 | 833.9 | 818.7 | 839.4 | 885.8 | 985.0 | 1025.8 |
| 40° | 2196.8 | 2201.8 | 1651.6 | 1116.5 | 844.4 | 795.6 | 763.3 | 784.0 | 803.6 | 882.7 | 900.4 |
| 42.5° | 2556.0 | 2446.2 | 1725.7 | 1035.9 | 796.6 | 738.1 | 720.0 | 729.1 | 732.1 | 765.3 | 794.6 |
| 45° | 3013.0 | 2755.5 | 1754.9 | 927.6 | 733.6 | 714.4 | 677.7 | 673.1 | 656.5 | 661.0 | 686.7 |
| 47.5° | 3645.3 | 3238.2 | 1733.7 | 812.2 | 677.7 | 683.7 | 630.8 | 610.2 | 587.0 | 592.5 | 616.7 |
| 50° | 4463.0 | 3854.9 | 1732.2 | 714.4 | 639.4 | 643.4 | 600.1 | 562.8 | 539.6 | 551.2 | 572.4 |
| 52.5° | 5380.5 | 4473.6 | 1739.3 | 647.4 | 597.6 | 595.5 | 579.9 | 534.6 | 515.9 | 528.0 | 552.2 |
| 55° | 6258.2 | 5005.7 | 1791.7 | 605.1 | 554.2 | 557.8 | 563.8 | 525.5 | 504.9 | 515.9 | 541.1 |
| 57.5° | 7022.1 | 5425.9 | 1772.0 | 560.3 | 513.9 | 530.0 | 546.2 | 512.9 | 497.3 | 513.4 | 538.6 |
| 60° | 7556.1 | 5620.9 | 1616.8 | 517.4 | 484.2 | 506.4 | 537.6 | 511.4 | 509.4 | 544.1 | 574.4 |
| 62.5° | 7751.1 | 5548.8 | 1314.5 | 483.7 | 466.6 | 503.3 | 557.2 | 544.7 | 546.7 | 589.5 | 631.3 |
| 65° | 7466.4 | 5169.9 | 980.5 | 462.0 | 453.0 | 517.9 | 602.6 | 564.3 | 536.6 | 571.9 | 610.2 |
| 67.5° | 6656.8 | 4496.3 | 716.5 | 443.4 | 437.3 | 541.1 | 644.4 | 562.3 | 510.9 | 546.7 | 577.9 |
| 70° | 5385.6 | 3549.1 | 554.7 | 419.7 | 416.7 | 525.5 | 648.4 | 547.2 | 483.2 | 506.4 | 524.0 |
| 72.5° | 3690.1 | 2430.0 | 459.5 | 397.0 | 380.9 | 465.6 | 615.7 | 513.4 | 449.9 | 463.5 | 478.1 |
| 75° | 2062.2 | 1363.9 | 386.4 | 368.8 | 333.5 | 414.7 | 577.4 | 493.3 | 425.2 | 429.3 | 449.4 |
| 77.5° | 925.6 | 590.0 | 328.0 | 331.5 | 290.7 | 366.8 | 527.5 | 461.0 | 387.5 | 378.4 | 398.5 |
| 80° | 350.2 | 287.7 | 266.0 | 280.1 | 244.4 | 317.9 | 475.6 | 431.8 | 347.7 | 336.1 | 347.7 |
| 82.5° | 203.0 | 174.3 | 197.5 | 215.6 | 194.0 | 292.2 | 454.0 | 405.1 | 306.3 | 277.1 | 287.2 |
| 85° | 94.2 | 90.2 | 118.4 | 140.1 | 135.5 | 227.7 | 388.5 | 304.8 | 218.2 | 184.4 | 204.1 |
| 87.5° | 24.7 | 27.7 | 41.8 | 49.4 | 50.4 | 78.1 | 149.6 | 113.4 | 85.1 | 64.5 | 62.0 |
| 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)