

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: P367498

Luminaire Tested: **PMM-SA2C-760-U-T4FT**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-12)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2C-760-U-T4FT
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) 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: 12365 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

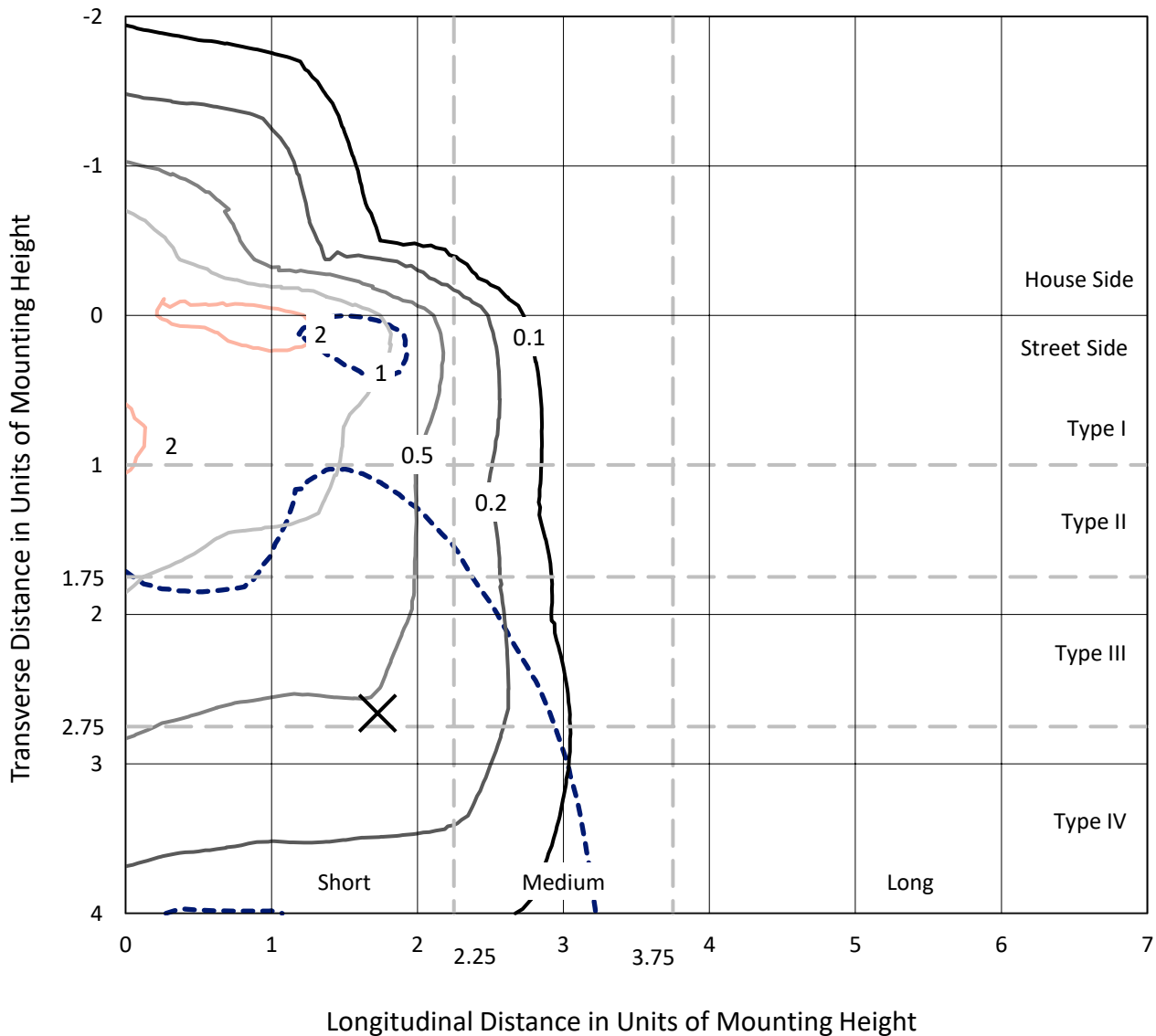
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

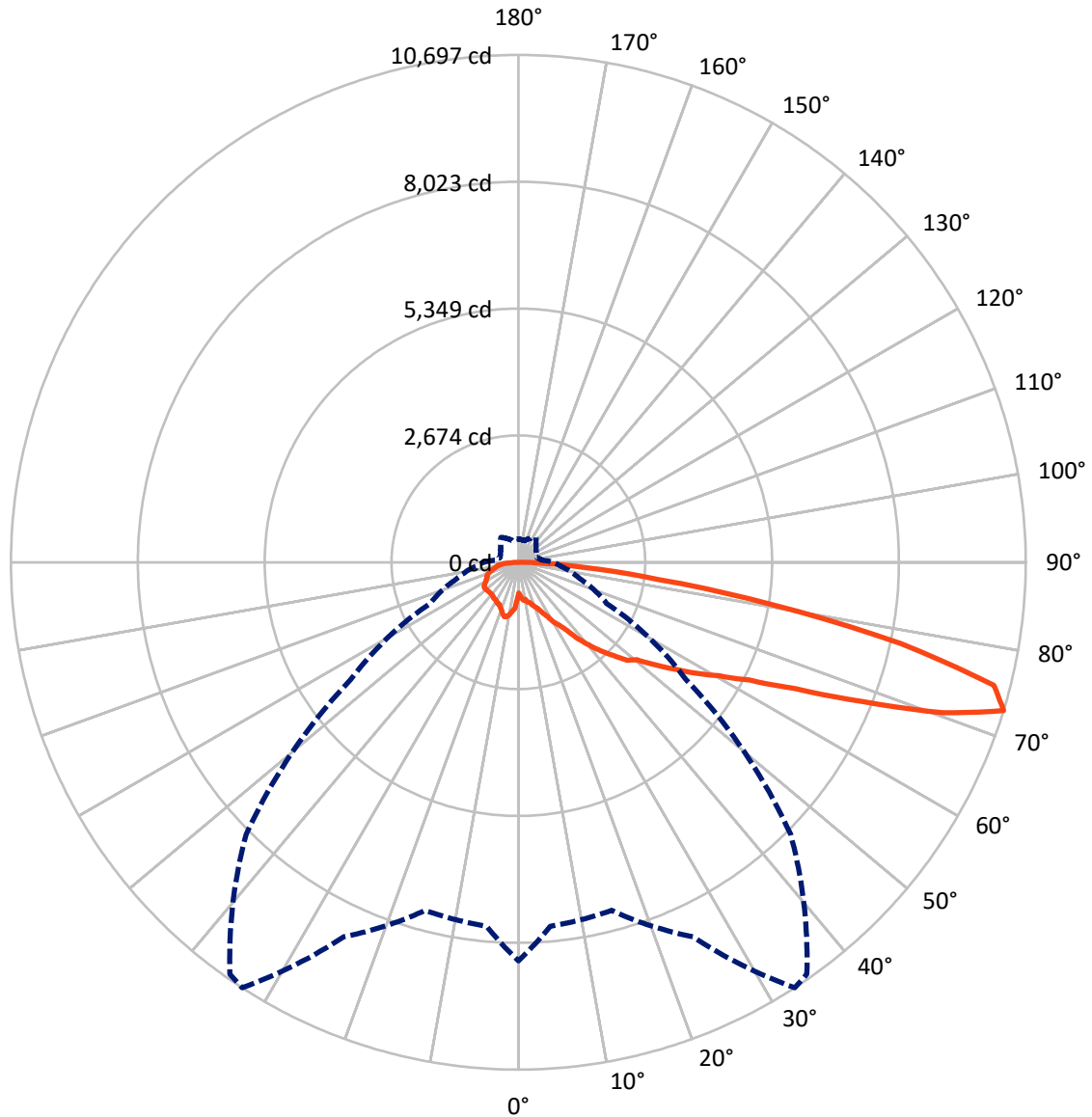
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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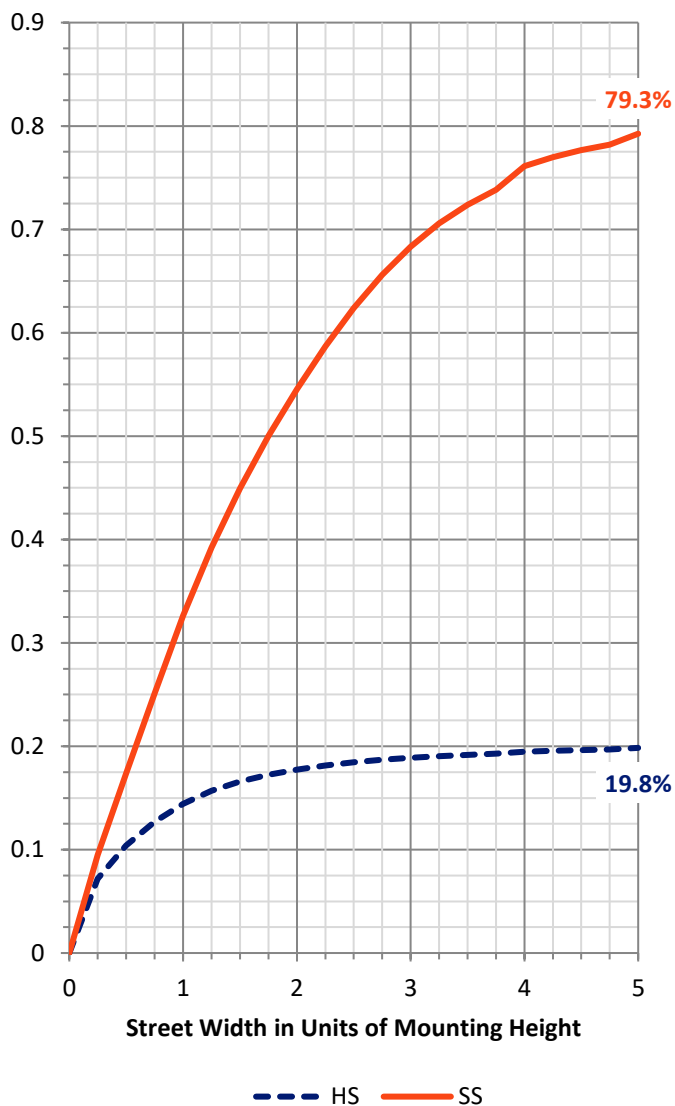
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2501.4 | 0.0 | 2501.4 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 9863.6 | 0.0 | 9863.6 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 12365.0 | 0.0 | 12365.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 89.2 | 0.7 |
| 10°-20° | 329.5 | 2.7 |
| 20°-30° | 600.8 | 4.9 |
| 30°-40° | 1016.3 | 8.2 |
| 40°-50° | 1690.8 | 13.7 |
| 50°-60° | 2481.4 | 20.1 |
| 60°-70° | 3174.3 | 25.7 |
| 70°-80° | 2582.6 | 20.9 |
| 80°-90° | 400.0 | 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° | 12365.0 | 100.0 |
| 0°-180° | 12365.0 | 100.0 |

Coefficient of Utilization



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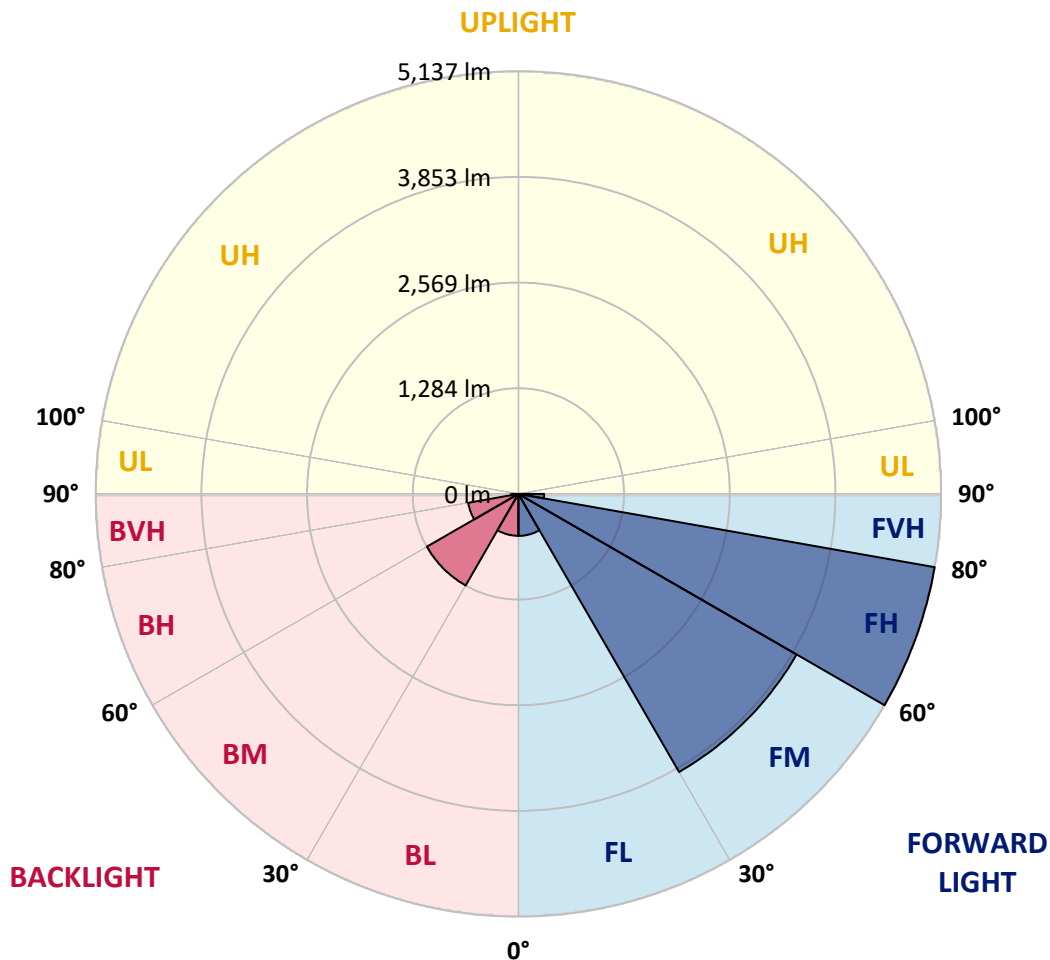
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 510.3 | 4.1 | | | |
| FM (30°-60°) | 3903.9 | 31.6 | | | |
| FH (60°-80°) | 5137.2 | 41.5 | | | G3/7500 |
| FVH (80°-90°) | 312.2 | 2.5 | | | G3/500 |
| BL (0°-30°) | 509.1 | 4.1 | B2/1000 | | |
| BM (30°-60°) | 1284.7 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 619.8 | 5.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 87.8 | 0.7 | | | 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° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 |
| 2.5° | 735.1 | 712.0 | 674.0 | 673.0 | 694.0 | 698.6 | 712.5 | 713.5 | 718.6 | 710.4 | 768.9 |
| 5° | 811.0 | 786.4 | 771.5 | 776.6 | 766.9 | 778.7 | 778.7 | 812.5 | 857.7 | 910.0 | 984.4 |
| 7.5° | 828.9 | 811.0 | 794.1 | 806.9 | 808.9 | 797.6 | 808.4 | 887.9 | 969.5 | 1021.8 | 1140.8 |
| 10° | 793.0 | 775.1 | 787.9 | 792.0 | 791.5 | 817.1 | 873.0 | 936.7 | 1027.4 | 1123.9 | 1188.0 |
| 12.5° | 786.4 | 799.2 | 805.3 | 812.5 | 861.2 | 868.9 | 953.6 | 1019.2 | 1110.5 | 1195.2 | 1361.9 |
| 15° | 885.4 | 902.3 | 864.3 | 861.8 | 877.7 | 884.8 | 972.6 | 1038.7 | 1172.1 | 1314.2 | 1464.0 |
| 17.5° | 1026.4 | 1032.6 | 964.4 | 929.5 | 941.3 | 946.9 | 985.4 | 1068.5 | 1150.6 | 1413.2 | 1599.9 |
| 20° | 1162.9 | 1167.0 | 1038.7 | 960.8 | 1002.3 | 1008.5 | 1044.4 | 1092.1 | 1156.7 | 1468.6 | 1691.7 |
| 22.5° | 1306.0 | 1279.8 | 1139.3 | 1040.8 | 1064.9 | 1066.4 | 1087.5 | 1113.6 | 1205.4 | 1459.9 | 1803.5 |
| 25° | 1462.4 | 1446.0 | 1269.0 | 1174.7 | 1173.6 | 1152.6 | 1153.6 | 1191.1 | 1257.2 | 1553.2 | 1876.9 |
| 27.5° | 1670.2 | 1672.2 | 1415.2 | 1364.5 | 1284.9 | 1271.1 | 1201.8 | 1271.6 | 1347.0 | 1554.2 | 2035.4 |
| 30° | 1939.5 | 1889.7 | 1618.9 | 1536.8 | 1458.3 | 1429.1 | 1335.2 | 1394.7 | 1427.5 | 1643.0 | 2207.7 |
| 32.5° | 2158.5 | 2144.1 | 1831.2 | 1707.1 | 1578.9 | 1612.7 | 1509.1 | 1456.8 | 1515.8 | 1795.8 | 2468.8 |
| 35° | 2368.3 | 2321.1 | 2055.9 | 1894.3 | 1759.4 | 1738.9 | 1671.7 | 1680.4 | 1716.3 | 1989.2 | 2810.0 |
| 37.5° | 2681.2 | 2655.6 | 2373.9 | 2115.4 | 2052.3 | 1968.7 | 1926.1 | 1953.3 | 1925.1 | 2237.0 | 3321.4 |
| 40° | 3031.0 | 2882.3 | 2639.7 | 2409.3 | 2291.4 | 2232.4 | 2247.2 | 2221.6 | 2200.1 | 2515.0 | 3779.9 |
| 42.5° | 3366.0 | 3230.6 | 2816.1 | 2712.5 | 2558.6 | 2583.2 | 2501.7 | 2519.6 | 2580.7 | 2909.5 | 4204.2 |
| 45° | 3730.7 | 3437.8 | 3003.3 | 2912.0 | 2801.7 | 2833.0 | 2898.2 | 2878.7 | 2978.7 | 3374.7 | 4603.8 |
| 47.5° | 3912.8 | 3634.3 | 3233.1 | 3084.4 | 3082.8 | 3017.7 | 3414.2 | 3457.3 | 3300.9 | 3719.4 | 5009.5 |
| 50° | 4088.2 | 3814.3 | 3404.0 | 3303.4 | 3230.6 | 3370.1 | 3909.2 | 3810.2 | 3592.2 | 4114.9 | 5455.8 |
| 52.5° | 4332.4 | 4020.0 | 3599.9 | 3492.7 | 3583.0 | 3712.2 | 4304.2 | 4284.7 | 3877.9 | 4521.7 | 5843.6 |
| 55° | 4518.6 | 4203.1 | 3894.9 | 3795.3 | 3967.7 | 4094.4 | 4706.3 | 4588.9 | 4122.6 | 4820.2 | 6089.3 |
| 57.5° | 4844.8 | 4521.2 | 4330.3 | 4109.3 | 4419.1 | 4417.0 | 5094.1 | 5003.3 | 4384.2 | 5065.4 | 6188.3 |
| 60° | 5363.4 | 4983.3 | 4783.8 | 4528.9 | 4860.7 | 4979.2 | 5537.3 | 5275.7 | 4569.4 | 5220.3 | 6009.8 |
| 62.5° | 6091.3 | 5639.9 | 5316.2 | 5063.9 | 5468.6 | 5683.0 | 6084.6 | 5474.2 | 4581.2 | 5176.2 | 5540.4 |
| 65° | 6991.5 | 6442.7 | 6018.5 | 5751.7 | 6419.6 | 6725.8 | 6746.4 | 5596.8 | 4472.4 | 4720.2 | 4553.5 |
| 67.5° | 7869.7 | 7252.6 | 6810.0 | 6860.7 | 7835.9 | 7981.0 | 7463.5 | 5699.4 | 3888.2 | 3790.2 | 3161.8 |
| 70° | 8447.8 | 7778.9 | 7484.0 | 8022.6 | 9504.0 | 9355.2 | 8044.6 | 5429.1 | 3061.8 | 2457.0 | 1780.5 |
| 72.5° | 8404.2 | 7704.0 | 7597.9 | 8713.0 | 10697.1 | 10604.3 | 8115.4 | 4317.5 | 2050.8 | 1343.4 | 887.9 |
| 75° | 6846.9 | 6302.7 | 6543.7 | 8248.3 | 10353.4 | 10348.8 | 7045.9 | 2672.5 | 1052.1 | 689.9 | 561.2 |
| 77.5° | 3785.6 | 3574.3 | 4282.6 | 6245.2 | 8243.7 | 8285.7 | 4760.7 | 1212.1 | 567.3 | 488.8 | 422.7 |
| 80° | 1326.0 | 1306.5 | 1855.9 | 3370.1 | 5422.9 | 5433.2 | 2213.9 | 554.5 | 412.4 | 369.8 | 310.3 |
| 82.5° | 484.7 | 480.6 | 769.4 | 1565.5 | 2985.9 | 2979.2 | 839.7 | 345.2 | 305.7 | 261.6 | 204.7 |
| 85° | 193.4 | 189.3 | 351.9 | 695.1 | 1371.6 | 1349.6 | 326.2 | 195.9 | 200.1 | 155.9 | 100.5 |
| 87.5° | 53.3 | 55.4 | 119.5 | 217.5 | 420.1 | 389.3 | 82.1 | 66.2 | 81.0 | 63.6 | 31.8 |
| 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° | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 | 648.4 |
| 2.5° | 779.2 | 784.3 | 733.5 | 751.5 | 774.6 | 786.9 | 793.0 | 766.9 | 775.6 | 812.5 | 811.0 |
| 5° | 999.7 | 979.2 | 959.7 | 979.7 | 966.4 | 947.4 | 978.2 | 976.7 | 996.7 | 1016.7 | 1021.3 |
| 7.5° | 1164.4 | 1137.7 | 1128.5 | 1083.4 | 1038.2 | 992.6 | 1032.1 | 1056.7 | 1061.8 | 1111.6 | 1132.6 |
| 10° | 1223.9 | 1213.6 | 1217.2 | 1157.7 | 1152.1 | 1156.7 | 1120.3 | 1080.8 | 1104.9 | 1084.4 | 1099.8 |
| 12.5° | 1361.4 | 1387.0 | 1323.4 | 1282.9 | 1279.3 | 1251.1 | 1178.3 | 1152.6 | 1125.4 | 1153.6 | 1139.3 |
| 15° | 1471.7 | 1519.4 | 1451.1 | 1379.8 | 1299.3 | 1255.7 | 1193.6 | 1154.7 | 1136.7 | 1142.9 | 1125.4 |
| 17.5° | 1633.2 | 1677.9 | 1504.5 | 1395.2 | 1312.1 | 1248.0 | 1153.1 | 1070.0 | 1114.1 | 1117.7 | 1097.7 |
| 20° | 1740.4 | 1743.5 | 1522.4 | 1357.3 | 1282.4 | 1171.1 | 1078.7 | 1005.9 | 1056.7 | 1108.5 | 1131.1 |
| 22.5° | 1845.1 | 1822.0 | 1544.5 | 1327.0 | 1174.1 | 1066.4 | 1021.3 | 1016.7 | 1054.6 | 1098.2 | 1103.4 |
| 25° | 1923.6 | 1927.2 | 1557.3 | 1315.7 | 1110.5 | 963.8 | 963.8 | 997.2 | 1030.5 | 1134.1 | 1129.0 |
| 27.5° | 2113.9 | 1973.8 | 1507.6 | 1263.9 | 1022.3 | 903.8 | 964.4 | 1009.0 | 1024.9 | 1137.2 | 1148.5 |
| 30° | 2252.4 | 2161.1 | 1517.8 | 1175.2 | 933.1 | 875.6 | 925.4 | 981.3 | 1025.4 | 1155.2 | 1151.1 |
| 32.5° | 2484.7 | 2239.0 | 1541.9 | 1050.5 | 866.4 | 864.8 | 909.0 | 967.9 | 1020.8 | 1135.7 | 1141.8 |
| 35° | 2741.7 | 2468.8 | 1474.7 | 955.6 | 850.5 | 858.7 | 915.6 | 939.2 | 1001.3 | 1128.0 | 1133.6 |
| 37.5° | 3217.2 | 2588.9 | 1432.2 | 882.3 | 840.2 | 863.8 | 885.4 | 921.8 | 984.4 | 1089.5 | 1126.4 |
| 40° | 3496.3 | 2836.1 | 1274.2 | 839.7 | 818.7 | 859.7 | 870.5 | 901.3 | 935.1 | 1043.3 | 1066.9 |
| 42.5° | 3863.6 | 2914.1 | 1139.3 | 792.5 | 807.9 | 842.8 | 875.1 | 882.8 | 905.4 | 970.5 | 1013.6 |
| 45° | 4169.8 | 2972.6 | 996.2 | 754.6 | 771.5 | 880.2 | 882.3 | 878.7 | 874.6 | 898.7 | 934.1 |
| 47.5° | 4486.8 | 3129.5 | 864.3 | 712.5 | 757.6 | 911.0 | 885.9 | 853.0 | 836.1 | 839.2 | 872.0 |
| 50° | 4836.6 | 3243.4 | 771.0 | 678.1 | 760.7 | 911.0 | 903.3 | 826.9 | 793.0 | 784.3 | 818.7 |
| 52.5° | 5144.4 | 3256.7 | 700.2 | 650.4 | 747.9 | 879.7 | 915.1 | 810.5 | 753.5 | 732.5 | 764.8 |
| 55° | 5312.1 | 3088.0 | 648.9 | 625.3 | 715.1 | 851.5 | 909.0 | 801.2 | 705.8 | 689.9 | 718.6 |
| 57.5° | 5308.5 | 2807.9 | 605.3 | 590.4 | 677.6 | 812.0 | 874.6 | 751.0 | 676.6 | 667.4 | 695.6 |
| 60° | 5117.2 | 2479.6 | 571.9 | 561.7 | 639.1 | 754.6 | 813.0 | 718.1 | 648.4 | 643.8 | 674.5 |
| 62.5° | 4683.3 | 2140.6 | 539.6 | 531.4 | 603.2 | 714.0 | 783.8 | 681.7 | 619.1 | 618.6 | 647.9 |
| 65° | 3835.3 | 1718.4 | 509.4 | 507.3 | 569.9 | 674.0 | 756.1 | 650.9 | 588.9 | 599.1 | 628.9 |
| 67.5° | 2642.7 | 1207.5 | 477.0 | 483.2 | 539.1 | 635.5 | 735.1 | 630.4 | 557.1 | 578.1 | 604.8 |
| 70° | 1450.1 | 746.9 | 441.1 | 453.5 | 500.1 | 590.9 | 702.2 | 597.1 | 515.5 | 547.8 | 566.3 |
| 72.5° | 737.6 | 498.1 | 396.5 | 416.0 | 452.4 | 525.3 | 640.7 | 548.9 | 470.9 | 483.2 | 492.9 |
| 75° | 495.5 | 375.0 | 346.8 | 368.3 | 394.5 | 462.7 | 568.4 | 503.7 | 428.3 | 426.8 | 437.5 |
| 77.5° | 374.5 | 292.9 | 294.4 | 319.1 | 336.0 | 406.8 | 510.9 | 465.8 | 392.4 | 388.8 | 404.7 |
| 80° | 273.9 | 222.1 | 237.0 | 262.6 | 278.0 | 365.2 | 473.5 | 423.7 | 343.7 | 329.3 | 342.7 |
| 82.5° | 181.6 | 157.5 | 175.4 | 201.1 | 213.4 | 305.2 | 429.9 | 359.6 | 280.1 | 243.7 | 245.7 |
| 85° | 85.7 | 82.6 | 104.6 | 117.0 | 132.9 | 189.3 | 321.6 | 248.8 | 178.5 | 147.7 | 154.4 |
| 87.5° | 19.5 | 26.2 | 34.4 | 33.9 | 39.5 | 50.8 | 100.0 | 69.8 | 51.8 | 35.4 | 23.6 |
| 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)