

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: P368331

Luminaire Tested: **PMM-SA4B-727-U-T3-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-11)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4B-727-U-T3-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11999 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

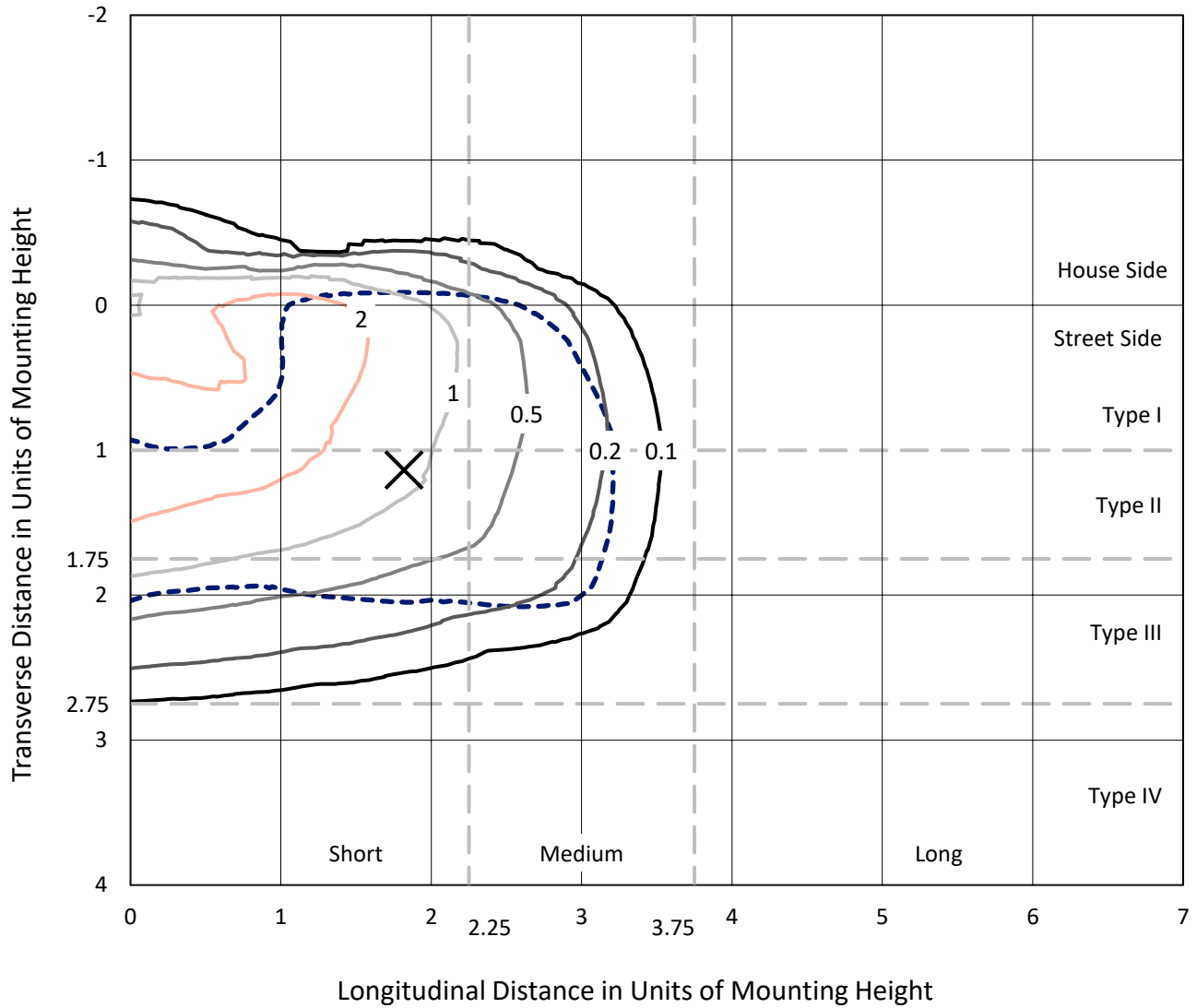
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

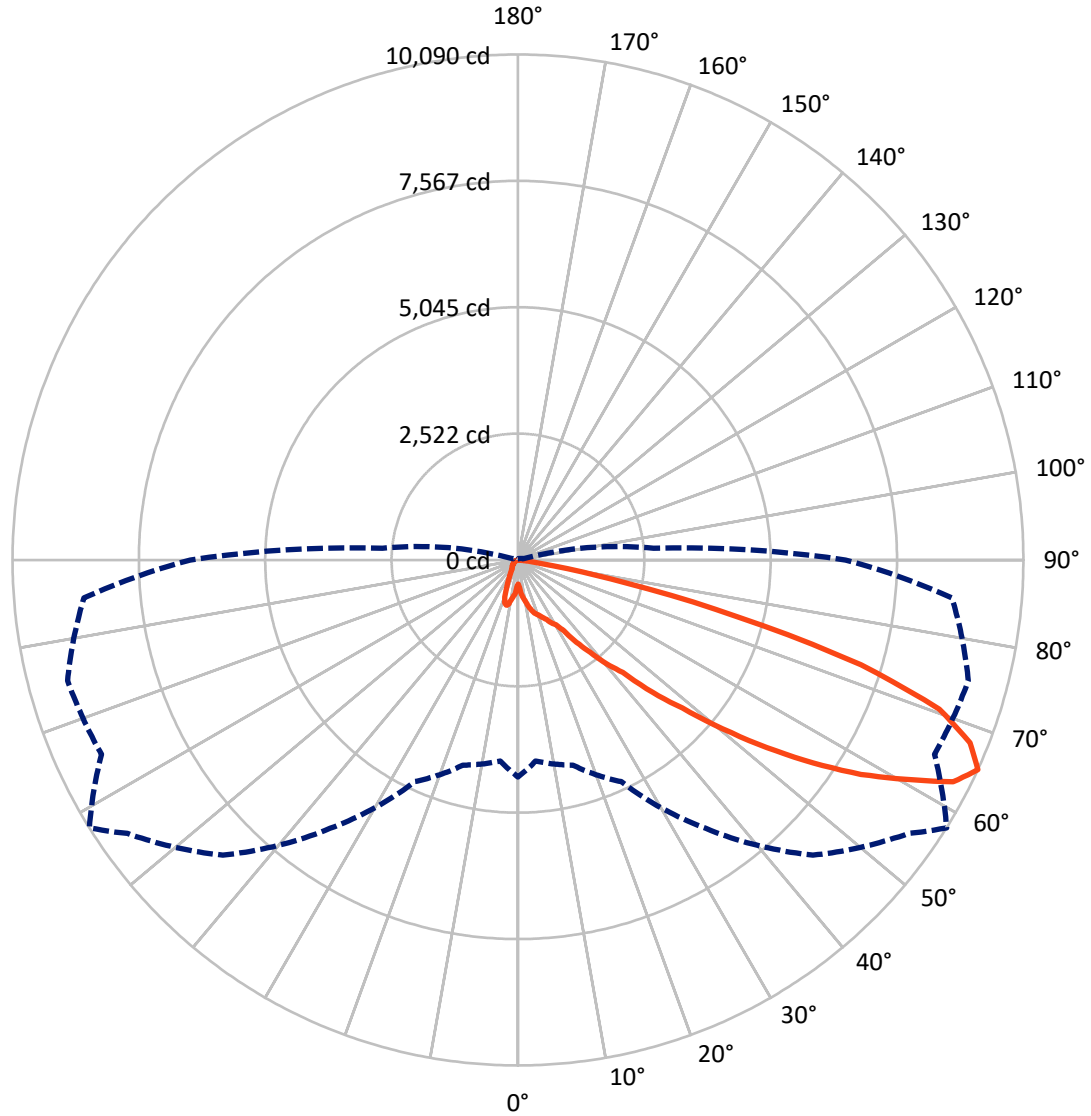
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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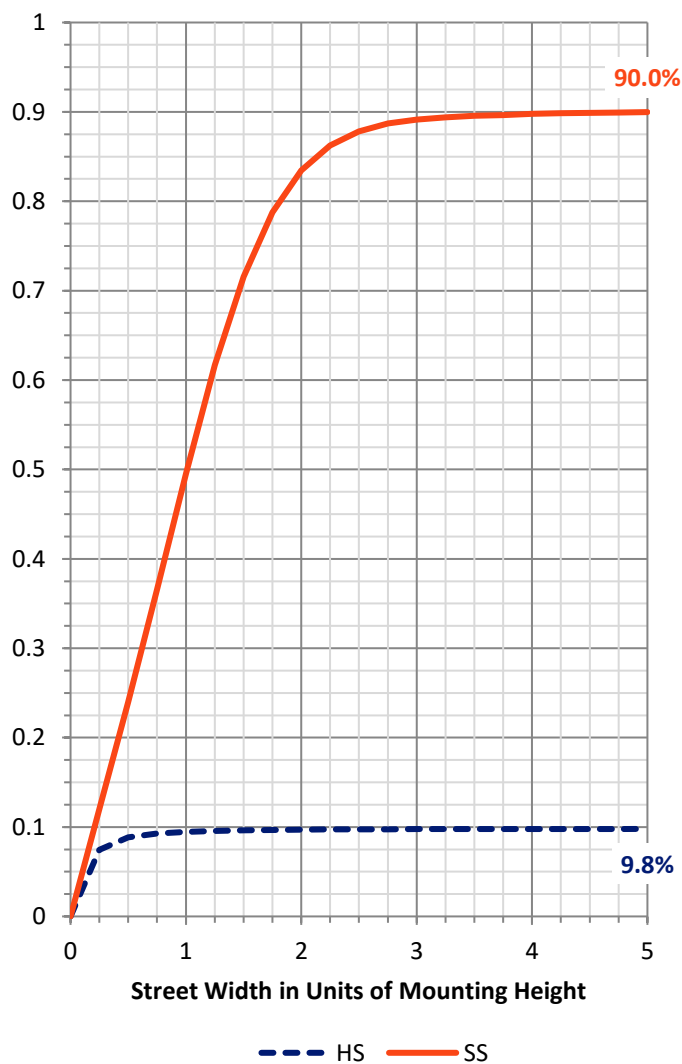
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1184.0 | 0.0 | 1184.0 |
| | % Fixture | 9.9 | 0.0 | 9.9 |
| Street Side | Lumens | 10815.0 | 0.0 | 10815.0 |
| | % Fixture | 90.1 | 0.0 | 90.1 |
| Total | Lumens | 11999.0 | 0.0 | 11999.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 67.5 | 0.6 |
| 10°-20° | 246.3 | 2.1 |
| 20°-30° | 476.8 | 4.0 |
| 30°-40° | 951.2 | 7.9 |
| 40°-50° | 1944.6 | 16.2 |
| 50°-60° | 3449.2 | 28.7 |
| 60°-70° | 3636.3 | 30.3 |
| 70°-80° | 1178.9 | 9.8 |
| 80°-90° | 48.2 | 0.4 |
| 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° | 11999.0 | 100.0 |
| 0°-180° | 11999.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P368331

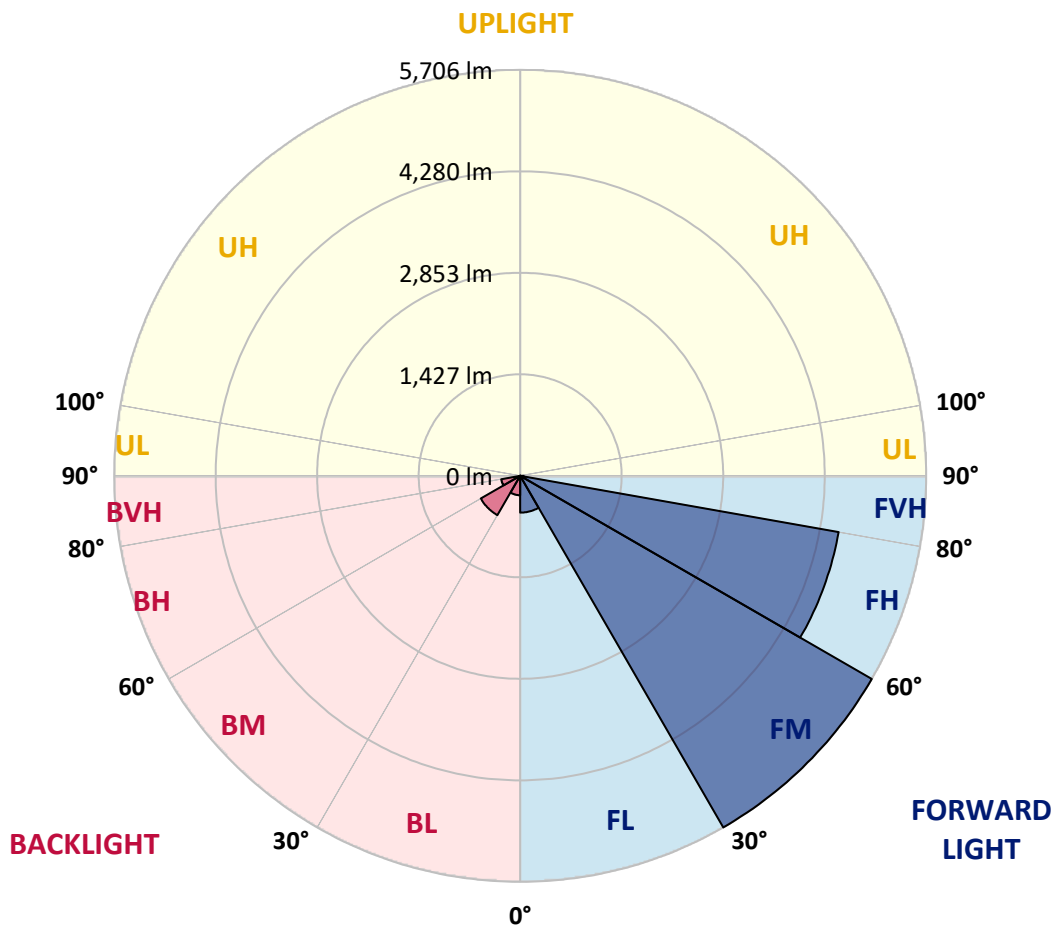
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 517.7 | 4.3 | | | |
| FM (30°-60°) | 5706.1 | 47.6 | | | |
| FH (60°-80°) | 4545.0 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 46.2 | 0.4 | | | G1/100 |
| BL (0°-30°) | 272.9 | 2.3 | B1/500 | | |
| BM (30°-60°) | 638.8 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 270.2 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| 0° | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 |
| 2.5° | 586.4 | 568.8 | 541.1 | 545.9 | 551.3 | 562.1 | 553.3 | 545.2 | 536.4 | 524.9 | 568.8 |
| 5° | 708.0 | 679.0 | 676.3 | 670.2 | 665.4 | 664.8 | 675.6 | 672.2 | 676.9 | 698.6 | 720.8 |
| 7.5° | 752.6 | 740.4 | 717.5 | 726.9 | 712.1 | 700.6 | 748.5 | 764.1 | 793.8 | 803.9 | 862.0 |
| 10° | 747.9 | 730.3 | 739.8 | 744.5 | 754.6 | 796.5 | 826.9 | 843.8 | 869.5 | 924.9 | 913.4 |
| 12.5° | 769.5 | 785.0 | 795.2 | 795.8 | 847.9 | 924.9 | 946.5 | 960.7 | 1006.6 | 1028.2 | 1085.0 |
| 15° | 841.8 | 867.4 | 851.2 | 858.0 | 874.9 | 968.8 | 1019.5 | 1050.5 | 1115.4 | 1185.6 | 1199.8 |
| 17.5° | 945.1 | 961.4 | 927.6 | 903.3 | 949.9 | 1001.2 | 1093.1 | 1125.5 | 1166.7 | 1330.9 | 1361.3 |
| 20° | 1075.5 | 1103.2 | 1030.3 | 933.7 | 995.1 | 1055.9 | 1155.9 | 1171.5 | 1215.4 | 1429.5 | 1477.5 |
| 22.5° | 1380.2 | 1339.0 | 1227.5 | 1076.9 | 1058.6 | 1085.7 | 1180.9 | 1241.7 | 1316.0 | 1484.9 | 1596.4 |
| 25° | 1680.8 | 1666.7 | 1502.5 | 1334.3 | 1212.7 | 1151.9 | 1278.2 | 1312.0 | 1433.6 | 1616.7 | 1678.1 |
| 27.5° | 2015.3 | 2043.6 | 1769.3 | 1667.3 | 1428.9 | 1230.2 | 1339.0 | 1423.5 | 1567.3 | 1664.6 | 1812.6 |
| 30° | 2456.4 | 2411.2 | 2089.6 | 1987.6 | 1715.3 | 1445.7 | 1496.4 | 1501.8 | 1713.3 | 1822.7 | 1963.2 |
| 32.5° | 2802.3 | 2831.4 | 2427.4 | 2270.6 | 2053.1 | 1777.5 | 1614.6 | 1684.9 | 1836.2 | 2080.1 | 2213.2 |
| 35° | 3176.6 | 3173.9 | 2780.0 | 2569.2 | 2284.8 | 2048.4 | 1965.3 | 2016.6 | 2206.4 | 2482.8 | 2517.9 |
| 37.5° | 3736.0 | 3688.0 | 3223.2 | 2914.5 | 2672.6 | 2470.6 | 2407.1 | 2338.9 | 2534.8 | 2798.3 | 2930.0 |
| 40° | 4263.6 | 4098.1 | 3668.4 | 3302.2 | 2992.8 | 2910.4 | 2680.7 | 2722.6 | 2780.7 | 3128.6 | 3492.8 |
| 42.5° | 4796.6 | 4693.9 | 4119.7 | 3813.0 | 3432.6 | 3236.7 | 3086.7 | 3067.1 | 3343.5 | 3755.6 | 4131.9 |
| 45° | 5499.9 | 5185.8 | 4726.4 | 4456.8 | 4016.3 | 3819.7 | 3698.8 | 3771.1 | 4019.7 | 4621.7 | 4872.3 |
| 47.5° | 6090.4 | 5801.2 | 5406.7 | 4997.3 | 4535.2 | 4756.1 | 4529.1 | 4414.9 | 4756.1 | 5378.3 | 5711.4 |
| 50° | 6597.7 | 6275.5 | 5876.2 | 5572.9 | 5497.9 | 5710.0 | 5250.6 | 5292.5 | 5514.1 | 6245.1 | 6432.9 |
| 52.5° | 6966.6 | 6627.5 | 6278.9 | 6132.3 | 6439.6 | 6546.4 | 6316.0 | 6223.5 | 6424.8 | 6984.2 | 7075.4 |
| 55° | 7244.3 | 6897.0 | 6624.8 | 6826.8 | 7421.3 | 7386.1 | 7467.2 | 7151.0 | 7343.6 | 7755.0 | 7711.8 |
| 57.5° | 7261.2 | 6849.7 | 6690.3 | 7015.2 | 7831.3 | 8375.2 | 8612.3 | 8074.6 | 8184.0 | 8357.6 | 8260.3 |
| 60° | 6730.1 | 6320.7 | 6307.9 | 6769.3 | 7950.2 | 8631.2 | 9150.1 | 8888.0 | 8741.4 | 8870.4 | 8686.0 |
| 62.5° | 5672.2 | 5385.7 | 5519.5 | 6029.6 | 7507.7 | 8490.0 | 9436.5 | 9752.0 | 9181.2 | 9210.2 | 8948.1 |
| 65° | 4331.2 | 4030.5 | 4240.0 | 4882.4 | 6540.3 | 8331.9 | 9517.6 | 10089.8 | 9173.0 | 9306.8 | 8696.8 |
| 67.5° | 2868.5 | 2694.2 | 2931.3 | 3639.4 | 5200.0 | 7355.1 | 9475.7 | 9735.1 | 8881.9 | 8929.2 | 7763.8 |
| 70° | 1480.9 | 1438.3 | 1630.2 | 2188.9 | 3496.1 | 5650.6 | 9064.3 | 8922.4 | 8290.7 | 7692.2 | 5988.4 |
| 72.5° | 474.3 | 476.3 | 660.7 | 999.9 | 1884.9 | 3440.1 | 6967.3 | 7161.8 | 6634.2 | 5626.9 | 3656.2 |
| 75° | 210.1 | 206.7 | 276.3 | 419.5 | 785.7 | 1542.4 | 4328.5 | 4538.6 | 4130.5 | 3095.5 | 1536.9 |
| 77.5° | 151.3 | 146.6 | 177.0 | 245.2 | 389.1 | 522.9 | 2029.4 | 2190.2 | 1872.7 | 1072.8 | 352.0 |
| 80° | 106.7 | 106.1 | 128.4 | 172.3 | 243.2 | 232.4 | 641.1 | 718.8 | 575.6 | 260.1 | 103.4 |
| 82.5° | 60.1 | 62.2 | 89.2 | 121.6 | 148.0 | 116.2 | 180.4 | 198.6 | 193.9 | 138.5 | 45.3 |
| 85° | 29.1 | 32.4 | 58.1 | 87.8 | 77.7 | 45.3 | 64.2 | 69.6 | 81.1 | 80.4 | 23.0 |
| 87.5° | 0.0 | 0.0 | 23.6 | 39.9 | 20.9 | 6.8 | 19.6 | 22.3 | 21.6 | 25.7 | 5.4 |
| 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° | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 |
| 2.5° | 577.6 | 573.6 | 522.2 | 526.3 | 537.8 | 533.0 | 537.1 | 527.6 | 516.8 | 560.7 | 560.1 |
| 5° | 730.3 | 699.9 | 683.7 | 668.8 | 671.5 | 641.1 | 658.7 | 666.8 | 665.4 | 690.4 | 697.2 |
| 7.5° | 864.1 | 823.5 | 791.1 | 760.0 | 712.7 | 670.2 | 696.5 | 713.4 | 724.9 | 768.1 | 785.0 |
| 10° | 926.9 | 893.8 | 881.0 | 820.2 | 786.4 | 760.0 | 728.3 | 705.3 | 714.8 | 703.3 | 714.8 |
| 12.5° | 1064.7 | 1042.4 | 993.1 | 931.6 | 891.1 | 837.0 | 718.8 | 620.2 | 559.4 | 560.1 | 556.0 |
| 15° | 1190.4 | 1189.0 | 1115.4 | 1013.4 | 895.8 | 741.8 | 557.4 | 433.0 | 375.6 | 359.4 | 354.0 |
| 17.5° | 1354.5 | 1334.3 | 1199.8 | 1049.2 | 837.7 | 574.2 | 379.7 | 296.6 | 291.2 | 300.6 | 296.6 |
| 20° | 1459.3 | 1429.5 | 1241.7 | 997.2 | 690.4 | 388.5 | 286.4 | 262.8 | 279.0 | 292.5 | 289.1 |
| 22.5° | 1564.0 | 1519.4 | 1273.5 | 933.7 | 491.1 | 284.4 | 258.7 | 254.7 | 264.8 | 281.7 | 284.4 |
| 25° | 1621.4 | 1612.6 | 1335.6 | 814.8 | 336.4 | 249.3 | 249.3 | 247.9 | 251.3 | 263.5 | 261.5 |
| 27.5° | 1788.3 | 1669.4 | 1289.0 | 635.7 | 260.1 | 229.0 | 232.4 | 231.0 | 218.9 | 231.0 | 231.7 |
| 30° | 1892.3 | 1837.6 | 1292.4 | 452.6 | 229.0 | 202.7 | 211.5 | 200.6 | 182.4 | 192.5 | 190.5 |
| 32.5° | 2101.7 | 1965.3 | 1282.3 | 305.4 | 208.8 | 193.2 | 179.7 | 164.2 | 150.7 | 154.7 | 151.3 |
| 35° | 2345.6 | 2241.6 | 1145.1 | 245.2 | 194.6 | 170.9 | 149.3 | 133.8 | 119.6 | 123.0 | 122.3 |
| 37.5° | 2830.7 | 2500.3 | 1031.6 | 220.9 | 185.1 | 156.7 | 131.7 | 110.1 | 102.7 | 104.7 | 106.7 |
| 40° | 3279.9 | 2932.0 | 820.2 | 210.1 | 168.9 | 139.8 | 108.8 | 93.2 | 88.5 | 89.9 | 91.9 |
| 42.5° | 3951.5 | 3275.2 | 619.5 | 199.3 | 152.7 | 118.2 | 90.5 | 80.4 | 75.7 | 78.4 | 79.7 |
| 45° | 4601.4 | 3567.1 | 462.8 | 189.8 | 139.2 | 102.0 | 76.3 | 69.6 | 64.2 | 66.2 | 68.9 |
| 47.5° | 5250.6 | 3891.4 | 345.2 | 175.0 | 124.3 | 87.8 | 65.5 | 60.8 | 57.4 | 58.1 | 61.5 |
| 50° | 5831.6 | 4042.7 | 271.6 | 156.7 | 112.1 | 76.3 | 59.5 | 54.7 | 53.4 | 54.0 | 56.7 |
| 52.5° | 6258.6 | 4044.0 | 229.0 | 140.5 | 100.7 | 67.6 | 56.1 | 50.7 | 50.0 | 51.3 | 54.0 |
| 55° | 6644.3 | 3935.9 | 198.6 | 126.3 | 90.5 | 61.5 | 53.4 | 48.6 | 48.6 | 50.0 | 52.7 |
| 57.5° | 6900.4 | 3737.3 | 172.3 | 111.5 | 81.7 | 58.1 | 51.3 | 46.6 | 45.9 | 45.3 | 47.3 |
| 60° | 7025.4 | 3466.4 | 145.9 | 98.0 | 73.6 | 56.1 | 50.0 | 41.2 | 40.5 | 39.2 | 40.5 |
| 62.5° | 6946.3 | 3127.3 | 122.3 | 84.4 | 65.5 | 53.4 | 43.9 | 35.8 | 34.5 | 31.8 | 33.8 |
| 65° | 6542.3 | 2715.2 | 103.4 | 72.3 | 56.7 | 45.3 | 37.2 | 30.4 | 27.0 | 23.6 | 23.0 |
| 67.5° | 5716.1 | 2205.8 | 86.5 | 62.2 | 48.6 | 37.2 | 30.4 | 27.0 | 20.9 | 18.2 | 17.6 |
| 70° | 4283.9 | 1505.9 | 71.6 | 53.4 | 40.5 | 31.8 | 25.7 | 24.3 | 19.6 | 17.6 | 16.2 |
| 72.5° | 2513.2 | 812.7 | 60.1 | 46.6 | 34.5 | 26.3 | 20.9 | 22.3 | 19.6 | 16.2 | 14.9 |
| 75° | 1003.9 | 270.2 | 48.0 | 37.2 | 27.7 | 18.9 | 17.6 | 18.2 | 17.6 | 14.9 | 12.2 |
| 77.5° | 229.0 | 85.1 | 37.2 | 29.1 | 21.6 | 12.2 | 14.2 | 15.5 | 15.5 | 12.2 | 8.8 |
| 80° | 71.6 | 33.8 | 21.6 | 18.2 | 15.5 | 6.8 | 10.1 | 10.8 | 7.4 | 3.4 | 0.0 |
| 82.5° | 23.0 | 9.5 | 7.4 | 7.4 | 6.8 | 1.4 | 2.0 | 1.4 | 0.0 | 0.0 | 0.0 |
| 85° | 8.8 | 6.1 | 4.7 | 4.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.4 | 2.7 | 2.0 | 2.7 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)