

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: P368199

Luminaire Tested: **PMM-SA4A-727-U-T3-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368199
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-SA4A-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: 9575 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

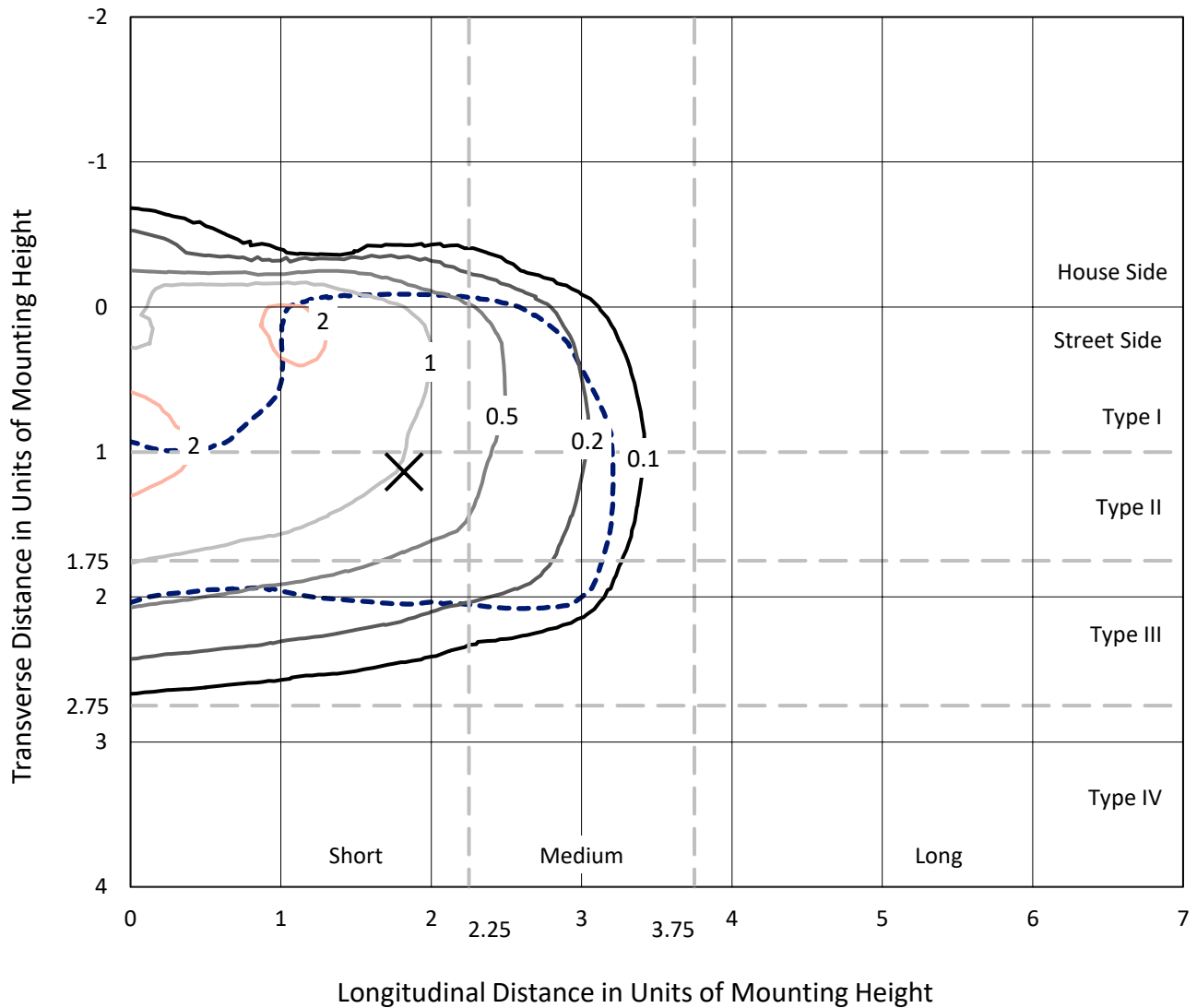
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

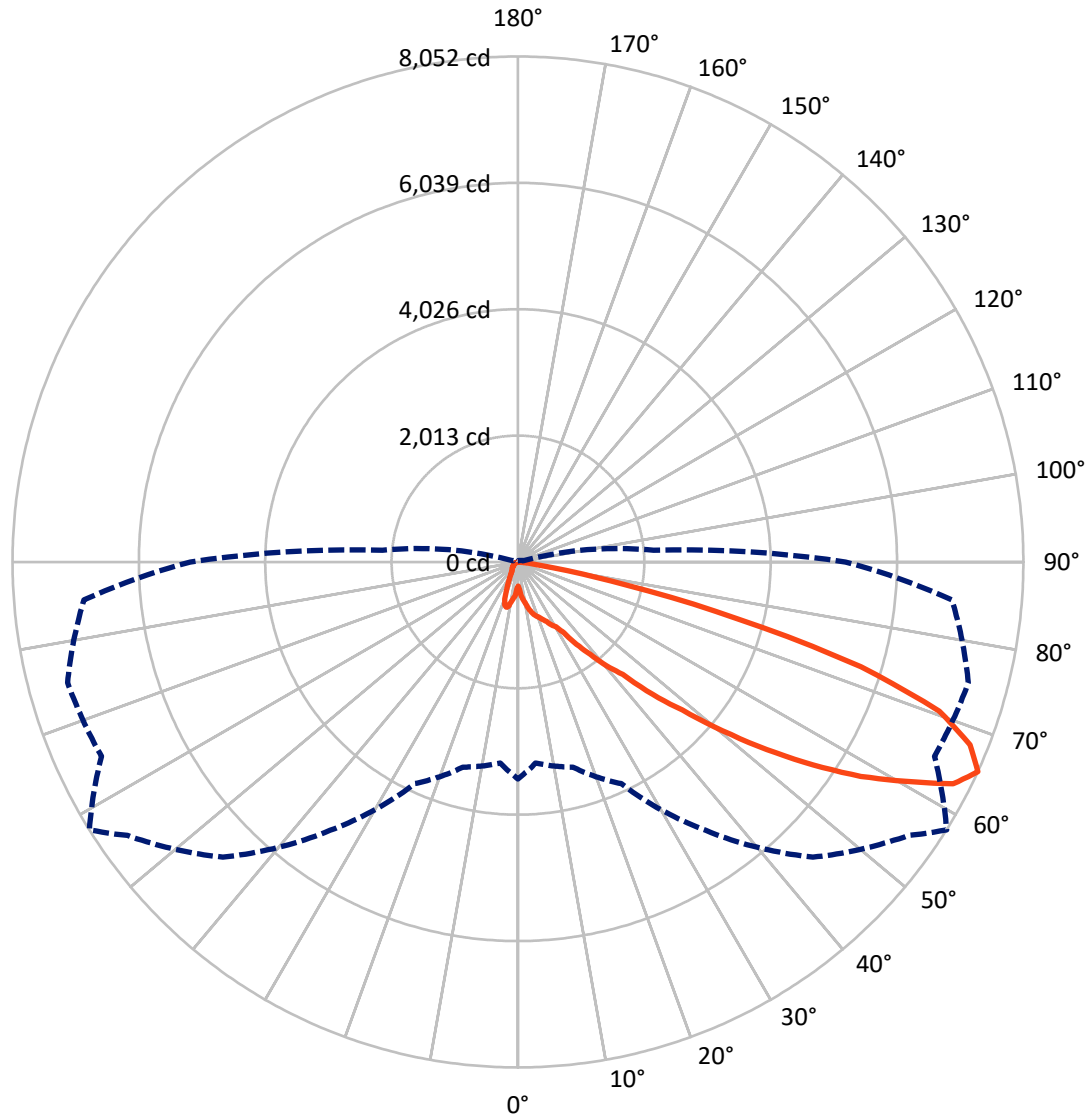
× Max cd
 - - - 1/2 Max cd



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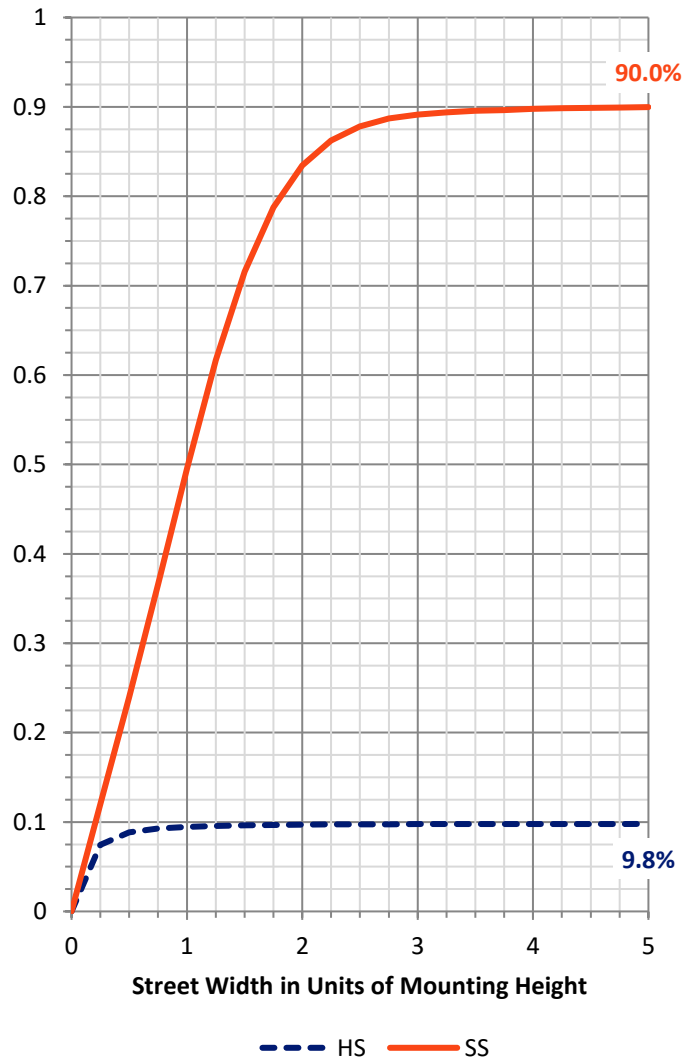
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 944.8 | 0.0 | 944.8 |
| | % Fixture | 9.9 | 0.0 | 9.9 |
| Street Side | Lumens | 8630.2 | 0.0 | 8630.2 |
| | % Fixture | 90.1 | 0.0 | 90.1 |
| Total | Lumens | 9575.0 | 0.0 | 9575.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.9 | 0.6 |
| 10°-20° | 196.5 | 2.1 |
| 20°-30° | 380.4 | 4.0 |
| 30°-40° | 759.0 | 7.9 |
| 40°-50° | 1551.8 | 16.2 |
| 50°-60° | 2752.4 | 28.7 |
| 60°-70° | 2901.7 | 30.3 |
| 70°-80° | 940.8 | 9.8 |
| 80°-90° | 38.5 | 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° | 9575.0 | 100.0 |
| 0°-180° | 9575.0 | 100.0 |

Coefficient of Utilization

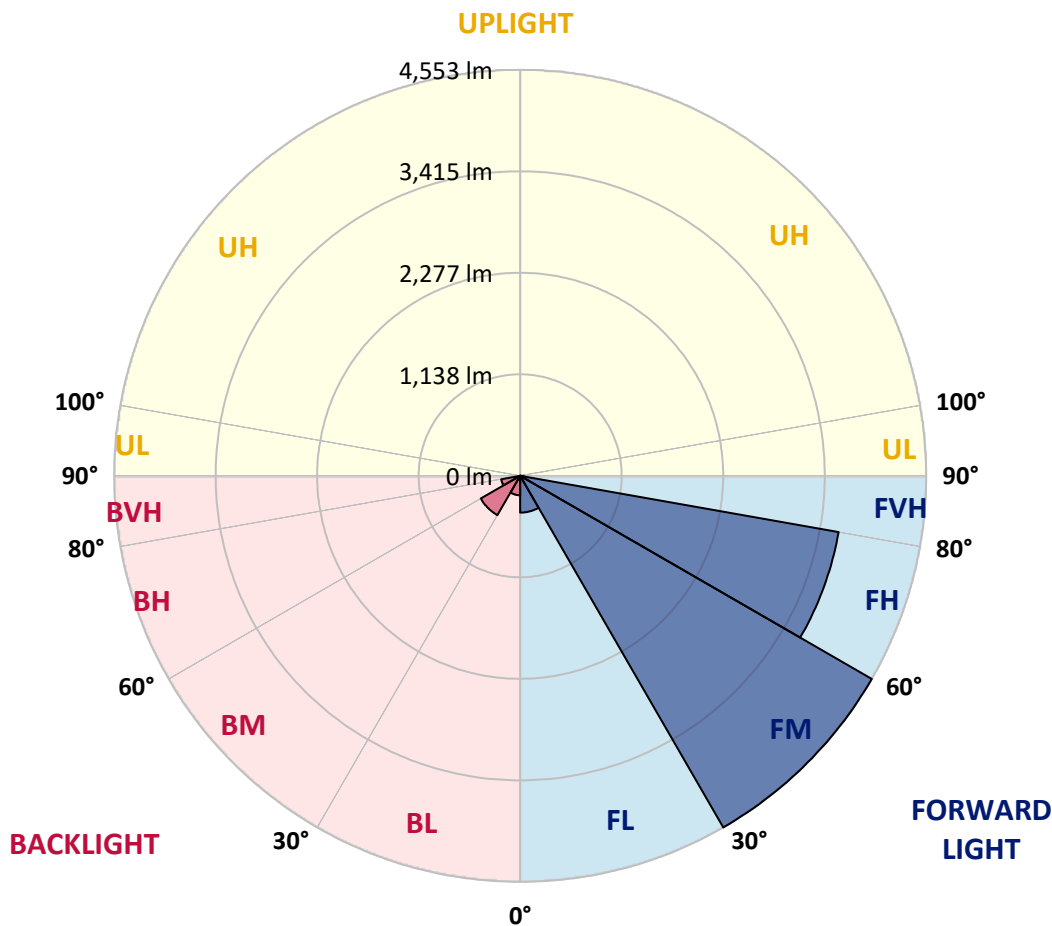


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 413.1 | 4.3 | | | |
| FM (30°-60°) | 4553.4 | 47.6 | | | |
| FH (60°-80°) | 3626.9 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 36.8 | 0.4 | | | G1/100 |
| BL (0°-30°) | 217.8 | 2.3 | B1/500 | | |
| BM (30°-60°) | 509.8 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 215.6 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.6 | 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° | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 |
| 2.5° | 467.9 | 453.9 | 431.8 | 435.6 | 439.9 | 448.5 | 441.5 | 435.1 | 428.0 | 418.9 | 453.9 |
| 5° | 565.0 | 541.8 | 539.6 | 534.8 | 531.0 | 530.5 | 539.1 | 536.4 | 540.2 | 557.4 | 575.2 |
| 7.5° | 600.6 | 590.9 | 572.5 | 580.1 | 568.2 | 559.0 | 597.3 | 609.7 | 633.4 | 641.5 | 687.9 |
| 10° | 596.8 | 582.8 | 590.3 | 594.1 | 602.2 | 635.6 | 659.9 | 673.3 | 693.8 | 738.0 | 728.9 |
| 12.5° | 614.0 | 626.4 | 634.5 | 635.1 | 676.6 | 738.0 | 755.3 | 766.6 | 803.3 | 820.5 | 865.8 |
| 15° | 671.7 | 692.2 | 679.3 | 684.7 | 698.1 | 773.1 | 813.5 | 838.3 | 890.1 | 946.1 | 957.4 |
| 17.5° | 754.2 | 767.1 | 740.2 | 720.8 | 758.0 | 799.0 | 872.3 | 898.1 | 931.0 | 1062.0 | 1086.3 |
| 20° | 858.3 | 880.4 | 822.1 | 745.0 | 794.1 | 842.6 | 922.4 | 934.8 | 969.8 | 1140.7 | 1179.0 |
| 22.5° | 1101.4 | 1068.5 | 979.5 | 859.3 | 844.8 | 866.3 | 942.4 | 990.9 | 1050.2 | 1184.9 | 1273.9 |
| 25° | 1341.3 | 1330.0 | 1199.0 | 1064.7 | 967.7 | 919.2 | 1020.0 | 1046.9 | 1144.0 | 1290.1 | 1339.1 |
| 27.5° | 1608.1 | 1630.8 | 1411.9 | 1330.5 | 1140.2 | 981.7 | 1068.5 | 1135.9 | 1250.7 | 1328.3 | 1446.4 |
| 30° | 1960.2 | 1924.1 | 1667.4 | 1586.0 | 1368.8 | 1153.7 | 1194.1 | 1198.4 | 1367.2 | 1454.5 | 1566.6 |
| 32.5° | 2236.2 | 2259.4 | 1937.0 | 1811.9 | 1638.3 | 1418.4 | 1288.5 | 1344.5 | 1465.3 | 1659.9 | 1766.1 |
| 35° | 2534.9 | 2532.7 | 2218.4 | 2050.2 | 1823.2 | 1634.6 | 1568.3 | 1609.2 | 1760.7 | 1981.2 | 2009.2 |
| 37.5° | 2981.2 | 2943.0 | 2572.1 | 2325.7 | 2132.7 | 1971.5 | 1920.8 | 1866.4 | 2022.7 | 2233.0 | 2338.1 |
| 40° | 3402.3 | 3270.2 | 2927.3 | 2635.1 | 2388.2 | 2322.5 | 2139.2 | 2172.6 | 2218.9 | 2496.6 | 2787.2 |
| 42.5° | 3827.6 | 3745.7 | 3287.4 | 3042.7 | 2739.2 | 2582.8 | 2463.2 | 2447.5 | 2668.0 | 2996.9 | 3297.2 |
| 45° | 4388.8 | 4138.2 | 3771.6 | 3556.5 | 3205.0 | 3048.1 | 2951.6 | 3009.3 | 3207.7 | 3688.0 | 3888.0 |
| 47.5° | 4860.0 | 4629.3 | 4314.4 | 3987.7 | 3619.0 | 3795.3 | 3614.1 | 3523.0 | 3795.3 | 4291.8 | 4557.6 |
| 50° | 5264.9 | 5007.7 | 4689.1 | 4447.1 | 4387.2 | 4556.5 | 4189.9 | 4223.3 | 4400.2 | 4983.5 | 5133.3 |
| 52.5° | 5559.2 | 5288.6 | 5010.4 | 4893.4 | 5138.7 | 5223.9 | 5040.1 | 4966.2 | 5126.9 | 5573.2 | 5646.0 |
| 55° | 5780.8 | 5503.7 | 5286.4 | 5447.6 | 5922.0 | 5894.0 | 5958.7 | 5706.4 | 5860.0 | 6188.4 | 6153.9 |
| 57.5° | 5794.3 | 5466.0 | 5338.7 | 5598.0 | 6249.3 | 6683.3 | 6872.5 | 6443.4 | 6530.7 | 6669.2 | 6591.6 |
| 60° | 5370.5 | 5043.8 | 5033.6 | 5401.8 | 6344.2 | 6887.6 | 7301.6 | 7092.4 | 6975.5 | 7078.4 | 6931.2 |
| 62.5° | 4526.3 | 4297.7 | 4404.5 | 4811.5 | 5991.0 | 6774.9 | 7530.2 | 7781.9 | 7326.4 | 7349.6 | 7140.4 |
| 65° | 3456.2 | 3216.3 | 3383.4 | 3896.1 | 5219.1 | 6648.8 | 7594.9 | 8051.5 | 7319.9 | 7426.7 | 6939.9 |
| 67.5° | 2289.0 | 2149.9 | 2339.2 | 2904.1 | 4149.5 | 5869.2 | 7561.5 | 7768.5 | 7087.6 | 7125.3 | 6195.4 |
| 70° | 1181.7 | 1147.7 | 1300.9 | 1746.7 | 2789.9 | 4509.1 | 7233.1 | 7119.9 | 6615.9 | 6138.2 | 4778.6 |
| 72.5° | 378.5 | 380.1 | 527.2 | 797.9 | 1504.1 | 2745.1 | 5559.8 | 5715.0 | 5294.0 | 4490.2 | 2917.6 |
| 75° | 167.7 | 165.0 | 220.5 | 334.8 | 627.0 | 1230.8 | 3454.0 | 3621.7 | 3296.1 | 2470.2 | 1226.5 |
| 77.5° | 120.8 | 117.0 | 141.2 | 195.7 | 310.5 | 417.3 | 1619.5 | 1747.8 | 1494.4 | 856.1 | 280.9 |
| 80° | 85.2 | 84.6 | 102.4 | 137.5 | 194.1 | 185.5 | 511.6 | 573.6 | 459.3 | 207.6 | 82.5 |
| 82.5° | 48.0 | 49.6 | 71.2 | 97.0 | 118.1 | 92.7 | 143.9 | 158.5 | 154.7 | 110.5 | 36.1 |
| 85° | 23.2 | 25.9 | 46.4 | 70.1 | 62.0 | 36.1 | 51.2 | 55.5 | 64.7 | 64.2 | 18.3 |
| 87.5° | 0.0 | 0.0 | 18.9 | 31.8 | 16.7 | 5.4 | 15.6 | 17.8 | 17.3 | 20.5 | 4.3 |
| 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° | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 | 383.3 |
| 2.5° | 460.9 | 457.7 | 416.7 | 420.0 | 429.1 | 425.4 | 428.6 | 421.0 | 412.4 | 447.5 | 446.9 |
| 5° | 582.8 | 558.5 | 545.6 | 533.7 | 535.9 | 511.6 | 525.6 | 532.1 | 531.0 | 551.0 | 556.4 |
| 7.5° | 689.5 | 657.2 | 631.3 | 606.5 | 568.8 | 534.8 | 555.8 | 569.3 | 578.5 | 613.0 | 626.4 |
| 10° | 739.6 | 713.2 | 703.0 | 654.5 | 627.5 | 606.5 | 581.2 | 562.8 | 570.4 | 561.2 | 570.4 |
| 12.5° | 849.6 | 831.8 | 792.5 | 743.4 | 711.1 | 667.9 | 573.6 | 494.9 | 446.4 | 446.9 | 443.7 |
| 15° | 949.9 | 948.8 | 890.1 | 808.7 | 714.9 | 591.9 | 444.8 | 345.6 | 299.7 | 286.8 | 282.5 |
| 17.5° | 1080.9 | 1064.7 | 957.4 | 837.2 | 668.5 | 458.2 | 303.0 | 236.7 | 232.4 | 239.9 | 236.7 |
| 20° | 1164.5 | 1140.7 | 990.9 | 795.7 | 551.0 | 310.0 | 228.6 | 209.7 | 222.6 | 233.4 | 230.7 |
| 22.5° | 1248.0 | 1212.4 | 1016.2 | 745.0 | 391.9 | 227.0 | 206.5 | 203.2 | 211.3 | 224.8 | 227.0 |
| 25° | 1293.8 | 1286.8 | 1065.8 | 650.2 | 268.5 | 198.9 | 198.9 | 197.9 | 200.5 | 210.3 | 208.6 |
| 27.5° | 1427.0 | 1332.1 | 1028.6 | 507.3 | 207.6 | 182.8 | 185.5 | 184.4 | 174.7 | 184.4 | 184.9 |
| 30° | 1510.0 | 1466.4 | 1031.3 | 361.2 | 182.8 | 161.7 | 168.7 | 160.1 | 145.6 | 153.6 | 152.0 |
| 32.5° | 1677.1 | 1568.3 | 1023.2 | 243.7 | 166.6 | 154.2 | 143.4 | 131.0 | 120.2 | 123.5 | 120.8 |
| 35° | 1871.8 | 1788.7 | 913.8 | 195.7 | 155.3 | 136.4 | 119.1 | 106.7 | 95.4 | 98.1 | 97.6 |
| 37.5° | 2258.8 | 1995.2 | 823.2 | 176.3 | 147.7 | 125.1 | 105.1 | 87.9 | 81.9 | 83.6 | 85.2 |
| 40° | 2617.3 | 2339.7 | 654.5 | 167.7 | 134.8 | 111.6 | 86.8 | 74.4 | 70.6 | 71.7 | 73.3 |
| 42.5° | 3153.2 | 2613.6 | 494.4 | 159.0 | 121.8 | 94.3 | 72.2 | 64.2 | 60.4 | 62.5 | 63.6 |
| 45° | 3671.8 | 2846.5 | 369.3 | 151.5 | 111.1 | 81.4 | 60.9 | 55.5 | 51.2 | 52.8 | 55.0 |
| 47.5° | 4189.9 | 3105.2 | 275.5 | 139.6 | 99.2 | 70.1 | 52.3 | 48.5 | 45.8 | 46.4 | 49.1 |
| 50° | 4653.5 | 3226.0 | 216.7 | 125.1 | 89.5 | 60.9 | 47.4 | 43.7 | 42.6 | 43.1 | 45.3 |
| 52.5° | 4994.2 | 3227.1 | 182.8 | 112.1 | 80.3 | 53.9 | 44.7 | 40.4 | 39.9 | 41.0 | 43.1 |
| 55° | 5302.1 | 3140.8 | 158.5 | 100.8 | 72.2 | 49.1 | 42.6 | 38.8 | 38.8 | 39.9 | 42.1 |
| 57.5° | 5506.4 | 2982.3 | 137.5 | 89.0 | 65.2 | 46.4 | 41.0 | 37.2 | 36.7 | 36.1 | 37.7 |
| 60° | 5606.1 | 2766.1 | 116.4 | 78.2 | 58.8 | 44.7 | 39.9 | 32.9 | 32.3 | 31.3 | 32.3 |
| 62.5° | 5543.1 | 2495.5 | 97.6 | 67.4 | 52.3 | 42.6 | 35.0 | 28.6 | 27.5 | 25.3 | 27.0 |
| 65° | 5220.7 | 2166.7 | 82.5 | 57.7 | 45.3 | 36.1 | 29.7 | 24.3 | 21.6 | 18.9 | 18.3 |
| 67.5° | 4561.3 | 1760.2 | 69.0 | 49.6 | 38.8 | 29.7 | 24.3 | 21.6 | 16.7 | 14.6 | 14.0 |
| 70° | 3418.5 | 1201.7 | 57.1 | 42.6 | 32.3 | 25.3 | 20.5 | 19.4 | 15.6 | 14.0 | 12.9 |
| 72.5° | 2005.5 | 648.5 | 48.0 | 37.2 | 27.5 | 21.0 | 16.7 | 17.8 | 15.6 | 12.9 | 11.9 |
| 75° | 801.1 | 215.6 | 38.3 | 29.7 | 22.1 | 15.1 | 14.0 | 14.6 | 14.0 | 11.9 | 9.7 |
| 77.5° | 182.8 | 67.9 | 29.7 | 23.2 | 17.3 | 9.7 | 11.3 | 12.4 | 12.4 | 9.7 | 7.0 |
| 80° | 57.1 | 27.0 | 17.3 | 14.6 | 12.4 | 5.4 | 8.1 | 8.6 | 5.9 | 2.7 | 0.0 |
| 82.5° | 18.3 | 7.5 | 5.9 | 5.9 | 5.4 | 1.1 | 1.6 | 1.1 | 0.0 | 0.0 | 0.0 |
| 85° | 7.0 | 4.9 | 3.8 | 3.8 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.7 | 2.2 | 1.6 | 2.2 | 1.1 | 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)