

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: P598363

Luminaire Tested: **PMM-SA2B-835-U-T4FT-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-13)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2B-835-U-T4FT-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6149 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

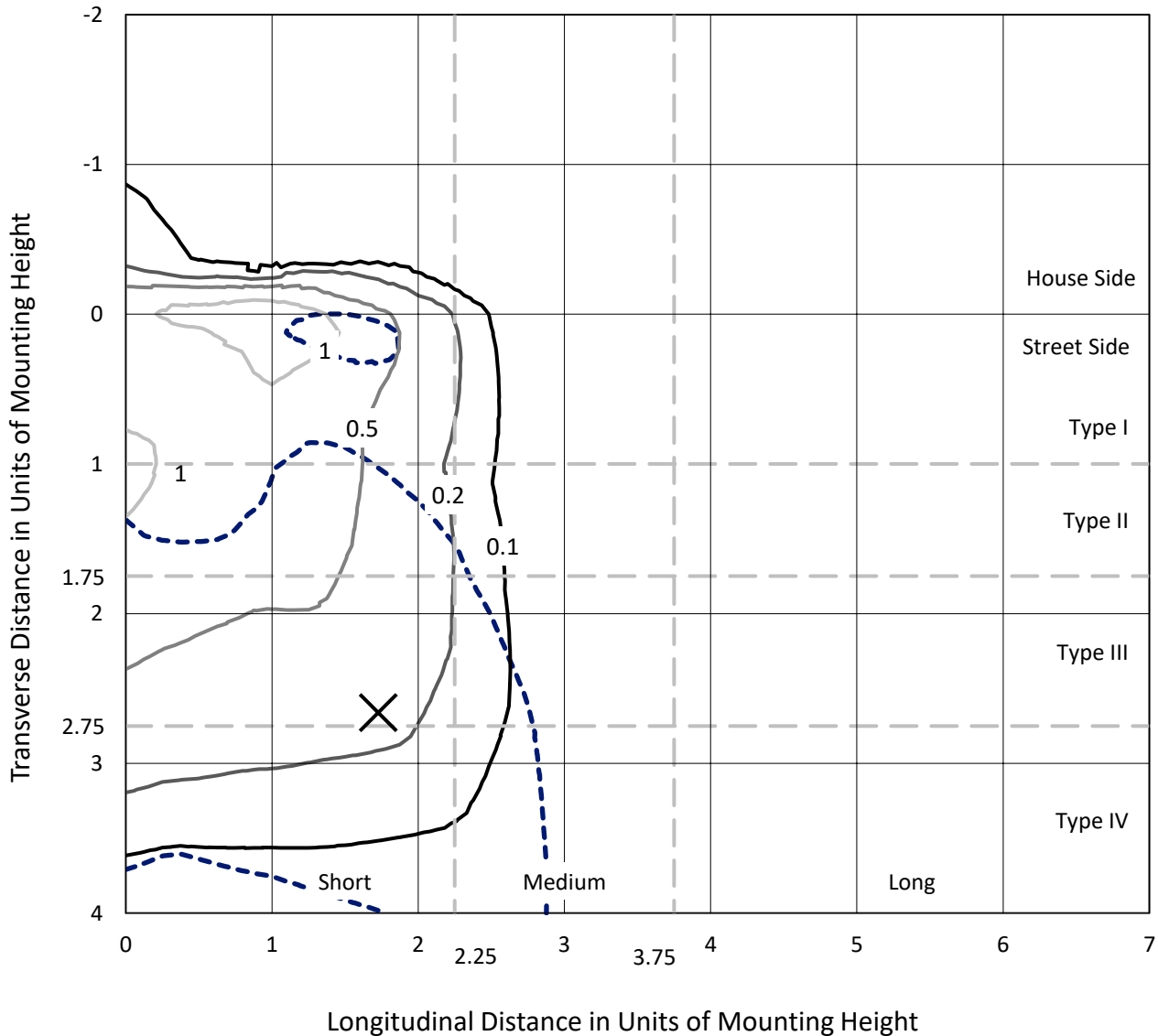
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

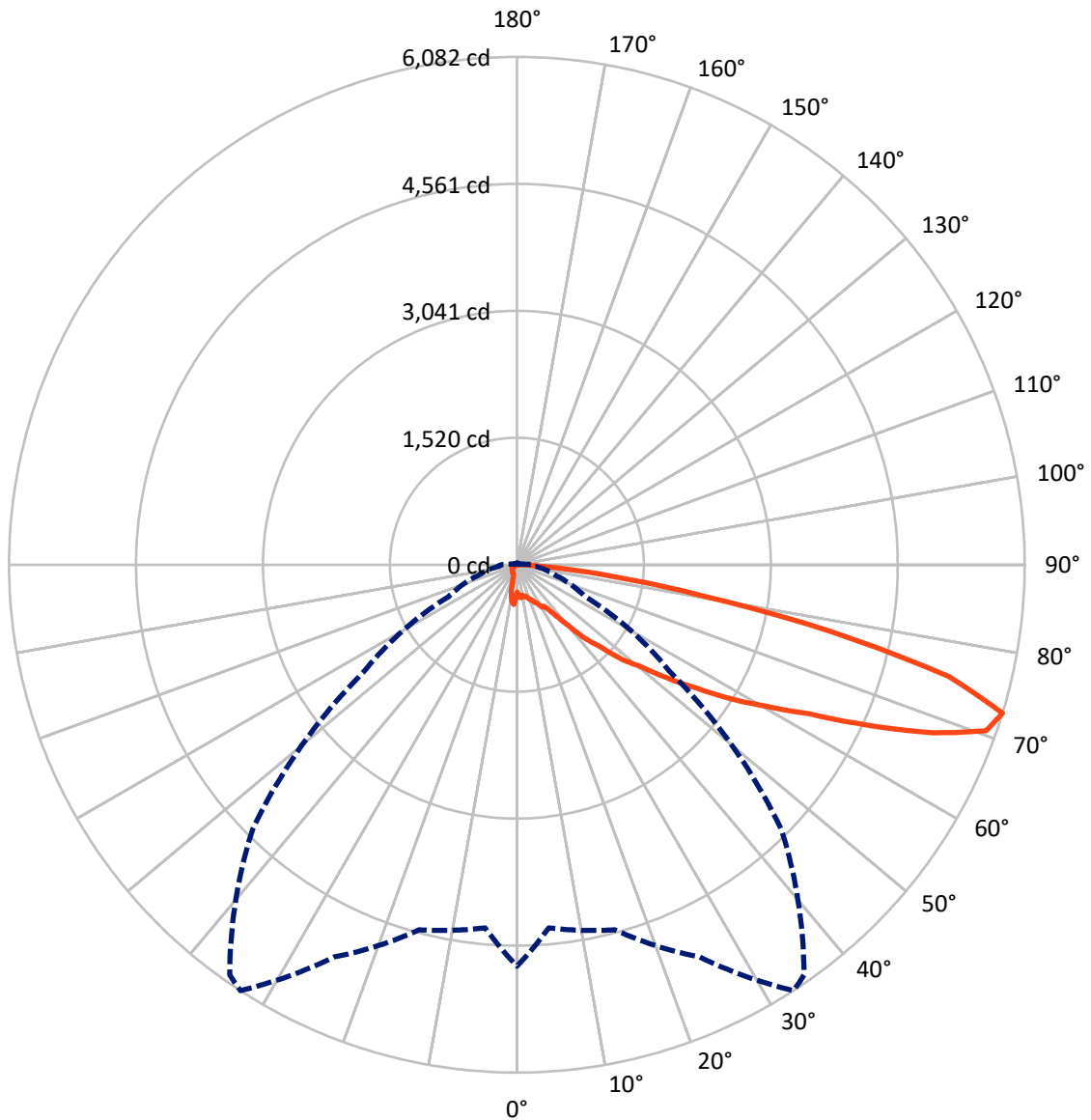
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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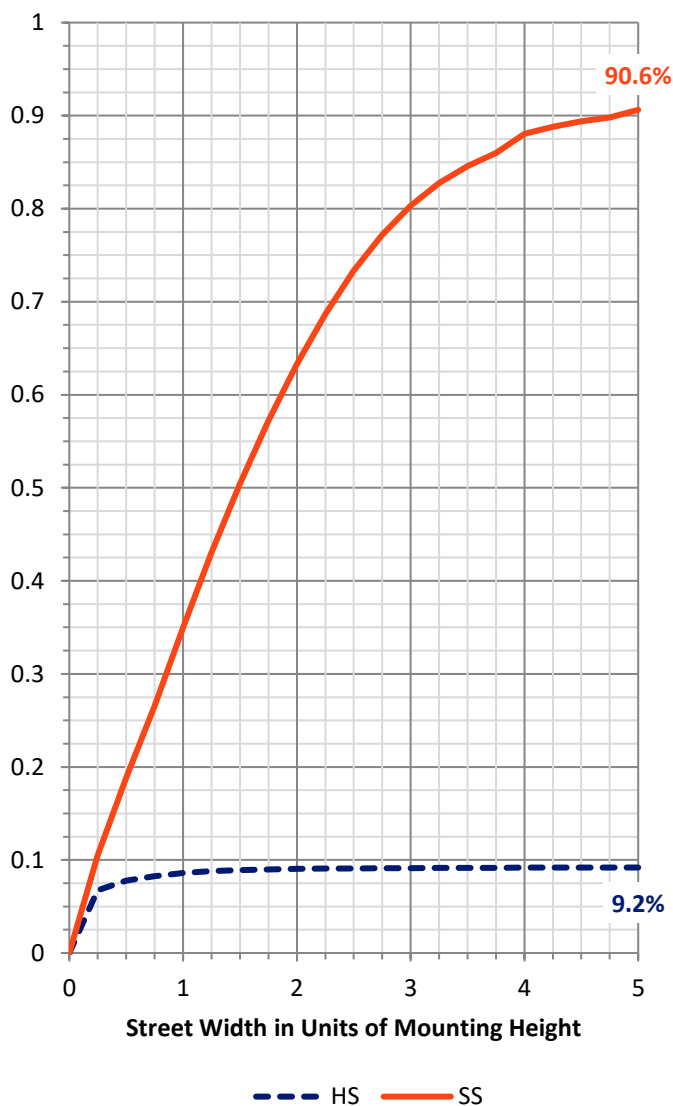
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 568.6 | 0.0 | 568.6 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 5580.4 | 0.0 | 5580.4 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 6149.0 | 0.0 | 6149.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.3 | 0.7 |
| 10°-20° | 126.1 | 2.1 |
| 20°-30° | 213.9 | 3.5 |
| 30°-40° | 391.5 | 6.4 |
| 40°-50° | 826.3 | 13.4 |
| 50°-60° | 1382.4 | 22.5 |
| 60°-70° | 1850.5 | 30.1 |
| 70°-80° | 1208.7 | 19.7 |
| 80°-90° | 107.2 | 1.7 |
| 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° | 6149.0 | 100.0 |
| 0°-180° | 6149.0 | 100.0 |

Coefficient of Utilization



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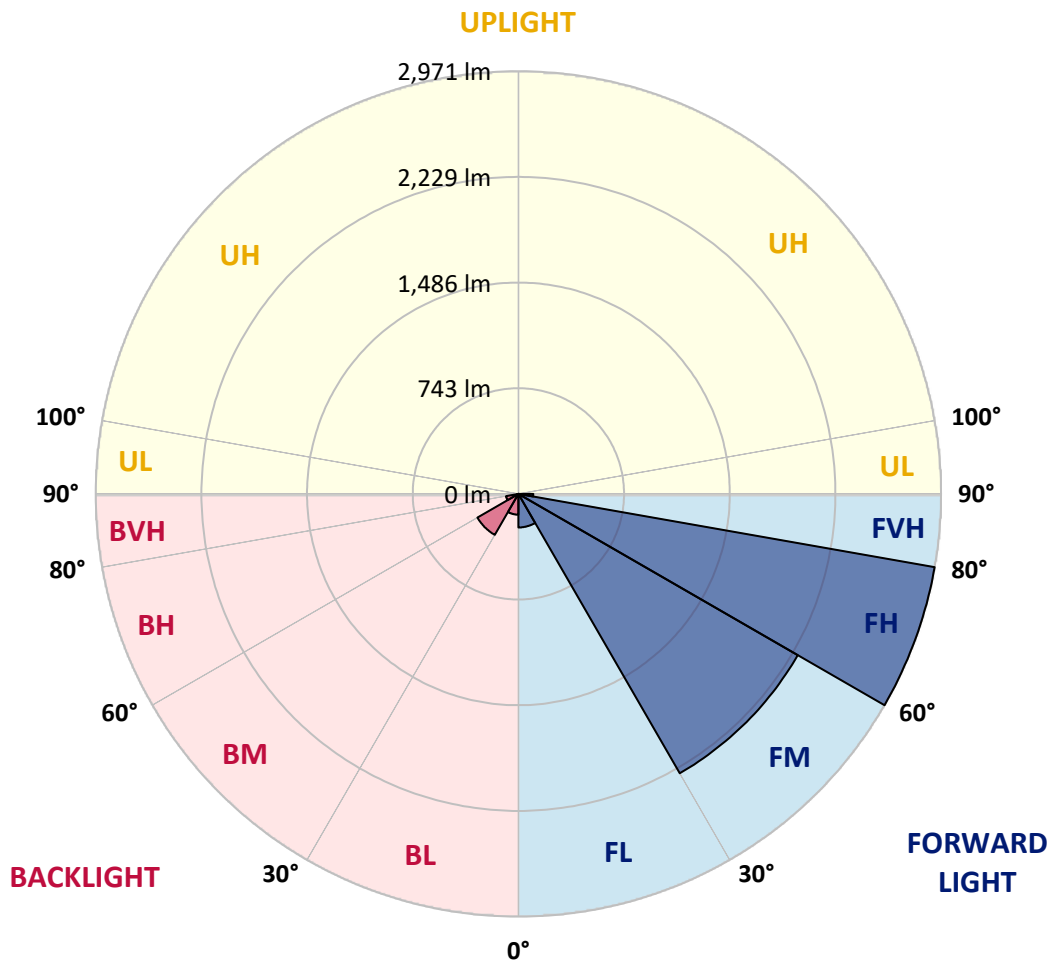
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 236.0 | 3.8 | | | |
| FM (30°-60°) | 2267.8 | 36.9 | | | |
| FH (60°-80°) | 2971.5 | 48.3 | | | G2/5000 |
| FVH (80°-90°) | 105.1 | 1.7 | | | G2/225 |
| BL (0°-30°) | 146.3 | 2.4 | B1/500 | | |
| BM (30°-60°) | 332.4 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 87.8 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.1 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 |
| 2.5° | 389.9 | 374.9 | 353.0 | 354.4 | 358.1 | 361.2 | 369.4 | 366.0 | 359.5 | 359.1 | 389.9 |
| 5° | 413.1 | 396.4 | 395.0 | 397.0 | 396.0 | 401.5 | 394.7 | 416.8 | 435.6 | 458.2 | 494.3 |
| 7.5° | 401.8 | 394.0 | 384.1 | 394.3 | 394.0 | 391.2 | 395.7 | 440.7 | 486.1 | 514.8 | 574.6 |
| 10° | 369.4 | 360.5 | 368.0 | 371.4 | 369.0 | 381.0 | 410.7 | 447.6 | 501.8 | 561.9 | 591.0 |
| 12.5° | 360.2 | 365.6 | 368.4 | 368.4 | 391.2 | 397.4 | 442.8 | 477.6 | 542.1 | 589.6 | 673.9 |
| 15° | 396.0 | 406.6 | 387.8 | 383.7 | 390.9 | 394.3 | 444.8 | 486.8 | 569.4 | 656.2 | 726.8 |
| 17.5° | 453.0 | 452.3 | 423.3 | 407.3 | 418.5 | 426.7 | 454.7 | 503.9 | 552.4 | 708.4 | 810.8 |
| 20° | 492.3 | 493.0 | 440.7 | 407.3 | 444.5 | 449.3 | 480.3 | 519.6 | 557.8 | 734.7 | 865.8 |
| 22.5° | 542.8 | 524.7 | 467.0 | 434.6 | 459.9 | 464.3 | 498.4 | 529.5 | 585.8 | 731.6 | 936.1 |
| 25° | 584.1 | 572.5 | 499.8 | 477.3 | 499.8 | 493.7 | 524.7 | 571.5 | 615.9 | 780.4 | 977.4 |
| 27.5° | 648.3 | 628.5 | 523.0 | 527.1 | 525.7 | 530.2 | 537.4 | 609.0 | 668.8 | 782.8 | 1073.0 |
| 30° | 708.1 | 696.4 | 574.9 | 574.9 | 588.2 | 579.7 | 584.8 | 671.5 | 720.0 | 838.1 | 1180.5 |
| 32.5° | 769.8 | 770.5 | 636.0 | 603.6 | 593.0 | 628.2 | 662.6 | 701.9 | 781.8 | 933.0 | 1345.1 |
| 35° | 933.4 | 919.7 | 753.1 | 672.2 | 663.7 | 661.6 | 716.9 | 823.1 | 891.4 | 1056.6 | 1566.7 |
| 37.5° | 1262.8 | 1215.4 | 1005.1 | 827.9 | 795.8 | 784.9 | 847.7 | 956.6 | 1024.5 | 1238.2 | 1933.0 |
| 40° | 1600.8 | 1513.7 | 1280.2 | 1080.5 | 976.4 | 929.3 | 1002.3 | 1094.9 | 1215.7 | 1439.0 | 2272.0 |
| 42.5° | 1897.5 | 1789.9 | 1487.5 | 1352.9 | 1217.4 | 1196.9 | 1128.3 | 1278.9 | 1488.8 | 1731.2 | 2604.2 |
| 45° | 2186.6 | 1975.0 | 1671.8 | 1565.3 | 1400.7 | 1412.3 | 1389.1 | 1519.5 | 1772.5 | 2051.4 | 2898.8 |
| 47.5° | 2385.7 | 2195.5 | 1897.8 | 1759.5 | 1693.7 | 1625.7 | 1810.1 | 1945.6 | 2025.1 | 2254.9 | 3153.5 |
| 50° | 2600.1 | 2407.5 | 2092.1 | 1995.4 | 1908.7 | 1977.4 | 2216.7 | 2234.8 | 2228.3 | 2444.7 | 3326.9 |
| 52.5° | 2876.9 | 2649.9 | 2315.0 | 2205.7 | 2254.9 | 2323.2 | 2599.4 | 2602.8 | 2408.9 | 2604.5 | 3451.8 |
| 55° | 3133.0 | 2881.4 | 2612.0 | 2508.9 | 2611.7 | 2669.4 | 2975.6 | 2863.3 | 2514.0 | 2713.1 | 3513.3 |
| 57.5° | 3493.8 | 3202.6 | 3007.0 | 2825.4 | 3033.6 | 2978.3 | 3306.4 | 3139.5 | 2632.1 | 2785.1 | 3490.8 |
| 60° | 3949.9 | 3607.2 | 3411.2 | 3219.0 | 3442.3 | 3479.8 | 3629.4 | 3277.4 | 2677.9 | 2808.6 | 3355.2 |
| 62.5° | 4413.9 | 4069.1 | 3811.3 | 3680.9 | 3934.2 | 4057.8 | 3928.4 | 3346.0 | 2622.9 | 2762.6 | 3048.3 |
| 65° | 4989.5 | 4548.0 | 4246.9 | 4170.5 | 4639.9 | 4821.5 | 4282.1 | 3362.7 | 2516.8 | 2508.9 | 2450.9 |
| 67.5° | 5383.8 | 4954.0 | 4677.8 | 4805.8 | 5372.9 | 5387.5 | 4599.6 | 3367.9 | 2159.3 | 1964.4 | 1608.6 |
| 70° | 5477.3 | 5017.1 | 4893.5 | 5270.4 | 5957.7 | 5773.0 | 4702.0 | 3108.4 | 1601.5 | 1165.9 | 735.4 |
| 72.5° | 4808.2 | 4365.1 | 4525.9 | 5182.7 | 6081.9 | 5997.3 | 4475.7 | 2242.6 | 901.6 | 466.3 | 225.7 |
| 75° | 2949.3 | 2681.3 | 3395.2 | 4394.1 | 5338.7 | 5284.1 | 3491.8 | 1158.7 | 363.2 | 186.4 | 84.3 |
| 77.5° | 1282.6 | 1191.1 | 1771.8 | 2915.5 | 3836.2 | 3787.4 | 2046.0 | 426.7 | 187.8 | 131.1 | 42.7 |
| 80° | 424.4 | 411.7 | 671.2 | 1380.6 | 2247.1 | 2204.0 | 862.0 | 177.5 | 133.8 | 105.1 | 23.9 |
| 82.5° | 100.7 | 100.0 | 234.2 | 635.3 | 1144.7 | 1108.8 | 264.6 | 98.0 | 97.0 | 83.0 | 12.6 |
| 85° | 25.3 | 25.9 | 64.9 | 259.8 | 465.0 | 410.0 | 69.0 | 48.8 | 68.3 | 56.3 | 6.5 |
| 87.5° | 0.0 | 0.0 | 16.7 | 37.2 | 70.3 | 44.0 | 7.5 | 13.0 | 19.1 | 20.1 | 3.4 |
| 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° | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 | 327.1 |
| 2.5° | 396.7 | 392.9 | 362.2 | 369.7 | 381.3 | 380.3 | 387.8 | 382.0 | 376.9 | 402.2 | 399.8 |
| 5° | 504.6 | 484.1 | 474.5 | 487.9 | 480.7 | 464.0 | 478.0 | 475.6 | 471.5 | 480.0 | 486.5 |
| 7.5° | 585.5 | 566.7 | 558.2 | 530.2 | 489.6 | 457.5 | 462.6 | 450.6 | 439.4 | 452.7 | 466.3 |
| 10° | 612.1 | 601.9 | 600.9 | 546.2 | 508.0 | 461.6 | 406.6 | 359.1 | 346.5 | 329.8 | 337.3 |
| 12.5° | 684.5 | 690.6 | 652.1 | 588.2 | 514.5 | 425.4 | 327.7 | 260.5 | 233.2 | 215.4 | 216.4 |
| 15° | 743.9 | 765.4 | 709.4 | 594.7 | 452.7 | 324.3 | 218.2 | 157.7 | 140.7 | 136.2 | 134.9 |
| 17.5° | 832.3 | 853.1 | 727.2 | 548.6 | 365.0 | 219.9 | 140.3 | 122.9 | 123.9 | 127.0 | 126.3 |
| 20° | 897.9 | 894.8 | 711.8 | 467.0 | 269.0 | 144.1 | 117.4 | 115.0 | 120.5 | 129.4 | 127.3 |
| 22.5° | 961.0 | 939.9 | 702.2 | 391.6 | 174.1 | 115.7 | 113.3 | 113.0 | 118.1 | 126.7 | 129.0 |
| 25° | 1006.1 | 1009.5 | 686.2 | 306.6 | 126.7 | 107.5 | 109.6 | 112.7 | 117.8 | 127.0 | 125.6 |
| 27.5° | 1135.1 | 1039.5 | 619.3 | 222.6 | 106.9 | 103.1 | 108.2 | 114.4 | 116.1 | 127.7 | 128.0 |
| 30° | 1218.8 | 1152.9 | 575.6 | 149.9 | 98.7 | 95.2 | 105.5 | 113.7 | 115.7 | 130.8 | 131.8 |
| 32.5° | 1364.6 | 1201.7 | 525.1 | 111.3 | 91.8 | 92.9 | 99.3 | 110.3 | 119.8 | 135.9 | 136.6 |
| 35° | 1545.8 | 1358.4 | 433.6 | 100.0 | 89.4 | 87.7 | 90.8 | 103.4 | 119.1 | 136.6 | 140.0 |
| 37.5° | 1891.0 | 1452.3 | 343.8 | 97.0 | 89.4 | 86.4 | 89.4 | 97.0 | 117.1 | 143.4 | 150.6 |
| 40° | 2122.1 | 1643.5 | 247.9 | 96.3 | 87.7 | 85.0 | 86.0 | 93.5 | 111.3 | 139.3 | 149.9 |
| 42.5° | 2406.8 | 1724.0 | 182.6 | 94.6 | 86.0 | 81.9 | 82.6 | 92.2 | 105.5 | 130.8 | 138.6 |
| 45° | 2640.0 | 1782.8 | 143.7 | 93.9 | 81.9 | 80.6 | 81.9 | 91.2 | 100.0 | 112.3 | 119.5 |
| 47.5° | 2817.2 | 1851.0 | 115.4 | 89.4 | 80.9 | 80.6 | 78.9 | 85.3 | 90.8 | 93.9 | 98.7 |
| 50° | 2946.9 | 1835.7 | 95.6 | 82.6 | 77.5 | 79.5 | 76.5 | 77.5 | 78.9 | 77.2 | 82.6 |
| 52.5° | 3026.5 | 1780.4 | 79.5 | 74.4 | 73.4 | 75.1 | 71.4 | 68.3 | 65.9 | 64.5 | 67.9 |
| 55° | 3055.5 | 1669.4 | 67.6 | 63.8 | 66.2 | 66.9 | 63.8 | 58.4 | 54.3 | 52.2 | 55.0 |
| 57.5° | 3000.5 | 1500.4 | 58.7 | 52.9 | 58.4 | 58.4 | 54.3 | 48.5 | 43.7 | 40.3 | 43.0 |
| 60° | 2861.2 | 1313.7 | 52.2 | 44.0 | 49.8 | 50.2 | 45.4 | 39.3 | 35.5 | 32.1 | 33.8 |
| 62.5° | 2601.8 | 1110.2 | 45.7 | 38.2 | 43.0 | 43.4 | 37.6 | 31.7 | 29.0 | 25.3 | 26.6 |
| 65° | 2082.8 | 849.0 | 38.9 | 33.8 | 37.2 | 36.2 | 31.1 | 27.0 | 23.6 | 20.1 | 20.8 |
| 67.5° | 1351.9 | 524.0 | 33.8 | 30.7 | 31.4 | 30.4 | 26.3 | 23.6 | 19.8 | 17.1 | 17.4 |
| 70° | 605.3 | 225.7 | 29.7 | 27.7 | 27.3 | 25.6 | 22.2 | 21.8 | 19.5 | 17.1 | 17.1 |
| 72.5° | 186.7 | 85.0 | 25.6 | 24.9 | 23.6 | 21.5 | 19.5 | 20.8 | 19.1 | 16.4 | 16.0 |
| 75° | 73.7 | 38.9 | 21.2 | 21.2 | 20.5 | 17.8 | 17.4 | 18.8 | 17.8 | 15.0 | 14.3 |
| 77.5° | 38.6 | 24.6 | 17.4 | 18.1 | 17.8 | 13.7 | 15.7 | 17.1 | 16.4 | 12.6 | 10.6 |
| 80° | 22.9 | 15.0 | 13.0 | 14.7 | 14.3 | 9.6 | 11.9 | 10.9 | 7.9 | 3.8 | 1.0 |
| 82.5° | 12.6 | 6.8 | 5.8 | 8.5 | 8.5 | 3.4 | 6.1 | 5.5 | 3.1 | 0.0 | 0.0 |
| 85° | 6.1 | 4.8 | 4.4 | 4.8 | 3.4 | 1.0 | 3.1 | 3.1 | 1.7 | 0.0 | 0.0 |
| 87.5° | 3.1 | 2.7 | 2.0 | 1.7 | 1.4 | 0.0 | 1.0 | 1.4 | 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)