

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: P598008

Luminaire Tested: **PMM-SA2B-827-U-T2**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-8)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2B-827-U-T2
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7303 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
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

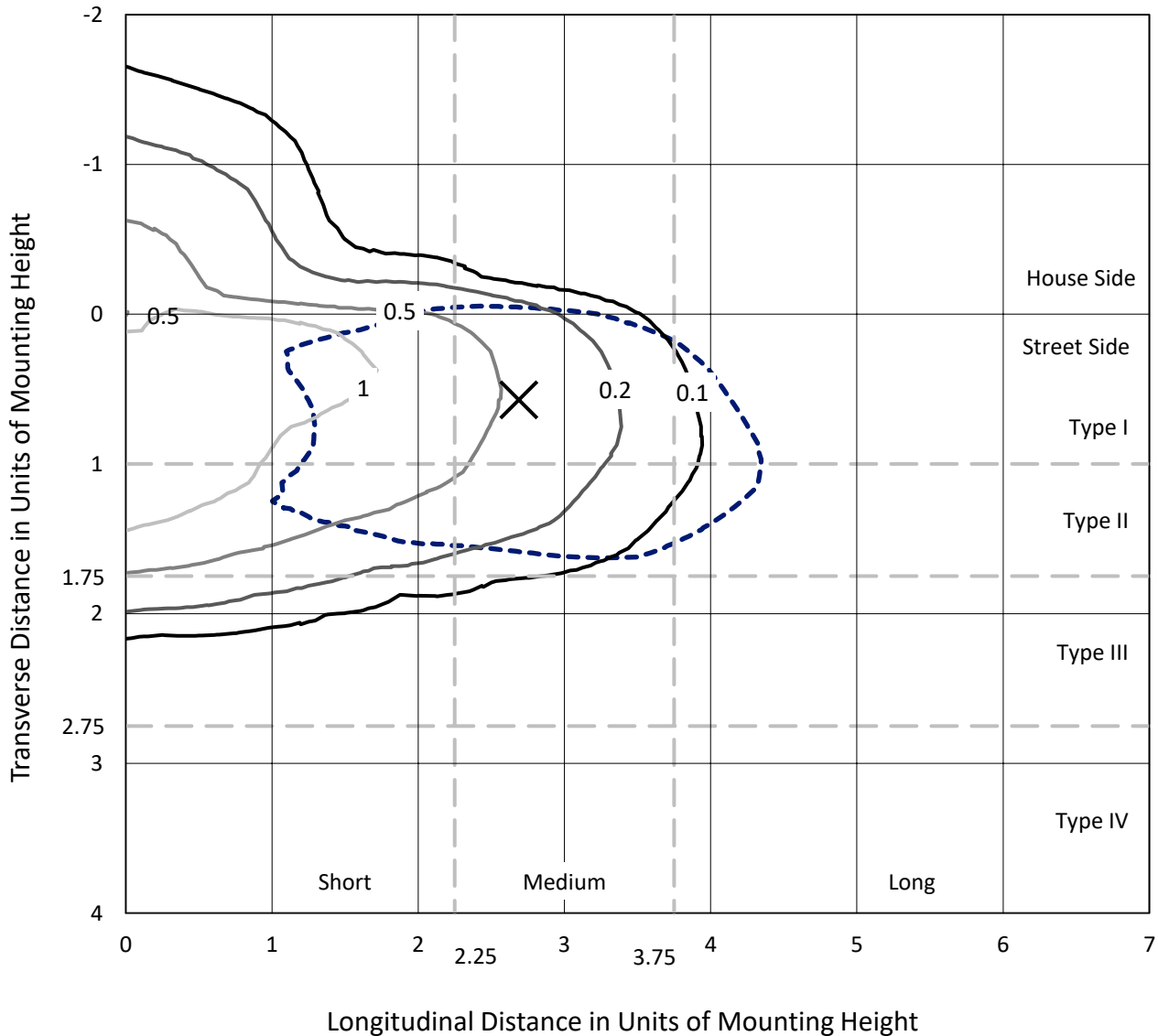


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Iso-Footcandle Lines of Horizontal Illumination

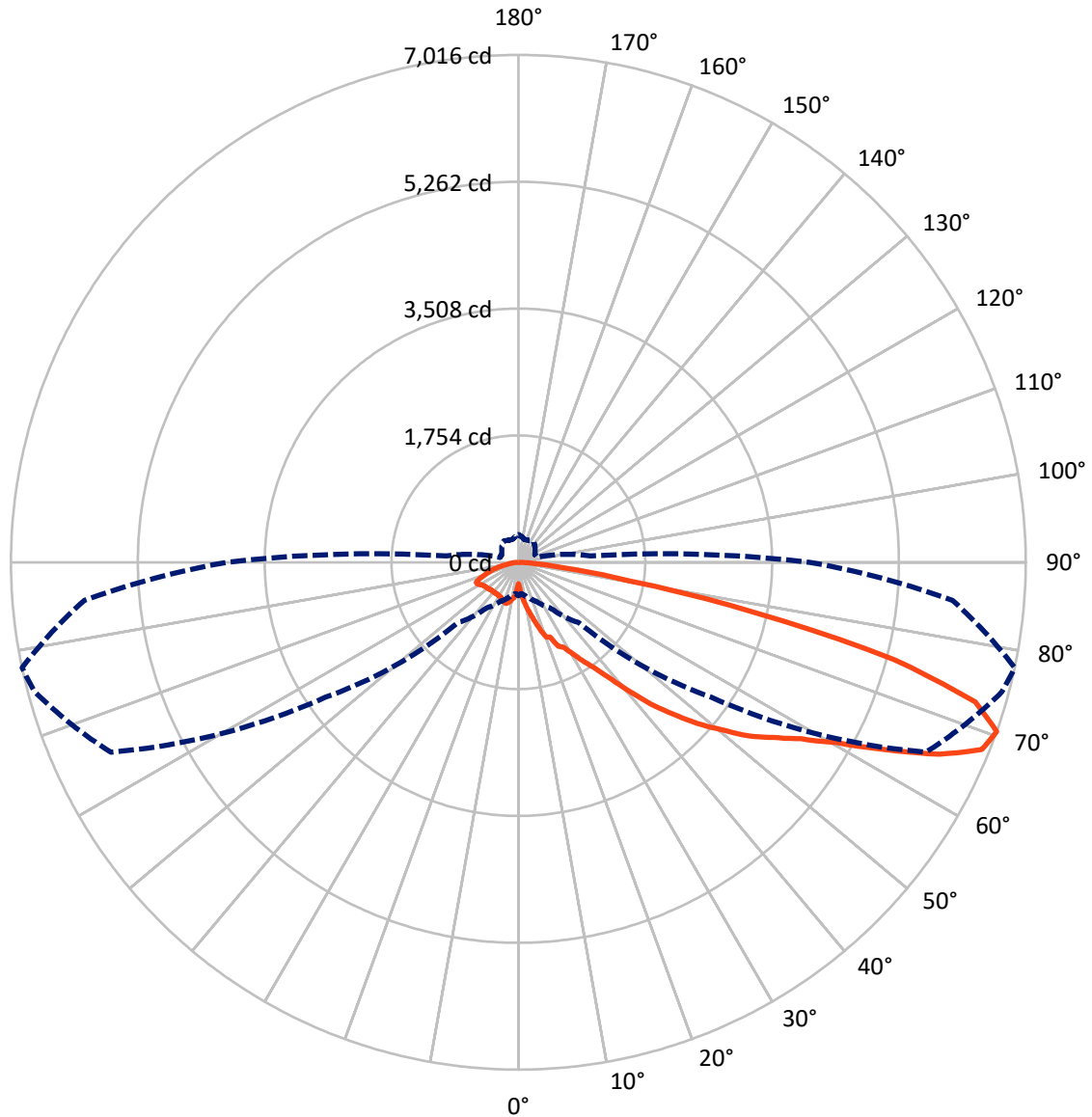
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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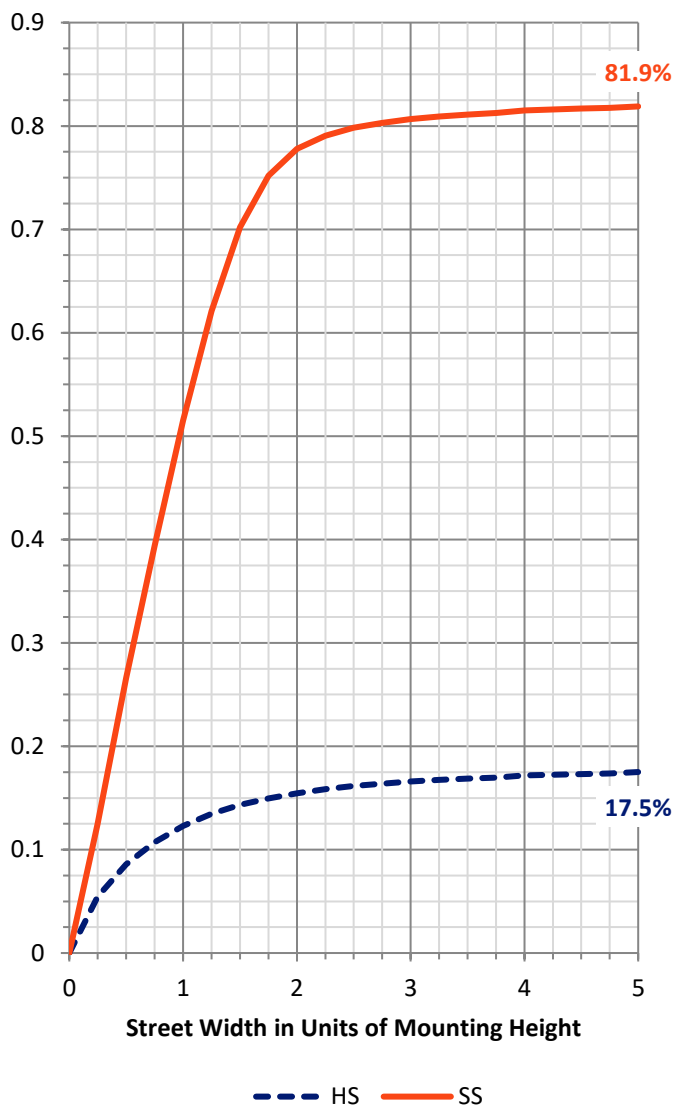
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1303.5 | 0.0 | 1303.5 |
| | % Fixture | 17.8 | 0.0 | 17.8 |
| Street Side | Lumens | 5999.5 | 0.0 | 5999.5 |
| | % Fixture | 82.2 | 0.0 | 82.2 |
| Total | Lumens | 7303.0 | 0.0 | 7303.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.0 | 0.6 |
| 10°-20° | 202.7 | 2.8 |
| 20°-30° | 390.2 | 5.3 |
| 30°-40° | 657.3 | 9.0 |
| 40°-50° | 1137.3 | 15.6 |
| 50°-60° | 1717.1 | 23.5 |
| 60°-70° | 1902.0 | 26.0 |
| 70°-80° | 1096.6 | 15.0 |
| 80°-90° | 153.8 | 2.1 |
| 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° | 7303.0 | 100.0 |
| 0°-180° | 7303.0 | 100.0 |

Coefficient of Utilization



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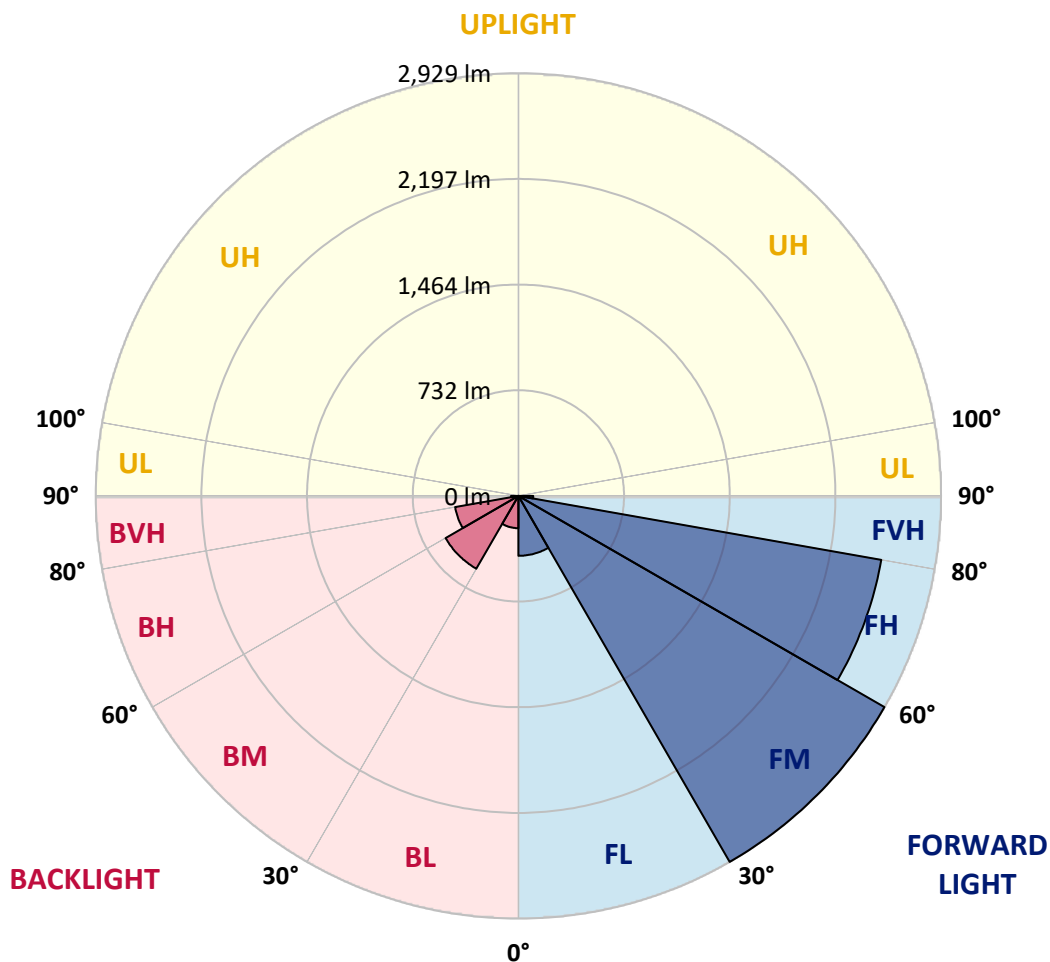
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 415.2 | 5.7 | | | |
| FM (30°-60°) | 2928.7 | 40.1 | | | |
| FH (60°-80°) | 2553.1 | 35.0 | | | G2/5000 |
| FVH (80°-90°) | 102.6 | 1.4 | | | G2/225 |
| BL (0°-30°) | 223.8 | 3.1 | B1/500 | | |
| BM (30°-60°) | 583.0 | 8.0 | B1/1000 | | |
| BH (60°-80°) | 445.5 | 6.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 51.2 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 |
| 2.5° | 383.3 | 369.6 | 348.9 | 357.4 | 367.8 | 369.0 | 365.6 | 346.8 | 340.4 | 354.7 | 358.9 |
| 5° | 537.0 | 513.9 | 499.9 | 495.3 | 479.8 | 447.5 | 470.7 | 458.8 | 461.2 | 454.2 | 467.9 |
| 7.5° | 666.4 | 650.9 | 630.2 | 624.4 | 588.8 | 563.5 | 579.4 | 574.2 | 549.2 | 539.5 | 555.0 |
| 10° | 732.2 | 715.1 | 716.1 | 703.6 | 694.1 | 696.6 | 688.7 | 665.8 | 647.2 | 634.2 | 596.7 |
| 12.5° | 771.8 | 776.0 | 798.9 | 792.5 | 828.1 | 857.3 | 835.1 | 801.3 | 742.5 | 730.7 | 693.5 |
| 15° | 865.8 | 881.7 | 860.4 | 870.1 | 885.3 | 941.3 | 932.2 | 924.9 | 862.8 | 839.7 | 771.2 |
| 17.5° | 962.7 | 965.7 | 933.4 | 928.3 | 964.8 | 993.1 | 1028.7 | 987.6 | 995.2 | 979.1 | 868.3 |
| 20° | 983.4 | 1004.4 | 958.1 | 926.1 | 1001.3 | 1057.3 | 1101.5 | 1057.9 | 1098.1 | 1102.4 | 948.3 |
| 22.5° | 1059.2 | 1033.9 | 973.0 | 941.6 | 1007.4 | 1076.2 | 1148.1 | 1172.4 | 1159.6 | 1123.7 | 1025.7 |
| 25° | 1111.8 | 1098.4 | 1036.3 | 1001.6 | 1026.6 | 1089.9 | 1216.0 | 1279.6 | 1290.8 | 1286.0 | 1099.3 |
| 27.5° | 1209.6 | 1216.3 | 1088.4 | 1098.1 | 1063.4 | 1069.2 | 1256.7 | 1421.8 | 1351.4 | 1331.9 | 1190.7 |
| 30° | 1363.9 | 1334.1 | 1190.7 | 1198.6 | 1141.1 | 1131.3 | 1342.9 | 1544.4 | 1481.4 | 1458.0 | 1265.9 |
| 32.5° | 1525.0 | 1527.7 | 1353.6 | 1286.0 | 1255.2 | 1245.5 | 1325.9 | 1608.7 | 1645.8 | 1615.4 | 1379.4 |
| 35° | 1752.1 | 1736.2 | 1530.1 | 1441.2 | 1330.1 | 1313.1 | 1447.3 | 1795.0 | 1863.2 | 1778.0 | 1514.3 |
| 37.5° | 2097.9 | 2050.1 | 1810.2 | 1604.7 | 1522.5 | 1503.0 | 1620.9 | 1962.1 | 2115.6 | 2009.6 | 1734.7 |
| 40° | 2375.6 | 2278.5 | 2060.5 | 1810.2 | 1671.1 | 1695.1 | 1744.2 | 2164.9 | 2377.4 | 2317.7 | 1938.7 |
| 42.5° | 2596.9 | 2510.8 | 2237.7 | 2061.7 | 1872.6 | 1842.8 | 1896.4 | 2416.1 | 2733.6 | 2675.2 | 2193.2 |
| 45° | 2809.1 | 2633.7 | 2436.8 | 2278.5 | 2096.7 | 2132.9 | 2125.0 | 2672.4 | 3170.5 | 2990.6 | 2418.2 |
| 47.5° | 3018.6 | 2853.9 | 2647.8 | 2434.9 | 2252.0 | 2477.6 | 2393.2 | 2863.0 | 3465.2 | 3331.8 | 2655.1 |
| 50° | 3287.7 | 3106.6 | 2871.8 | 2657.8 | 2548.2 | 2713.2 | 2571.6 | 3024.4 | 3795.2 | 3638.7 | 2878.5 |
| 52.5° | 3466.4 | 3290.1 | 3084.3 | 2931.5 | 2921.4 | 2857.8 | 2821.6 | 3228.6 | 4084.4 | 3989.4 | 3115.4 |
| 55° | 3445.4 | 3275.5 | 3182.4 | 3199.1 | 3323.3 | 3108.7 | 3079.2 | 3530.9 | 4386.1 | 4276.2 | 3371.1 |
| 57.5° | 3182.1 | 2996.6 | 3016.4 | 3115.7 | 3449.4 | 3549.2 | 3499.0 | 3854.0 | 4655.3 | 4605.3 | 3687.4 |
| 60° | 2478.8 | 2383.5 | 2544.5 | 2726.0 | 3280.7 | 3678.3 | 4031.5 | 4247.9 | 4986.5 | 5066.3 | 4184.3 |
| 62.5° | 1610.2 | 1482.9 | 1737.5 | 2045.6 | 2777.4 | 3593.1 | 4573.7 | 4995.0 | 5529.0 | 5710.2 | 4939.3 |
| 65° | 834.2 | 813.8 | 991.9 | 1275.0 | 1933.5 | 3063.6 | 4764.9 | 5778.7 | 6188.4 | 6399.4 | 5660.5 |
| 67.5° | 606.5 | 568.7 | 651.2 | 817.7 | 1180.3 | 2089.1 | 4402.6 | 6378.1 | 6717.9 | 6911.2 | 6079.8 |
| 70° | 461.8 | 433.8 | 496.9 | 600.1 | 770.9 | 1180.0 | 3249.9 | 6214.6 | 6922.2 | 7015.9 | 6024.0 |
| 72.5° | 345.8 | 321.8 | 376.9 | 473.1 | 594.0 | 664.3 | 1921.0 | 5109.8 | 6573.6 | 6605.5 | 5406.6 |
| 75° | 276.1 | 257.6 | 281.3 | 373.6 | 484.1 | 452.1 | 1020.5 | 3702.0 | 5340.9 | 5368.3 | 4129.8 |
| 77.5° | 226.5 | 210.7 | 220.4 | 280.1 | 376.6 | 340.1 | 506.3 | 2354.9 | 3390.9 | 3348.9 | 2323.5 |
| 80° | 184.8 | 171.1 | 175.7 | 202.5 | 286.8 | 253.9 | 284.4 | 1228.4 | 1617.5 | 1552.4 | 966.3 |
| 82.5° | 142.2 | 130.6 | 139.7 | 148.9 | 207.6 | 182.4 | 165.9 | 559.0 | 662.5 | 617.1 | 354.4 |
| 85° | 95.3 | 84.6 | 121.5 | 111.7 | 135.8 | 112.0 | 90.7 | 222.5 | 246.9 | 230.2 | 124.5 |
| 87.5° | 26.2 | 24.7 | 40.8 | 55.7 | 55.7 | 42.3 | 33.2 | 53.9 | 68.8 | 60.3 | 29.2 |
| 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° | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 | 297.7 |
| 2.5° | 360.8 | 354.1 | 336.4 | 334.9 | 339.2 | 339.8 | 337.0 | 330.6 | 327.3 | 345.5 | 342.8 |
| 5° | 464.6 | 440.8 | 426.5 | 413.4 | 395.2 | 382.1 | 385.4 | 394.6 | 397.6 | 411.3 | 412.8 |
| 7.5° | 545.3 | 513.9 | 482.5 | 440.5 | 412.8 | 395.2 | 408.6 | 418.3 | 425.9 | 445.4 | 453.3 |
| 10° | 580.3 | 546.2 | 501.7 | 457.6 | 450.0 | 453.0 | 445.4 | 447.8 | 459.7 | 460.6 | 464.6 |
| 12.5° | 645.4 | 606.8 | 526.7 | 486.8 | 484.7 | 491.1 | 488.3 | 499.6 | 507.8 | 530.0 | 520.6 |
| 15° | 707.8 | 658.5 | 545.6 | 504.8 | 495.9 | 508.7 | 523.6 | 542.5 | 560.2 | 581.2 | 570.5 |
| 17.5° | 783.6 | 709.4 | 546.5 | 496.5 | 498.1 | 525.5 | 541.0 | 551.3 | 604.0 | 632.9 | 618.3 |
| 20° | 831.4 | 714.5 | 526.1 | 476.2 | 498.1 | 522.7 | 544.3 | 555.6 | 614.7 | 658.2 | 668.3 |
| 22.5° | 874.7 | 716.4 | 510.2 | 465.2 | 479.2 | 511.8 | 544.3 | 569.3 | 607.1 | 648.8 | 650.3 |
| 25° | 898.4 | 714.8 | 489.9 | 466.1 | 478.9 | 495.0 | 523.9 | 546.8 | 574.8 | 632.9 | 634.5 |
| 27.5° | 959.3 | 695.0 | 469.8 | 469.8 | 476.5 | 477.1 | 513.9 | 527.3 | 531.3 | 584.2 | 593.7 |
| 30° | 977.0 | 699.3 | 467.3 | 469.1 | 472.5 | 466.4 | 482.5 | 491.4 | 497.2 | 542.8 | 544.3 |
| 32.5° | 1005.3 | 665.2 | 474.6 | 463.7 | 459.4 | 458.5 | 462.5 | 470.4 | 472.8 | 500.8 | 506.0 |
| 35° | 1039.7 | 651.5 | 477.1 | 462.1 | 453.6 | 449.1 | 460.9 | 451.2 | 458.8 | 491.7 | 495.3 |
| 37.5° | 1151.7 | 632.6 | 489.5 | 462.1 | 451.2 | 446.0 | 440.2 | 444.8 | 471.9 | 503.6 | 523.0 |
| 40° | 1223.3 | 638.4 | 486.5 | 466.7 | 443.0 | 438.1 | 428.4 | 445.1 | 487.1 | 543.1 | 557.7 |
| 42.5° | 1348.7 | 641.8 | 490.2 | 464.6 | 445.7 | 426.8 | 433.2 | 451.5 | 495.6 | 527.6 | 550.1 |
| 45° | 1478.4 | 652.1 | 487.7 | 458.2 | 439.6 | 448.4 | 439.6 | 456.1 | 477.1 | 478.0 | 495.0 |
| 47.5° | 1605.6 | 693.8 | 482.5 | 445.1 | 438.1 | 461.2 | 438.7 | 441.4 | 443.0 | 448.4 | 468.5 |
| 50° | 1755.1 | 738.3 | 475.2 | 426.8 | 440.2 | 461.8 | 442.1 | 428.7 | 427.1 | 445.1 | 467.6 |
| 52.5° | 1925.0 | 788.5 | 465.8 | 409.2 | 427.7 | 456.1 | 453.6 | 429.6 | 416.5 | 433.8 | 456.4 |
| 55° | 2125.0 | 845.7 | 454.8 | 391.5 | 414.0 | 456.7 | 460.0 | 423.2 | 416.8 | 435.7 | 459.7 |
| 57.5° | 2390.8 | 928.6 | 433.5 | 365.9 | 397.3 | 447.2 | 443.6 | 415.9 | 409.8 | 429.9 | 454.8 |
| 60° | 2844.4 | 1087.8 | 403.1 | 340.7 | 379.3 | 424.1 | 430.2 | 402.8 | 396.7 | 418.9 | 445.1 |
| 62.5° | 3451.8 | 1279.3 | 366.2 | 316.0 | 357.4 | 399.1 | 413.4 | 383.9 | 383.3 | 411.6 | 439.0 |
| 65° | 4017.1 | 1388.0 | 328.2 | 293.5 | 334.9 | 376.0 | 394.6 | 366.2 | 367.5 | 403.1 | 430.5 |
| 67.5° | 4252.2 | 1260.1 | 294.1 | 273.4 | 309.0 | 349.5 | 379.0 | 352.5 | 348.6 | 391.5 | 416.8 |
| 70° | 4031.5 | 1001.0 | 264.6 | 252.1 | 279.8 | 320.9 | 357.4 | 334.3 | 325.1 | 364.1 | 383.9 |
| 72.5° | 3567.2 | 834.5 | 236.9 | 227.1 | 254.2 | 290.7 | 328.2 | 309.6 | 297.7 | 327.6 | 345.2 |
| 75° | 2788.4 | 684.7 | 205.2 | 202.5 | 225.0 | 263.3 | 297.7 | 285.0 | 269.7 | 288.6 | 306.3 |
| 77.5° | 1587.7 | 433.2 | 172.3 | 174.1 | 190.3 | 230.8 | 261.2 | 251.2 | 235.6 | 243.6 | 264.0 |
| 80° | 635.4 | 218.6 | 138.5 | 139.7 | 153.4 | 189.7 | 216.5 | 212.8 | 196.7 | 203.1 | 217.1 |
| 82.5° | 237.5 | 120.0 | 102.3 | 102.9 | 116.6 | 150.1 | 184.8 | 183.0 | 167.7 | 163.2 | 171.1 |
| 85° | 94.4 | 59.4 | 62.7 | 65.5 | 78.5 | 108.1 | 148.3 | 131.5 | 113.6 | 99.6 | 104.4 |
| 87.5° | 22.5 | 18.9 | 21.9 | 23.1 | 25.6 | 33.8 | 54.2 | 43.5 | 44.8 | 35.9 | 26.8 |
| 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)