

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P367114

Luminaire Tested: **PMM-SA1D-830-U-SL4**

Issue Date: 12/2/2019

Report Generated By 670245982

Test Information

Test Method: LM-79-08
Report Number: P367114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-20)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1D-830-U-SL4
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5308 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

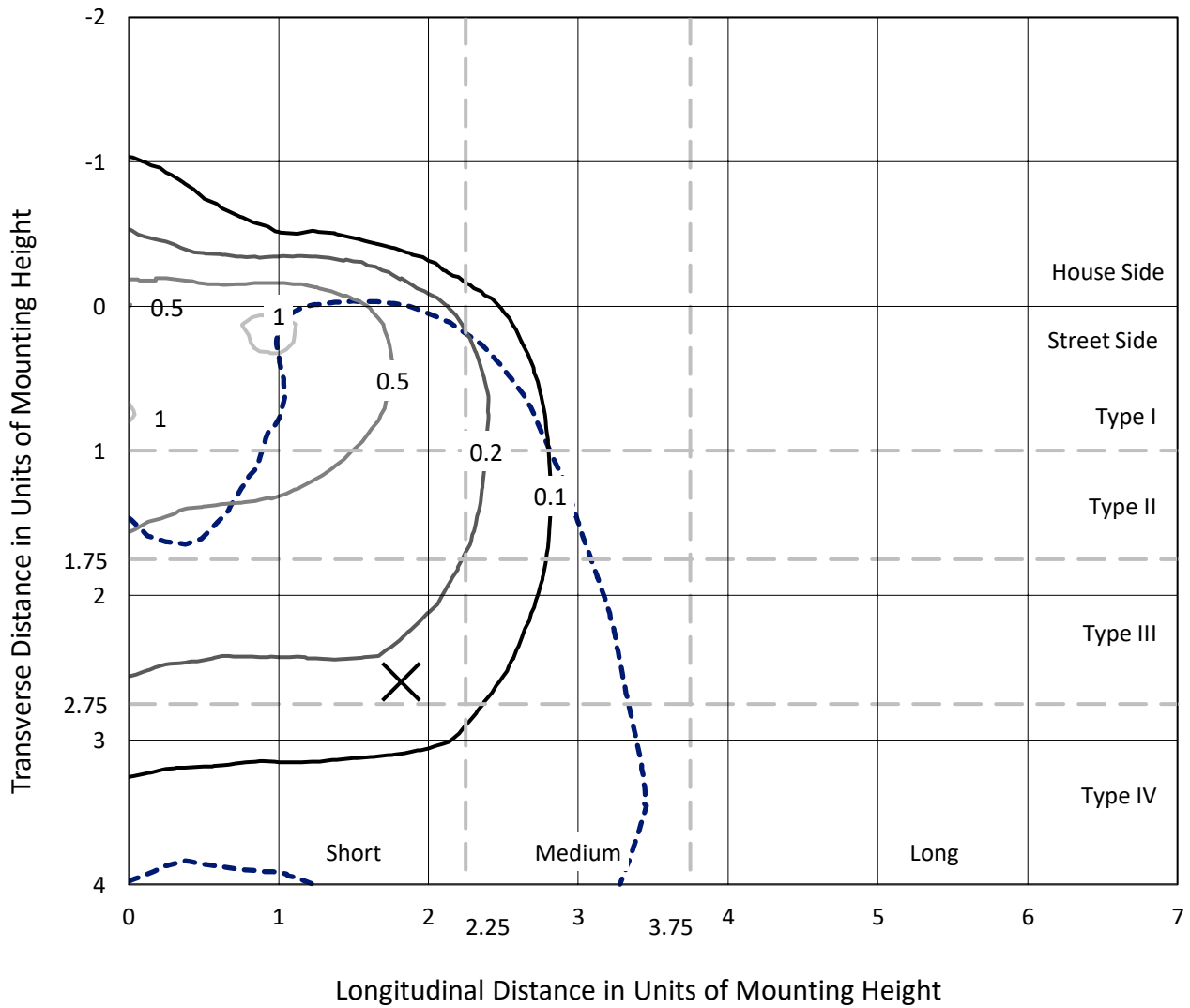
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

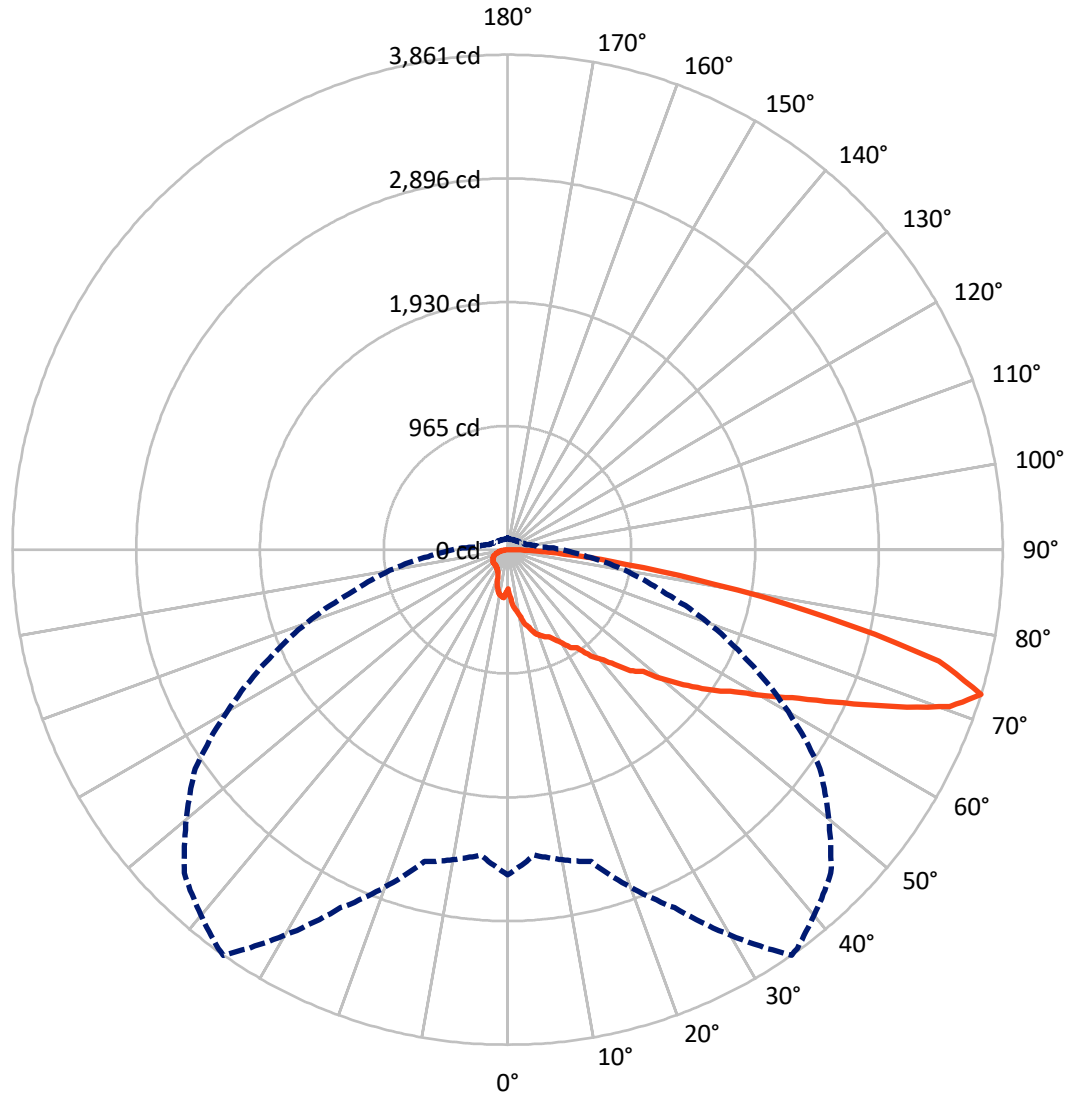
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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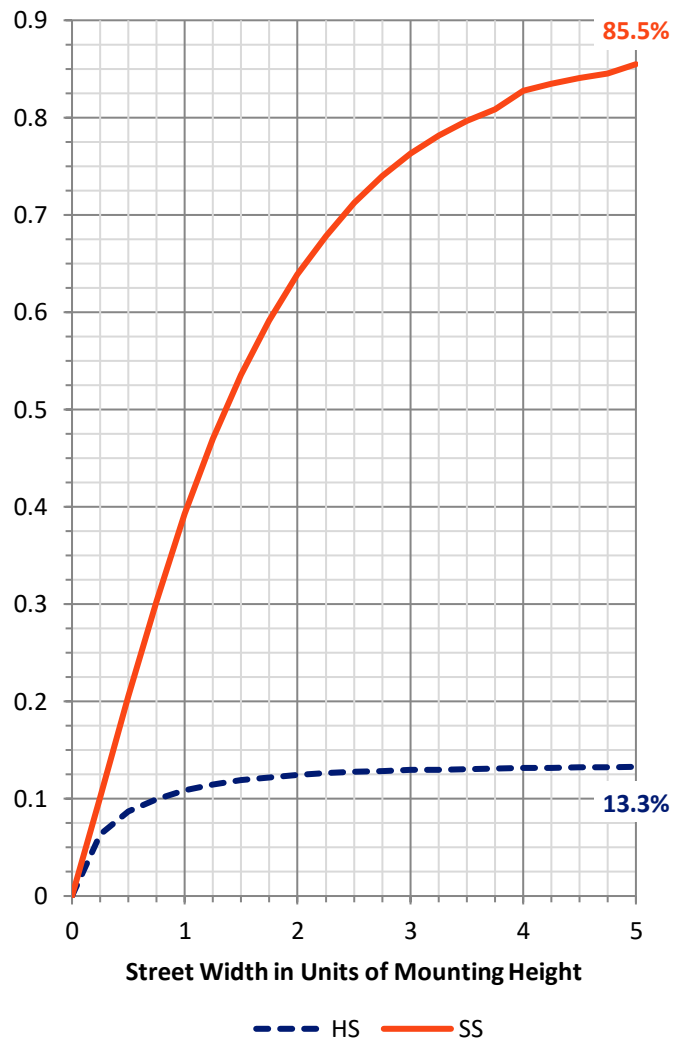
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 712.3 | 0.0 | 712.3 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 4595.7 | 0.0 | 4595.7 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 5308.0 | 0.0 | 5308.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.8 | 0.8 |
| 10°-20° | 143.6 | 2.7 |
| 20°-30° | 249.5 | 4.7 |
| 30°-40° | 417.0 | 7.9 |
| 40°-50° | 723.8 | 13.6 |
| 50°-60° | 1094.3 | 20.6 |
| 60°-70° | 1417.6 | 26.7 |
| 70°-80° | 1046.0 | 19.7 |
| 80°-90° | 175.3 | 3.3 |
| 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° | 5308.0 | 100.0 |
| 0°-180° | 5308.0 | 100.0 |

Coefficient of Utilization

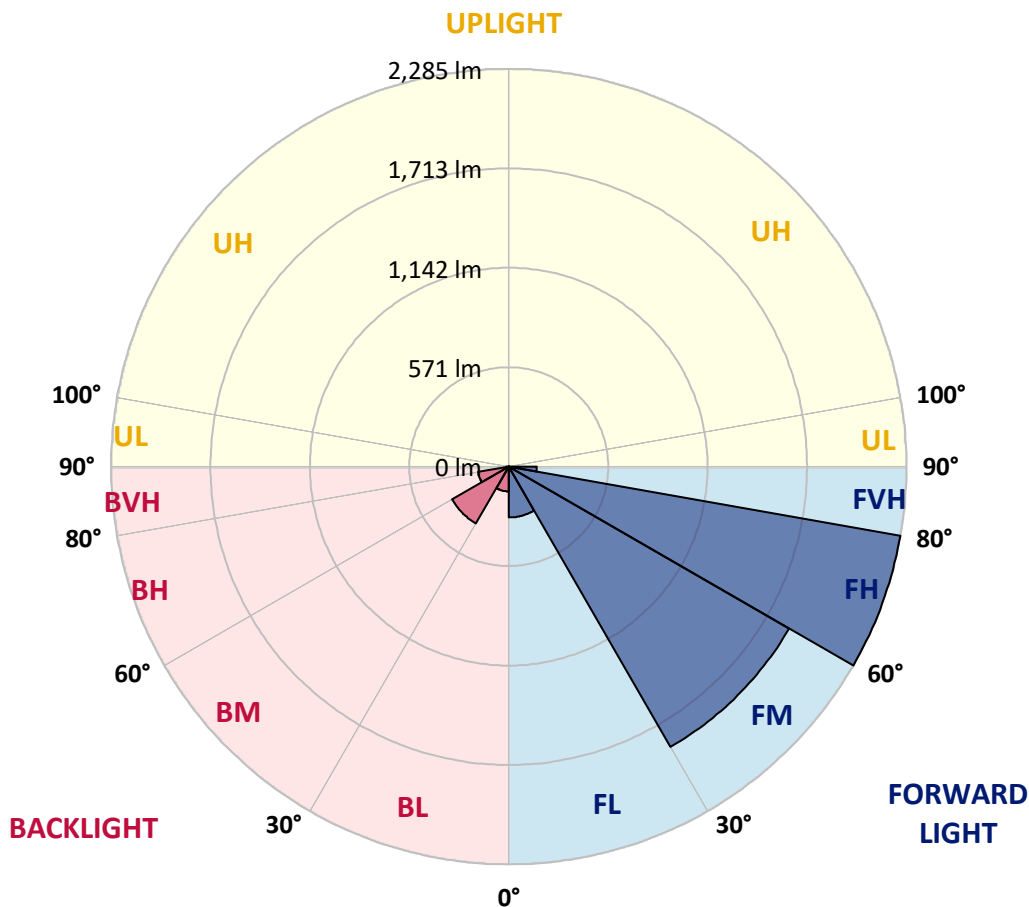


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 291.5 | 5.5 | | | |
| FM (30°-60°) | 1858.7 | 35.0 | | | |
| FH (60°-80°) | 2284.5 | 43.0 | | | G2/5000 |
| FVH (80°-90°) | 161.0 | 3.0 | | | G2/225 |
| BL (0°-30°) | 142.4 | 2.7 | B1/500 | | |
| BM (30°-60°) | 376.5 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 179.1 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 14.4 | 0.3 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 |
| 2.5° | 382.6 | 364.3 | 348.4 | 347.8 | 362.5 | 368.1 | 365.9 | 360.9 | 355.0 | 342.5 | 369.7 |
| 5° | 479.4 | 453.1 | 448.1 | 442.2 | 428.9 | 432.5 | 410.7 | 427.3 | 432.5 | 444.5 | 462.6 |
| 7.5° | 536.5 | 521.1 | 509.1 | 504.1 | 481.0 | 478.3 | 462.2 | 485.7 | 495.7 | 494.1 | 521.1 |
| 10° | 558.9 | 544.9 | 545.8 | 529.5 | 522.0 | 525.1 | 527.0 | 527.4 | 533.5 | 538.5 | 524.9 |
| 12.5° | 570.5 | 575.9 | 595.8 | 584.7 | 594.2 | 598.1 | 617.1 | 597.6 | 598.3 | 572.7 | 586.8 |
| 15° | 628.7 | 642.3 | 630.7 | 630.3 | 627.3 | 633.7 | 650.0 | 636.8 | 647.0 | 638.9 | 620.8 |
| 17.5° | 698.9 | 703.0 | 680.8 | 671.7 | 683.5 | 681.5 | 677.4 | 679.4 | 654.1 | 701.2 | 679.0 |
| 20° | 720.4 | 736.5 | 707.3 | 671.7 | 710.7 | 715.9 | 715.0 | 706.2 | 662.7 | 730.6 | 709.1 |
| 22.5° | 783.0 | 761.2 | 738.1 | 715.5 | 735.4 | 738.3 | 733.3 | 712.3 | 697.8 | 723.6 | 740.6 |
| 25° | 811.3 | 806.1 | 776.6 | 773.9 | 751.9 | 741.5 | 750.1 | 744.0 | 729.7 | 775.7 | 756.9 |
| 27.5° | 876.1 | 870.0 | 802.2 | 830.1 | 798.1 | 795.4 | 749.9 | 770.3 | 784.6 | 781.2 | 809.2 |
| 30° | 949.5 | 956.5 | 857.5 | 885.4 | 848.4 | 843.5 | 797.7 | 823.5 | 833.3 | 836.4 | 871.5 |
| 32.5° | 1031.0 | 1050.3 | 952.0 | 929.1 | 909.4 | 912.8 | 874.0 | 826.9 | 864.7 | 938.8 | 954.0 |
| 35° | 1119.4 | 1127.3 | 1024.2 | 989.8 | 938.4 | 934.8 | 935.4 | 941.3 | 979.6 | 1064.1 | 1075.9 |
| 37.5° | 1282.7 | 1246.0 | 1155.6 | 1068.4 | 1051.2 | 1017.4 | 1040.3 | 1058.5 | 1096.7 | 1226.3 | 1275.7 |
| 40° | 1383.3 | 1356.1 | 1218.4 | 1167.9 | 1120.3 | 1123.5 | 1166.3 | 1166.1 | 1256.5 | 1390.1 | 1465.6 |
| 42.5° | 1476.4 | 1446.8 | 1316.9 | 1266.2 | 1221.1 | 1232.2 | 1244.5 | 1266.0 | 1439.3 | 1654.7 | 1689.2 |
| 45° | 1551.4 | 1486.4 | 1393.1 | 1381.7 | 1344.6 | 1329.9 | 1381.7 | 1416.2 | 1657.9 | 1868.8 | 1888.8 |
| 47.5° | 1602.4 | 1548.9 | 1457.6 | 1447.7 | 1420.3 | 1456.3 | 1597.9 | 1620.1 | 1827.4 | 2083.8 | 2082.2 |
| 50° | 1679.9 | 1606.7 | 1524.2 | 1519.0 | 1596.3 | 1615.5 | 1788.2 | 1785.9 | 1992.3 | 2262.3 | 2225.0 |
| 52.5° | 1769.1 | 1676.9 | 1587.5 | 1643.4 | 1761.2 | 1770.7 | 1920.5 | 1981.4 | 2172.4 | 2434.5 | 2336.9 |
| 55° | 1871.8 | 1768.7 | 1682.1 | 1756.9 | 1932.3 | 1904.2 | 2055.7 | 2204.6 | 2397.8 | 2616.0 | 2417.8 |
| 57.5° | 1998.9 | 1873.8 | 1803.8 | 1917.5 | 2088.4 | 2113.3 | 2249.4 | 2436.8 | 2579.3 | 2728.8 | 2476.7 |
| 60° | 2133.0 | 1986.2 | 1922.1 | 2030.4 | 2307.0 | 2335.5 | 2468.7 | 2629.8 | 2782.7 | 2835.1 | 2465.6 |
| 62.5° | 2261.0 | 2102.2 | 2044.2 | 2177.8 | 2549.4 | 2620.1 | 2718.4 | 2821.0 | 2952.0 | 2860.9 | 2331.2 |
| 65° | 2403.5 | 2244.5 | 2208.0 | 2408.5 | 2878.1 | 2948.3 | 3076.8 | 3046.0 | 3010.0 | 2769.4 | 2109.0 |
| 67.5° | 2554.4 | 2392.8 | 2399.6 | 2676.0 | 3265.7 | 3277.8 | 3475.1 | 3270.3 | 2941.8 | 2527.0 | 1735.8 |
| 70° | 2635.5 | 2470.1 | 2540.1 | 2961.3 | 3660.2 | 3643.0 | 3683.3 | 3330.5 | 2663.8 | 1997.5 | 1196.4 |
| 72.5° | 2537.2 | 2389.7 | 2517.9 | 3081.3 | 3860.9 | 3842.3 | 3566.4 | 2972.8 | 2082.7 | 1242.2 | 620.3 |
| 75° | 2148.2 | 2005.9 | 2202.1 | 2746.7 | 3475.8 | 3493.0 | 3035.1 | 2210.7 | 1192.3 | 499.5 | 257.6 |
| 77.5° | 1459.7 | 1386.3 | 1554.4 | 2047.4 | 2581.8 | 2641.4 | 2251.9 | 1292.7 | 500.7 | 206.8 | 155.9 |
| 80° | 771.4 | 736.5 | 860.7 | 1179.4 | 1634.8 | 1679.2 | 1324.2 | 643.9 | 256.5 | 133.9 | 111.2 |
| 82.5° | 419.1 | 404.4 | 471.0 | 606.5 | 928.9 | 967.6 | 686.7 | 427.7 | 172.9 | 83.8 | 68.0 |
| 85° | 281.6 | 275.9 | 320.1 | 325.8 | 439.3 | 452.0 | 359.8 | 329.4 | 103.8 | 41.0 | 44.9 |
| 87.5° | 140.9 | 135.3 | 168.6 | 148.8 | 167.6 | 167.9 | 164.9 | 210.2 | 26.3 | 13.6 | 8.2 |
| 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° | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 | 306.8 |
| 2.5° | 370.2 | 362.3 | 334.8 | 334.6 | 338.7 | 336.0 | 338.0 | 326.9 | 322.2 | 343.9 | 342.8 |
| 5° | 460.1 | 436.3 | 413.5 | 405.5 | 396.2 | 376.1 | 377.2 | 377.4 | 374.0 | 387.0 | 387.9 |
| 7.5° | 512.9 | 484.4 | 463.3 | 421.2 | 388.1 | 362.3 | 365.7 | 369.5 | 365.7 | 382.9 | 389.2 |
| 10° | 520.6 | 498.0 | 472.8 | 425.9 | 403.9 | 380.6 | 357.0 | 336.2 | 333.7 | 325.8 | 328.3 |
| 12.5° | 566.4 | 547.6 | 495.0 | 443.6 | 418.0 | 382.2 | 339.1 | 315.4 | 295.4 | 298.8 | 292.5 |
| 15° | 604.0 | 590.6 | 527.6 | 460.4 | 399.2 | 354.8 | 309.0 | 276.4 | 258.5 | 256.5 | 250.1 |
| 17.5° | 655.0 | 635.9 | 530.6 | 448.8 | 374.9 | 321.7 | 270.1 | 233.1 | 225.4 | 222.2 | 219.1 |
| 20° | 679.4 | 645.2 | 519.9 | 412.6 | 346.6 | 282.3 | 231.5 | 199.8 | 197.6 | 203.2 | 202.1 |
| 22.5° | 700.7 | 652.9 | 510.4 | 390.6 | 302.4 | 242.4 | 205.3 | 184.4 | 181.9 | 189.2 | 190.5 |
| 25° | 713.2 | 674.9 | 500.0 | 368.1 | 275.0 | 212.7 | 185.5 | 173.8 | 174.2 | 183.7 | 182.6 |
| 27.5° | 769.4 | 682.6 | 473.7 | 341.6 | 243.5 | 190.8 | 176.0 | 169.9 | 167.4 | 180.6 | 181.7 |
| 30° | 804.7 | 732.9 | 467.8 | 313.5 | 220.2 | 174.7 | 167.4 | 164.9 | 164.5 | 180.3 | 181.5 |
| 32.5° | 870.4 | 749.7 | 470.5 | 283.0 | 199.1 | 169.7 | 161.1 | 160.9 | 165.4 | 180.6 | 182.4 |
| 35° | 961.5 | 820.3 | 457.4 | 265.5 | 187.6 | 162.0 | 156.1 | 157.9 | 165.6 | 182.1 | 184.6 |
| 37.5° | 1139.1 | 887.0 | 461.5 | 249.2 | 183.7 | 159.5 | 154.7 | 155.9 | 168.3 | 186.2 | 193.0 |
| 40° | 1279.8 | 1007.7 | 455.1 | 241.1 | 178.5 | 159.0 | 151.8 | 156.3 | 168.1 | 188.5 | 194.6 |
| 42.5° | 1483.7 | 1104.0 | 455.8 | 232.9 | 178.3 | 157.2 | 151.3 | 156.8 | 167.6 | 186.5 | 194.8 |
| 45° | 1658.6 | 1190.3 | 465.6 | 228.1 | 176.0 | 160.2 | 150.7 | 157.5 | 164.7 | 179.2 | 188.5 |
| 47.5° | 1802.0 | 1286.6 | 475.5 | 223.6 | 175.1 | 162.9 | 150.0 | 152.7 | 159.7 | 171.0 | 179.4 |
| 50° | 1918.9 | 1354.3 | 488.2 | 222.7 | 175.1 | 161.5 | 148.2 | 147.9 | 153.8 | 162.9 | 170.8 |
| 52.5° | 2010.0 | 1402.1 | 496.8 | 223.8 | 175.1 | 156.3 | 145.9 | 144.1 | 147.7 | 154.3 | 162.2 |
| 55° | 2075.9 | 1416.9 | 489.8 | 226.8 | 174.9 | 151.6 | 141.8 | 140.2 | 142.0 | 146.6 | 154.1 |
| 57.5° | 2102.4 | 1378.1 | 447.9 | 221.6 | 174.9 | 148.2 | 136.8 | 135.0 | 136.8 | 140.2 | 147.7 |
| 60° | 2036.0 | 1253.5 | 387.4 | 208.2 | 171.5 | 143.6 | 131.2 | 130.0 | 132.8 | 135.7 | 143.0 |
| 62.5° | 1869.5 | 1087.9 | 322.8 | 192.3 | 164.5 | 139.8 | 125.7 | 126.0 | 130.3 | 134.3 | 141.6 |
| 65° | 1610.8 | 887.6 | 269.1 | 176.3 | 155.6 | 133.7 | 120.1 | 121.7 | 127.8 | 133.2 | 140.5 |
| 67.5° | 1267.6 | 657.7 | 226.6 | 160.6 | 143.2 | 123.7 | 113.7 | 114.2 | 118.5 | 123.7 | 130.7 |
| 70° | 847.3 | 418.4 | 186.2 | 142.3 | 126.9 | 110.8 | 104.0 | 102.4 | 101.3 | 105.8 | 111.9 |
| 72.5° | 429.8 | 247.2 | 152.9 | 121.7 | 109.2 | 96.7 | 91.5 | 87.4 | 84.3 | 87.0 | 91.8 |
| 75° | 225.2 | 172.9 | 123.5 | 101.0 | 90.2 | 82.2 | 78.4 | 72.9 | 70.7 | 72.3 | 75.7 |
| 77.5° | 159.3 | 135.3 | 99.9 | 80.0 | 73.4 | 65.2 | 65.9 | 60.3 | 58.5 | 59.4 | 63.0 |
| 80° | 122.3 | 107.2 | 76.8 | 60.5 | 56.6 | 48.7 | 51.0 | 47.6 | 45.3 | 44.9 | 47.6 |
| 82.5° | 83.4 | 80.7 | 54.6 | 42.4 | 39.6 | 34.0 | 37.2 | 35.8 | 32.9 | 31.0 | 32.4 |
| 85° | 56.2 | 53.5 | 33.3 | 24.5 | 23.3 | 17.7 | 22.7 | 21.7 | 19.3 | 16.5 | 16.8 |
| 87.5° | 9.7 | 17.9 | 9.5 | 6.1 | 5.7 | 2.0 | 5.2 | 5.0 | 4.5 | 2.3 | 1.8 |
| 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)