

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: P366635

Luminaire Tested: **PMM-SA1A-730-U-T2-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-9)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1A-730-U-T2-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2776 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

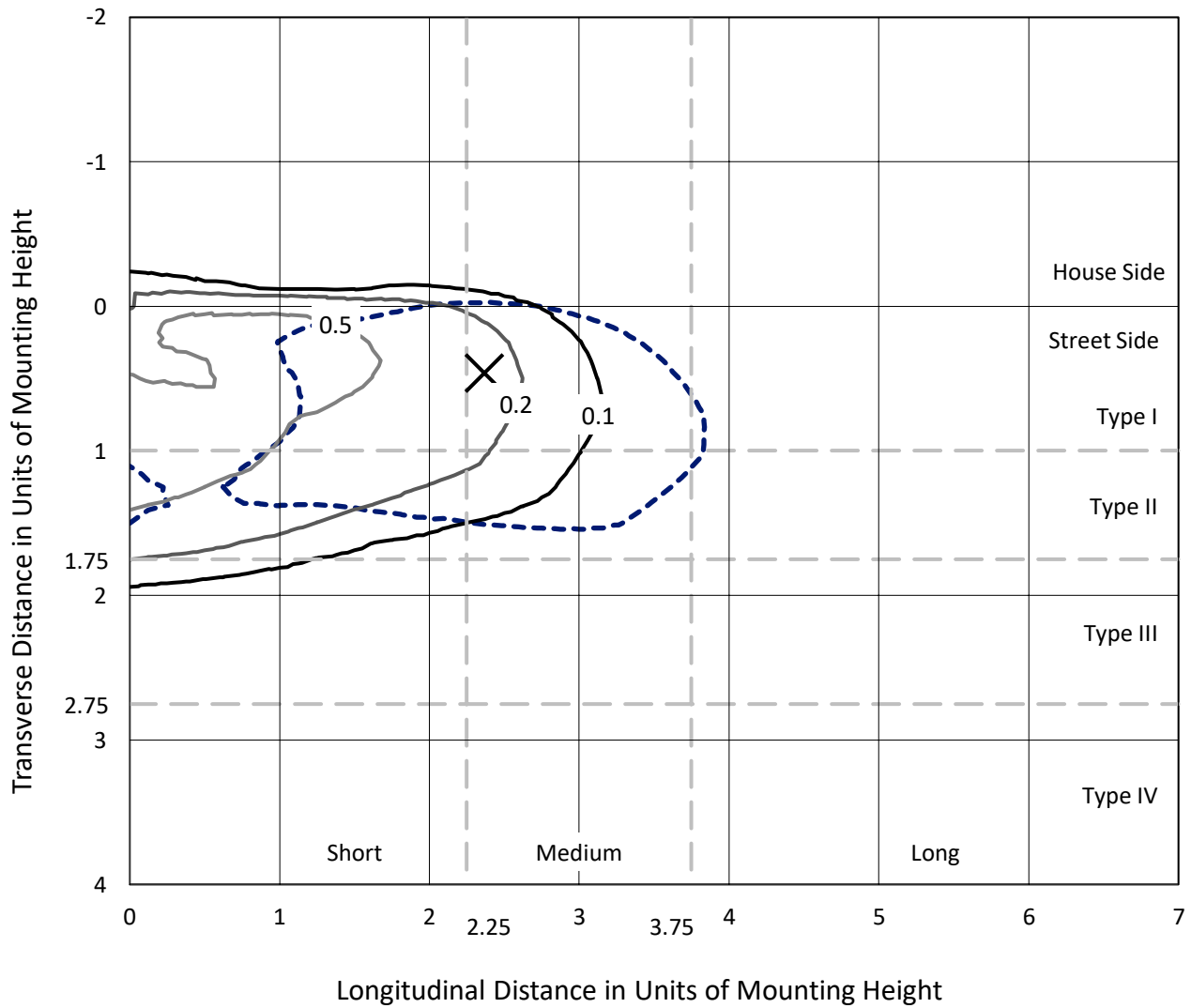
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

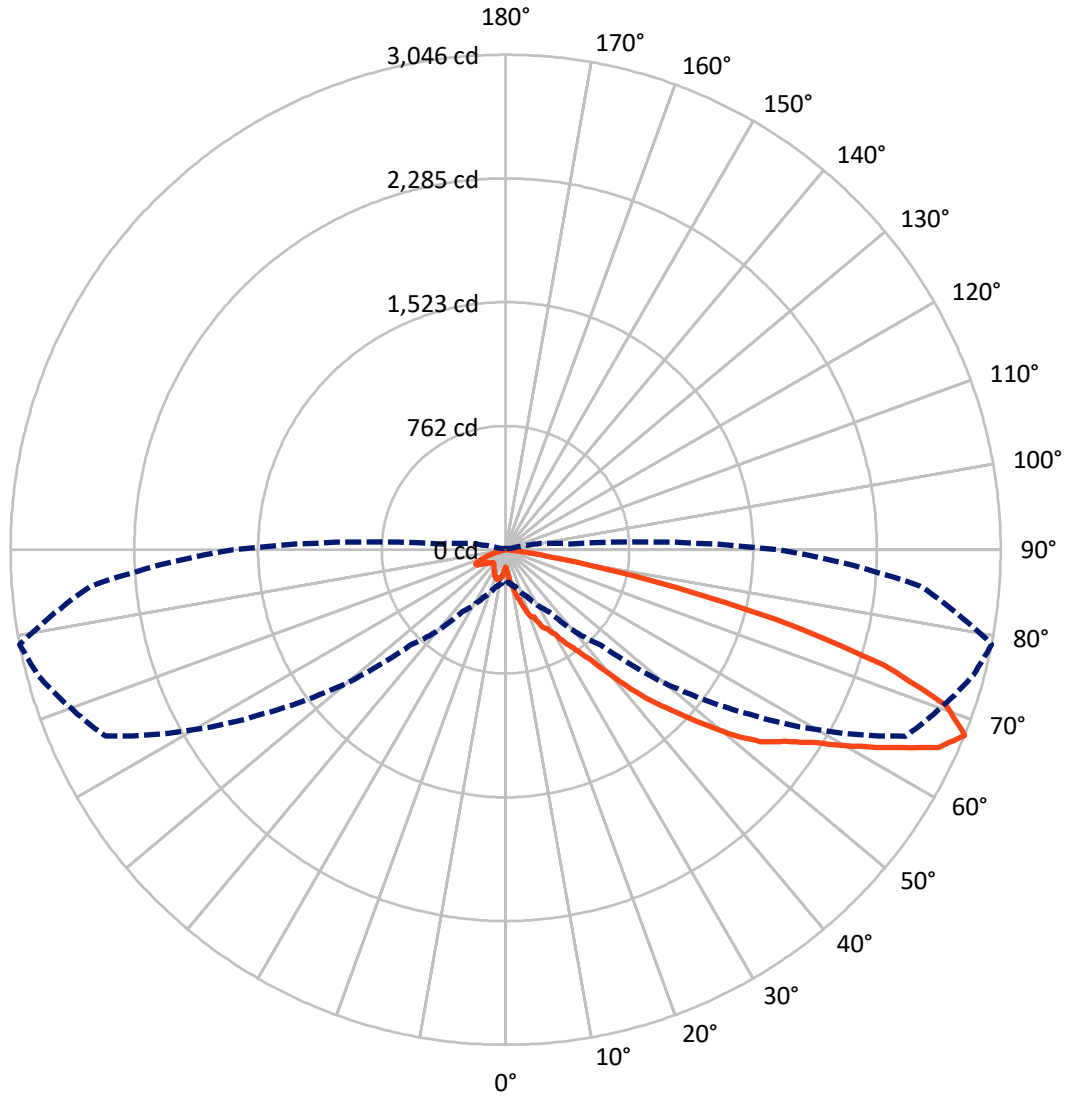
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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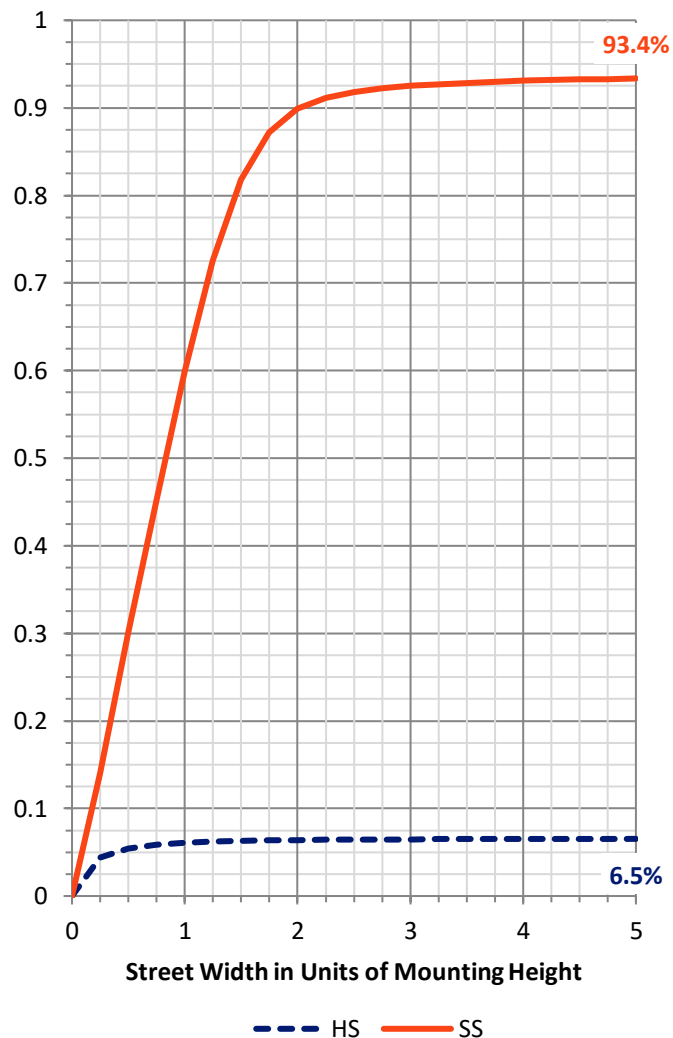
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 182.4 | 0.0 | 182.4 |
| | % Fixture | 6.6 | 0.0 | 6.6 |
| Street Side | Lumens | 2593.6 | 0.0 | 2593.6 |
| | % Fixture | 93.4 | 0.0 | 93.4 |
| Total | Lumens | 2776.0 | 0.0 | 2776.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 15.6 | 0.6 |
| 10°-20° | 62.0 | 2.2 |
| 20°-30° | 119.7 | 4.3 |
| 30°-40° | 235.1 | 8.5 |
| 40°-50° | 470.9 | 17.0 |
| 50°-60° | 752.7 | 27.1 |
| 60°-70° | 757.3 | 27.3 |
| 70°-80° | 341.6 | 12.3 |
| 80°-90° | 21.1 | 0.8 |
| 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° | 2776.0 | 100.0 |
| 0°-180° | 2776.0 | 100.0 |

Coefficient of Utilization

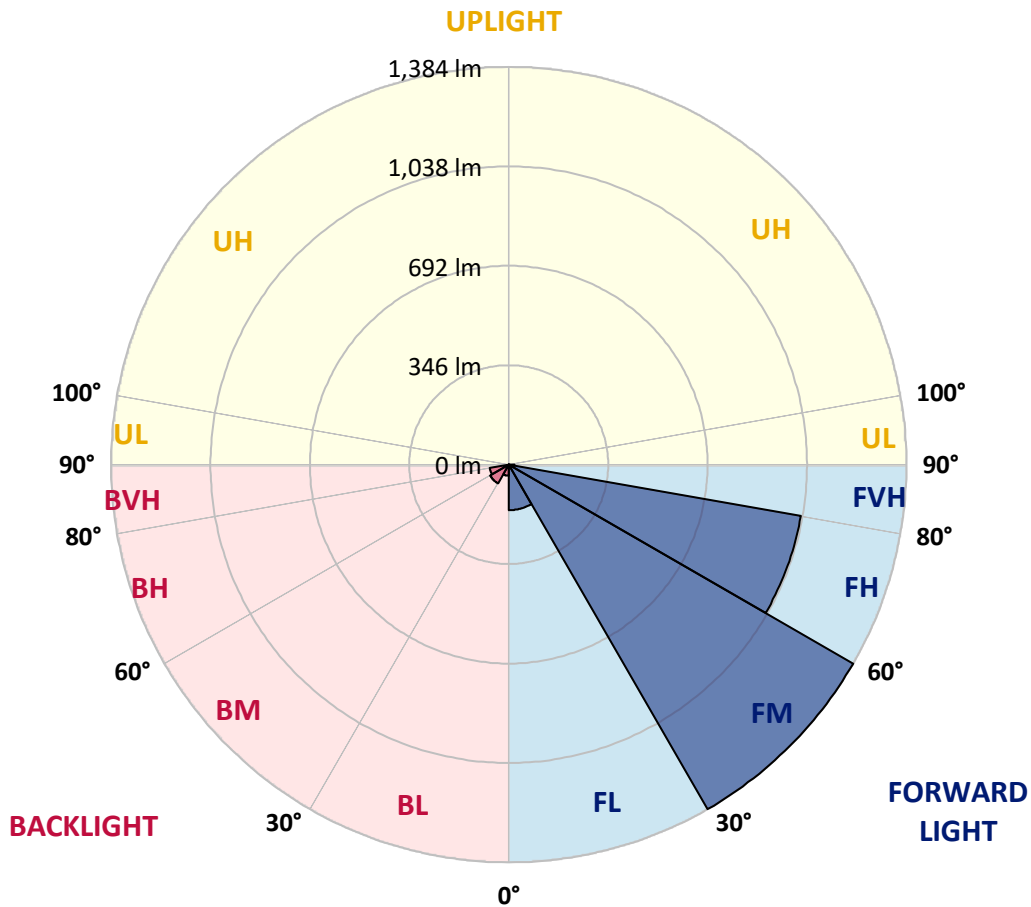


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 158.5 | 5.7 | | | |
| FM (30°-60°) | 1383.6 | 49.8 | | | |
| FH (60°-80°) | 1031.7 | 37.2 | | | G1/1800 |
| FVH (80°-90°) | 19.8 | 0.7 | | | G1/100 |
| BL (0°-30°) | 38.8 | 1.4 | B0/110 | | |
| BM (30°-60°) | 75.0 | 2.7 | B0/220 | | |
| BH (60°-80°) | 67.2 | 2.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 |
| 2.5° | 144.5 | 139.3 | 130.8 | 135.6 | 135.3 | 137.7 | 133.1 | 128.1 | 120.0 | 128.1 | 128.7 |
| 5° | 208.0 | 198.3 | 192.2 | 191.0 | 184.2 | 178.0 | 176.6 | 171.4 | 167.4 | 160.2 | 166.6 |
| 7.5° | 259.1 | 254.6 | 243.8 | 242.5 | 226.0 | 216.8 | 219.7 | 217.5 | 202.3 | 194.8 | 201.1 |
| 10° | 280.8 | 273.2 | 274.7 | 273.2 | 266.1 | 268.7 | 262.7 | 255.9 | 243.8 | 231.4 | 215.8 |
| 12.5° | 289.2 | 288.0 | 300.7 | 299.2 | 315.7 | 335.6 | 322.3 | 310.8 | 282.8 | 279.7 | 258.5 |
| 15° | 307.3 | 314.9 | 313.1 | 319.5 | 330.1 | 363.9 | 363.6 | 366.3 | 336.7 | 320.7 | 290.0 |
| 17.5° | 323.3 | 329.0 | 319.8 | 327.2 | 355.9 | 376.4 | 403.8 | 393.1 | 396.5 | 380.3 | 332.7 |
| 20° | 316.5 | 322.9 | 313.7 | 309.3 | 359.9 | 398.8 | 435.4 | 427.6 | 447.8 | 437.7 | 372.0 |
| 22.5° | 359.5 | 347.4 | 324.3 | 309.9 | 347.7 | 398.3 | 446.5 | 479.1 | 475.6 | 450.8 | 408.6 |
| 25° | 412.6 | 405.2 | 377.5 | 352.1 | 355.5 | 395.6 | 481.7 | 529.6 | 540.0 | 529.5 | 443.3 |
| 27.5° | 484.2 | 482.5 | 425.9 | 414.9 | 382.1 | 383.5 | 487.2 | 593.3 | 569.6 | 553.0 | 483.9 |
| 30° | 577.7 | 564.4 | 497.2 | 482.8 | 434.4 | 410.7 | 520.9 | 648.2 | 630.8 | 608.3 | 522.0 |
| 32.5° | 678.2 | 680.2 | 594.5 | 547.1 | 508.2 | 480.0 | 507.6 | 673.9 | 706.5 | 688.3 | 569.6 |
| 35° | 792.4 | 801.3 | 696.4 | 640.7 | 565.1 | 523.7 | 564.8 | 752.9 | 811.4 | 763.5 | 633.4 |
| 37.5° | 968.2 | 967.9 | 845.5 | 734.5 | 679.6 | 634.6 | 660.2 | 824.7 | 940.2 | 872.9 | 747.8 |
| 40° | 1122.9 | 1089.3 | 975.4 | 847.9 | 762.2 | 750.0 | 731.5 | 922.9 | 1077.8 | 1037.2 | 849.6 |
| 42.5° | 1238.5 | 1214.7 | 1077.2 | 978.0 | 871.8 | 832.9 | 826.4 | 1066.9 | 1280.8 | 1224.1 | 994.8 |
| 45° | 1376.6 | 1298.9 | 1197.6 | 1108.2 | 1000.0 | 988.7 | 973.3 | 1213.1 | 1517.1 | 1389.2 | 1121.1 |
| 47.5° | 1500.4 | 1427.3 | 1331.5 | 1216.7 | 1092.5 | 1185.8 | 1126.4 | 1341.4 | 1689.0 | 1568.8 | 1260.3 |
| 50° | 1604.7 | 1526.9 | 1419.6 | 1332.3 | 1279.0 | 1342.4 | 1243.4 | 1447.2 | 1874.6 | 1777.3 | 1390.6 |
| 52.5° | 1657.8 | 1569.8 | 1486.8 | 1432.8 | 1465.4 | 1451.2 | 1401.9 | 1575.3 | 2032.8 | 1960.0 | 1505.9 |
| 55° | 1614.1 | 1528.1 | 1493.4 | 1520.2 | 1619.2 | 1578.0 | 1582.0 | 1773.7 | 2182.2 | 2081.8 | 1606.3 |
| 57.5° | 1420.7 | 1342.2 | 1357.7 | 1431.0 | 1620.7 | 1728.5 | 1787.4 | 1966.6 | 2302.0 | 2233.6 | 1761.2 |
| 60° | 1074.7 | 1011.5 | 1068.7 | 1198.8 | 1468.3 | 1698.5 | 1933.0 | 2159.4 | 2473.2 | 2451.8 | 1995.6 |
| 62.5° | 656.3 | 622.1 | 703.2 | 865.4 | 1170.1 | 1551.4 | 2018.0 | 2416.5 | 2656.4 | 2679.2 | 2244.3 |
| 65° | 334.8 | 319.4 | 387.0 | 529.6 | 790.5 | 1274.4 | 1956.6 | 2576.2 | 2845.7 | 2929.9 | 2481.3 |
| 67.5° | 210.9 | 200.9 | 237.0 | 323.0 | 466.4 | 831.2 | 1713.1 | 2715.9 | 2979.5 | 3046.0 | 2560.5 |
| 70° | 146.1 | 139.9 | 171.1 | 221.7 | 294.3 | 447.8 | 1272.0 | 2585.6 | 2873.4 | 2876.5 | 2369.0 |
| 72.5° | 92.7 | 87.8 | 118.3 | 164.2 | 217.1 | 231.2 | 729.2 | 2028.8 | 2459.6 | 2431.3 | 1918.5 |
| 75° | 60.1 | 57.7 | 75.1 | 120.3 | 166.8 | 142.6 | 360.4 | 1369.0 | 1763.6 | 1719.3 | 1274.3 |
| 77.5° | 43.2 | 41.6 | 50.3 | 80.3 | 118.7 | 99.8 | 161.6 | 815.9 | 1011.2 | 914.2 | 618.5 |
| 80° | 26.0 | 25.9 | 36.4 | 50.3 | 84.5 | 70.4 | 74.7 | 370.5 | 392.1 | 319.7 | 189.0 |
| 82.5° | 13.0 | 13.5 | 20.4 | 32.4 | 54.3 | 46.1 | 34.1 | 123.3 | 105.3 | 77.6 | 38.3 |
| 85° | 3.1 | 3.8 | 10.7 | 22.3 | 27.2 | 18.4 | 16.2 | 32.3 | 28.9 | 21.9 | 11.2 |
| 87.5° | 0.0 | 0.0 | 3.4 | 5.4 | 7.3 | 3.1 | 5.5 | 6.1 | 7.8 | 6.1 | 2.3 |
| 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° | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 |
| 2.5° | 128.8 | 127.0 | 115.8 | 112.9 | 112.6 | 109.4 | 110.2 | 107.1 | 107.3 | 114.2 | 114.2 |
| 5° | 164.2 | 153.5 | 142.8 | 133.3 | 126.9 | 117.7 | 114.3 | 112.9 | 111.7 | 114.5 | 116.1 |
| 7.5° | 192.8 | 177.1 | 157.8 | 137.1 | 118.0 | 104.8 | 103.0 | 99.6 | 98.4 | 101.2 | 103.3 |
| 10° | 205.5 | 185.9 | 159.5 | 129.3 | 111.4 | 100.7 | 91.8 | 87.1 | 86.2 | 86.0 | 86.8 |
| 12.5° | 232.4 | 208.1 | 161.3 | 126.4 | 107.0 | 95.2 | 85.1 | 77.1 | 69.8 | 70.5 | 69.8 |
| 15° | 254.0 | 225.3 | 161.3 | 119.4 | 96.3 | 84.5 | 66.7 | 62.7 | 61.7 | 63.4 | 62.0 |
| 17.5° | 286.6 | 242.2 | 153.2 | 106.8 | 87.1 | 65.6 | 58.9 | 58.6 | 60.8 | 63.2 | 61.7 |
| 20° | 306.2 | 244.5 | 139.6 | 92.4 | 71.5 | 56.9 | 54.5 | 52.0 | 55.1 | 57.1 | 56.3 |
| 22.5° | 326.6 | 244.7 | 125.9 | 84.8 | 57.5 | 51.9 | 47.9 | 45.9 | 46.4 | 48.2 | 48.5 |
| 25° | 335.3 | 238.7 | 113.2 | 74.7 | 52.2 | 46.4 | 42.2 | 40.1 | 39.3 | 40.2 | 39.9 |
| 27.5° | 359.0 | 227.2 | 99.5 | 63.7 | 49.6 | 41.2 | 37.3 | 34.7 | 32.4 | 34.0 | 34.3 |
| 30° | 362.4 | 223.6 | 92.0 | 56.6 | 46.2 | 36.4 | 33.1 | 30.3 | 28.6 | 30.8 | 30.8 |
| 32.5° | 373.1 | 203.4 | 88.1 | 53.7 | 42.7 | 33.7 | 29.1 | 27.1 | 26.8 | 28.2 | 28.3 |
| 35° | 389.6 | 194.5 | 82.5 | 51.4 | 39.5 | 30.5 | 26.2 | 25.2 | 24.9 | 26.0 | 26.0 |
| 37.5° | 445.6 | 183.5 | 76.2 | 49.4 | 36.7 | 28.8 | 25.4 | 23.9 | 24.0 | 24.9 | 25.6 |
| 40° | 482.8 | 184.9 | 66.9 | 47.0 | 33.5 | 27.2 | 23.9 | 22.8 | 22.6 | 23.1 | 23.6 |
| 42.5° | 551.8 | 185.9 | 62.7 | 44.4 | 31.1 | 25.4 | 22.3 | 21.6 | 21.0 | 21.4 | 21.9 |
| 45° | 628.9 | 191.6 | 60.6 | 42.2 | 29.7 | 24.3 | 21.0 | 20.5 | 19.1 | 19.4 | 20.0 |
| 47.5° | 703.3 | 212.2 | 58.0 | 39.2 | 28.5 | 23.7 | 19.6 | 18.5 | 17.6 | 17.4 | 18.1 |
| 50° | 787.8 | 232.3 | 55.1 | 35.8 | 27.2 | 22.8 | 18.2 | 16.5 | 15.9 | 15.9 | 16.4 |
| 52.5° | 863.4 | 251.4 | 52.3 | 33.5 | 26.3 | 21.1 | 17.0 | 15.3 | 14.8 | 14.8 | 15.5 |
| 55° | 943.0 | 271.5 | 49.9 | 31.4 | 25.1 | 19.4 | 15.9 | 14.4 | 14.2 | 13.9 | 14.4 |
| 57.5° | 1083.4 | 315.2 | 46.8 | 29.5 | 23.4 | 18.1 | 15.0 | 13.5 | 13.2 | 12.7 | 13.2 |
| 60° | 1288.0 | 382.4 | 42.8 | 27.7 | 21.4 | 17.1 | 14.2 | 12.4 | 11.9 | 11.2 | 11.3 |
| 62.5° | 1488.0 | 436.7 | 38.3 | 25.4 | 19.6 | 16.2 | 13.0 | 11.2 | 10.4 | 9.5 | 9.6 |
| 65° | 1659.4 | 458.2 | 33.4 | 22.6 | 17.8 | 14.1 | 11.3 | 9.8 | 8.7 | 7.5 | 7.3 |
| 67.5° | 1679.6 | 404.6 | 28.6 | 20.0 | 15.9 | 11.9 | 9.6 | 8.7 | 7.0 | 6.0 | 5.7 |
| 70° | 1511.6 | 301.5 | 23.9 | 17.8 | 13.8 | 10.1 | 8.3 | 7.7 | 6.6 | 5.7 | 5.2 |
| 72.5° | 1203.7 | 222.5 | 20.0 | 15.8 | 12.1 | 8.6 | 7.0 | 7.2 | 6.6 | 5.5 | 4.9 |
| 75° | 796.1 | 127.3 | 16.4 | 13.2 | 10.1 | 6.9 | 6.4 | 6.4 | 6.3 | 5.2 | 4.6 |
| 77.5° | 383.0 | 54.9 | 12.5 | 10.4 | 8.1 | 5.2 | 5.8 | 5.8 | 6.0 | 4.7 | 3.8 |
| 80° | 108.6 | 16.5 | 7.8 | 7.0 | 6.0 | 3.5 | 4.6 | 4.4 | 4.0 | 2.8 | 1.7 |
| 82.5° | 19.4 | 6.4 | 3.5 | 3.7 | 3.4 | 1.4 | 2.6 | 2.4 | 2.0 | 1.1 | 0.2 |
| 85° | 5.4 | 2.4 | 2.0 | 2.1 | 1.7 | 0.5 | 1.1 | 1.4 | 1.1 | 0.6 | 0.0 |
| 87.5° | 1.4 | 1.1 | 1.4 | 1.5 | 1.2 | 0.2 | 0.5 | 0.2 | 0.5 | 0.2 | 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)