

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: P366636

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

Issue Date: 12/2/2019

Report Generated By 670245982

Test Information

Test Method: LM-79-08
Report Number: P366636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-8)
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
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3671 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

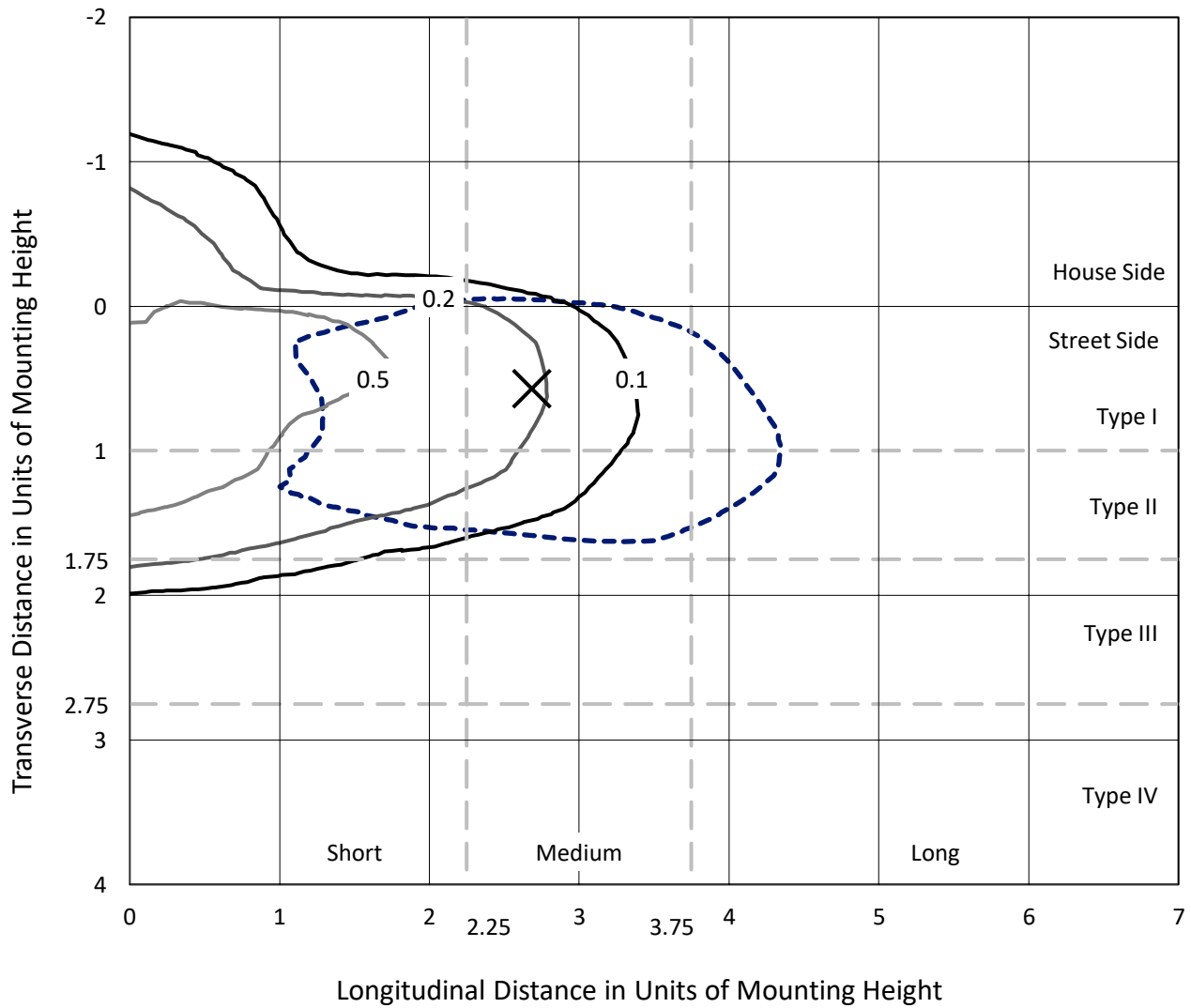
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

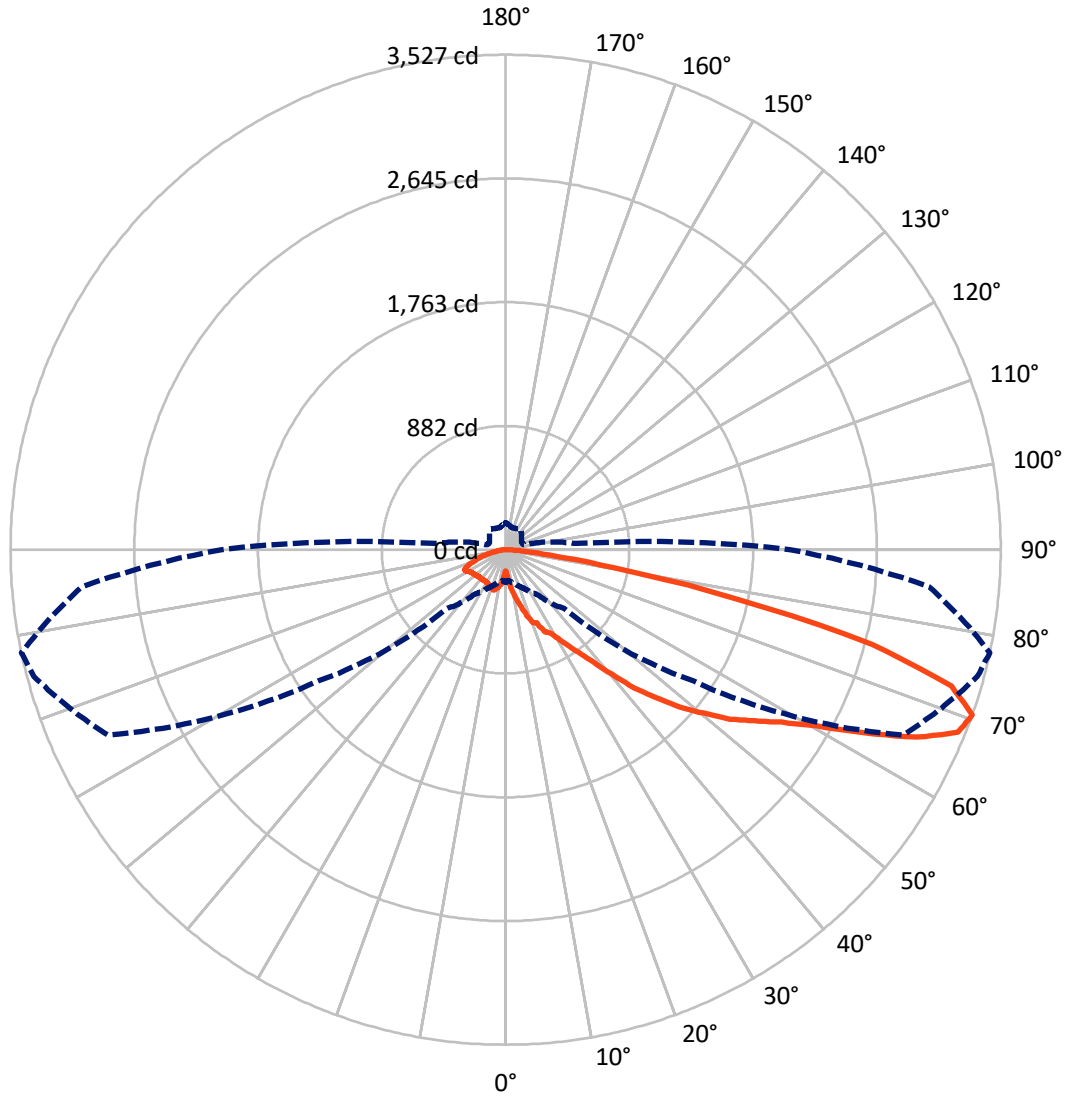
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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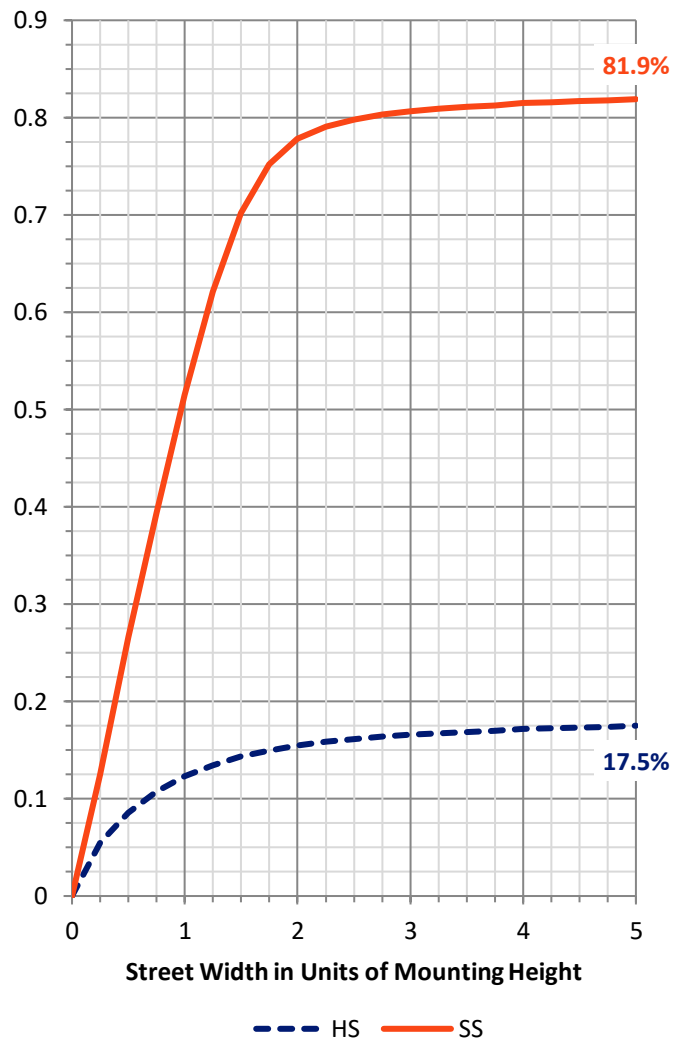
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 655.2 | 0.0 | 655.2 |
| | % Fixture | 17.8 | 0.0 | 17.8 |
| Street Side | Lumens | 3015.8 | 0.0 | 3015.8 |
| | % Fixture | 82.2 | 0.0 | 82.2 |
| Total | Lumens | 3671.0 | 0.0 | 3671.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.1 | 0.6 |
| 10°-20° | 101.9 | 2.8 |
| 20°-30° | 196.2 | 5.3 |
| 30°-40° | 330.4 | 9.0 |
| 40°-50° | 571.7 | 15.6 |
| 50°-60° | 863.2 | 23.5 |
| 60°-70° | 956.1 | 26.0 |
| 70°-80° | 551.2 | 15.0 |
| 80°-90° | 77.3 | 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° | 3671.0 | 100.0 |
| 0°-180° | 3671.0 | 100.0 |

Coefficient of Utilization

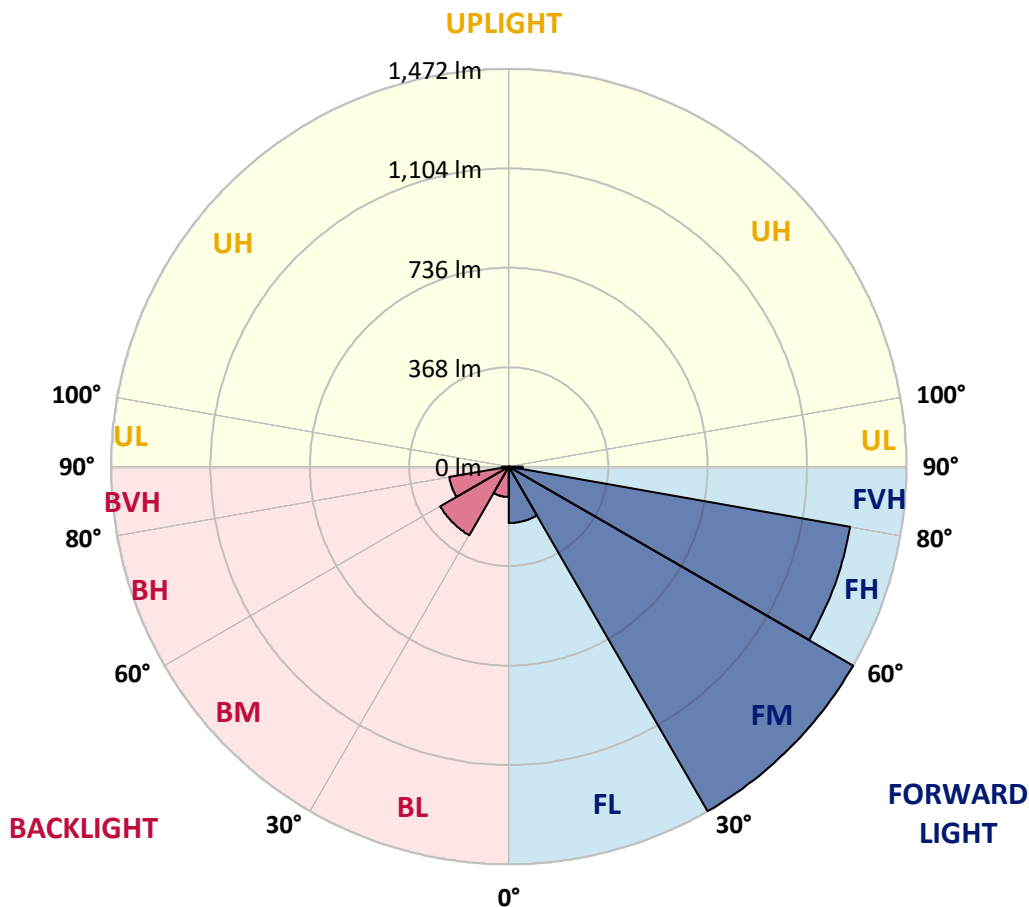


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 208.7 | 5.7 | | | |
| FM (30°-60°) | 1472.2 | 40.1 | | | |
| FH (60°-80°) | 1283.3 | 35.0 | | | G1/1800 |
| FVH (80°-90°) | 51.6 | 1.4 | | | G1/100 |
| BL (0°-30°) | 112.5 | 3.1 | B1/500 | | |
| BM (30°-60°) | 293.1 | 8.0 | B1/1000 | | |
| BH (60°-80°) | 223.9 | 6.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 25.7 | 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-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 |
| 2.5° | 192.7 | 185.8 | 175.4 | 179.7 | 184.9 | 185.5 | 183.8 | 174.3 | 171.1 | 178.3 | 180.4 |
| 5° | 270.0 | 258.3 | 251.3 | 249.0 | 241.2 | 225.0 | 236.6 | 230.6 | 231.8 | 228.3 | 235.2 |
| 7.5° | 335.0 | 327.2 | 316.8 | 313.9 | 296.0 | 283.3 | 291.2 | 288.6 | 276.1 | 271.2 | 279.0 |
| 10° | 368.0 | 359.5 | 359.9 | 353.7 | 348.9 | 350.1 | 346.2 | 334.7 | 325.4 | 318.8 | 299.9 |
| 12.5° | 387.9 | 390.1 | 401.6 | 398.4 | 416.3 | 430.9 | 419.8 | 402.8 | 373.3 | 367.3 | 348.6 |
| 15° | 435.2 | 443.2 | 432.5 | 437.4 | 445.0 | 473.2 | 468.6 | 464.9 | 433.7 | 422.1 | 387.6 |
| 17.5° | 483.9 | 485.4 | 469.2 | 466.6 | 485.0 | 499.2 | 517.1 | 496.4 | 500.3 | 492.2 | 436.5 |
| 20° | 494.3 | 504.9 | 481.6 | 465.5 | 503.3 | 531.5 | 553.7 | 531.8 | 552.0 | 554.1 | 476.7 |
| 22.5° | 532.4 | 519.7 | 489.1 | 473.3 | 506.4 | 541.0 | 577.1 | 589.3 | 582.9 | 564.9 | 515.6 |
| 25° | 558.9 | 552.2 | 520.9 | 503.5 | 516.0 | 547.9 | 611.2 | 643.2 | 648.9 | 646.4 | 552.6 |
| 27.5° | 608.0 | 611.4 | 547.1 | 552.0 | 534.6 | 537.5 | 631.7 | 714.7 | 679.3 | 669.5 | 598.5 |
| 30° | 685.6 | 670.6 | 598.5 | 602.5 | 573.6 | 568.7 | 675.0 | 776.3 | 744.7 | 732.9 | 636.3 |
| 32.5° | 766.6 | 767.9 | 680.4 | 646.4 | 631.0 | 626.1 | 666.5 | 808.6 | 827.3 | 812.0 | 693.4 |
| 35° | 880.7 | 872.8 | 769.2 | 724.5 | 668.6 | 660.0 | 727.5 | 902.3 | 936.6 | 893.7 | 761.2 |
| 37.5° | 1054.6 | 1030.5 | 909.9 | 806.6 | 765.3 | 755.5 | 814.8 | 986.3 | 1063.4 | 1010.2 | 872.0 |
| 40° | 1194.1 | 1145.3 | 1035.7 | 909.9 | 840.0 | 852.1 | 876.7 | 1088.2 | 1195.1 | 1165.1 | 974.5 |
| 42.5° | 1305.4 | 1262.1 | 1124.8 | 1036.4 | 941.3 | 926.3 | 953.3 | 1214.5 | 1374.1 | 1344.7 | 1102.5 |
| 45° | 1412.1 | 1323.9 | 1224.9 | 1145.3 | 1054.0 | 1072.2 | 1068.2 | 1343.3 | 1593.7 | 1503.3 | 1215.6 |
| 47.5° | 1517.3 | 1434.6 | 1330.9 | 1224.0 | 1132.0 | 1245.4 | 1203.0 | 1439.1 | 1741.8 | 1674.8 | 1334.6 |
| 50° | 1652.6 | 1561.6 | 1443.6 | 1336.0 | 1280.9 | 1363.8 | 1292.7 | 1520.3 | 1907.7 | 1829.1 | 1446.9 |
| 52.5° | 1742.5 | 1653.9 | 1550.4 | 1473.6 | 1468.5 | 1436.5 | 1418.3 | 1622.9 | 2053.1 | 2005.4 | 1566.0 |
| 55° | 1731.9 | 1646.5 | 1599.7 | 1608.1 | 1670.5 | 1562.6 | 1547.8 | 1774.9 | 2204.8 | 2149.5 | 1694.6 |
| 57.5° | 1599.5 | 1506.3 | 1516.3 | 1566.2 | 1733.9 | 1784.1 | 1758.8 | 1937.3 | 2340.1 | 2315.0 | 1853.6 |
| 60° | 1246.0 | 1198.1 | 1279.1 | 1370.3 | 1649.1 | 1849.0 | 2026.5 | 2135.3 | 2506.6 | 2546.7 | 2103.3 |
| 62.5° | 809.4 | 745.4 | 873.4 | 1028.2 | 1396.1 | 1806.1 | 2299.0 | 2510.8 | 2779.3 | 2870.3 | 2482.8 |
| 65° | 419.3 | 409.1 | 498.6 | 640.9 | 971.9 | 1540.0 | 2395.2 | 2904.8 | 3110.7 | 3216.8 | 2845.4 |
| 67.5° | 304.8 | 285.9 | 327.3 | 411.1 | 593.3 | 1050.1 | 2213.0 | 3206.1 | 3376.9 | 3474.1 | 3056.1 |
| 70° | 232.2 | 218.1 | 249.8 | 301.6 | 387.5 | 593.2 | 1633.6 | 3123.9 | 3479.6 | 3526.7 | 3028.1 |
| 72.5° | 173.8 | 161.8 | 189.5 | 237.8 | 298.6 | 333.9 | 965.7 | 2568.5 | 3304.3 | 3320.4 | 2717.8 |
| 75° | 138.8 | 129.5 | 141.4 | 187.8 | 243.3 | 227.3 | 513.0 | 1860.9 | 2684.7 | 2698.5 | 2075.9 |
| 77.5° | 113.9 | 105.9 | 110.8 | 140.8 | 189.3 | 170.9 | 254.5 | 1183.7 | 1704.5 | 1683.4 | 1168.0 |
| 80° | 92.9 | 86.0 | 88.3 | 101.8 | 144.2 | 127.6 | 142.9 | 617.5 | 813.1 | 780.3 | 485.7 |
| 82.5° | 71.5 | 65.7 | 70.2 | 74.8 | 104.4 | 91.7 | 83.4 | 281.0 | 333.0 | 310.2 | 178.1 |
| 85° | 47.9 | 42.5 | 61.1 | 56.2 | 68.3 | 56.3 | 45.6 | 111.9 | 124.1 | 115.7 | 62.6 |
| 87.5° | 13.2 | 12.4 | 20.5 | 28.0 | 28.0 | 21.3 | 16.7 | 27.1 | 34.6 | 30.3 | 14.7 |
| 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° | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 |
| 2.5° | 181.3 | 178.0 | 169.1 | 168.3 | 170.5 | 170.8 | 169.4 | 166.2 | 164.5 | 173.7 | 172.3 |
| 5° | 233.5 | 221.6 | 214.4 | 207.8 | 198.6 | 192.1 | 193.7 | 198.3 | 199.9 | 206.8 | 207.5 |
| 7.5° | 274.1 | 258.3 | 242.6 | 221.4 | 207.5 | 198.6 | 205.4 | 210.3 | 214.1 | 223.9 | 227.9 |
| 10° | 291.7 | 274.5 | 252.2 | 230.0 | 226.2 | 227.7 | 223.9 | 225.1 | 231.1 | 231.5 | 233.5 |
| 12.5° | 324.4 | 305.0 | 264.8 | 244.7 | 243.6 | 246.8 | 245.5 | 251.1 | 255.3 | 266.4 | 261.7 |
| 15° | 355.8 | 331.0 | 274.2 | 253.7 | 249.3 | 255.7 | 263.2 | 272.7 | 281.6 | 292.1 | 286.8 |
| 17.5° | 393.9 | 356.6 | 274.7 | 249.6 | 250.4 | 264.1 | 271.9 | 277.1 | 303.6 | 318.2 | 310.8 |
| 20° | 417.9 | 359.2 | 264.4 | 239.3 | 250.4 | 262.8 | 273.6 | 279.3 | 309.0 | 330.9 | 335.9 |
| 22.5° | 439.7 | 360.1 | 256.5 | 233.8 | 240.9 | 257.3 | 273.6 | 286.2 | 305.2 | 326.1 | 326.9 |
| 25° | 451.6 | 359.3 | 246.2 | 234.3 | 240.7 | 248.8 | 263.4 | 274.9 | 288.9 | 318.2 | 318.9 |
| 27.5° | 482.2 | 349.4 | 236.1 | 236.1 | 239.5 | 239.8 | 258.3 | 265.1 | 267.0 | 293.7 | 298.4 |
| 30° | 491.1 | 351.5 | 234.9 | 235.8 | 237.5 | 234.4 | 242.6 | 247.0 | 249.9 | 272.9 | 273.6 |
| 32.5° | 505.3 | 334.4 | 238.6 | 233.1 | 230.9 | 230.5 | 232.5 | 236.4 | 237.7 | 251.7 | 254.3 |
| 35° | 522.6 | 327.5 | 239.8 | 232.3 | 228.0 | 225.7 | 231.7 | 226.8 | 230.6 | 247.2 | 249.0 |
| 37.5° | 578.9 | 318.0 | 246.1 | 232.3 | 226.8 | 224.2 | 221.3 | 223.6 | 237.2 | 253.1 | 262.9 |
| 40° | 614.9 | 320.9 | 244.6 | 234.6 | 222.7 | 220.2 | 215.3 | 223.7 | 244.9 | 273.0 | 280.4 |
| 42.5° | 677.9 | 322.6 | 246.4 | 233.5 | 224.0 | 214.6 | 217.8 | 227.0 | 249.1 | 265.2 | 276.5 |
| 45° | 743.1 | 327.8 | 245.2 | 230.3 | 221.0 | 225.4 | 221.0 | 229.2 | 239.8 | 240.3 | 248.8 |
| 47.5° | 807.1 | 348.8 | 242.6 | 223.7 | 220.2 | 231.8 | 220.5 | 221.9 | 222.7 | 225.4 | 235.5 |
| 50° | 882.2 | 371.1 | 238.9 | 214.6 | 221.3 | 232.2 | 222.2 | 215.5 | 214.7 | 223.7 | 235.1 |
| 52.5° | 967.6 | 396.4 | 234.1 | 205.7 | 215.0 | 229.2 | 228.0 | 215.9 | 209.4 | 218.1 | 229.4 |
| 55° | 1068.2 | 425.1 | 228.6 | 196.8 | 208.1 | 229.6 | 231.2 | 212.7 | 209.5 | 219.0 | 231.1 |
| 57.5° | 1201.8 | 466.8 | 217.9 | 183.9 | 199.7 | 224.8 | 223.0 | 209.0 | 206.0 | 216.1 | 228.6 |
| 60° | 1429.8 | 546.8 | 202.6 | 171.2 | 190.7 | 213.2 | 216.2 | 202.5 | 199.4 | 210.6 | 223.7 |
| 62.5° | 1735.1 | 643.1 | 184.1 | 158.9 | 179.7 | 200.6 | 207.8 | 193.0 | 192.7 | 206.9 | 220.7 |
| 65° | 2019.3 | 697.7 | 165.0 | 147.5 | 168.3 | 189.0 | 198.3 | 184.1 | 184.7 | 202.6 | 216.4 |
| 67.5° | 2137.4 | 633.4 | 147.8 | 137.4 | 155.3 | 175.7 | 190.5 | 177.2 | 175.2 | 196.8 | 209.5 |
| 70° | 2026.5 | 503.2 | 133.0 | 126.7 | 140.6 | 161.3 | 179.7 | 168.0 | 163.4 | 183.0 | 193.0 |
| 72.5° | 1793.1 | 419.5 | 119.1 | 114.2 | 127.8 | 146.1 | 165.0 | 155.6 | 149.7 | 164.7 | 173.5 |
| 75° | 1401.6 | 344.2 | 103.1 | 101.8 | 113.1 | 132.4 | 149.7 | 143.2 | 135.6 | 145.1 | 154.0 |
| 77.5° | 798.1 | 217.8 | 86.6 | 87.5 | 95.6 | 116.0 | 131.3 | 126.3 | 118.4 | 122.4 | 132.7 |
| 80° | 319.4 | 109.9 | 69.6 | 70.2 | 77.1 | 95.3 | 108.8 | 107.0 | 98.9 | 102.1 | 109.1 |
| 82.5° | 119.4 | 60.3 | 51.4 | 51.7 | 58.6 | 75.4 | 92.9 | 92.0 | 84.3 | 82.0 | 86.0 |
| 85° | 47.4 | 29.8 | 31.5 | 32.9 | 39.5 | 54.3 | 74.5 | 66.1 | 57.1 | 50.0 | 52.5 |
| 87.5° | 11.3 | 9.5 | 11.0 | 11.6 | 12.9 | 17.0 | 27.2 | 21.9 | 22.5 | 18.1 | 13.5 |
| 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)