

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: P366637

Luminaire Tested: **PMM-SA1A-730-U-T3-HSS**

Issue Date: 12/2/2019

Report Generated By 670245982

Test Information

Test Method: LM-79-08
Report Number: P366637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-11)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1A-730-U-T3-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2718 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

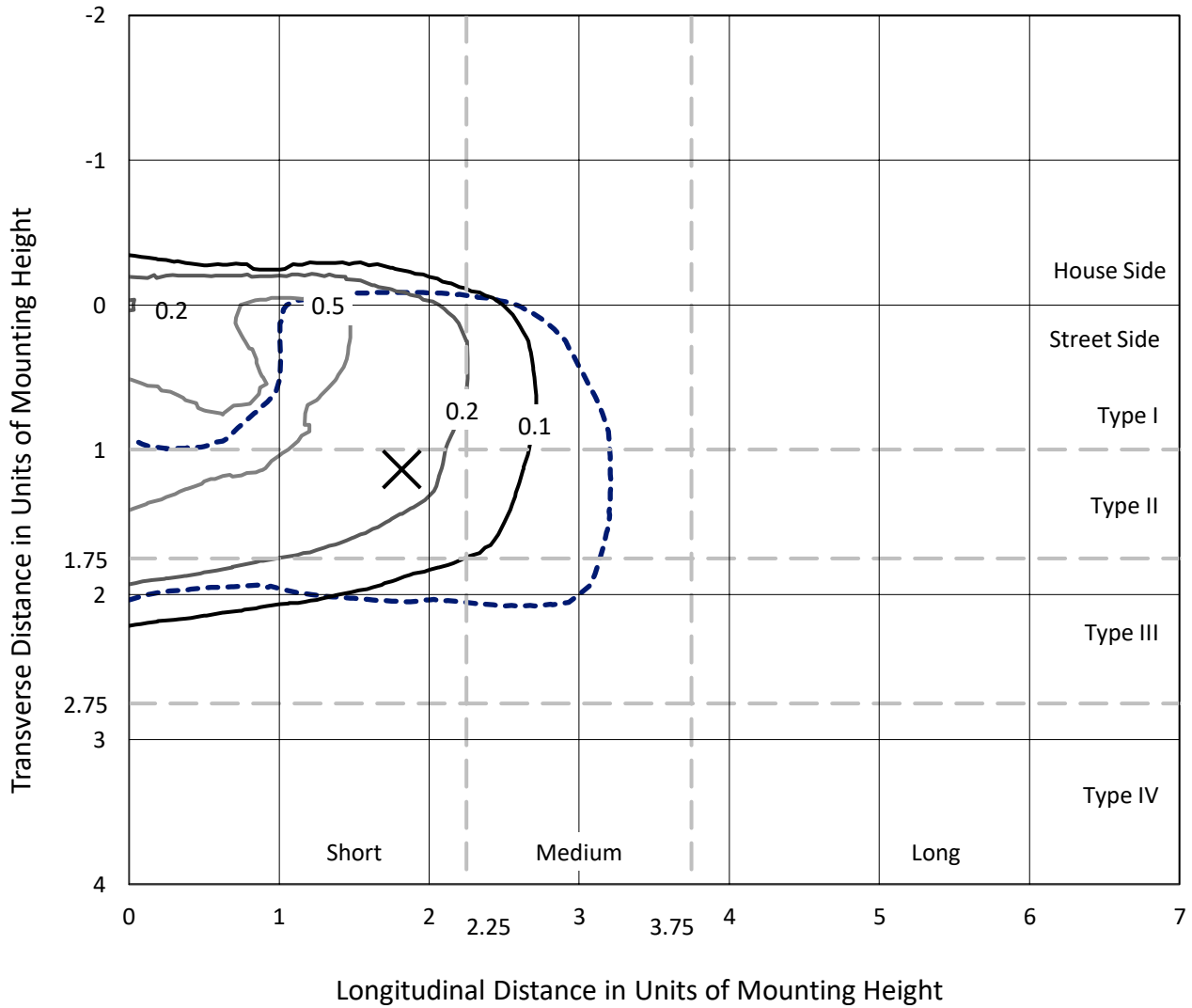
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

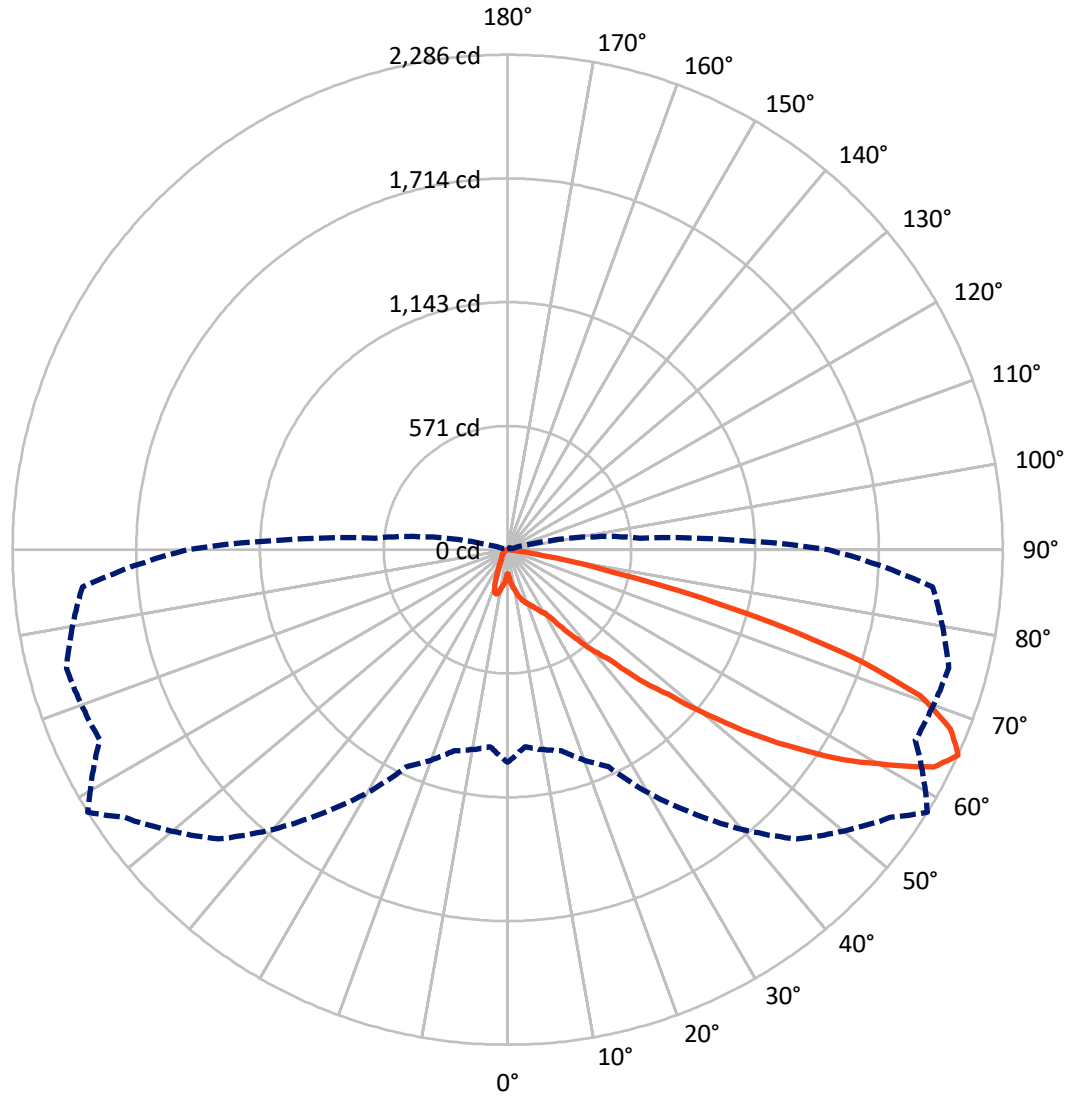
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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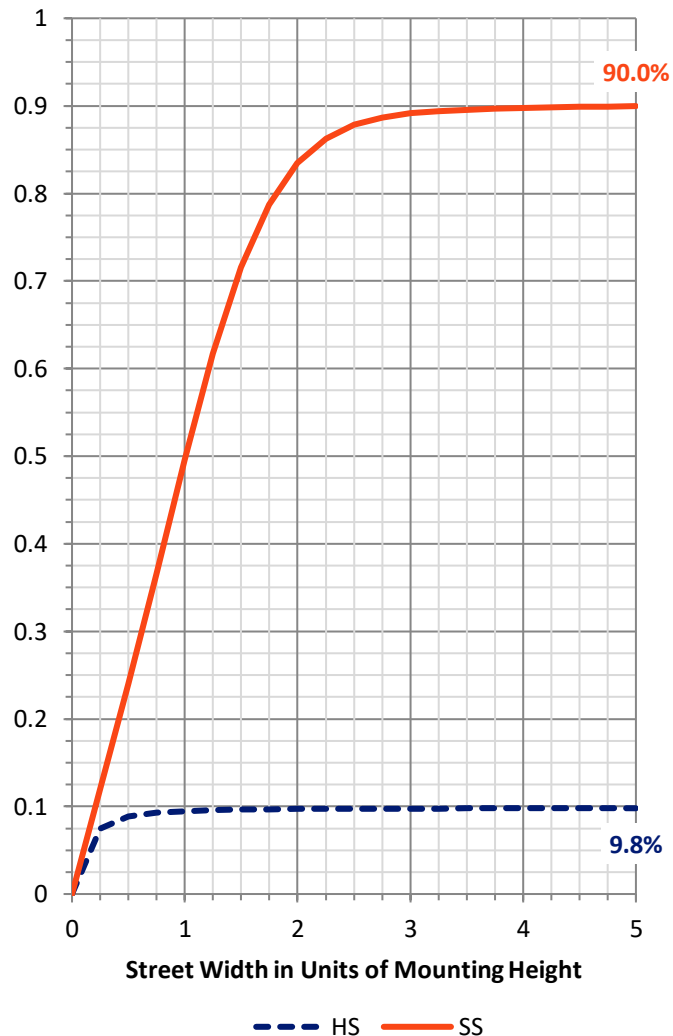
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 268.2 | 0.0 | 268.2 |
| | % Fixture | 9.9 | 0.0 | 9.9 |
| Street Side | Lumens | 2449.8 | 0.0 | 2449.8 |
| | % Fixture | 90.1 | 0.0 | 90.1 |
| Total | Lumens | 2718.0 | 0.0 | 2718.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 15.3 | 0.6 |
| 10°-20° | 55.8 | 2.1 |
| 20°-30° | 108.0 | 4.0 |
| 30°-40° | 215.5 | 7.9 |
| 40°-50° | 440.5 | 16.2 |
| 50°-60° | 781.3 | 28.7 |
| 60°-70° | 823.7 | 30.3 |
| 70°-80° | 267.1 | 9.8 |
| 80°-90° | 10.9 | 0.4 |
| 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° | 2718.0 | 100.0 |
| 0°-180° | 2718.0 | 100.0 |

Coefficient of Utilization

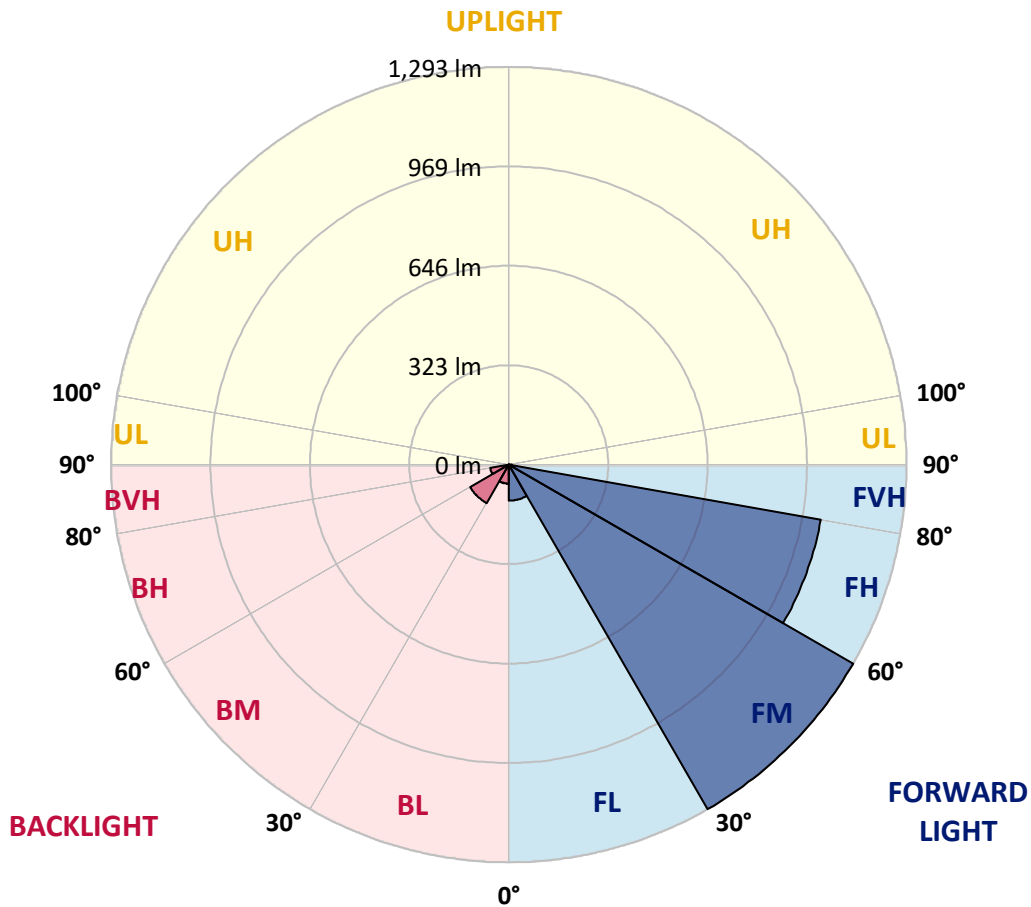


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 117.3 | 4.3 | | | |
| FM (30°-60°) | 1292.6 | 47.6 | | | |
| FH (60°-80°) | 1029.5 | 37.9 | | | G1/1800 |
| FVH (80°-90°) | 10.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 61.8 | 2.3 | B0/110 | | |
| BM (30°-60°) | 144.7 | 5.3 | B0/220 | | |
| BH (60°-80°) | 61.2 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.5 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 |
| 2.5° | 132.8 | 128.9 | 122.6 | 123.6 | 124.9 | 127.3 | 125.3 | 123.5 | 121.5 | 118.9 | 128.9 |
| 5° | 160.4 | 153.8 | 153.2 | 151.8 | 150.7 | 150.6 | 153.0 | 152.3 | 153.3 | 158.2 | 163.3 |
| 7.5° | 170.5 | 167.7 | 162.5 | 164.7 | 161.3 | 158.7 | 169.6 | 173.1 | 179.8 | 182.1 | 195.3 |
| 10° | 169.4 | 165.4 | 167.6 | 168.6 | 170.9 | 180.4 | 187.3 | 191.1 | 197.0 | 209.5 | 206.9 |
| 12.5° | 174.3 | 177.8 | 180.1 | 180.3 | 192.1 | 209.5 | 214.4 | 217.6 | 228.0 | 232.9 | 245.8 |
| 15° | 190.7 | 196.5 | 192.8 | 194.4 | 198.2 | 219.4 | 230.9 | 238.0 | 252.7 | 268.6 | 271.8 |
| 17.5° | 214.1 | 217.8 | 210.1 | 204.6 | 215.2 | 226.8 | 247.6 | 255.0 | 264.3 | 301.5 | 308.4 |
| 20° | 243.6 | 249.9 | 233.4 | 211.5 | 225.4 | 239.2 | 261.8 | 265.4 | 275.3 | 323.8 | 334.7 |
| 22.5° | 312.6 | 303.3 | 278.1 | 243.9 | 239.8 | 245.9 | 267.5 | 281.3 | 298.1 | 336.4 | 361.6 |
| 25° | 380.7 | 377.5 | 340.3 | 302.2 | 274.7 | 260.9 | 289.5 | 297.2 | 324.7 | 366.2 | 380.1 |
| 27.5° | 456.5 | 462.9 | 400.8 | 377.7 | 323.7 | 278.7 | 303.3 | 322.4 | 355.0 | 377.1 | 410.6 |
| 30° | 556.4 | 546.2 | 473.3 | 450.2 | 388.5 | 327.5 | 339.0 | 340.2 | 388.1 | 412.9 | 444.7 |
| 32.5° | 634.8 | 641.4 | 549.8 | 514.3 | 465.1 | 402.6 | 365.7 | 381.7 | 415.9 | 471.2 | 501.3 |
| 35° | 719.6 | 718.9 | 629.7 | 582.0 | 517.6 | 464.0 | 445.2 | 456.8 | 499.8 | 562.4 | 570.4 |
| 37.5° | 846.3 | 835.4 | 730.1 | 660.2 | 605.4 | 559.6 | 545.3 | 529.8 | 574.2 | 633.9 | 663.7 |
| 40° | 965.8 | 928.3 | 831.0 | 748.0 | 677.9 | 659.3 | 607.2 | 616.7 | 629.9 | 708.7 | 791.2 |
| 42.5° | 1086.5 | 1063.3 | 933.2 | 863.7 | 777.6 | 733.2 | 699.2 | 694.8 | 757.4 | 850.7 | 935.9 |
| 45° | 1245.8 | 1174.7 | 1070.6 | 1009.6 | 909.8 | 865.2 | 837.9 | 854.2 | 910.5 | 1046.9 | 1103.7 |
| 47.5° | 1379.6 | 1314.1 | 1224.7 | 1132.0 | 1027.3 | 1077.3 | 1025.9 | 1000.1 | 1077.3 | 1218.3 | 1293.7 |
| 50° | 1494.5 | 1421.5 | 1331.1 | 1262.4 | 1245.4 | 1293.4 | 1189.4 | 1198.9 | 1249.0 | 1414.6 | 1457.2 |
| 52.5° | 1578.1 | 1501.2 | 1422.3 | 1389.1 | 1458.7 | 1482.9 | 1430.7 | 1409.7 | 1455.3 | 1582.0 | 1602.7 |
| 55° | 1641.0 | 1562.3 | 1500.6 | 1546.4 | 1681.1 | 1673.1 | 1691.5 | 1619.8 | 1663.5 | 1756.7 | 1746.9 |
| 57.5° | 1644.8 | 1551.6 | 1515.5 | 1589.1 | 1773.9 | 1897.1 | 1950.9 | 1829.0 | 1853.8 | 1893.2 | 1871.1 |
| 60° | 1524.5 | 1431.8 | 1428.9 | 1533.4 | 1800.9 | 1955.1 | 2072.7 | 2013.3 | 1980.1 | 2009.3 | 1967.5 |
| 62.5° | 1284.9 | 1220.0 | 1250.3 | 1365.8 | 1700.6 | 1923.2 | 2137.6 | 2209.0 | 2079.7 | 2086.3 | 2026.9 |
| 65° | 981.1 | 913.0 | 960.4 | 1106.0 | 1481.5 | 1887.3 | 2155.9 | 2285.5 | 2077.9 | 2108.2 | 1970.0 |
| 67.5° | 649.8 | 610.3 | 664.0 | 824.4 | 1177.9 | 1666.1 | 2146.4 | 2205.2 | 2011.9 | 2022.6 | 1758.6 |
| 70° | 335.4 | 325.8 | 369.3 | 495.8 | 791.9 | 1280.0 | 2053.2 | 2021.1 | 1878.0 | 1742.4 | 1356.5 |
| 72.5° | 107.4 | 107.9 | 149.7 | 226.5 | 427.0 | 779.2 | 1578.2 | 1622.3 | 1502.8 | 1274.6 | 828.2 |
| 75° | 47.6 | 46.8 | 62.6 | 95.0 | 178.0 | 349.4 | 980.5 | 1028.1 | 935.6 | 701.2 | 348.1 |
| 77.5° | 34.3 | 33.2 | 40.1 | 55.6 | 88.1 | 118.4 | 459.7 | 496.1 | 424.2 | 243.0 | 79.7 |
| 80° | 24.2 | 24.0 | 29.1 | 39.0 | 55.1 | 52.6 | 145.2 | 162.8 | 130.4 | 58.9 | 23.4 |
| 82.5° | 13.6 | 14.1 | 20.2 | 27.5 | 33.5 | 26.3 | 40.9 | 45.0 | 43.9 | 31.4 | 10.3 |
| 85° | 6.6 | 7.3 | 13.2 | 19.9 | 17.6 | 10.3 | 14.5 | 15.8 | 18.4 | 18.2 | 5.2 |
| 87.5° | 0.0 | 0.0 | 5.4 | 9.0 | 4.7 | 1.5 | 4.4 | 5.1 | 4.9 | 5.8 | 1.2 |
| 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° | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 |
| 2.5° | 130.8 | 129.9 | 118.3 | 119.2 | 121.8 | 120.7 | 121.7 | 119.5 | 117.1 | 127.0 | 126.9 |
| 5° | 165.4 | 158.5 | 154.9 | 151.5 | 152.1 | 145.2 | 149.2 | 151.0 | 150.7 | 156.4 | 157.9 |
| 7.5° | 195.7 | 186.5 | 179.2 | 172.2 | 161.4 | 151.8 | 157.8 | 161.6 | 164.2 | 174.0 | 177.8 |
| 10° | 210.0 | 202.5 | 199.6 | 185.8 | 178.1 | 172.2 | 165.0 | 159.8 | 161.9 | 159.3 | 161.9 |
| 12.5° | 241.2 | 236.1 | 225.0 | 211.0 | 201.8 | 189.6 | 162.8 | 140.5 | 126.7 | 126.9 | 125.9 |
| 15° | 269.6 | 269.3 | 252.7 | 229.5 | 202.9 | 168.0 | 126.3 | 98.1 | 85.1 | 81.4 | 80.2 |
| 17.5° | 306.8 | 302.2 | 271.8 | 237.7 | 189.8 | 130.1 | 86.0 | 67.2 | 66.0 | 68.1 | 67.2 |
| 20° | 330.5 | 323.8 | 281.3 | 225.9 | 156.4 | 88.0 | 64.9 | 59.5 | 63.2 | 66.3 | 65.5 |
| 22.5° | 354.3 | 344.2 | 288.5 | 211.5 | 111.3 | 64.4 | 58.6 | 57.7 | 60.0 | 63.8 | 64.4 |
| 25° | 367.3 | 365.3 | 302.5 | 184.6 | 76.2 | 56.5 | 56.5 | 56.2 | 56.9 | 59.7 | 59.2 |
| 27.5° | 405.1 | 378.1 | 292.0 | 144.0 | 58.9 | 51.9 | 52.6 | 52.3 | 49.6 | 52.3 | 52.5 |
| 30° | 428.6 | 416.2 | 292.8 | 102.5 | 51.9 | 45.9 | 47.9 | 45.5 | 41.3 | 43.6 | 43.2 |
| 32.5° | 476.1 | 445.2 | 290.5 | 69.2 | 47.3 | 43.8 | 40.7 | 37.2 | 34.1 | 35.0 | 34.3 |
| 35° | 531.3 | 507.8 | 259.4 | 55.6 | 44.1 | 38.7 | 33.8 | 30.3 | 27.1 | 27.9 | 27.7 |
| 37.5° | 641.2 | 566.4 | 233.7 | 50.0 | 41.9 | 35.5 | 29.8 | 24.9 | 23.3 | 23.7 | 24.2 |
| 40° | 743.0 | 664.2 | 185.8 | 47.6 | 38.3 | 31.7 | 24.6 | 21.1 | 20.0 | 20.4 | 20.8 |
| 42.5° | 895.1 | 741.9 | 140.3 | 45.1 | 34.6 | 26.8 | 20.5 | 18.2 | 17.1 | 17.8 | 18.1 |
| 45° | 1042.3 | 808.0 | 104.8 | 43.0 | 31.5 | 23.1 | 17.3 | 15.8 | 14.5 | 15.0 | 15.6 |
| 47.5° | 1189.4 | 881.5 | 78.2 | 39.6 | 28.2 | 19.9 | 14.8 | 13.8 | 13.0 | 13.2 | 13.9 |
| 50° | 1321.0 | 915.7 | 61.5 | 35.5 | 25.4 | 17.3 | 13.5 | 12.4 | 12.1 | 12.2 | 12.9 |
| 52.5° | 1417.7 | 916.0 | 51.9 | 31.8 | 22.8 | 15.3 | 12.7 | 11.5 | 11.3 | 11.6 | 12.2 |
| 55° | 1505.1 | 891.6 | 45.0 | 28.6 | 20.5 | 13.9 | 12.1 | 11.0 | 11.0 | 11.3 | 11.9 |
| 57.5° | 1563.1 | 846.6 | 39.0 | 25.3 | 18.5 | 13.2 | 11.6 | 10.6 | 10.4 | 10.3 | 10.7 |
| 60° | 1591.4 | 785.2 | 33.1 | 22.2 | 16.7 | 12.7 | 11.3 | 9.3 | 9.2 | 8.9 | 9.2 |
| 62.5° | 1573.5 | 708.4 | 27.7 | 19.1 | 14.8 | 12.1 | 9.9 | 8.1 | 7.8 | 7.2 | 7.7 |
| 65° | 1482.0 | 615.0 | 23.4 | 16.4 | 12.9 | 10.3 | 8.4 | 6.9 | 6.1 | 5.4 | 5.2 |
| 67.5° | 1294.8 | 499.6 | 19.6 | 14.1 | 11.0 | 8.4 | 6.9 | 6.1 | 4.7 | 4.1 | 4.0 |
| 70° | 970.4 | 341.1 | 16.2 | 12.1 | 9.2 | 7.2 | 5.8 | 5.5 | 4.4 | 4.0 | 3.7 |
| 72.5° | 569.3 | 184.1 | 13.6 | 10.6 | 7.8 | 6.0 | 4.7 | 5.1 | 4.4 | 3.7 | 3.4 |
| 75° | 227.4 | 61.2 | 10.9 | 8.4 | 6.3 | 4.3 | 4.0 | 4.1 | 4.0 | 3.4 | 2.8 |
| 77.5° | 51.9 | 19.3 | 8.4 | 6.6 | 4.9 | 2.8 | 3.2 | 3.5 | 3.5 | 2.8 | 2.0 |
| 80° | 16.2 | 7.7 | 4.9 | 4.1 | 3.5 | 1.5 | 2.3 | 2.4 | 1.7 | 0.8 | 0.0 |
| 82.5° | 5.2 | 2.1 | 1.7 | 1.7 | 1.5 | 0.3 | 0.5 | 0.3 | 0.0 | 0.0 | 0.0 |
| 85° | 2.0 | 1.4 | 1.1 | 1.1 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.8 | 0.6 | 0.5 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 | 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)