

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: P367823

Luminaire Tested: **PMM-SA3B-730-U-T2-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367823
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-SA3B-730-U-T2-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) 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: 10097 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

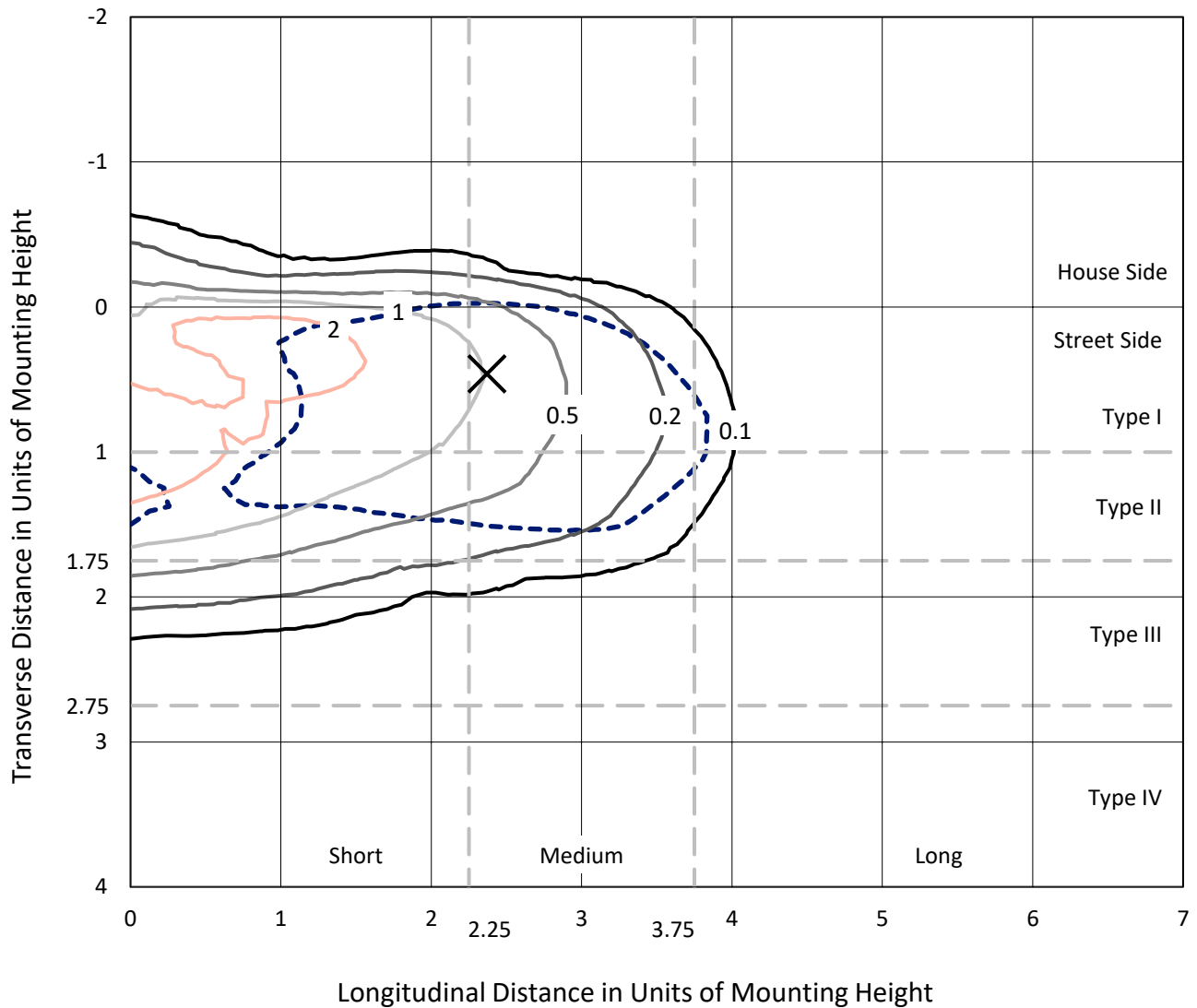
Input Watts (W): 126
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

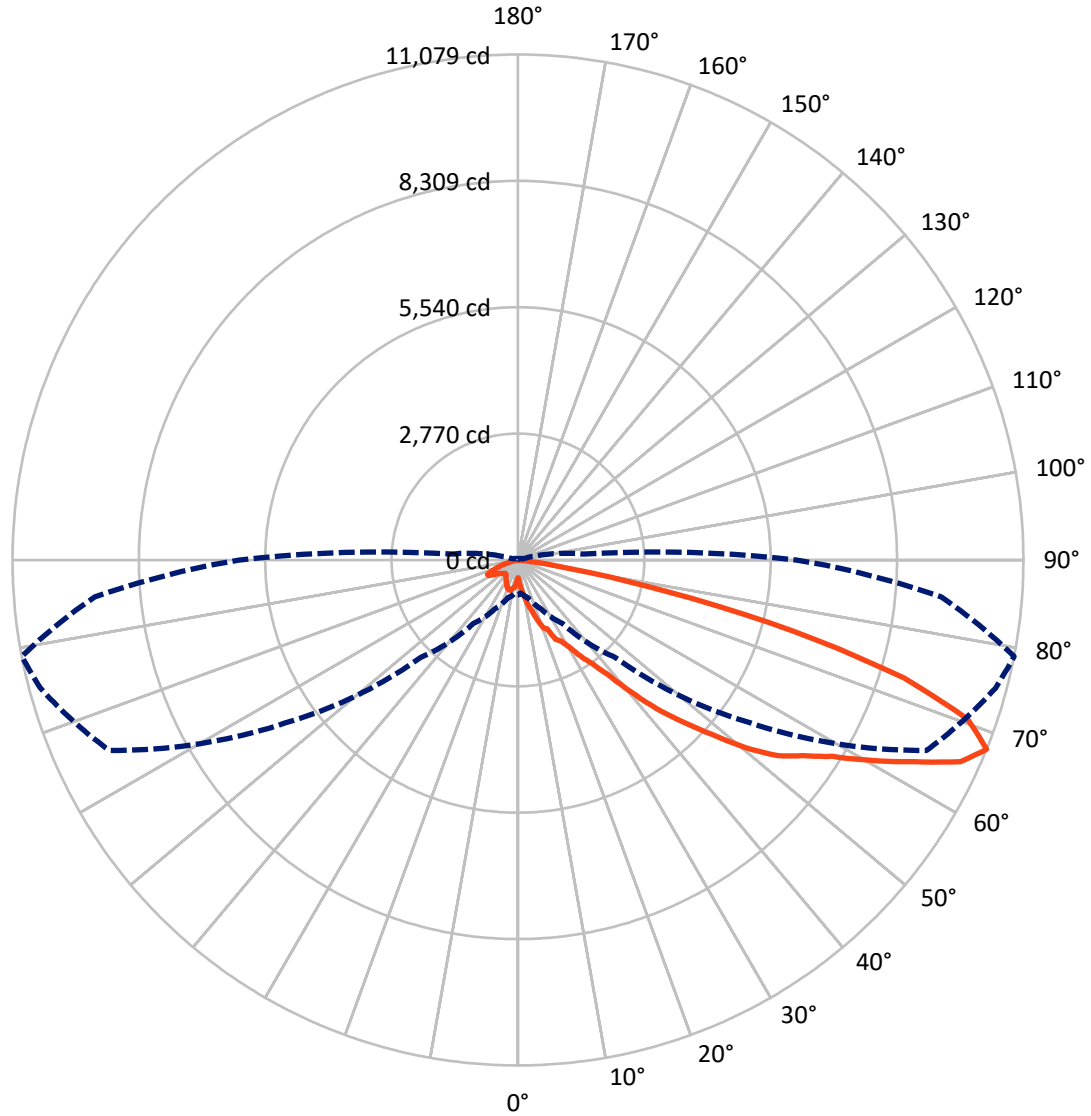
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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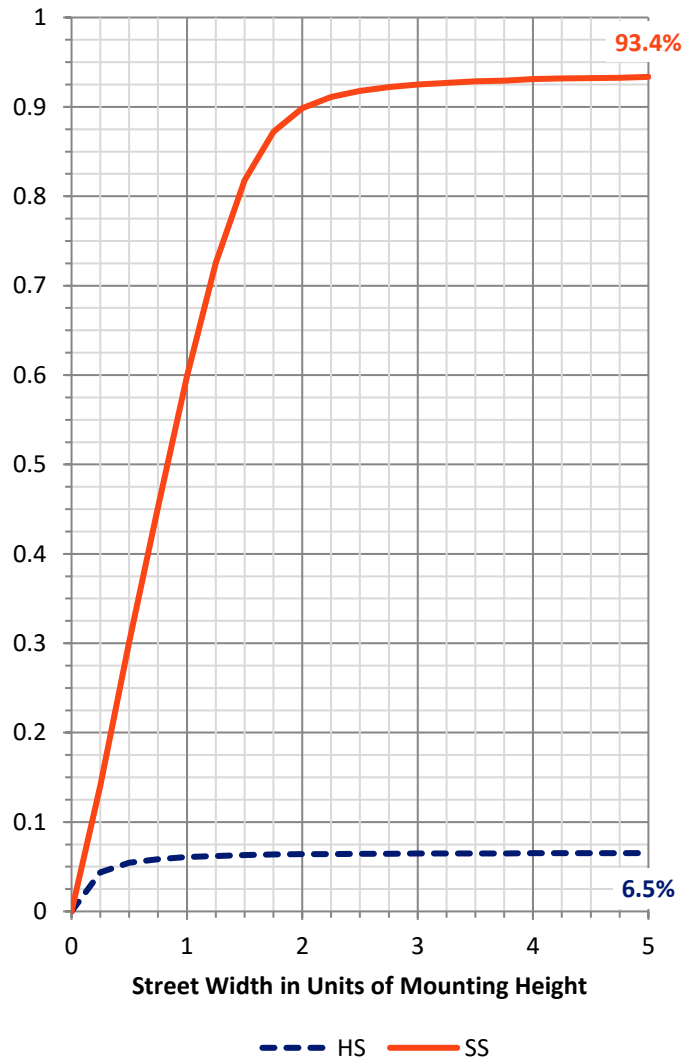
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 663.4 | 0.0 | 663.4 |
| | % Fixture | 6.6 | 0.0 | 6.6 |
| Street Side | Lumens | 9433.6 | 0.0 | 9433.6 |
| | % Fixture | 93.4 | 0.0 | 93.4 |
| Total | Lumens | 10097.0 | 0.0 | 10097.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 56.6 | 0.6 |
| 10°-20° | 225.6 | 2.2 |
| 20°-30° | 435.3 | 4.3 |
| 30°-40° | 855.0 | 8.5 |
| 40°-50° | 1712.8 | 17.0 |
| 50°-60° | 2737.7 | 27.1 |
| 60°-70° | 2754.6 | 27.3 |
| 70°-80° | 1242.7 | 12.3 |
| 80°-90° | 76.9 | 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° | 10097.0 | 100.0 |
| 0°-180° | 10097.0 | 100.0 |

Coefficient of Utilization



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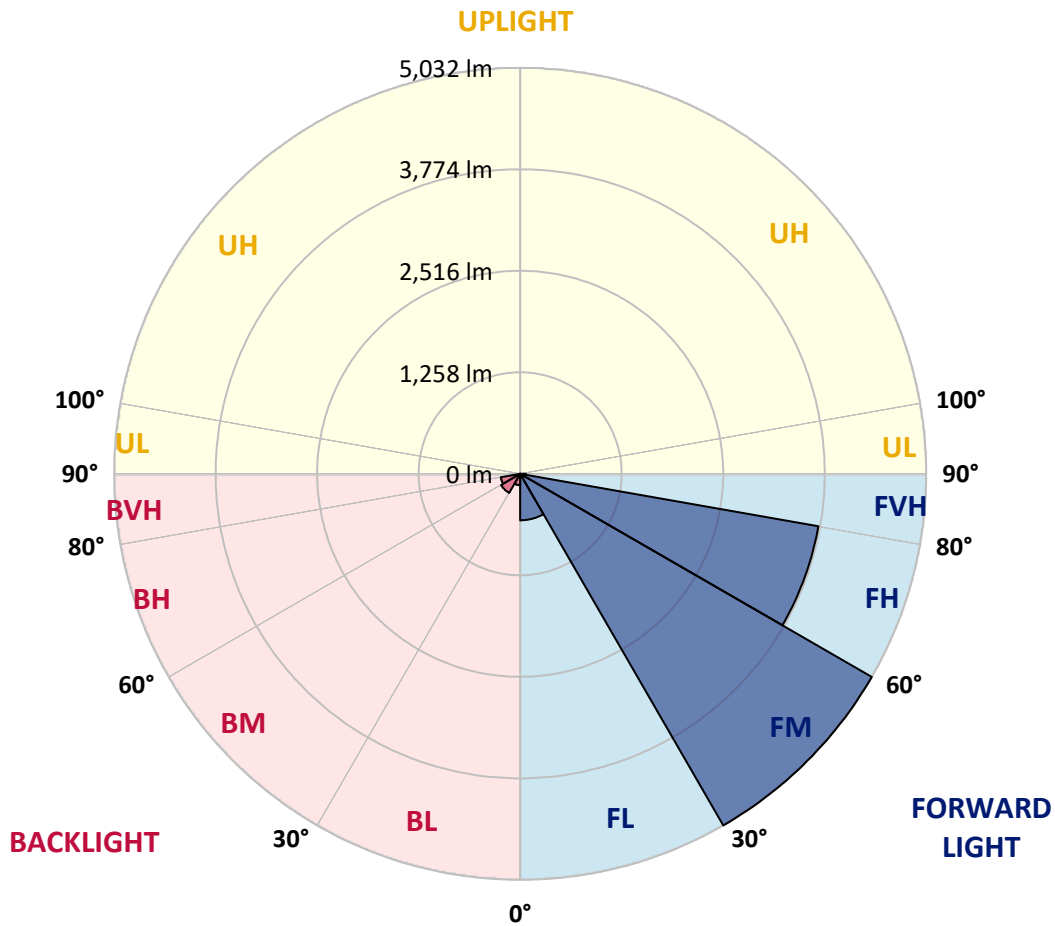
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 576.4 | 5.7 | | | |
| FM (30°-60°) | 5032.5 | 49.8 | | | |
| FH (60°-80°) | 3752.6 | 37.2 | | | G2/5000 |
| FVH (80°-90°) | 72.0 | 0.7 | | | G1/100 |
| BL (0°-30°) | 141.0 | 1.4 | B1/500 | | |
| BM (30°-60°) | 273.0 | 2.7 | B1/1000 | | |
| BH (60°-80°) | 244.6 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.9 | 0.0 | | | G0/10 |
| 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° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 |
| 2.5° | 525.4 | 506.5 | 475.9 | 493.1 | 492.0 | 500.9 | 484.2 | 465.9 | 436.4 | 465.9 | 468.1 |
| 5° | 756.4 | 721.4 | 699.1 | 694.6 | 670.1 | 647.3 | 642.3 | 623.4 | 608.9 | 582.8 | 606.1 |
| 7.5° | 942.3 | 926.2 | 886.7 | 882.2 | 822.1 | 788.7 | 799.3 | 790.9 | 735.8 | 708.6 | 731.4 |
| 10° | 1021.4 | 993.5 | 999.1 | 993.5 | 967.9 | 977.4 | 955.7 | 930.6 | 886.7 | 841.6 | 784.8 |
| 12.5° | 1052.0 | 1047.5 | 1093.7 | 1088.2 | 1148.3 | 1220.6 | 1172.2 | 1130.5 | 1028.6 | 1017.5 | 940.1 |
| 15° | 1117.7 | 1145.5 | 1138.8 | 1162.2 | 1200.6 | 1323.6 | 1322.5 | 1332.5 | 1224.5 | 1166.6 | 1054.8 |
| 17.5° | 1176.1 | 1196.7 | 1163.3 | 1190.0 | 1294.7 | 1369.2 | 1468.9 | 1429.9 | 1442.2 | 1383.2 | 1210.0 |
| 20° | 1151.0 | 1174.4 | 1141.0 | 1124.9 | 1309.1 | 1450.5 | 1583.5 | 1555.1 | 1628.6 | 1591.9 | 1353.1 |
| 22.5° | 1307.5 | 1263.5 | 1179.4 | 1127.1 | 1264.6 | 1448.8 | 1624.2 | 1742.7 | 1729.9 | 1639.7 | 1486.1 |
| 25° | 1500.6 | 1473.9 | 1373.1 | 1280.7 | 1293.0 | 1438.8 | 1752.2 | 1926.4 | 1964.2 | 1925.8 | 1612.5 |
| 27.5° | 1761.1 | 1755.0 | 1549.0 | 1508.9 | 1389.8 | 1394.8 | 1772.2 | 2157.9 | 2071.7 | 2011.6 | 1760.0 |
| 30° | 2101.2 | 2052.7 | 1808.4 | 1756.1 | 1580.2 | 1493.9 | 1894.7 | 2357.8 | 2294.3 | 2212.5 | 1898.6 |
| 32.5° | 2466.9 | 2474.1 | 2162.4 | 1989.8 | 1848.5 | 1746.1 | 1846.2 | 2451.3 | 2569.8 | 2503.6 | 2071.7 |
| 35° | 2882.1 | 2914.4 | 2533.1 | 2330.5 | 2055.5 | 1904.7 | 2054.4 | 2738.5 | 2951.1 | 2776.9 | 2303.8 |
| 37.5° | 3521.6 | 3520.5 | 3075.2 | 2671.7 | 2471.9 | 2308.2 | 2401.2 | 2999.5 | 3419.8 | 3174.8 | 2720.1 |
| 40° | 4084.3 | 3961.9 | 3547.8 | 3084.1 | 2772.4 | 2727.9 | 2660.6 | 3356.9 | 3920.1 | 3772.6 | 3090.2 |
| 42.5° | 4504.6 | 4418.3 | 3917.9 | 3557.2 | 3171.0 | 3029.6 | 3005.6 | 3880.6 | 4658.7 | 4452.2 | 3618.5 |
| 45° | 5007.2 | 4724.4 | 4356.0 | 4030.9 | 3637.4 | 3596.2 | 3540.0 | 4412.2 | 5518.1 | 5052.8 | 4077.7 |
| 47.5° | 5457.5 | 5191.4 | 4843.0 | 4425.5 | 3973.6 | 4313.1 | 4097.1 | 4879.2 | 6143.2 | 5706.3 | 4584.2 |
| 50° | 5836.5 | 5553.8 | 5163.6 | 4845.8 | 4652.1 | 4882.5 | 4522.4 | 5263.8 | 6818.4 | 6464.4 | 5057.8 |
| 52.5° | 6029.7 | 5709.6 | 5407.9 | 5211.4 | 5330.0 | 5278.2 | 5099.0 | 5729.6 | 7393.9 | 7128.9 | 5477.5 |
| 55° | 5871.0 | 5558.2 | 5431.9 | 5529.3 | 5889.4 | 5739.7 | 5754.1 | 6451.6 | 7937.1 | 7572.0 | 5842.6 |
| 57.5° | 5167.5 | 4881.9 | 4938.2 | 5204.8 | 5895.0 | 6286.8 | 6501.1 | 7152.9 | 8372.9 | 8124.1 | 6405.9 |
| 60° | 3909.0 | 3679.1 | 3887.3 | 4360.4 | 5340.6 | 6177.7 | 7031.0 | 7854.2 | 8995.8 | 8917.9 | 7258.6 |
| 62.5° | 2387.3 | 2262.6 | 2557.6 | 3147.6 | 4255.8 | 5642.8 | 7339.9 | 8789.3 | 9662.0 | 9745.0 | 8163.1 |
| 65° | 1217.8 | 1161.6 | 1407.6 | 1926.4 | 2875.4 | 4635.4 | 7116.7 | 9370.4 | 10350.5 | 10656.7 | 9025.3 |
| 67.5° | 767.0 | 730.8 | 862.2 | 1175.0 | 1696.5 | 3023.5 | 6231.1 | 9878.5 | 10837.0 | 11079.1 | 9313.0 |
| 70° | 531.6 | 508.7 | 622.3 | 806.5 | 1070.3 | 1628.6 | 4626.5 | 9404.3 | 10451.3 | 10462.4 | 8616.7 |
| 72.5° | 337.3 | 319.5 | 430.3 | 597.2 | 789.8 | 841.0 | 2652.2 | 7379.4 | 8946.2 | 8843.3 | 6978.1 |
| 75° | 218.7 | 209.8 | 273.3 | 437.5 | 606.7 | 518.8 | 1310.8 | 4979.3 | 6414.8 | 6253.4 | 4634.8 |
| 77.5° | 157.0 | 151.4 | 183.1 | 292.2 | 431.9 | 362.9 | 587.8 | 2967.8 | 3678.0 | 3325.1 | 2249.8 |
| 80° | 94.6 | 94.1 | 132.5 | 183.1 | 307.2 | 256.0 | 271.6 | 1347.5 | 1426.0 | 1162.7 | 687.4 |
| 82.5° | 47.3 | 49.0 | 74.0 | 118.0 | 197.6 | 167.5 | 124.1 | 448.6 | 382.9 | 282.2 | 139.2 |
| 85° | 11.1 | 13.9 | 39.0 | 81.3 | 99.1 | 66.8 | 59.0 | 117.4 | 105.2 | 79.6 | 40.6 |
| 87.5° | 0.0 | 0.0 | 12.2 | 19.5 | 26.7 | 11.1 | 20.0 | 22.3 | 28.4 | 22.3 | 8.3 |
| 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° | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 | 389.1 |
| 2.5° | 468.7 | 462.0 | 421.3 | 410.8 | 409.7 | 398.0 | 400.8 | 389.6 | 390.2 | 415.2 | 415.2 |
| 5° | 597.2 | 558.3 | 519.3 | 484.8 | 461.4 | 428.0 | 415.8 | 410.8 | 406.3 | 416.3 | 422.5 |
| 7.5° | 701.3 | 644.0 | 573.9 | 498.7 | 429.1 | 381.3 | 374.6 | 362.3 | 357.9 | 367.9 | 375.7 |
| 10° | 747.5 | 676.3 | 580.0 | 470.3 | 405.2 | 366.2 | 334.0 | 316.7 | 313.4 | 312.8 | 315.6 |
| 12.5° | 845.5 | 757.0 | 586.7 | 459.8 | 389.1 | 346.2 | 309.5 | 280.5 | 253.8 | 256.6 | 253.8 |
| 15° | 924.0 | 819.3 | 586.7 | 434.1 | 350.1 | 307.2 | 242.7 | 228.2 | 224.3 | 230.4 | 225.4 |
| 17.5° | 1042.5 | 881.1 | 557.2 | 388.5 | 316.7 | 238.8 | 214.3 | 213.2 | 221.0 | 229.9 | 224.3 |
| 20° | 1113.8 | 889.4 | 507.6 | 336.2 | 259.9 | 207.1 | 198.1 | 189.2 | 200.4 | 207.6 | 204.8 |
| 22.5° | 1187.8 | 890.0 | 458.1 | 308.4 | 209.3 | 188.7 | 174.2 | 167.0 | 168.6 | 175.3 | 176.4 |
| 25° | 1219.5 | 868.3 | 411.9 | 271.6 | 189.8 | 168.6 | 153.6 | 145.8 | 143.0 | 146.4 | 145.3 |
| 27.5° | 1305.8 | 826.6 | 361.8 | 231.5 | 180.3 | 149.7 | 135.8 | 126.3 | 118.0 | 123.6 | 124.7 |
| 30° | 1318.0 | 813.2 | 334.5 | 205.9 | 168.1 | 132.5 | 120.2 | 110.2 | 104.1 | 111.9 | 111.9 |
| 32.5° | 1357.0 | 739.7 | 320.6 | 195.4 | 155.3 | 122.5 | 105.8 | 98.5 | 97.4 | 102.4 | 103.0 |
| 35° | 1417.1 | 707.4 | 300.0 | 187.0 | 143.6 | 110.8 | 95.2 | 91.8 | 90.7 | 94.6 | 94.6 |
| 37.5° | 1620.8 | 667.4 | 277.2 | 179.8 | 133.6 | 104.6 | 92.4 | 86.8 | 87.4 | 90.7 | 93.0 |
| 40° | 1756.1 | 672.4 | 243.2 | 170.9 | 121.9 | 99.1 | 86.8 | 82.9 | 82.4 | 84.0 | 85.7 |
| 42.5° | 2007.1 | 676.3 | 228.2 | 161.4 | 113.0 | 92.4 | 81.3 | 78.5 | 76.3 | 77.9 | 79.6 |
| 45° | 2287.6 | 696.9 | 220.4 | 153.6 | 108.0 | 88.5 | 76.3 | 74.6 | 69.6 | 70.7 | 72.9 |
| 47.5° | 2558.1 | 772.0 | 211.0 | 142.5 | 103.5 | 86.3 | 71.2 | 67.3 | 64.0 | 63.5 | 65.7 |
| 50° | 2865.4 | 844.9 | 200.4 | 130.2 | 99.1 | 82.9 | 66.2 | 60.1 | 57.9 | 57.9 | 59.6 |
| 52.5° | 3140.3 | 914.5 | 190.4 | 121.9 | 95.7 | 76.8 | 61.8 | 55.7 | 54.0 | 54.0 | 56.2 |
| 55° | 3429.8 | 987.4 | 181.5 | 114.1 | 91.3 | 70.7 | 57.9 | 52.3 | 51.8 | 50.7 | 52.3 |
| 57.5° | 3940.7 | 1146.6 | 170.3 | 107.4 | 85.2 | 65.7 | 54.5 | 49.0 | 47.9 | 46.2 | 47.9 |
| 60° | 4684.9 | 1390.9 | 155.8 | 100.7 | 77.9 | 62.3 | 51.8 | 45.1 | 43.4 | 40.6 | 41.2 |
| 62.5° | 5412.4 | 1588.5 | 139.2 | 92.4 | 71.2 | 59.0 | 47.3 | 40.6 | 37.8 | 34.5 | 35.1 |
| 65° | 6035.8 | 1666.5 | 121.3 | 82.4 | 64.6 | 51.2 | 41.2 | 35.6 | 31.7 | 27.3 | 26.7 |
| 67.5° | 6109.2 | 1471.7 | 104.1 | 72.9 | 57.9 | 43.4 | 35.1 | 31.7 | 25.6 | 21.7 | 20.6 |
| 70° | 5498.1 | 1096.5 | 86.8 | 64.6 | 50.1 | 36.7 | 30.1 | 27.8 | 23.9 | 20.6 | 18.9 |
| 72.5° | 4378.2 | 809.3 | 72.9 | 57.3 | 44.0 | 31.2 | 25.6 | 26.2 | 23.9 | 20.0 | 17.8 |
| 75° | 2895.4 | 463.1 | 59.6 | 47.9 | 36.7 | 25.0 | 23.4 | 23.4 | 22.8 | 18.9 | 16.7 |
| 77.5° | 1393.2 | 199.8 | 45.6 | 37.8 | 29.5 | 18.9 | 21.2 | 21.2 | 21.7 | 17.3 | 13.9 |
| 80° | 395.2 | 60.1 | 28.4 | 25.6 | 21.7 | 12.8 | 16.7 | 16.1 | 14.5 | 10.0 | 6.1 |
| 82.5° | 70.7 | 23.4 | 12.8 | 13.4 | 12.2 | 5.0 | 9.5 | 8.9 | 7.2 | 3.9 | 0.6 |
| 85° | 19.5 | 8.9 | 7.2 | 7.8 | 6.1 | 1.7 | 3.9 | 5.0 | 3.9 | 2.2 | 0.0 |
| 87.5° | 5.0 | 3.9 | 5.0 | 5.6 | 4.5 | 0.6 | 1.7 | 0.6 | 1.7 | 0.6 | 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)