

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: P598073

Luminaire Tested: **PMM-SA3A-827-U-T2-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3A-827-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: 6504 lumens
Efficiency: N/A
Efficacy: 67.8 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): 96
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

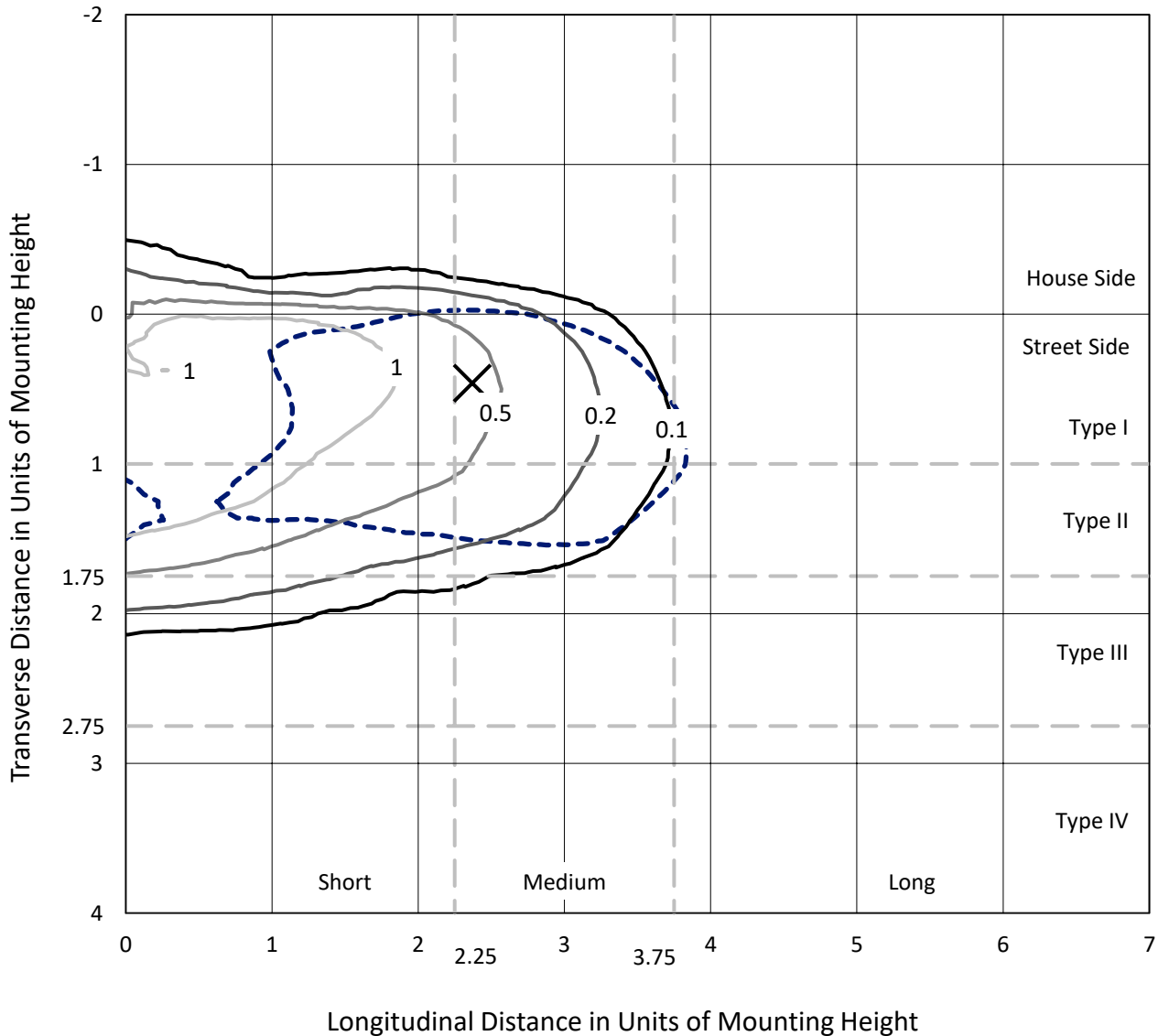


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Iso-Footcandle Lines of Horizontal Illumination

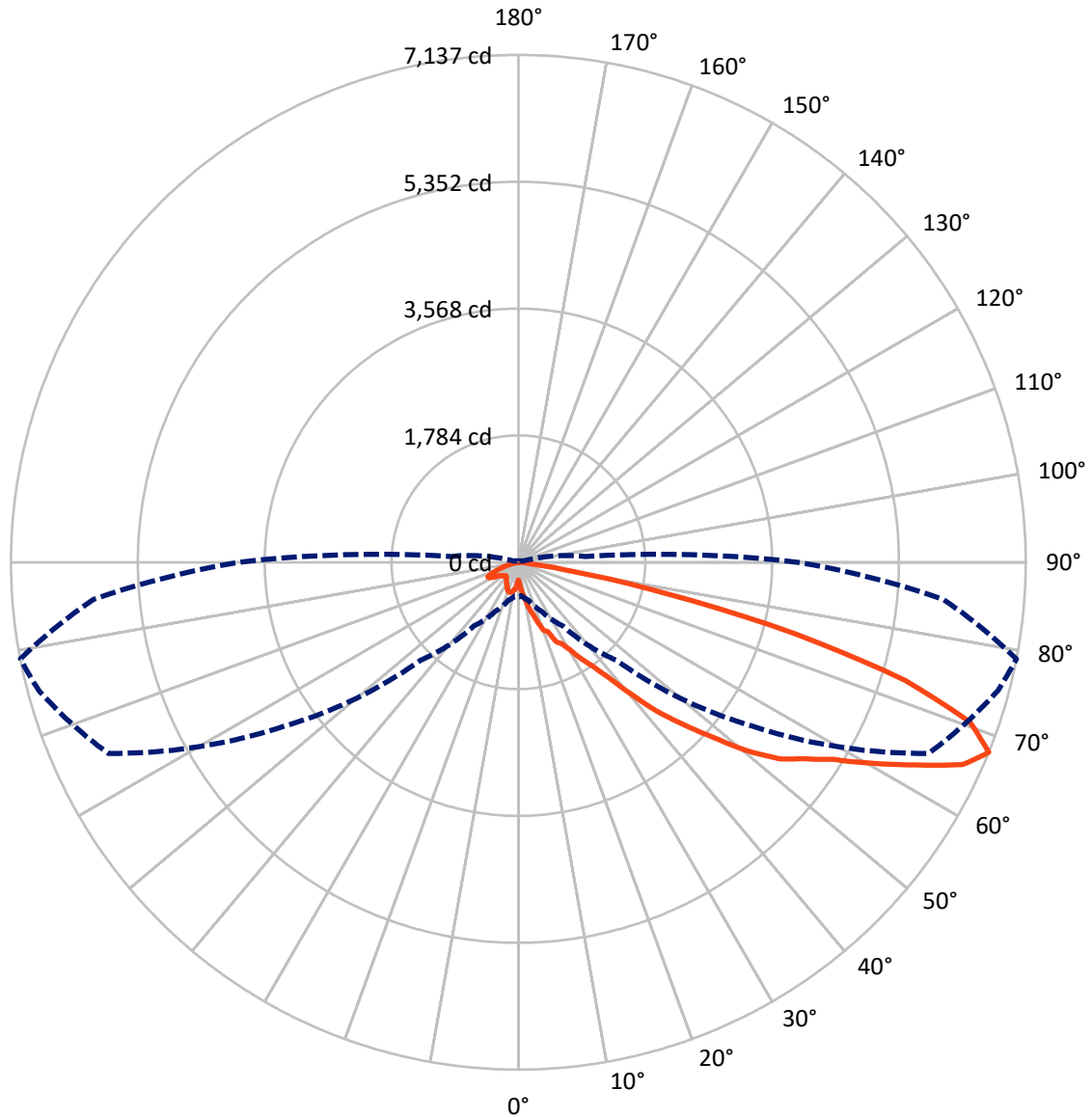
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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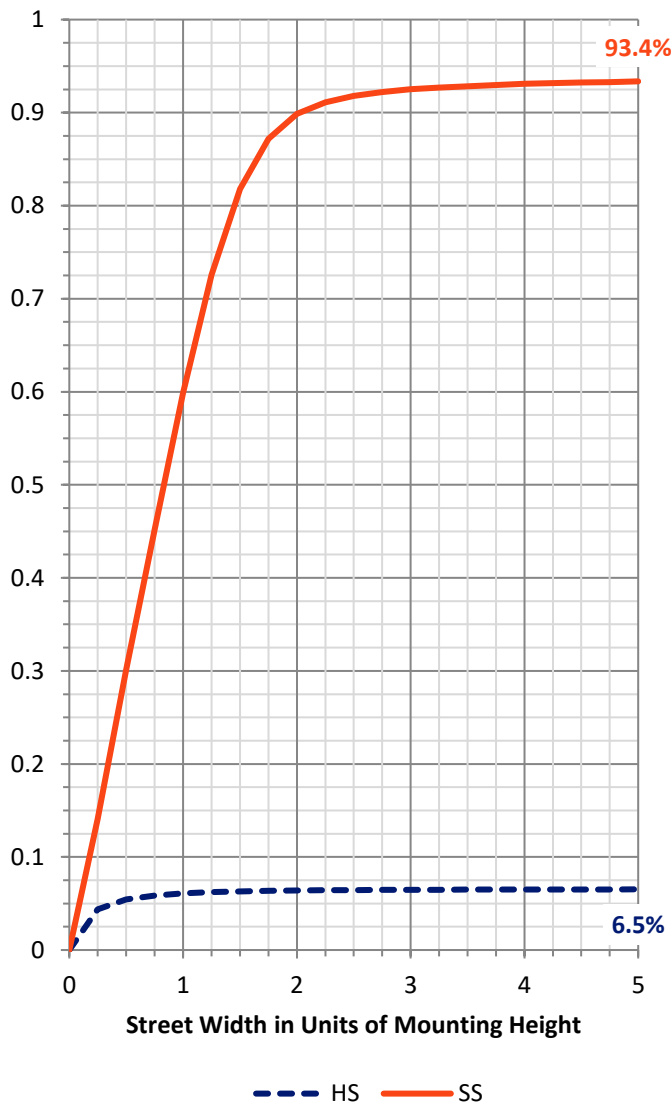
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 427.4 | 0.0 | 427.4 |
| | % Fixture | 6.6 | 0.0 | 6.6 |
| Street Side | Lumens | 6076.6 | 0.0 | 6076.6 |
| | % Fixture | 93.4 | 0.0 | 93.4 |
| Total | Lumens | 6504.0 | 0.0 | 6504.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 36.4 | 0.6 |
| 10°-20° | 145.3 | 2.2 |
| 20°-30° | 280.4 | 4.3 |
| 30°-40° | 550.8 | 8.5 |
| 40°-50° | 1103.3 | 17.0 |
| 50°-60° | 1763.5 | 27.1 |
| 60°-70° | 1774.4 | 27.3 |
| 70°-80° | 800.5 | 12.3 |
| 80°-90° | 49.5 | 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° | 6504.0 | 100.0 |
| 0°-180° | 6504.0 | 100.0 |



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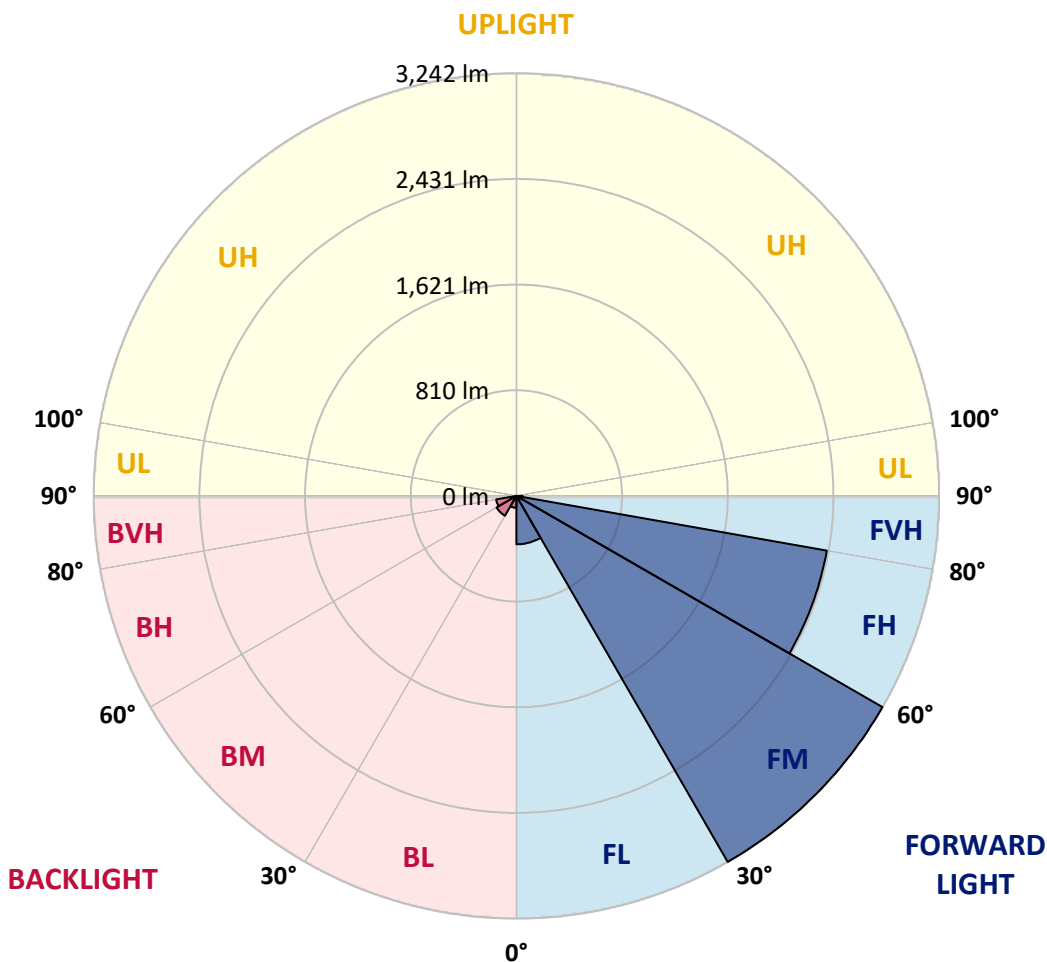
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 371.3 | 5.7 | | | |
| FM (30°-60°) | 3241.7 | 49.8 | | | |
| FH (60°-80°) | 2417.3 | 37.2 | | | G2/5000 |
| FVH (80°-90°) | 46.4 | 0.7 | | | G1/100 |
| BL (0°-30°) | 90.8 | 1.4 | B0/110 | | |
| BM (30°-60°) | 175.8 | 2.7 | B0/220 | | |
| BH (60°-80°) | 157.5 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.2 | 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° | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 |
| 2.5° | 338.5 | 326.3 | 306.5 | 317.7 | 316.9 | 322.7 | 311.9 | 300.1 | 281.1 | 300.1 | 301.5 |
| 5° | 487.2 | 464.7 | 450.3 | 447.5 | 431.7 | 417.0 | 413.7 | 401.6 | 392.2 | 375.4 | 390.4 |
| 7.5° | 607.0 | 596.6 | 571.1 | 568.3 | 529.6 | 508.0 | 514.9 | 509.5 | 474.0 | 456.4 | 471.1 |
| 10° | 657.9 | 640.0 | 643.6 | 640.0 | 623.5 | 629.6 | 615.6 | 599.5 | 571.1 | 542.1 | 505.5 |
| 12.5° | 677.6 | 674.8 | 704.5 | 700.9 | 739.7 | 786.3 | 755.1 | 728.2 | 662.6 | 655.4 | 605.6 |
| 15° | 719.9 | 737.9 | 733.6 | 748.6 | 773.4 | 852.6 | 851.9 | 858.3 | 788.8 | 751.5 | 679.4 |
| 17.5° | 757.6 | 770.9 | 749.3 | 766.5 | 834.0 | 882.0 | 946.2 | 921.1 | 929.0 | 891.0 | 779.5 |
| 20° | 741.5 | 756.5 | 735.0 | 724.6 | 843.3 | 934.3 | 1020.0 | 1001.7 | 1049.1 | 1025.4 | 871.6 |
| 22.5° | 842.2 | 813.9 | 759.7 | 726.0 | 814.6 | 933.3 | 1046.2 | 1122.6 | 1114.3 | 1056.2 | 957.3 |
| 25° | 966.6 | 949.4 | 884.5 | 825.0 | 832.9 | 926.8 | 1128.7 | 1240.9 | 1265.3 | 1240.5 | 1038.7 |
| 27.5° | 1134.4 | 1130.5 | 997.8 | 972.0 | 895.3 | 898.5 | 1141.6 | 1390.0 | 1334.5 | 1295.7 | 1133.7 |
| 30° | 1353.5 | 1322.3 | 1164.9 | 1131.2 | 1017.9 | 962.3 | 1220.5 | 1518.8 | 1477.9 | 1425.2 | 1223.0 |
| 32.5° | 1589.0 | 1593.7 | 1392.9 | 1281.8 | 1190.7 | 1124.7 | 1189.3 | 1579.0 | 1655.4 | 1612.7 | 1334.5 |
| 35° | 1856.5 | 1877.3 | 1631.7 | 1501.2 | 1324.1 | 1226.9 | 1323.4 | 1764.0 | 1901.0 | 1788.7 | 1484.0 |
| 37.5° | 2268.5 | 2267.7 | 1980.9 | 1721.0 | 1592.3 | 1486.8 | 1546.7 | 1932.1 | 2202.8 | 2045.1 | 1752.2 |
| 40° | 2630.9 | 2552.1 | 2285.3 | 1986.6 | 1785.9 | 1757.2 | 1713.8 | 2162.3 | 2525.2 | 2430.2 | 1990.6 |
| 42.5° | 2901.6 | 2846.1 | 2523.7 | 2291.4 | 2042.6 | 1951.5 | 1936.1 | 2499.7 | 3000.9 | 2867.9 | 2330.8 |
| 45° | 3225.4 | 3043.2 | 2805.9 | 2596.5 | 2343.0 | 2316.5 | 2280.3 | 2842.1 | 3554.5 | 3254.8 | 2626.6 |
| 47.5° | 3515.4 | 3344.1 | 3119.6 | 2850.7 | 2559.6 | 2778.3 | 2639.2 | 3142.9 | 3957.2 | 3675.7 | 2952.9 |
| 50° | 3759.6 | 3577.5 | 3326.1 | 3121.4 | 2996.6 | 3145.1 | 2913.1 | 3390.7 | 4392.1 | 4164.0 | 3258.0 |
| 52.5° | 3884.0 | 3677.9 | 3483.5 | 3357.0 | 3433.3 | 3400.0 | 3284.5 | 3690.8 | 4762.8 | 4592.1 | 3528.3 |
| 55° | 3781.8 | 3580.3 | 3498.9 | 3561.7 | 3793.7 | 3697.2 | 3706.5 | 4155.8 | 5112.7 | 4877.5 | 3763.5 |
| 57.5° | 3328.6 | 3144.7 | 3180.9 | 3352.7 | 3797.2 | 4049.7 | 4187.7 | 4607.5 | 5393.4 | 5233.2 | 4126.4 |
| 60° | 2518.0 | 2369.9 | 2504.0 | 2808.8 | 3440.1 | 3979.4 | 4529.0 | 5059.3 | 5794.6 | 5744.4 | 4675.7 |
| 62.5° | 1537.8 | 1457.4 | 1647.5 | 2027.5 | 2741.4 | 3634.8 | 4728.0 | 5661.6 | 6223.8 | 6277.2 | 5258.3 |
| 65° | 784.5 | 748.3 | 906.7 | 1240.9 | 1852.2 | 2985.9 | 4584.2 | 6035.9 | 6667.3 | 6864.5 | 5813.6 |
| 67.5° | 494.1 | 470.8 | 555.4 | 756.9 | 1092.8 | 1947.6 | 4013.8 | 6363.3 | 6980.7 | 7136.6 | 5999.0 |
| 70° | 342.4 | 327.7 | 400.8 | 519.5 | 689.5 | 1049.1 | 2980.1 | 6057.8 | 6732.2 | 6739.4 | 5550.5 |
| 72.5° | 217.3 | 205.8 | 277.1 | 384.7 | 508.8 | 541.7 | 1708.4 | 4753.5 | 5762.7 | 5696.4 | 4495.0 |
| 75° | 140.9 | 135.2 | 176.0 | 281.8 | 390.8 | 334.2 | 844.4 | 3207.5 | 4132.1 | 4028.1 | 2985.5 |
| 77.5° | 101.1 | 97.5 | 118.0 | 188.2 | 278.2 | 233.8 | 378.6 | 1911.7 | 2369.2 | 2141.9 | 1449.2 |
| 80° | 61.0 | 60.6 | 85.3 | 118.0 | 197.9 | 164.9 | 175.0 | 868.0 | 918.6 | 749.0 | 442.8 |
| 82.5° | 30.5 | 31.6 | 47.7 | 76.0 | 127.3 | 107.9 | 80.0 | 289.0 | 246.7 | 181.8 | 89.6 |
| 85° | 7.2 | 9.0 | 25.1 | 52.3 | 63.8 | 43.0 | 38.0 | 75.7 | 67.8 | 51.3 | 26.2 |
| 87.5° | 0.0 | 0.0 | 7.9 | 12.5 | 17.2 | 7.2 | 12.9 | 14.3 | 18.3 | 14.3 | 5.4 |
| 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° | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 | 250.6 |
| 2.5° | 301.9 | 297.6 | 271.4 | 264.6 | 263.9 | 256.4 | 258.1 | 251.0 | 251.3 | 267.5 | 267.5 |
| 5° | 384.7 | 359.6 | 334.5 | 312.3 | 297.2 | 275.7 | 267.8 | 264.6 | 261.7 | 268.2 | 272.1 |
| 7.5° | 451.8 | 414.8 | 369.6 | 321.2 | 276.4 | 245.6 | 241.3 | 233.4 | 230.5 | 237.0 | 242.0 |
| 10° | 481.5 | 435.6 | 373.6 | 303.0 | 261.0 | 235.9 | 215.1 | 204.0 | 201.9 | 201.5 | 203.3 |
| 12.5° | 544.6 | 487.6 | 377.9 | 296.2 | 250.6 | 223.0 | 199.3 | 180.7 | 163.5 | 165.3 | 163.5 |
| 15° | 595.2 | 527.8 | 377.9 | 279.7 | 225.5 | 197.9 | 156.3 | 147.0 | 144.5 | 148.4 | 145.2 |
| 17.5° | 671.5 | 567.6 | 358.9 | 250.3 | 204.0 | 153.8 | 138.0 | 137.3 | 142.3 | 148.1 | 144.5 |
| 20° | 717.4 | 572.9 | 327.0 | 216.6 | 167.4 | 133.4 | 127.6 | 121.9 | 129.1 | 133.7 | 131.9 |
| 22.5° | 765.1 | 573.3 | 295.1 | 198.6 | 134.8 | 121.5 | 112.2 | 107.6 | 108.6 | 112.9 | 113.7 |
| 25° | 785.6 | 559.3 | 265.3 | 175.0 | 122.3 | 108.6 | 99.0 | 93.9 | 92.1 | 94.3 | 93.6 |
| 27.5° | 841.1 | 532.4 | 233.0 | 149.2 | 116.2 | 96.4 | 87.5 | 81.4 | 76.0 | 79.6 | 80.3 |
| 30° | 849.0 | 523.8 | 215.5 | 132.7 | 108.3 | 85.3 | 77.4 | 71.0 | 67.0 | 72.1 | 72.1 |
| 32.5° | 874.1 | 476.5 | 206.5 | 125.8 | 100.0 | 78.9 | 68.1 | 63.5 | 62.7 | 66.0 | 66.3 |
| 35° | 912.8 | 455.7 | 193.3 | 120.5 | 92.5 | 71.3 | 61.3 | 59.2 | 58.4 | 61.0 | 61.0 |
| 37.5° | 1044.1 | 429.9 | 178.6 | 115.8 | 86.0 | 67.4 | 59.5 | 55.9 | 56.3 | 58.4 | 59.9 |
| 40° | 1131.2 | 433.1 | 156.7 | 110.1 | 78.5 | 63.8 | 55.9 | 53.4 | 53.1 | 54.1 | 55.2 |
| 42.5° | 1292.9 | 435.6 | 147.0 | 104.0 | 72.8 | 59.5 | 52.3 | 50.6 | 49.1 | 50.2 | 51.3 |
| 45° | 1473.6 | 448.9 | 142.0 | 99.0 | 69.6 | 57.0 | 49.1 | 48.0 | 44.8 | 45.5 | 47.0 |
| 47.5° | 1647.8 | 497.3 | 135.9 | 91.8 | 66.7 | 55.6 | 45.9 | 43.4 | 41.2 | 40.9 | 42.3 |
| 50° | 1845.7 | 544.3 | 129.1 | 83.9 | 63.8 | 53.4 | 42.7 | 38.7 | 37.3 | 37.3 | 38.4 |
| 52.5° | 2022.9 | 589.1 | 122.6 | 78.5 | 61.7 | 49.5 | 39.8 | 35.9 | 34.8 | 34.8 | 36.2 |
| 55° | 2209.3 | 636.0 | 116.9 | 73.5 | 58.8 | 45.5 | 37.3 | 33.7 | 33.3 | 32.6 | 33.7 |
| 57.5° | 2538.4 | 738.6 | 109.7 | 69.2 | 54.9 | 42.3 | 35.1 | 31.6 | 30.8 | 29.8 | 30.8 |
| 60° | 3017.8 | 896.0 | 100.4 | 64.9 | 50.2 | 40.2 | 33.3 | 29.0 | 28.0 | 26.2 | 26.5 |
| 62.5° | 3486.4 | 1023.3 | 89.6 | 59.5 | 45.9 | 38.0 | 30.5 | 26.2 | 24.4 | 22.2 | 22.6 |
| 65° | 3888.0 | 1073.5 | 78.2 | 53.1 | 41.6 | 33.0 | 26.5 | 22.9 | 20.4 | 17.6 | 17.2 |
| 67.5° | 3935.3 | 948.0 | 67.0 | 47.0 | 37.3 | 28.0 | 22.6 | 20.4 | 16.5 | 14.0 | 13.3 |
| 70° | 3541.6 | 706.3 | 55.9 | 41.6 | 32.3 | 23.7 | 19.4 | 17.9 | 15.4 | 13.3 | 12.2 |
| 72.5° | 2820.2 | 521.3 | 47.0 | 36.9 | 28.3 | 20.1 | 16.5 | 16.9 | 15.4 | 12.9 | 11.5 |
| 75° | 1865.1 | 298.3 | 38.4 | 30.8 | 23.7 | 16.1 | 15.1 | 15.1 | 14.7 | 12.2 | 10.8 |
| 77.5° | 897.4 | 128.7 | 29.4 | 24.4 | 19.0 | 12.2 | 13.6 | 13.6 | 14.0 | 11.1 | 9.0 |
| 80° | 254.6 | 38.7 | 18.3 | 16.5 | 14.0 | 8.2 | 10.8 | 10.4 | 9.3 | 6.5 | 3.9 |
| 82.5° | 45.5 | 15.1 | 8.2 | 8.6 | 7.9 | 3.2 | 6.1 | 5.7 | 4.7 | 2.5 | 0.4 |
| 85° | 12.5 | 5.7 | 4.7 | 5.0 | 3.9 | 1.1 | 2.5 | 3.2 | 2.5 | 1.4 | 0.0 |
| 87.5° | 3.2 | 2.5 | 3.2 | 3.6 | 2.9 | 0.4 | 1.1 | 0.4 | 1.1 | 0.4 | 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)