

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: P413887

Luminaire Tested: **LXF.LXT-PA1-100-750-U-SL3-HSS**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P413887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2002-662-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-100-750-U-SL3-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8410 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
Input Voltage (V): NR
Input Current (A_{in}): 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

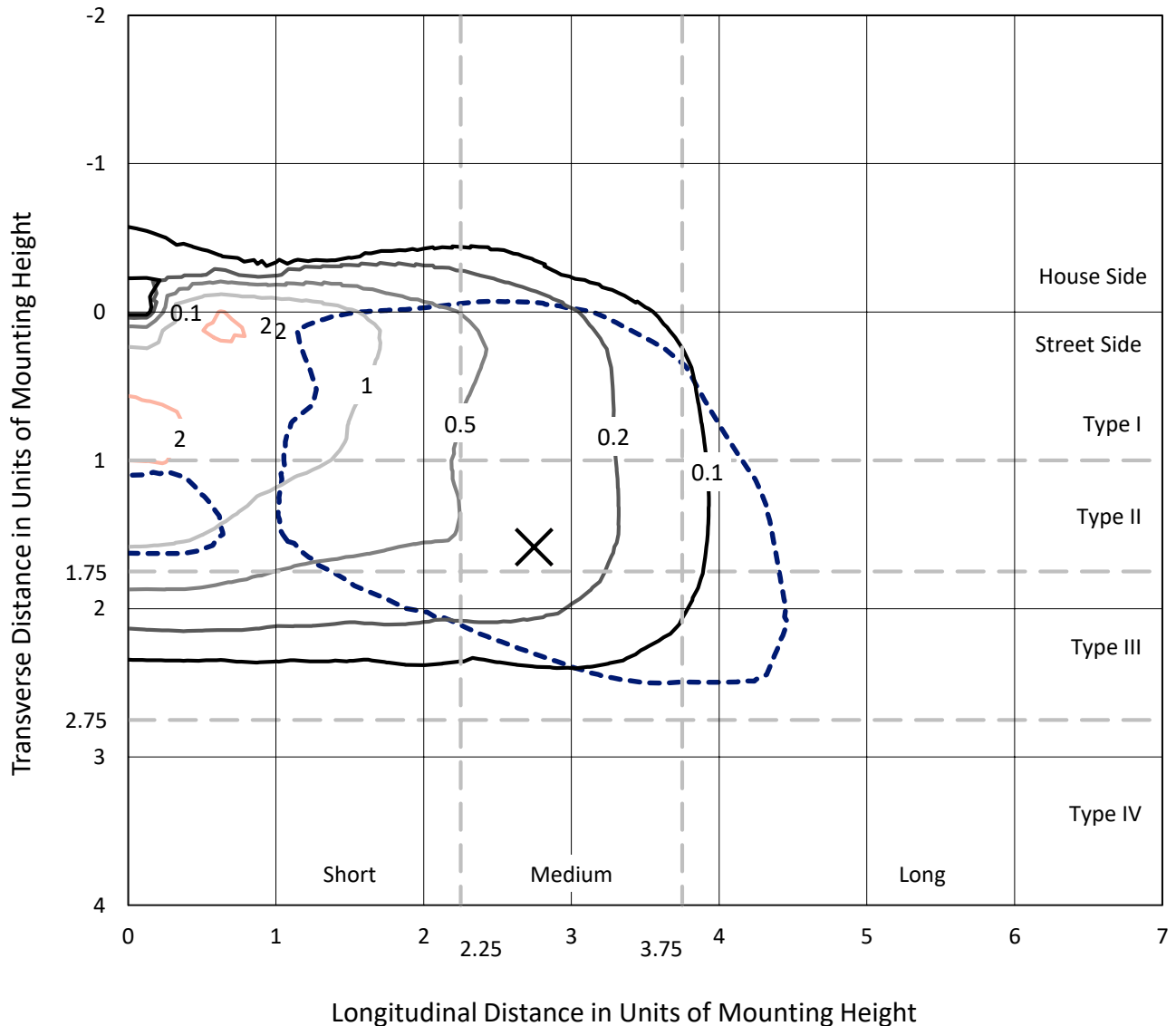


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Iso-Footcandle Lines of Horizontal Illumination

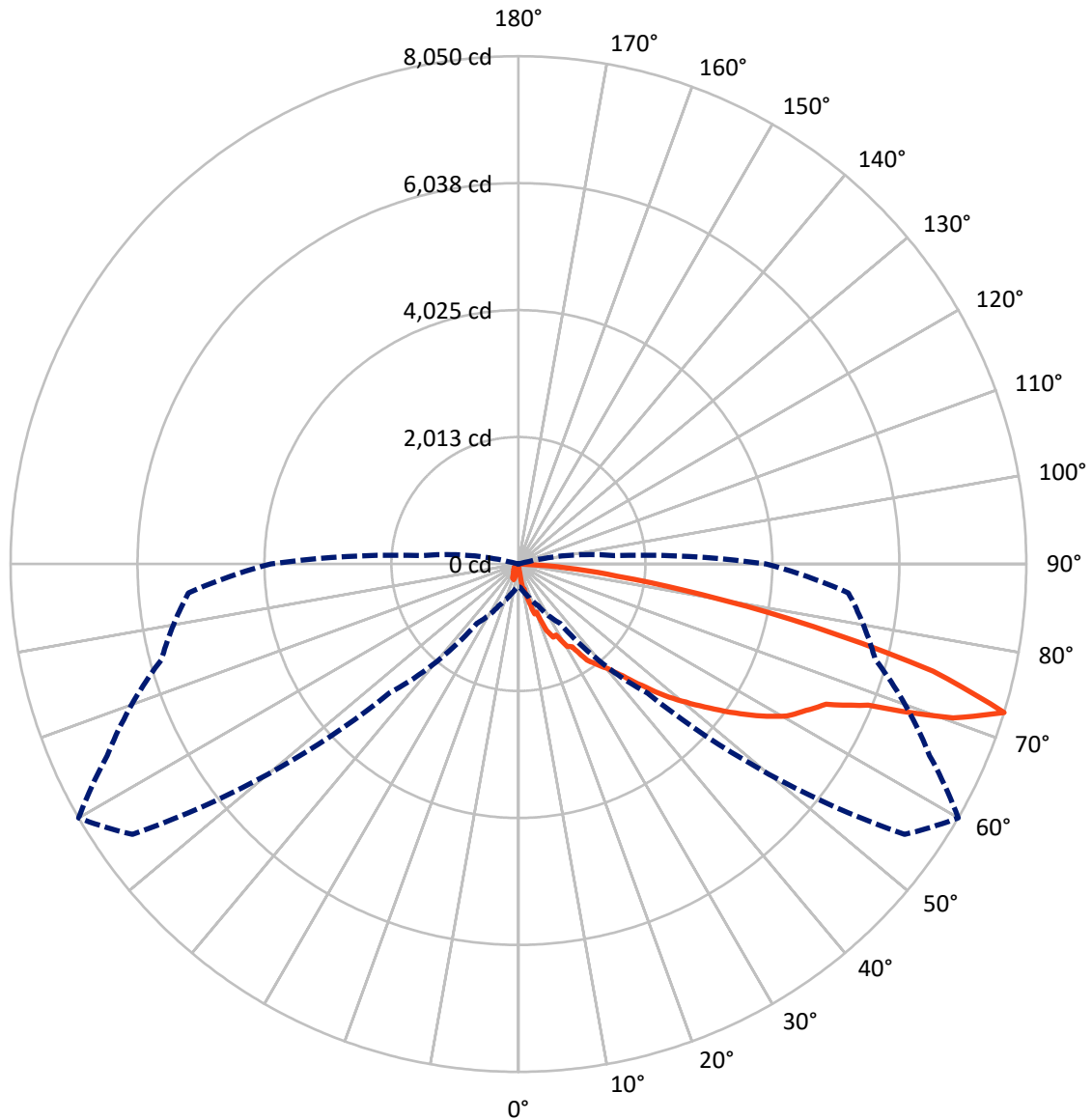
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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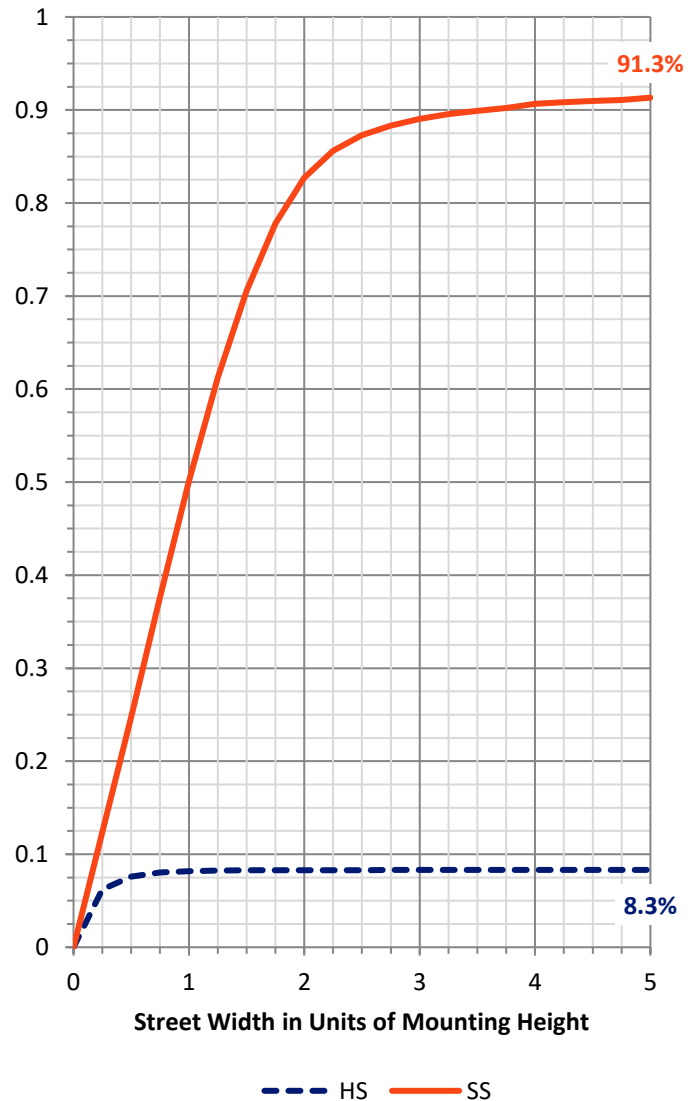
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 705.4 | 0.0 | 705.4 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 7704.6 | 0.0 | 7704.6 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 8410.0 | 0.0 | 8410.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 11.3 | 0.1 |
| 10°-20° | 117.2 | 1.4 |
| 20°-30° | 366.3 | 4.4 |
| 30°-40° | 789.7 | 9.4 |
| 40°-50° | 1342.7 | 16.0 |
| 50°-60° | 1985.1 | 23.6 |
| 60°-70° | 2159.3 | 25.7 |
| 70°-80° | 1471.6 | 17.5 |
| 80°-90° | 166.9 | 2.0 |
| 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° | 8410.0 | 100.0 |
| 0°-180° | 8410.0 | 100.0 |



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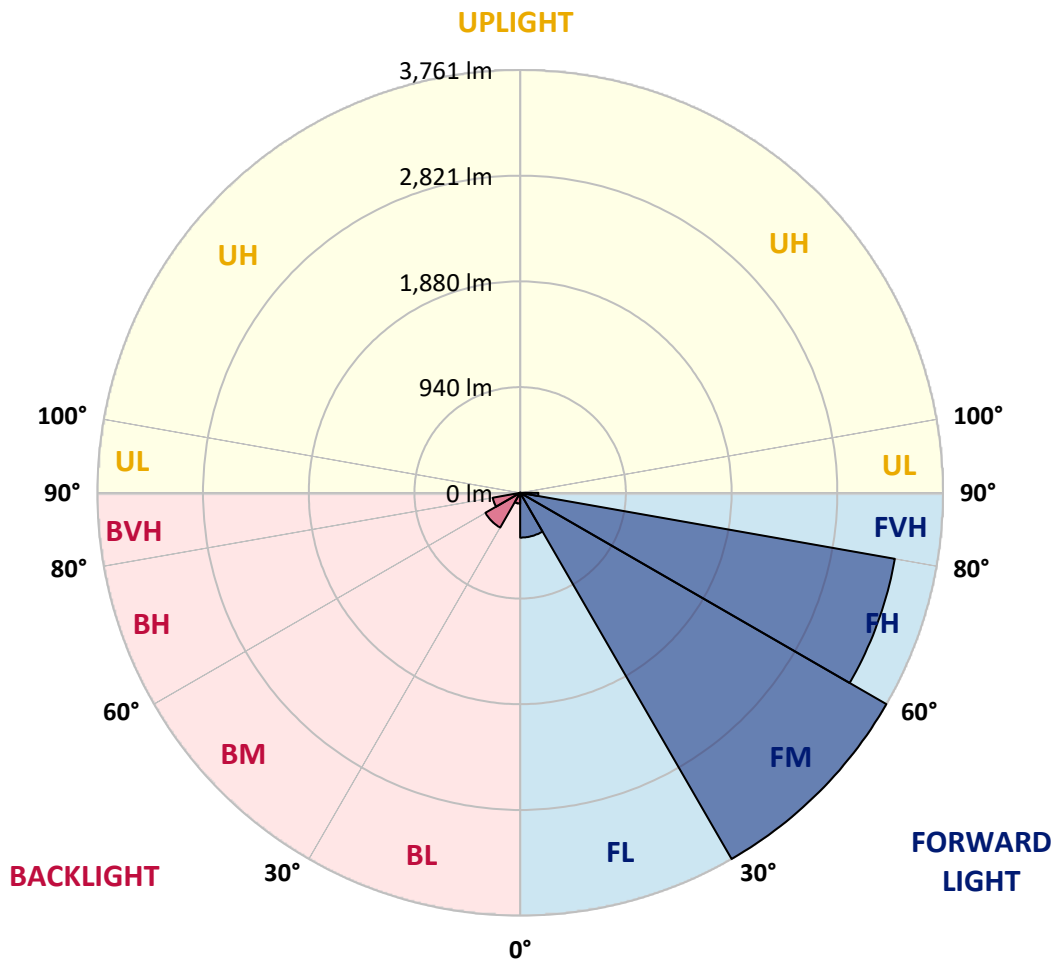
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 398.3 | 4.7 | | | |
| FM | (30°-60°) | 3760.8 | 44.7 | | | |
| FH | (60°-80°) | 3383.7 | 40.2 | | | G2/5000 |
| FVH | (80°-90°) | 161.9 | 1.9 | | | G2/225 |
| BL | (0°-30°) | 96.4 | 1.1 | B0/110 | | |
| BM | (30°-60°) | 356.7 | 4.2 | B1/1000 | | |
| BH | (60°-80°) | 247.2 | 2.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 5.1 | 0.1 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 2.5° | 7.6 | 5.5 | 5.5 | 4.4 | 3.3 | 3.3 | 3.3 | 4.4 | 4.4 | 3.3 | 4.4 |
| 5° | 430.2 | 424.7 | 424.7 | 426.9 | 277.3 | 46.9 | 26.2 | 10.9 | 4.4 | 4.4 | 4.4 |
| 7.5° | 408.3 | 404.0 | 406.2 | 411.6 | 414.9 | 420.4 | 420.4 | 128.8 | 41.5 | 4.4 | 4.4 |
| 10° | 418.2 | 414.9 | 397.4 | 394.1 | 400.7 | 406.2 | 408.3 | 418.2 | 406.2 | 12.0 | 4.4 |
| 12.5° | 735.9 | 730.4 | 730.4 | 740.3 | 430.2 | 393.1 | 397.4 | 407.3 | 351.6 | 45.9 | 25.1 |
| 15° | 704.2 | 699.9 | 701.0 | 713.0 | 729.3 | 517.5 | 408.3 | 604.9 | 776.3 | 701.0 | 556.8 |
| 17.5° | 982.6 | 846.2 | 731.5 | 696.6 | 699.9 | 722.8 | 791.6 | 832.0 | 789.4 | 798.1 | 607.1 |
| 20° | 1003.4 | 995.7 | 991.4 | 999.0 | 716.2 | 953.2 | 1006.7 | 816.7 | 794.9 | 854.9 | 1120.2 |
| 22.5° | 1038.3 | 1020.9 | 985.9 | 981.6 | 1102.7 | 939.0 | 975.0 | 1142.1 | 1172.6 | 1252.3 | 1166.1 |
| 25° | 1406.3 | 1393.2 | 1357.1 | 1032.9 | 1131.1 | 1078.7 | 1229.4 | 1285.1 | 1266.5 | 1318.9 | 1264.3 |
| 27.5° | 1544.9 | 1519.8 | 1442.3 | 1340.8 | 1201.0 | 1272.0 | 1243.6 | 1274.2 | 1398.6 | 1816.8 | 1783.0 |
| 30° | 2165.1 | 2098.5 | 1884.5 | 1543.8 | 1428.1 | 1324.4 | 1446.7 | 1511.1 | 1615.9 | 1859.4 | 1827.7 |
| 32.5° | 2352.9 | 2281.9 | 2126.9 | 1965.3 | 1692.3 | 1501.3 | 1591.9 | 1563.5 | 1638.8 | 2268.8 | 2399.8 |
| 35° | 2899.9 | 2867.1 | 2587.6 | 2138.9 | 2069.0 | 1770.9 | 1671.6 | 1867.0 | 1978.4 | 2300.5 | 2522.1 |
| 37.5° | 2906.4 | 2908.6 | 2892.3 | 2588.7 | 2268.8 | 1990.4 | 2009.0 | 2016.6 | 2102.9 | 2451.2 | 2664.1 |
| 40° | 2999.2 | 3014.5 | 3054.9 | 2825.6 | 2556.0 | 2308.1 | 2259.0 | 2182.6 | 2259.0 | 2620.4 | 2858.4 |
| 42.5° | 3193.6 | 3204.5 | 3294.0 | 3054.9 | 2783.1 | 2556.0 | 2581.1 | 2424.9 | 2480.6 | 2940.3 | 3122.6 |
| 45° | 3535.3 | 3528.8 | 3641.2 | 3296.2 | 2994.9 | 2838.8 | 2867.1 | 2747.0 | 2713.2 | 3202.3 | 3432.7 |
| 47.5° | 3921.8 | 3945.9 | 3941.5 | 3562.6 | 3205.6 | 3101.9 | 3183.8 | 3119.4 | 2986.1 | 3536.4 | 3794.1 |
| 50° | 4287.6 | 4280.0 | 4166.4 | 3713.3 | 3393.4 | 3359.6 | 3548.4 | 3442.5 | 3321.3 | 3876.0 | 4142.4 |
| 52.5° | 4420.8 | 4427.4 | 4292.0 | 3803.9 | 3553.9 | 3615.0 | 3897.8 | 3790.8 | 3633.6 | 4118.4 | 4488.5 |
| 55° | 4396.8 | 4405.5 | 4329.1 | 3896.7 | 3674.0 | 3854.2 | 4260.3 | 4168.6 | 3991.7 | 4381.5 | 4748.4 |
| 57.5° | 4171.9 | 4171.9 | 4234.1 | 3954.6 | 3790.8 | 4068.1 | 4583.5 | 4546.4 | 4328.0 | 4599.9 | 4903.4 |
| 60° | 3597.6 | 3658.7 | 3854.2 | 3884.7 | 3928.4 | 4299.6 | 4903.4 | 4891.4 | 4626.1 | 4804.0 | 4995.1 |
| 62.5° | 2766.7 | 2786.3 | 3218.7 | 3546.3 | 3939.3 | 4610.8 | 5173.1 | 5115.2 | 4846.6 | 4866.3 | 5059.5 |
| 65° | 1569.0 | 1658.5 | 2058.1 | 2885.7 | 3715.5 | 4936.2 | 5606.5 | 5358.7 | 5039.9 | 4940.5 | 5296.5 |
| 67.5° | 845.1 | 877.8 | 1100.6 | 1746.9 | 3045.1 | 4972.2 | 6589.2 | 5976.7 | 5498.4 | 5331.4 | 5760.5 |
| 70° | 545.9 | 580.9 | 701.0 | 959.7 | 1909.6 | 4396.8 | 7514.0 | 7307.6 | 6445.1 | 5866.4 | 5831.4 |
| 72.5° | 354.8 | 375.6 | 505.5 | 722.8 | 1148.6 | 2896.6 | 7471.4 | 8050.0 | 7193.0 | 5856.6 | 5249.5 |
| 75° | 144.1 | 158.3 | 253.3 | 601.6 | 970.6 | 1419.4 | 5732.1 | 6787.9 | 6753.0 | 5204.7 | 4062.7 |
| 77.5° | 72.1 | 76.4 | 112.5 | 325.4 | 861.5 | 982.6 | 3627.1 | 4787.7 | 4807.3 | 3794.1 | 2259.0 |
| 80° | 46.9 | 45.9 | 64.4 | 152.9 | 587.4 | 894.2 | 2028.6 | 2941.4 | 2750.3 | 1439.0 | 633.3 |
| 82.5° | 18.6 | 19.7 | 34.9 | 87.3 | 245.7 | 809.0 | 1157.3 | 1583.1 | 1238.1 | 280.6 | 182.3 |
| 85° | 3.3 | 3.3 | 10.9 | 46.9 | 77.5 | 370.1 | 746.8 | 766.5 | 508.8 | 88.4 | 91.7 |
| 87.5° | 1.1 | 1.1 | 2.2 | 3.3 | 5.5 | 8.7 | 32.8 | 15.3 | 9.8 | 15.3 | 17.5 |
| 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° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 2.5° | 4.4 | 4.4 | 4.4 | 3.3 | 3.3 | 2.2 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 |
| 5° | 4.4 | 4.4 | 4.4 | 3.3 | 3.3 | 1.1 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 |
| 7.5° | 4.4 | 4.4 | 4.4 | 3.3 | 2.2 | 1.1 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 |
| 10° | 4.4 | 4.4 | 4.4 | 3.3 | 2.2 | 1.1 | 31.7 | 202.0 | 208.5 | 209.6 | 207.4 |
| 12.5° | 27.3 | 28.4 | 15.3 | 3.3 | 2.2 | 187.8 | 186.7 | 156.1 | 136.5 | 128.8 | 119.0 |
| 15° | 592.9 | 563.4 | 466.2 | 275.1 | 151.8 | 153.9 | 113.6 | 84.1 | 67.7 | 63.3 | 61.1 |
| 17.5° | 587.4 | 544.8 | 429.1 | 251.1 | 264.2 | 115.7 | 61.1 | 67.7 | 88.4 | 89.5 | 89.5 |
| 20° | 1103.8 | 968.5 | 419.3 | 280.6 | 178.0 | 100.4 | 79.7 | 84.1 | 84.1 | 85.2 | 84.1 |
| 22.5° | 1150.8 | 1015.4 | 627.8 | 358.1 | 127.7 | 105.9 | 90.6 | 78.6 | 80.8 | 104.8 | 101.5 |
| 25° | 1160.6 | 995.7 | 581.9 | 280.6 | 123.4 | 105.9 | 99.4 | 96.1 | 108.1 | 108.1 | 109.2 |
| 27.5° | 1672.7 | 1399.7 | 705.3 | 210.7 | 122.3 | 110.3 | 110.3 | 100.4 | 97.2 | 96.1 | 97.2 |
| 30° | 1669.4 | 1351.7 | 601.6 | 178.0 | 117.9 | 109.2 | 99.4 | 89.5 | 108.1 | 109.2 | 109.2 |
| 32.5° | 2191.3 | 1728.4 | 581.9 | 144.1 | 117.9 | 100.4 | 87.3 | 92.8 | 86.3 | 86.3 | 86.3 |
| 35° | 2221.9 | 1684.7 | 458.6 | 149.6 | 104.8 | 91.7 | 85.2 | 72.1 | 76.4 | 77.5 | 75.3 |
| 37.5° | 2280.8 | 1654.1 | 348.3 | 135.4 | 104.8 | 85.2 | 69.9 | 64.4 | 60.1 | 59.0 | 59.0 |
| 40° | 2386.7 | 1656.3 | 268.6 | 124.5 | 98.3 | 77.5 | 62.2 | 52.4 | 54.6 | 54.6 | 53.5 |
| 42.5° | 2545.0 | 1688.0 | 210.7 | 114.6 | 88.4 | 68.8 | 52.4 | 46.9 | 43.7 | 43.7 | 42.6 |
| 45° | 2754.7 | 1755.7 | 172.5 | 107.0 | 80.8 | 59.0 | 42.6 | 38.2 | 34.9 | 34.9 | 33.8 |
| 47.5° | 3014.5 | 1850.6 | 150.7 | 99.4 | 72.1 | 49.1 | 34.9 | 30.6 | 28.4 | 27.3 | 27.3 |
| 50° | 3291.9 | 1964.2 | 138.7 | 92.8 | 62.2 | 39.3 | 28.4 | 24.0 | 21.8 | 21.8 | 20.7 |
| 52.5° | 3579.0 | 2094.1 | 128.8 | 88.4 | 53.5 | 32.8 | 21.8 | 17.5 | 16.4 | 15.3 | 16.4 |
| 55° | 3811.6 | 2172.7 | 122.3 | 87.3 | 44.8 | 26.2 | 16.4 | 13.1 | 12.0 | 10.9 | 10.9 |
| 57.5° | 3964.4 | 2215.3 | 113.6 | 80.8 | 36.0 | 19.7 | 12.0 | 8.7 | 7.6 | 7.6 | 7.6 |
| 60° | 4084.5 | 2239.3 | 102.6 | 64.4 | 28.4 | 14.2 | 7.6 | 5.5 | 5.5 | 5.5 | 5.5 |
| 62.5° | 4179.5 | 2255.7 | 86.3 | 50.2 | 21.8 | 9.8 | 5.5 | 3.3 | 3.3 | 3.3 | 3.3 |
| 65° | 4461.2 | 2351.8 | 66.6 | 38.2 | 16.4 | 6.6 | 3.3 | 2.2 | 1.1 | 2.2 | 2.2 |
| 67.5° | 4804.0 | 2392.2 | 49.1 | 27.3 | 12.0 | 4.4 | 2.2 | 1.1 | 1.1 | 1.1 | 2.2 |
| 70° | 4668.7 | 2084.3 | 36.0 | 19.7 | 8.7 | 3.3 | 2.2 | 1.1 | 1.1 | 1.1 | 2.2 |
| 72.5° | 3922.9 | 1523.1 | 26.2 | 14.2 | 6.6 | 3.3 | 2.2 | 1.1 | 1.1 | 2.2 | 2.2 |
| 75° | 2821.3 | 859.3 | 20.7 | 9.8 | 5.5 | 3.3 | 2.2 | 2.2 | 2.2 | 3.3 | 3.3 |
| 77.5° | 1327.7 | 319.9 | 20.7 | 8.7 | 5.5 | 3.3 | 2.2 | 2.2 | 3.3 | 4.4 | 2.2 |
| 80° | 322.1 | 79.7 | 20.7 | 7.6 | 5.5 | 3.3 | 3.3 | 3.3 | 4.4 | 4.4 | 2.2 |
| 82.5° | 108.1 | 33.8 | 15.3 | 6.6 | 5.5 | 3.3 | 3.3 | 4.4 | 4.4 | 5.5 | 3.3 |
| 85° | 65.5 | 21.8 | 10.9 | 7.6 | 6.6 | 3.3 | 4.4 | 4.4 | 5.5 | 6.6 | 3.3 |
| 87.5° | 10.9 | 8.7 | 7.6 | 7.6 | 6.6 | 4.4 | 4.4 | 5.5 | 5.5 | 6.6 | 4.4 |
| 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)