

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: P417068

Luminaire Tested: **LXF.LXT-PA1-90-727-U-T2R-HSS**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P417068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-90-727-U-T2R-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6545 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G2

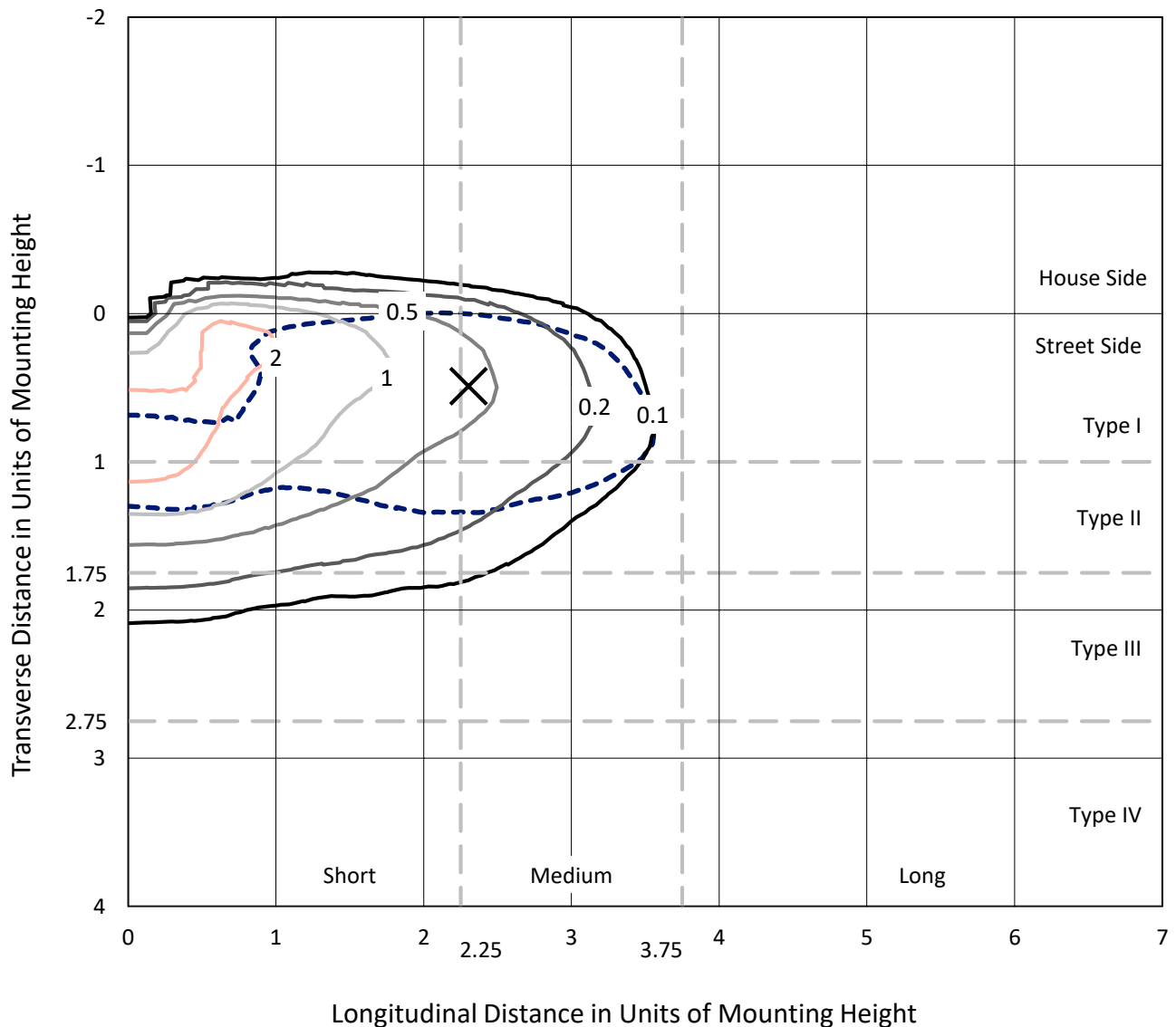
Input Watts (W): 94
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

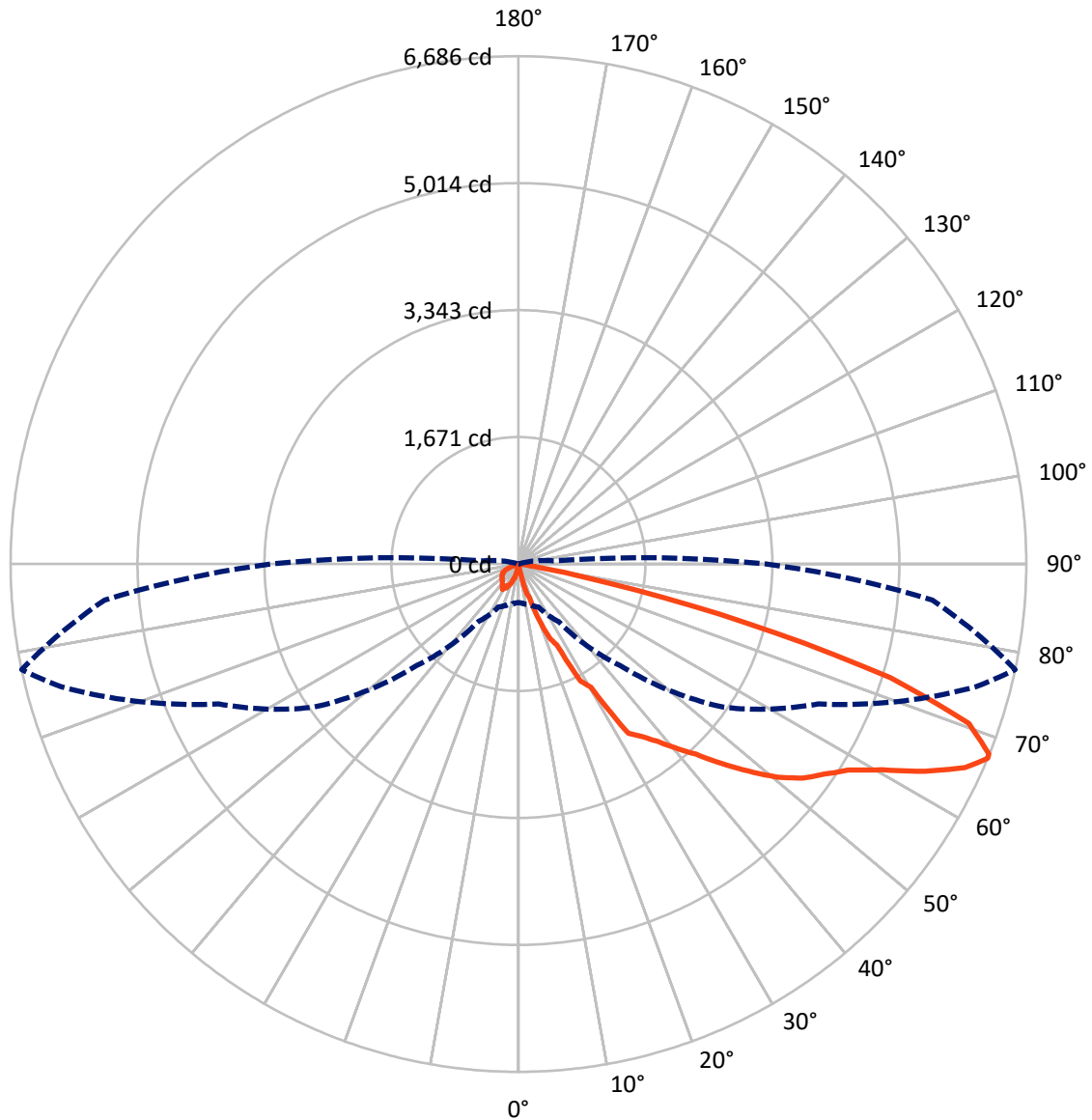
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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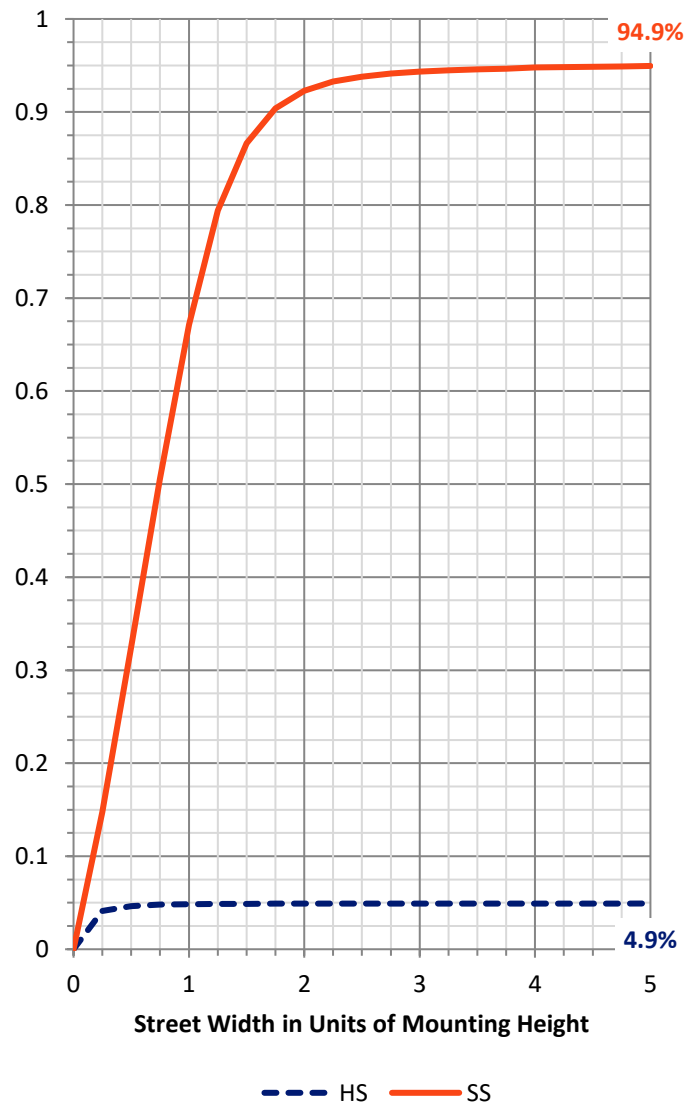
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 324.1 | 0.0 | 324.1 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 6220.9 | 0.0 | 6220.9 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 6545.0 | 0.0 | 6545.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.2 | 0.1 |
| 10°-20° | 89.2 | 1.4 |
| 20°-30° | 355.4 | 5.4 |
| 30°-40° | 904.0 | 13.8 |
| 40°-50° | 1480.2 | 22.6 |
| 50°-60° | 1669.1 | 25.5 |
| 60°-70° | 1439.3 | 22.0 |
| 70°-80° | 579.0 | 8.8 |
| 80°-90° | 22.7 | 0.3 |
| 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° | 6545.0 | 100.0 |
| 0°-180° | 6545.0 | 100.0 |

Coefficient of Utilization



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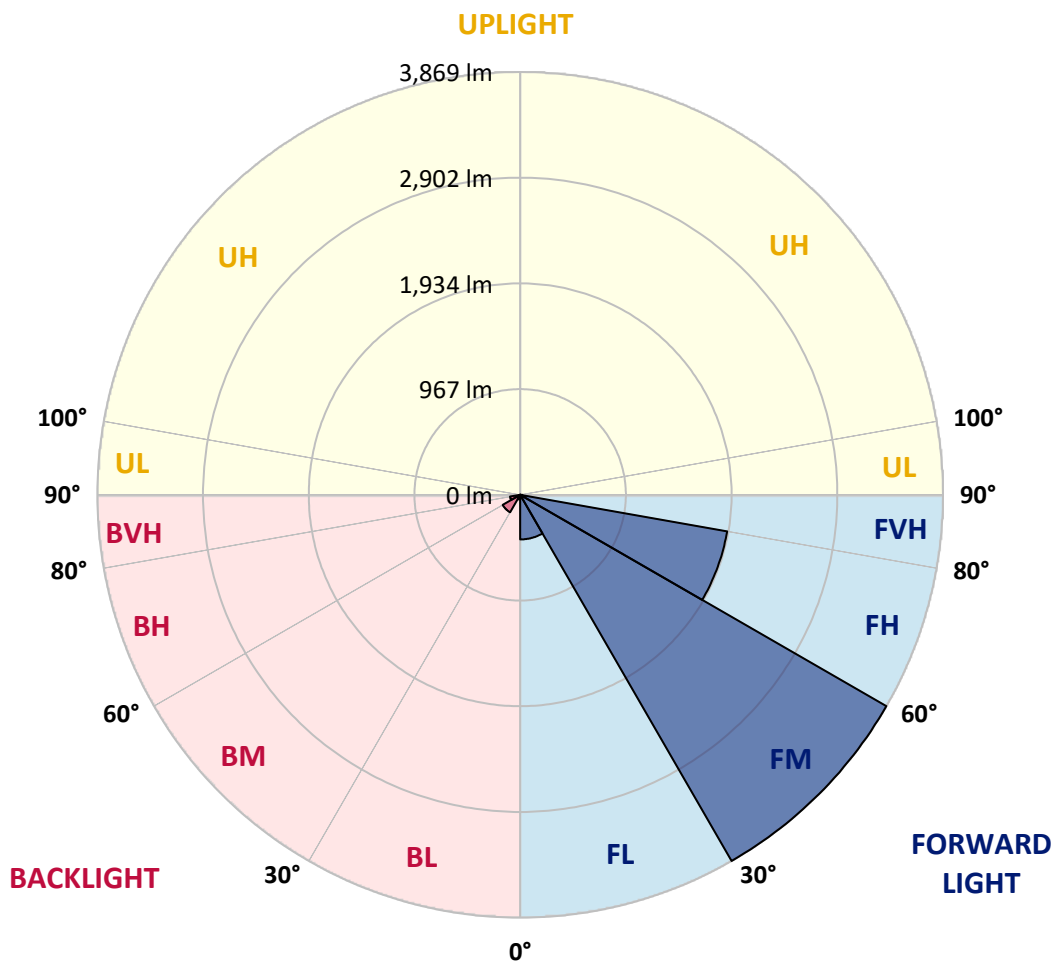
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 408.2 | 6.2 | | | |
| FM | (30°-60°) | 3868.8 | 59.1 | | | |
| FH | (60°-80°) | 1923.5 | 29.4 | | | G2/5000 |
| FVH | (80°-90°) | 20.4 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 42.5 | 0.6 | B0/110 | | |
| BM | (30°-60°) | 184.5 | 2.8 | B0/220 | | |
| BH | (60°-80°) | 94.7 | 1.4 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 2.3 | 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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 2.5° | 0.9 | 0.9 | 1.8 | 1.8 | 3.6 | 3.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 5° | 274.1 | 214.6 | 152.4 | 44.2 | 17.1 | 8.1 | 3.6 | 2.7 | 2.7 | 2.7 | 1.8 |
| 7.5° | 305.7 | 303.0 | 299.3 | 297.5 | 292.1 | 283.1 | 19.8 | 3.6 | 2.7 | 2.7 | 2.7 |
| 10° | 327.3 | 321.9 | 321.0 | 320.1 | 316.5 | 309.3 | 295.7 | 17.1 | 2.7 | 2.7 | 2.7 |
| 12.5° | 657.3 | 654.6 | 643.8 | 376.9 | 339.0 | 331.8 | 320.1 | 229.9 | 18.0 | 151.5 | 164.1 |
| 15° | 649.2 | 647.4 | 654.6 | 669.0 | 682.5 | 364.3 | 520.2 | 656.4 | 403.0 | 385.9 | 402.1 |
| 17.5° | 671.7 | 670.8 | 659.1 | 670.8 | 691.6 | 807.0 | 743.0 | 715.9 | 447.2 | 467.0 | 429.2 |
| 20° | 1006.2 | 1004.4 | 1014.3 | 953.9 | 717.7 | 1005.3 | 933.2 | 775.4 | 878.2 | 807.0 | 810.6 |
| 22.5° | 1056.7 | 1060.3 | 1057.6 | 1078.4 | 1246.1 | 1038.7 | 1161.3 | 1205.5 | 1219.9 | 1068.4 | 922.4 |
| 25° | 1550.8 | 1528.3 | 1481.4 | 1145.1 | 1343.4 | 1288.4 | 1475.1 | 1302.9 | 1311.9 | 1182.0 | 1182.0 |
| 27.5° | 1737.5 | 1737.5 | 1698.7 | 1654.5 | 1425.5 | 1654.5 | 1552.6 | 1711.3 | 1866.4 | 1743.8 | 1480.5 |
| 30° | 2357.8 | 2339.8 | 1948.4 | 1892.5 | 1774.4 | 1751.0 | 1874.5 | 2008.9 | 1940.3 | 1882.6 | 1665.3 |
| 32.5° | 2803.2 | 2805.0 | 2705.8 | 2402.9 | 2109.8 | 1953.0 | 2171.1 | 2216.2 | 2586.8 | 2654.4 | 2257.7 |
| 35° | 3576.8 | 3531.7 | 3046.6 | 2771.6 | 2483.1 | 2378.5 | 2367.7 | 2595.8 | 2808.6 | 2785.2 | 2447.0 |
| 37.5° | 4068.2 | 4036.6 | 3802.2 | 3184.6 | 2814.9 | 2580.5 | 2721.1 | 2732.0 | 3076.4 | 2958.3 | 2673.4 |
| 40° | 4293.6 | 4279.2 | 4080.8 | 3556.1 | 3106.1 | 2856.4 | 2901.5 | 2936.6 | 3345.1 | 3182.8 | 2863.6 |
| 42.5° | 4475.7 | 4462.2 | 4281.9 | 3742.7 | 3385.7 | 3120.6 | 3104.3 | 3110.7 | 3562.4 | 3419.9 | 3055.7 |
| 45° | 4563.2 | 4555.1 | 4477.5 | 3907.7 | 3507.4 | 3291.9 | 3325.2 | 3284.7 | 3751.7 | 3742.7 | 3268.4 |
| 47.5° | 4478.4 | 4482.9 | 4504.6 | 4053.8 | 3596.6 | 3427.1 | 3539.8 | 3474.9 | 3977.1 | 4071.8 | 3508.3 |
| 50° | 4180.0 | 4178.2 | 4301.7 | 4075.4 | 3648.0 | 3535.3 | 3729.2 | 3654.3 | 4244.9 | 4409.0 | 3724.7 |
| 52.5° | 3261.2 | 3381.1 | 3828.4 | 3842.8 | 3636.3 | 3589.4 | 3871.6 | 3860.8 | 4497.4 | 4683.1 | 3941.1 |
| 55° | 2454.3 | 2502.9 | 2927.6 | 3333.4 | 3484.8 | 3583.1 | 3922.1 | 3999.7 | 4684.0 | 4883.3 | 4110.6 |
| 57.5° | 1928.6 | 1912.4 | 2145.0 | 2686.9 | 3102.5 | 3476.7 | 3910.4 | 4053.8 | 4866.1 | 5117.7 | 4334.2 |
| 60° | 1411.1 | 1425.5 | 1610.3 | 1948.4 | 2551.6 | 3235.1 | 3874.3 | 4141.2 | 5154.7 | 5496.4 | 4666.9 |
| 62.5° | 1023.4 | 1023.4 | 1150.5 | 1357.0 | 1954.8 | 2847.4 | 3795.9 | 4263.9 | 5606.4 | 6010.3 | 5062.7 |
| 65° | 688.9 | 684.3 | 779.0 | 884.5 | 1338.9 | 2356.0 | 3584.9 | 4378.4 | 6039.2 | 6462.0 | 5402.6 |
| 67° | 506.7 | 516.6 | 555.4 | 624.8 | 926.0 | 1887.1 | 3283.8 | 4355.8 | 6238.4 | 6685.7 | 5469.3 |
| 67.5° | 474.3 | 478.8 | 532.0 | 593.3 | 853.9 | 1762.7 | 3198.1 | 4328.8 | 6260.1 | 6680.2 | 5435.1 |
| 70° | 344.4 | 351.6 | 380.5 | 398.5 | 516.6 | 1163.1 | 2552.5 | 3903.2 | 5944.5 | 6288.9 | 4941.9 |
| 72.5° | 184.8 | 200.2 | 276.8 | 275.0 | 321.0 | 709.6 | 1735.7 | 2897.0 | 4886.0 | 5119.5 | 3793.2 |
| 75° | 144.3 | 146.1 | 165.0 | 203.8 | 207.4 | 394.9 | 834.9 | 1683.4 | 3090.8 | 3107.9 | 2106.2 |
| 77.5° | 105.5 | 110.0 | 121.7 | 128.9 | 135.2 | 224.5 | 292.1 | 669.0 | 1368.7 | 1195.6 | 788.9 |
| 80° | 71.2 | 73.9 | 80.2 | 95.6 | 110.9 | 127.1 | 94.7 | 178.5 | 321.9 | 249.8 | 118.1 |
| 82.5° | 30.7 | 29.8 | 55.9 | 80.2 | 79.3 | 52.3 | 47.8 | 55.9 | 64.0 | 58.6 | 36.1 |
| 85° | 1.8 | 2.7 | 28.9 | 38.8 | 33.4 | 22.5 | 29.8 | 23.4 | 24.3 | 23.4 | 18.0 |
| 87.5° | 0.9 | 0.9 | 2.7 | 3.6 | 4.5 | 4.5 | 5.4 | 5.4 | 7.2 | 8.1 | 7.2 |
| 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° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 2.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 0.9 | 0.0 | 9.9 | 27.0 | 28.9 | 28.0 |
| 10° | 2.7 | 2.7 | 2.7 | 2.7 | 1.8 | 23.4 | 32.5 | 30.7 | 29.8 | 28.9 | 28.9 |
| 12.5° | 164.1 | 138.9 | 25.2 | 5.4 | 23.4 | 29.8 | 26.1 | 26.1 | 25.2 | 25.2 | 25.2 |
| 15° | 358.9 | 301.1 | 141.6 | 47.8 | 37.0 | 25.2 | 23.4 | 23.4 | 38.8 | 42.4 | 41.5 |
| 17.5° | 376.0 | 303.9 | 138.9 | 64.9 | 53.2 | 32.5 | 32.5 | 41.5 | 40.6 | 38.8 | 38.8 |
| 20° | 715.0 | 468.9 | 160.5 | 64.0 | 48.7 | 51.4 | 38.8 | 36.1 | 34.3 | 32.5 | 32.5 |
| 22.5° | 764.6 | 550.9 | 172.2 | 81.1 | 52.3 | 51.4 | 39.7 | 33.4 | 42.4 | 41.5 | 41.5 |
| 25° | 987.3 | 665.4 | 156.0 | 75.7 | 67.6 | 46.9 | 42.4 | 37.0 | 36.1 | 34.3 | 34.3 |
| 27.5° | 1223.5 | 787.1 | 172.2 | 78.4 | 61.3 | 46.0 | 39.7 | 32.5 | 34.3 | 37.9 | 37.9 |
| 30° | 1341.6 | 788.0 | 136.1 | 80.2 | 58.6 | 46.9 | 35.2 | 36.1 | 34.3 | 33.4 | 32.5 |
| 32.5° | 1800.6 | 1011.6 | 130.7 | 76.6 | 55.0 | 40.6 | 36.1 | 31.6 | 28.9 | 31.6 | 31.6 |
| 35° | 1881.7 | 976.5 | 113.6 | 77.5 | 49.6 | 37.0 | 30.7 | 28.9 | 28.9 | 28.0 | 28.0 |
| 37.5° | 1971.0 | 938.6 | 100.1 | 68.5 | 47.8 | 33.4 | 26.1 | 26.1 | 25.2 | 27.0 | 27.0 |
| 40° | 2069.3 | 898.9 | 89.3 | 59.5 | 40.6 | 28.0 | 23.4 | 22.5 | 23.4 | 23.4 | 22.5 |
| 42.5° | 2183.8 | 860.2 | 80.2 | 52.3 | 34.3 | 23.4 | 18.9 | 18.9 | 18.9 | 18.0 | 18.0 |
| 45° | 2306.4 | 829.5 | 73.9 | 45.1 | 28.9 | 19.8 | 15.3 | 14.4 | 13.5 | 13.5 | 13.5 |
| 47.5° | 2451.6 | 816.9 | 68.5 | 37.9 | 24.3 | 15.3 | 11.7 | 10.8 | 9.9 | 9.0 | 9.0 |
| 50° | 2573.3 | 811.5 | 60.4 | 31.6 | 20.7 | 12.6 | 8.1 | 7.2 | 6.3 | 5.4 | 5.4 |
| 52.5° | 2680.6 | 788.0 | 52.3 | 25.2 | 16.2 | 9.0 | 5.4 | 3.6 | 2.7 | 2.7 | 2.7 |
| 55° | 2787.0 | 766.4 | 45.1 | 21.6 | 11.7 | 5.4 | 2.7 | 0.9 | 0.9 | 1.8 | 1.8 |
| 57.5° | 2918.6 | 742.0 | 38.8 | 18.0 | 9.0 | 3.6 | 1.8 | 0.0 | 0.9 | 0.9 | 1.8 |
| 60° | 3125.1 | 716.8 | 34.3 | 15.3 | 6.3 | 2.7 | 0.9 | 0.0 | 0.0 | 0.9 | 0.9 |
| 62.5° | 3309.9 | 672.6 | 29.8 | 13.5 | 5.4 | 2.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.9 |
| 65° | 3390.2 | 581.6 | 26.1 | 11.7 | 5.4 | 2.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67° | 3255.8 | 470.7 | 23.4 | 10.8 | 4.5 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3192.7 | 439.1 | 23.4 | 9.9 | 4.5 | 1.8 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 |
| 70° | 2710.3 | 291.2 | 20.7 | 9.0 | 4.5 | 1.8 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2080.1 | 169.5 | 18.0 | 8.1 | 4.5 | 1.8 | 1.8 | 0.9 | 0.9 | 0.0 | 0.0 |
| 75° | 1163.1 | 85.7 | 14.4 | 8.1 | 4.5 | 2.7 | 2.7 | 1.8 | 1.8 | 1.8 | 0.0 |
| 77.5° | 372.4 | 46.9 | 10.8 | 7.2 | 4.5 | 2.7 | 2.7 | 1.8 | 2.7 | 2.7 | 0.9 |
| 80° | 58.6 | 24.3 | 8.1 | 5.4 | 4.5 | 1.8 | 2.7 | 2.7 | 3.6 | 3.6 | 0.9 |
| 82.5° | 21.6 | 13.5 | 6.3 | 5.4 | 4.5 | 1.8 | 2.7 | 2.7 | 3.6 | 4.5 | 0.0 |
| 85° | 9.9 | 8.1 | 6.3 | 5.4 | 4.5 | 1.8 | 2.7 | 2.7 | 3.6 | 4.5 | 0.0 |
| 87.5° | 4.5 | 6.3 | 5.4 | 5.4 | 4.5 | 1.8 | 2.7 | 2.7 | 3.6 | 3.6 | 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)