

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: P416722

Luminaire Tested: **LXF.LXT-PA1-80-730-U-T3-HSS**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-26)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-80-730-U-T3-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6409 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 83
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

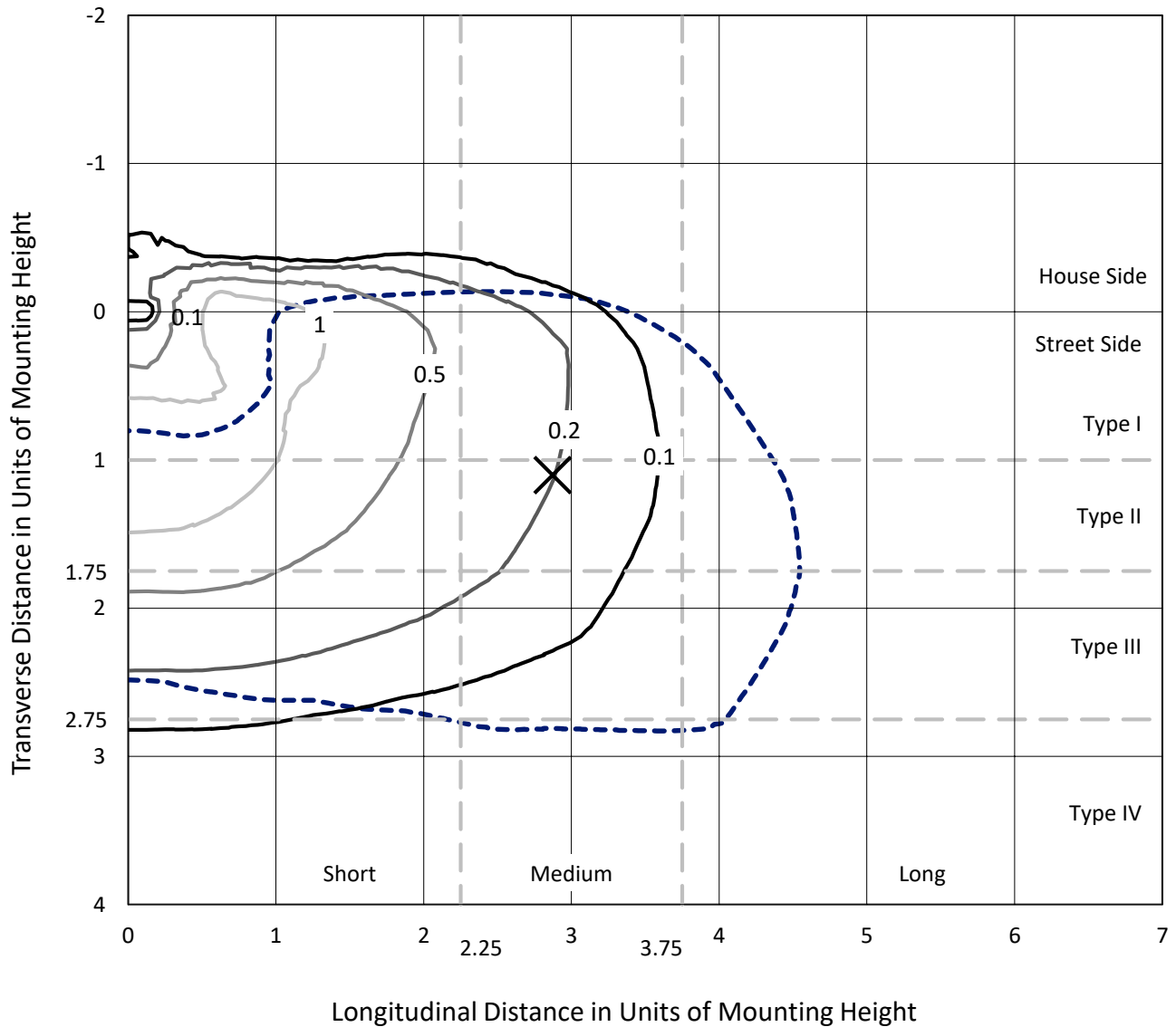


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

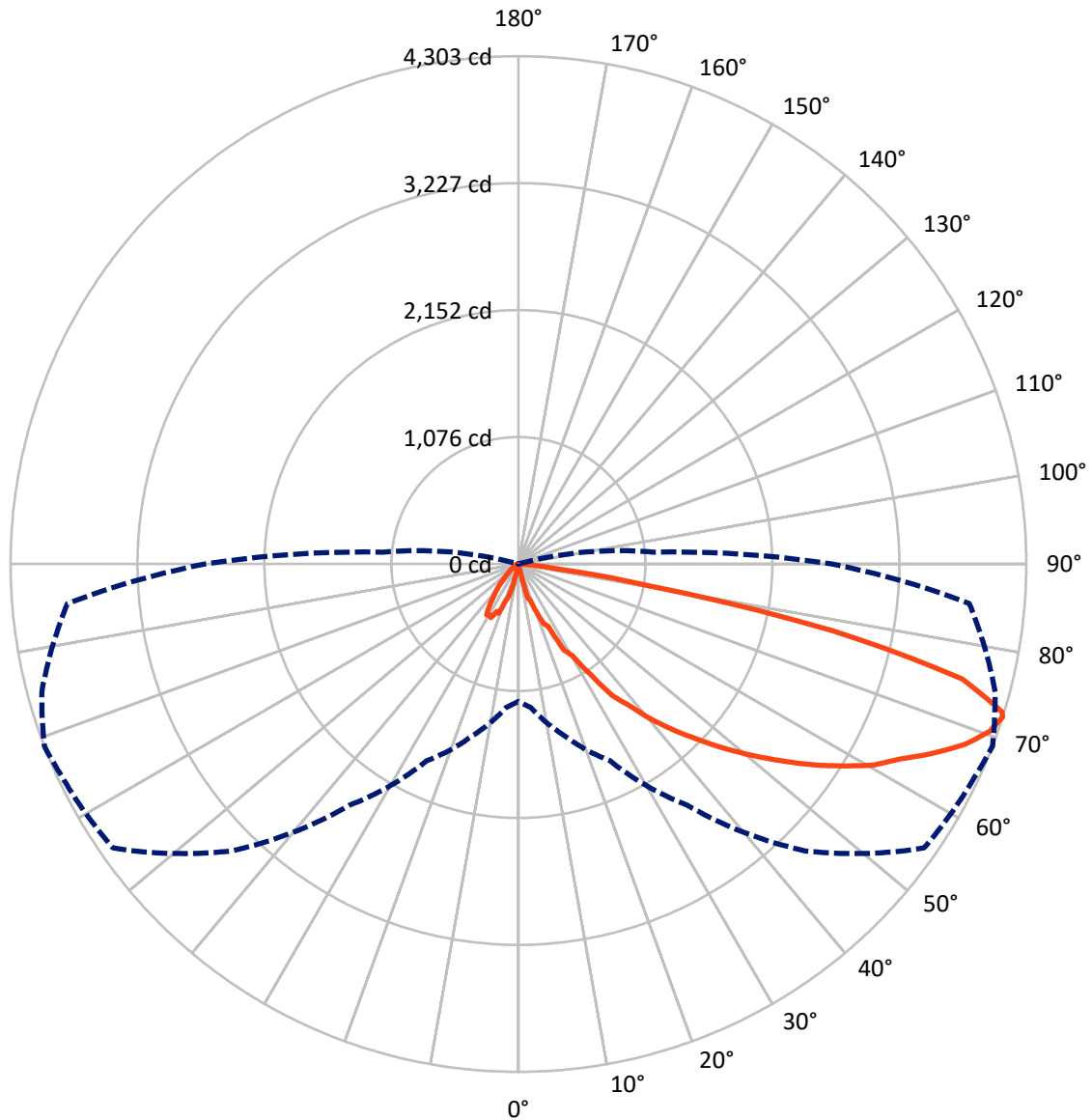


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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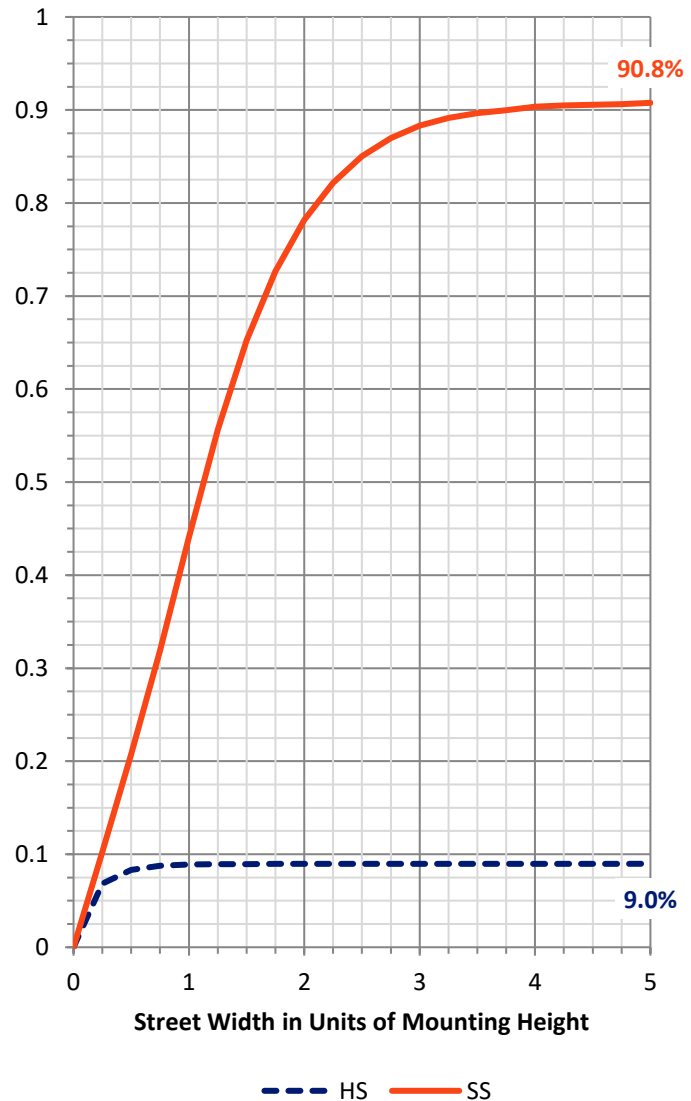
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 581.2 | 0.0 | 581.2 |
| | % Fixture | 9.1 | 0.0 | 9.1 |
| Street Side | Lumens | 5827.8 | 0.0 | 5827.8 |
| | % Fixture | 90.9 | 0.0 | 90.9 |
| Total | Lumens | 6409.0 | 0.0 | 6409.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.1 | 0.1 |
| 10°-20° | 55.7 | 0.9 |
| 20°-30° | 199.6 | 3.1 |
| 30°-40° | 509.8 | 8.0 |
| 40°-50° | 1008.8 | 15.7 |
| 50°-60° | 1589.8 | 24.8 |
| 60°-70° | 1849.1 | 28.9 |
| 70°-80° | 1122.5 | 17.5 |
| 80°-90° | 69.5 | 1.1 |
| 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° | 6409.0 | 100.0 |
| 0°-180° | 6409.0 | 100.0 |



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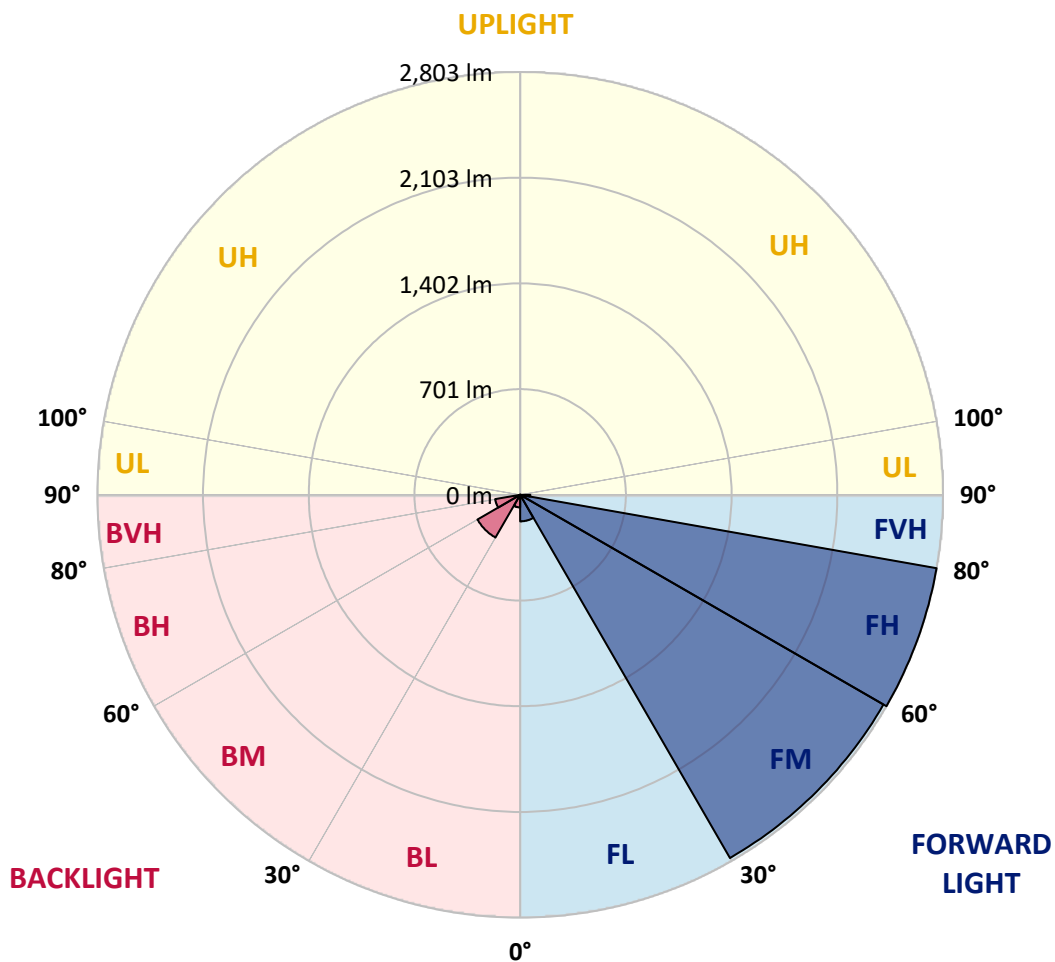
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 176.0 | 2.7 | | | |
| FM | (30°-60°) | 2781.3 | 43.4 | | | |
| FH | (60°-80°) | 2803.5 | 43.7 | | | G2/5000 |
| FVH | (80°-90°) | 67.1 | 1.0 | | | G1/100 |
| BL | (0°-30°) | 83.5 | 1.3 | B0/110 | | |
| BM | (30°-60°) | 327.1 | 5.1 | B1/1000 | | |
| BH | (60°-80°) | 168.2 | 2.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.4 | 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 69° | 75° | 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 | 0.9 | 0.9 | 1.8 | 1.8 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 5° | 89.3 | 58.3 | 43.7 | 36.4 | 18.2 | 4.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 7.5° | 137.5 | 137.5 | 138.4 | 139.3 | 142.1 | 119.3 | 25.5 | 2.7 | 2.7 | 2.7 | 2.7 |
| 10° | 133.0 | 132.1 | 132.1 | 133.9 | 137.5 | 141.2 | 144.8 | 19.1 | 4.6 | 2.7 | 2.7 |
| 12.5° | 259.6 | 256.8 | 238.6 | 166.7 | 136.6 | 138.4 | 145.7 | 111.1 | 31.0 | 18.2 | 104.7 |
| 15° | 256.8 | 255.9 | 257.7 | 262.3 | 264.1 | 147.5 | 215.8 | 293.3 | 299.6 | 202.2 | 245.0 |
| 17.5° | 280.5 | 272.3 | 259.6 | 261.4 | 269.6 | 316.9 | 305.1 | 317.8 | 324.2 | 226.8 | 265.0 |
| 20° | 388.0 | 387.1 | 388.9 | 305.1 | 285.1 | 401.6 | 353.4 | 345.2 | 429.0 | 449.0 | 498.2 |
| 22.5° | 396.2 | 394.4 | 397.1 | 406.2 | 456.3 | 419.9 | 511.8 | 523.7 | 548.3 | 606.6 | 569.2 |
| 25° | 554.6 | 554.6 | 455.4 | 424.4 | 520.0 | 474.5 | 633.9 | 595.6 | 582.9 | 651.2 | 732.2 |
| 27.5° | 669.4 | 662.1 | 638.4 | 592.9 | 541.0 | 671.2 | 674.9 | 814.2 | 826.0 | 908.9 | 924.4 |
| 30° | 847.9 | 837.9 | 775.0 | 739.5 | 671.2 | 705.8 | 787.8 | 968.1 | 902.5 | 969.0 | 1036.4 |
| 32.5° | 1255.0 | 1240.4 | 1161.2 | 931.7 | 846.1 | 765.0 | 944.4 | 1039.2 | 1103.8 | 1284.1 | 1357.9 |
| 35° | 1625.7 | 1531.0 | 1422.6 | 1247.7 | 1025.5 | 994.5 | 1019.1 | 1288.7 | 1365.2 | 1420.8 | 1495.4 |
| 37.5° | 1999.1 | 2000.9 | 1892.5 | 1468.1 | 1296.0 | 1148.4 | 1228.6 | 1439.9 | 1517.3 | 1599.3 | 1666.7 |
| 40° | 2298.7 | 2253.2 | 2108.4 | 1796.9 | 1529.1 | 1381.6 | 1391.6 | 1587.4 | 1724.9 | 1827.9 | 1841.5 |
| 42.5° | 2681.2 | 2662.1 | 2449.0 | 2097.4 | 1830.6 | 1686.7 | 1643.0 | 1739.5 | 1921.7 | 1990.0 | 2031.9 |
| 45° | 3047.3 | 3019.1 | 2837.9 | 2439.9 | 2153.0 | 1991.8 | 1931.7 | 1932.6 | 2112.0 | 2184.9 | 2245.0 |
| 47.5° | 3321.5 | 3275.9 | 3178.5 | 2755.0 | 2558.3 | 2325.1 | 2200.4 | 2153.0 | 2327.9 | 2422.6 | 2456.3 |
| 50° | 3608.4 | 3533.7 | 3456.3 | 3111.1 | 2908.0 | 2705.8 | 2467.2 | 2414.4 | 2541.0 | 2646.6 | 2673.9 |
| 52.5° | 3800.5 | 3692.1 | 3638.4 | 3365.2 | 3221.3 | 3092.9 | 2734.0 | 2674.8 | 2765.0 | 2889.8 | 2867.9 |
| 55° | 3703.1 | 3669.4 | 3727.7 | 3584.7 | 3445.3 | 3303.3 | 3024.6 | 2976.3 | 3000.0 | 3104.7 | 3052.8 |
| 57.5° | 3500.0 | 3510.0 | 3682.1 | 3709.5 | 3646.6 | 3512.7 | 3285.0 | 3276.8 | 3228.6 | 3314.2 | 3246.8 |
| 60° | 3287.8 | 3325.1 | 3564.6 | 3701.3 | 3746.8 | 3702.2 | 3560.1 | 3500.0 | 3457.2 | 3517.3 | 3464.5 |
| 62.5° | 3003.6 | 3010.9 | 3332.4 | 3628.4 | 3708.5 | 3849.7 | 3752.3 | 3723.1 | 3634.8 | 3724.0 | 3702.2 |
| 65° | 2646.6 | 2655.7 | 2958.1 | 3377.9 | 3593.8 | 3877.9 | 3902.5 | 3933.5 | 3865.2 | 3889.8 | 3959.0 |
| 67.5° | 2247.7 | 2265.0 | 2529.1 | 2934.4 | 3347.0 | 3822.4 | 4027.3 | 4086.5 | 4081.0 | 4073.7 | 4142.1 |
| 70° | 1819.7 | 1831.5 | 2046.4 | 2401.6 | 2948.1 | 3669.4 | 4143.0 | 4218.6 | 4239.5 | 4188.5 | 4140.2 |
| 72° | 1163.9 | 1221.3 | 1505.5 | 1840.6 | 2495.4 | 3437.1 | 4194.9 | 4266.8 | 4303.3 | 4181.2 | 3835.1 |
| 72.5° | 914.4 | 959.9 | 1390.7 | 1686.7 | 2340.6 | 3383.4 | 4184.9 | 4250.4 | 4284.1 | 4141.1 | 3705.8 |
| 75° | 196.7 | 202.2 | 435.3 | 819.7 | 1476.3 | 2592.0 | 3837.9 | 3846.1 | 3882.5 | 3608.4 | 2537.3 |
| 77.5° | 84.7 | 85.6 | 121.1 | 270.5 | 530.1 | 1325.1 | 2656.6 | 2732.2 | 2729.5 | 2335.1 | 1226.8 |
| 80° | 59.2 | 61.0 | 71.9 | 123.9 | 252.3 | 383.4 | 1297.8 | 1306.0 | 1123.9 | 835.2 | 306.0 |
| 82.5° | 31.0 | 32.8 | 51.0 | 73.8 | 171.2 | 140.3 | 419.9 | 423.5 | 312.4 | 196.7 | 71.0 |
| 85° | 5.5 | 8.2 | 24.6 | 44.6 | 66.5 | 56.5 | 92.0 | 115.7 | 100.2 | 78.3 | 30.1 |
| 87.5° | 0.9 | 0.9 | 6.4 | 6.4 | 9.1 | 5.5 | 9.1 | 10.0 | 10.9 | 16.4 | 8.2 |
| 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 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 2.7 | 2.7 | 2.7 | 2.7 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 2.7 | 2.7 | 2.7 | 2.7 | 1.8 | 0.9 | 0.0 | 83.8 | 112.9 | 120.2 | 128.4 |
| 10° | 2.7 | 3.6 | 2.7 | 2.7 | 1.8 | 114.8 | 141.2 | 143.0 | 144.8 | 144.8 | 143.9 |
| 12.5° | 115.7 | 118.4 | 41.9 | 8.2 | 106.6 | 145.7 | 138.4 | 126.6 | 115.7 | 112.0 | 111.1 |
| 15° | 247.7 | 248.6 | 225.0 | 194.0 | 206.7 | 137.5 | 108.4 | 123.0 | 124.8 | 120.2 | 120.2 |
| 17.5° | 266.8 | 266.8 | 255.0 | 311.5 | 261.4 | 137.5 | 113.8 | 93.8 | 80.1 | 76.5 | 75.6 |
| 20° | 528.2 | 462.7 | 374.3 | 316.0 | 213.1 | 153.9 | 80.1 | 68.3 | 66.5 | 66.5 | 69.2 |
| 22.5° | 570.1 | 561.9 | 487.2 | 426.2 | 183.1 | 108.4 | 78.3 | 78.3 | 92.9 | 91.1 | 90.2 |
| 25° | 744.1 | 733.1 | 551.9 | 370.7 | 183.1 | 92.9 | 99.3 | 87.4 | 85.6 | 83.8 | 82.0 |
| 27.5° | 940.8 | 918.0 | 776.0 | 335.2 | 129.3 | 97.4 | 94.7 | 82.9 | 98.4 | 98.4 | 97.4 |
| 30° | 1071.0 | 985.4 | 781.4 | 300.5 | 109.3 | 103.8 | 89.3 | 96.5 | 87.4 | 82.0 | 82.0 |
| 32.5° | 1388.0 | 1348.8 | 955.4 | 212.2 | 103.8 | 93.8 | 93.8 | 82.9 | 73.8 | 76.5 | 75.6 |
| 35° | 1488.2 | 1437.2 | 850.6 | 159.4 | 95.6 | 86.5 | 78.3 | 72.9 | 62.8 | 56.5 | 55.6 |
| 37.5° | 1612.0 | 1545.5 | 714.0 | 123.0 | 93.8 | 76.5 | 64.7 | 55.6 | 48.3 | 48.3 | 47.4 |
| 40° | 1764.1 | 1663.0 | 583.8 | 104.7 | 82.9 | 65.6 | 50.1 | 42.8 | 38.3 | 35.5 | 34.6 |
| 42.5° | 1930.8 | 1774.1 | 449.0 | 94.7 | 71.9 | 53.7 | 37.3 | 31.0 | 28.2 | 27.3 | 27.3 |
| 45° | 2106.5 | 1877.0 | 322.4 | 86.5 | 62.8 | 41.9 | 27.3 | 21.9 | 20.9 | 20.9 | 20.9 |
| 47.5° | 2286.0 | 1951.7 | 219.5 | 78.3 | 52.8 | 31.0 | 20.0 | 16.4 | 16.4 | 15.5 | 15.5 |
| 50° | 2461.7 | 2002.7 | 151.2 | 70.1 | 42.8 | 21.9 | 14.6 | 13.7 | 13.7 | 12.8 | 12.8 |
| 52.5° | 2589.2 | 1990.9 | 112.9 | 61.0 | 33.7 | 16.4 | 11.8 | 10.9 | 10.9 | 10.9 | 10.9 |
| 55° | 2713.1 | 1964.5 | 92.9 | 51.9 | 25.5 | 11.8 | 9.1 | 8.2 | 8.2 | 8.2 | 8.2 |
| 57.5° | 2840.6 | 1929.0 | 80.1 | 41.9 | 18.2 | 9.1 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 60° | 2946.2 | 1859.7 | 69.2 | 33.7 | 12.8 | 6.4 | 5.5 | 4.6 | 4.6 | 4.6 | 4.6 |
| 62.5° | 3063.7 | 1789.6 | 59.2 | 25.5 | 9.1 | 4.6 | 3.6 | 2.7 | 2.7 | 1.8 | 2.7 |
| 65° | 3147.5 | 1704.0 | 48.3 | 18.2 | 6.4 | 3.6 | 2.7 | 1.8 | 0.9 | 0.0 | 0.9 |
| 67.5° | 3145.7 | 1590.2 | 34.6 | 11.8 | 4.6 | 2.7 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 70° | 3008.2 | 1427.1 | 23.7 | 8.2 | 3.6 | 1.8 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 72° | 2654.8 | 1151.2 | 18.2 | 7.3 | 3.6 | 1.8 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2531.0 | 1056.5 | 16.4 | 6.4 | 3.6 | 1.8 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 75° | 1607.5 | 439.9 | 12.8 | 5.5 | 3.6 | 1.8 | 1.8 | 0.9 | 0.9 | 0.9 | 0.0 |
| 77.5° | 746.8 | 161.2 | 9.1 | 4.6 | 2.7 | 1.8 | 1.8 | 0.9 | 0.9 | 1.8 | 0.0 |
| 80° | 163.0 | 47.4 | 6.4 | 4.6 | 2.7 | 1.8 | 1.8 | 1.8 | 1.8 | 2.7 | 0.0 |
| 82.5° | 37.3 | 15.5 | 5.5 | 3.6 | 2.7 | 1.8 | 1.8 | 1.8 | 1.8 | 2.7 | 0.0 |
| 85° | 13.7 | 9.1 | 5.5 | 4.6 | 3.6 | 1.8 | 1.8 | 2.7 | 2.7 | 3.6 | 0.0 |
| 87.5° | 5.5 | 5.5 | 4.6 | 4.6 | 3.6 | 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)