

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: P266035

Luminaire Tested: **LXF.LXT-AF24-30-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-17-90°)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-30-D-U-T2U-7027-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO
COMPETITIVE OFFERINGS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2015 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 31
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

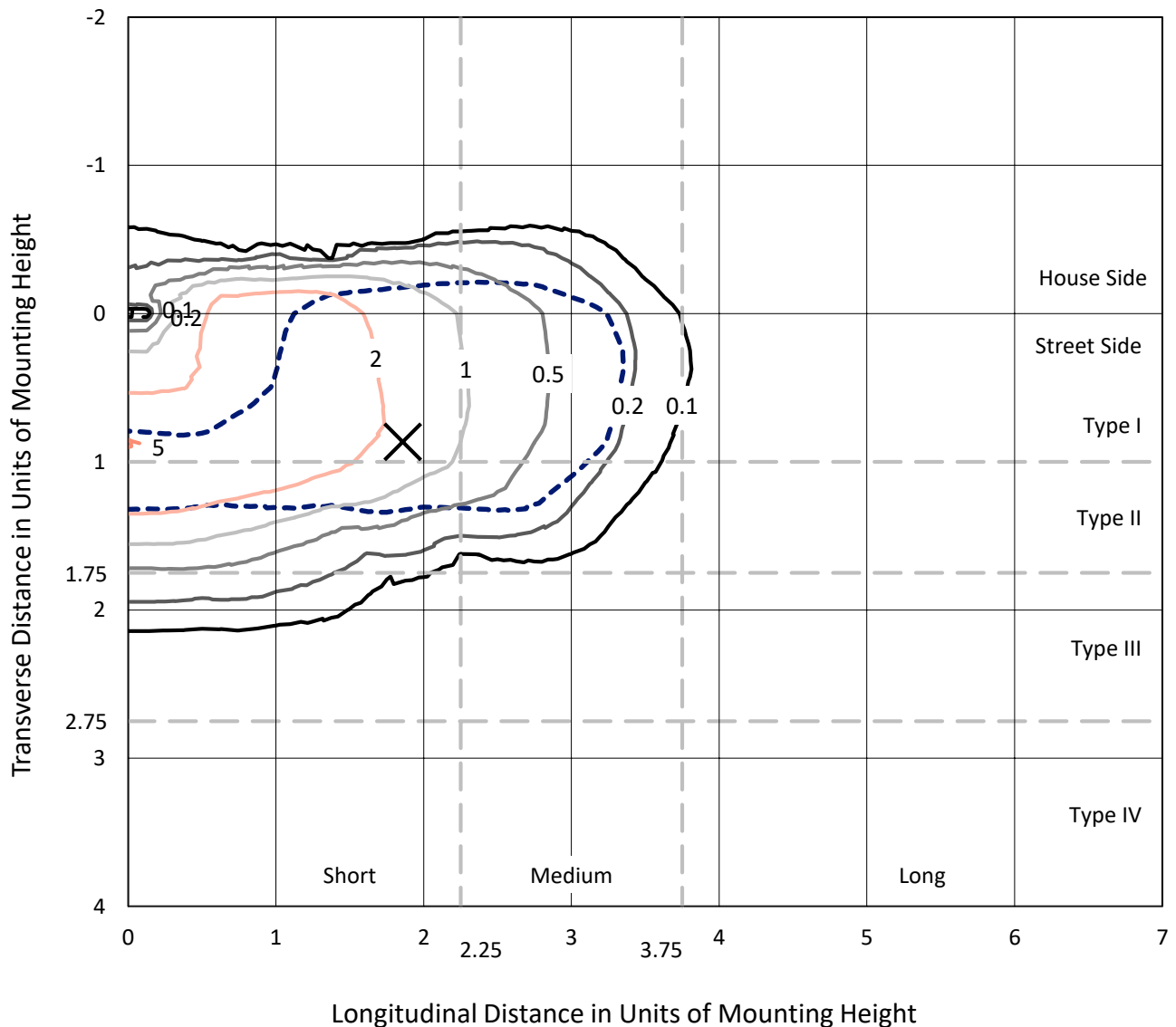


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

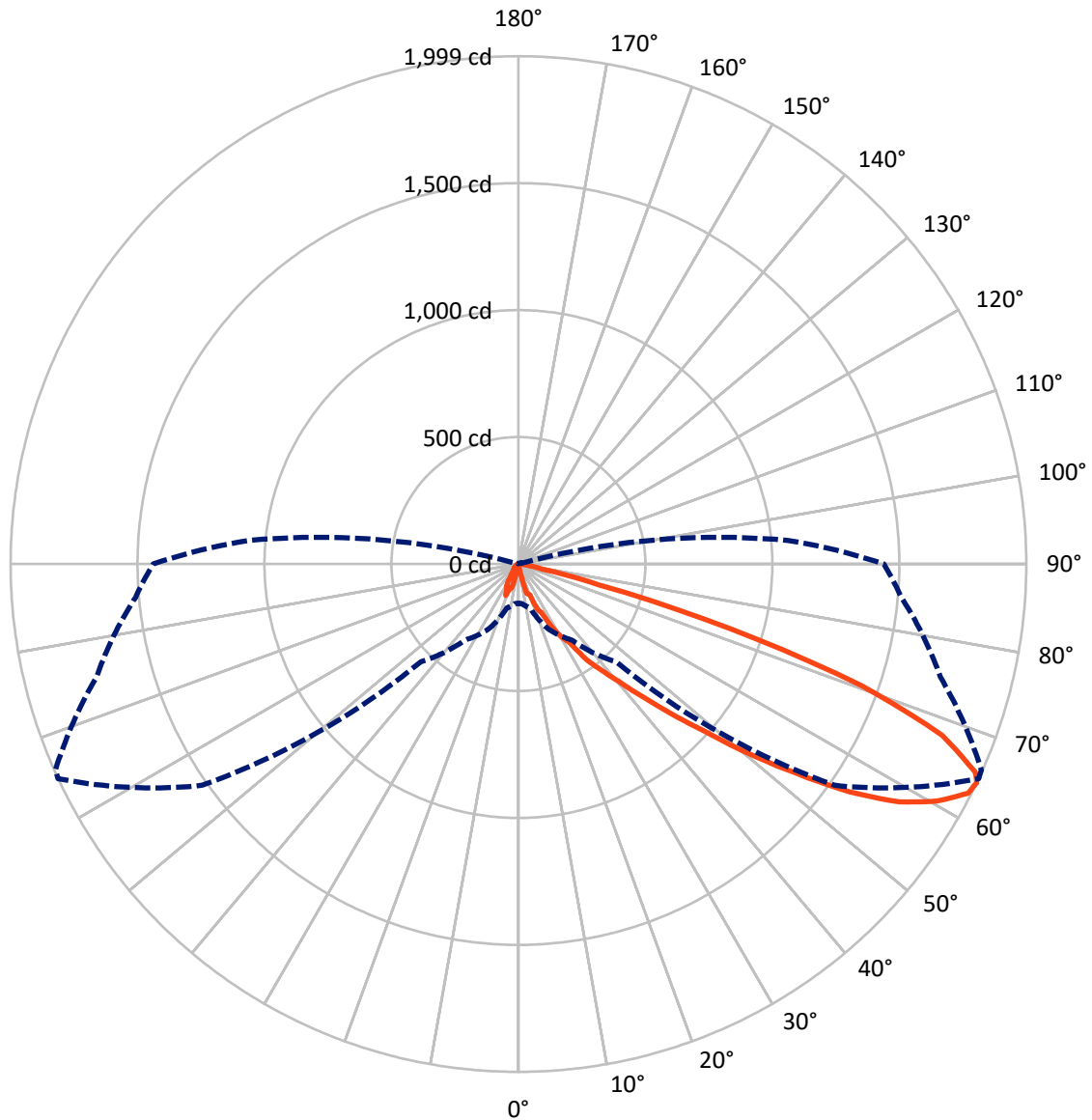


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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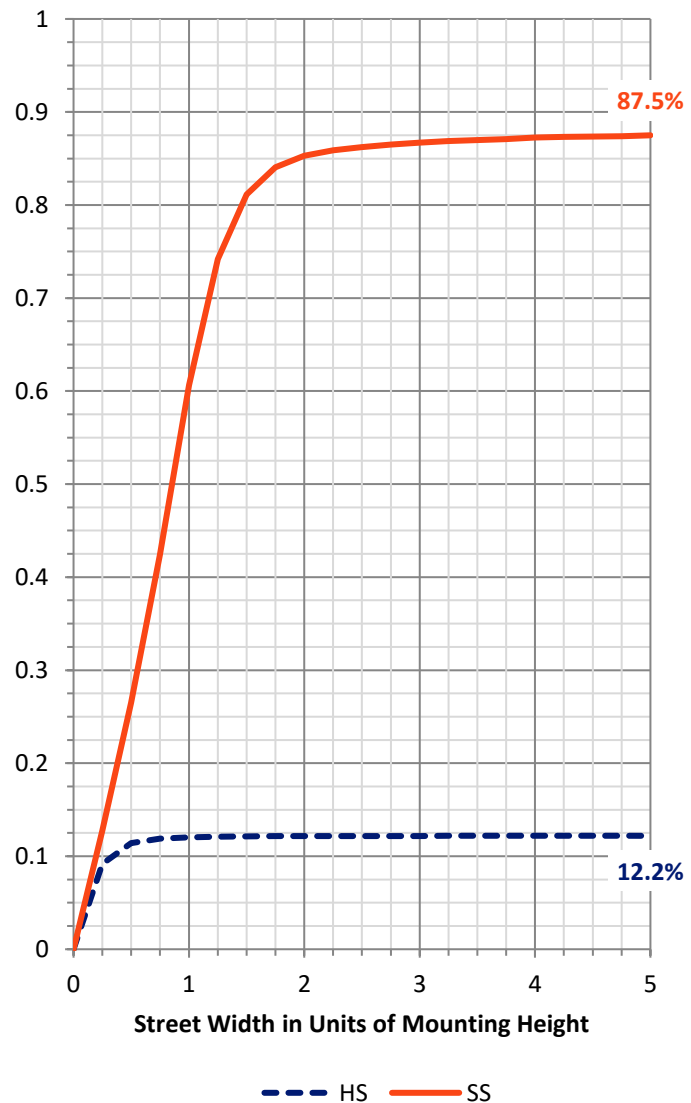
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 248.4 | 0.0 | 248.4 |
| | % Fixture | 12.3 | 0.0 | 12.3 |
| Street Side | Lumens | 1766.6 | 0.0 | 1766.6 |
| | % Fixture | 87.7 | 0.0 | 87.7 |
| Total | Lumens | 2015.0 | 0.0 | 2015.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1.6 | 0.1 |
| 10°-20° | 20.1 | 1.0 |
| 20°-30° | 68.4 | 3.4 |
| 30°-40° | 191.9 | 9.5 |
| 40°-50° | 445.5 | 22.1 |
| 50°-60° | 622.8 | 30.9 |
| 60°-70° | 491.3 | 24.4 |
| 70°-80° | 164.5 | 8.2 |
| 80°-90° | 9.0 | 0.4 |
| 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° | 2015.0 | 100.0 |
| 0°-180° | 2015.0 | 100.0 |



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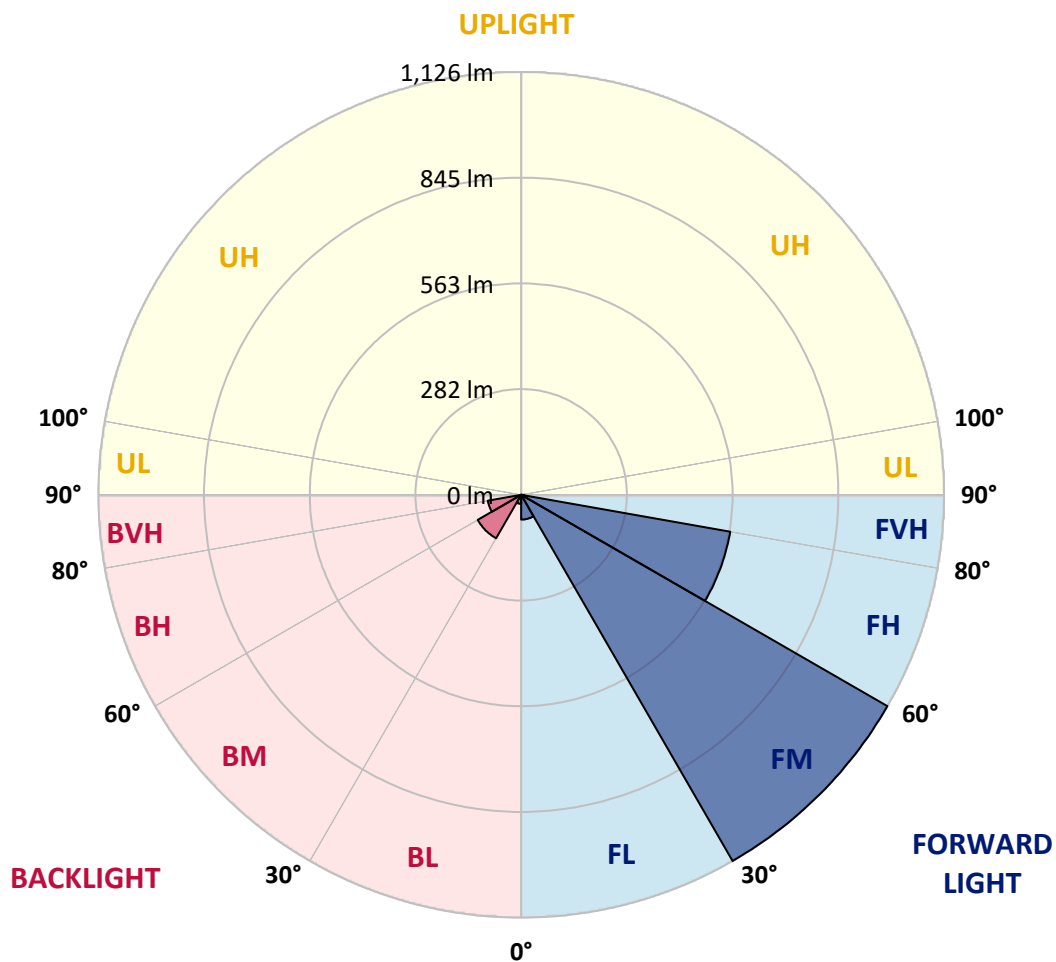
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 66.0 | 3.3 | | | |
| FM (30°-60°) | 1126.5 | 55.9 | | | |
| FH (60°-80°) | 565.6 | 28.1 | | | G0/660 |
| FVH (80°-90°) | 8.5 | 0.4 | | | G0/10 |
| BL (0°-30°) | 24.0 | 1.2 | B0/110 | | |
| BM (30°-60°) | 133.7 | 6.6 | B0/220 | | |
| BH (60°-80°) | 90.2 | 4.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 39.6 | 16.4 | 12.4 | 7.7 | 2.3 | 0.7 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 57.2 | 56.9 | 56.9 | 57.5 | 58.2 | 53.1 | 4.0 | 0.3 | 0.0 | 0.0 | 0.0 |
| 10° | 54.4 | 54.2 | 54.2 | 55.2 | 56.1 | 57.2 | 57.5 | 2.1 | 1.3 | 0.0 | 0.0 |
| 12.5° | 109.0 | 108.3 | 104.3 | 62.3 | 56.1 | 56.6 | 57.9 | 39.3 | 23.5 | 8.8 | 41.7 |
| 15° | 107.3 | 107.0 | 107.3 | 109.7 | 109.7 | 58.5 | 87.5 | 118.0 | 117.8 | 76.6 | 89.8 |
| 17.5° | 110.0 | 108.3 | 107.6 | 109.4 | 112.0 | 129.4 | 128.2 | 124.1 | 124.4 | 81.3 | 92.2 |
| 20° | 158.5 | 158.8 | 161.2 | 123.1 | 116.1 | 163.9 | 145.3 | 130.6 | 132.5 | 156.5 | 169.5 |
| 22.5° | 161.2 | 160.7 | 163.9 | 169.5 | 199.9 | 168.3 | 194.8 | 195.8 | 200.1 | 204.9 | 181.9 |
| 25° | 222.7 | 222.3 | 181.9 | 178.3 | 213.5 | 188.7 | 233.1 | 211.9 | 215.7 | 216.3 | 223.0 |
| 27.5° | 252.0 | 248.9 | 250.9 | 252.0 | 225.4 | 265.1 | 241.6 | 279.8 | 268.1 | 296.4 | 282.8 |
| 30° | 321.0 | 311.5 | 288.3 | 291.9 | 278.8 | 282.5 | 292.7 | 334.3 | 323.3 | 314.1 | 309.1 |
| 32.5° | 469.3 | 463.5 | 440.7 | 363.6 | 338.4 | 307.4 | 355.2 | 366.0 | 367.2 | 429.8 | 428.5 |
| 35° | 685.5 | 645.2 | 564.5 | 507.6 | 405.3 | 401.6 | 393.8 | 462.4 | 466.0 | 489.8 | 489.4 |
| 37.5° | 965.0 | 957.0 | 842.3 | 654.2 | 535.5 | 470.9 | 490.0 | 530.4 | 517.7 | 567.8 | 568.4 |
| 40° | 1135.3 | 1127.6 | 1034.7 | 872.6 | 684.1 | 592.1 | 568.7 | 607.9 | 586.4 | 673.1 | 656.2 |
| 42.5° | 1258.0 | 1249.9 | 1182.3 | 1031.7 | 901.4 | 797.2 | 692.7 | 709.1 | 695.3 | 773.0 | 765.5 |
| 45° | 1331.4 | 1319.9 | 1291.0 | 1163.1 | 1080.1 | 1036.0 | 871.1 | 835.2 | 838.6 | 898.5 | 890.4 |
| 47.5° | 1327.3 | 1309.9 | 1317.3 | 1239.2 | 1231.1 | 1255.7 | 1093.5 | 978.6 | 1016.8 | 1048.9 | 1028.0 |
| 50° | 1222.4 | 1208.6 | 1250.4 | 1260.7 | 1330.0 | 1428.9 | 1329.0 | 1169.2 | 1217.4 | 1197.1 | 1153.8 |
| 52.5° | 1028.0 | 1030.6 | 1091.3 | 1161.9 | 1347.2 | 1548.3 | 1555.1 | 1368.7 | 1434.0 | 1331.4 | 1268.1 |
| 55° | 822.0 | 829.5 | 895.8 | 981.2 | 1242.3 | 1587.3 | 1743.8 | 1583.4 | 1640.1 | 1442.0 | 1351.0 |
| 57.5° | 604.5 | 616.2 | 699.3 | 772.0 | 1021.9 | 1487.8 | 1836.9 | 1767.7 | 1801.6 | 1537.2 | 1415.8 |
| 60° | 358.2 | 364.6 | 474.9 | 580.2 | 740.4 | 1192.8 | 1833.3 | 1894.4 | 1905.8 | 1635.8 | 1467.7 |
| 62.5° | 211.6 | 215.0 | 252.0 | 391.5 | 487.7 | 782.1 | 1693.7 | 1987.0 | 1983.5 | 1698.7 | 1503.3 |
| 64° | 154.4 | 156.8 | 179.7 | 284.3 | 364.6 | 544.6 | 1518.8 | 1999.4 | 1995.3 | 1719.8 | 1513.4 |
| 65° | 129.1 | 131.2 | 147.3 | 224.3 | 303.4 | 416.5 | 1324.6 | 1977.2 | 1974.6 | 1730.7 | 1512.7 |
| 67.5° | 103.7 | 103.9 | 108.7 | 131.5 | 206.5 | 218.6 | 767.0 | 1799.9 | 1791.8 | 1741.8 | 1487.8 |
| 70° | 92.9 | 94.2 | 102.5 | 103.7 | 151.1 | 143.5 | 269.9 | 1433.7 | 1416.1 | 1653.6 | 1429.9 |
| 72.5° | 73.8 | 75.6 | 89.1 | 101.6 | 109.0 | 107.6 | 123.1 | 874.2 | 881.2 | 1215.0 | 1198.5 |
| 75° | 51.5 | 53.4 | 67.3 | 84.1 | 86.1 | 78.7 | 88.8 | 328.3 | 323.8 | 600.1 | 696.9 |
| 77.5° | 32.0 | 33.0 | 42.0 | 60.5 | 80.0 | 52.1 | 62.0 | 95.2 | 101.9 | 185.9 | 190.4 |
| 80° | 21.2 | 21.5 | 26.6 | 40.1 | 55.4 | 47.2 | 37.0 | 48.1 | 49.0 | 58.5 | 28.9 |
| 82.5° | 11.8 | 12.0 | 16.8 | 25.2 | 33.2 | 41.7 | 23.9 | 28.9 | 30.6 | 36.3 | 15.5 |
| 85° | 4.0 | 4.4 | 8.8 | 14.2 | 20.2 | 20.2 | 15.5 | 17.4 | 17.8 | 22.8 | 8.1 |
| 87.5° | 0.0 | 0.0 | 2.1 | 3.8 | 3.4 | 1.3 | 3.4 | 2.6 | 2.3 | 3.8 | 1.3 |
| 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° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 42.4 | 46.7 | 47.2 | 47.8 |
| 10° | 0.0 | 0.0 | 0.3 | 0.3 | 0.0 | 45.0 | 47.8 | 46.7 | 44.3 | 43.7 | 43.1 |
| 12.5° | 43.1 | 41.4 | 5.7 | 1.3 | 38.0 | 47.2 | 42.4 | 36.3 | 30.6 | 28.9 | 27.6 |
| 15° | 88.8 | 87.8 | 78.4 | 86.1 | 53.4 | 40.3 | 30.0 | 32.2 | 27.3 | 25.5 | 25.0 |
| 17.5° | 90.1 | 88.8 | 83.7 | 101.2 | 83.5 | 41.1 | 27.6 | 22.2 | 20.2 | 19.6 | 19.1 |
| 20° | 171.1 | 166.1 | 121.8 | 99.5 | 63.9 | 41.7 | 21.2 | 17.8 | 16.4 | 18.1 | 19.1 |
| 22.5° | 176.2 | 170.6 | 147.1 | 133.6 | 53.4 | 27.3 | 20.2 | 19.6 | 20.5 | 19.6 | 19.6 |
| 25° | 222.3 | 205.5 | 161.4 | 109.7 | 47.4 | 24.3 | 22.8 | 17.8 | 16.4 | 15.8 | 15.8 |
| 27.5° | 276.1 | 263.4 | 223.0 | 102.9 | 32.0 | 25.5 | 19.9 | 15.5 | 17.2 | 17.2 | 17.2 |
| 30° | 295.4 | 277.4 | 225.4 | 90.1 | 28.2 | 23.1 | 16.8 | 16.8 | 15.1 | 14.5 | 14.5 |
| 32.5° | 424.2 | 398.3 | 289.3 | 63.2 | 25.5 | 19.6 | 16.8 | 14.2 | 13.8 | 14.8 | 14.8 |
| 35° | 472.6 | 442.3 | 281.9 | 46.7 | 22.5 | 17.8 | 14.5 | 13.8 | 13.1 | 13.1 | 13.1 |
| 37.5° | 537.1 | 501.6 | 258.7 | 34.7 | 21.2 | 15.1 | 12.8 | 12.0 | 12.4 | 13.1 | 13.5 |
| 40° | 621.5 | 578.6 | 239.8 | 28.6 | 18.1 | 13.1 | 11.5 | 11.8 | 11.8 | 11.8 | 11.8 |
| 42.5° | 721.2 | 661.6 | 211.9 | 25.5 | 15.5 | 11.8 | 10.4 | 10.4 | 10.8 | 10.8 | 10.8 |
| 45° | 835.6 | 752.5 | 173.0 | 22.5 | 13.5 | 10.2 | 9.4 | 9.4 | 9.4 | 9.2 | 9.4 |
| 47.5° | 956.7 | 850.7 | 131.2 | 19.9 | 11.5 | 9.2 | 8.4 | 8.1 | 8.1 | 7.7 | 8.1 |
| 50° | 1077.1 | 942.2 | 95.8 | 17.2 | 10.2 | 8.1 | 7.0 | 7.0 | 7.0 | 6.7 | 6.7 |
| 52.5° | 1173.2 | 1004.0 | 67.9 | 14.8 | 8.8 | 7.0 | 6.1 | 5.7 | 5.7 | 5.4 | 5.4 |
| 55° | 1254.0 | 1041.0 | 49.8 | 12.4 | 7.7 | 6.1 | 5.0 | 4.8 | 4.8 | 4.4 | 4.8 |
| 57.5° | 1316.2 | 1064.3 | 37.6 | 10.2 | 6.7 | 5.0 | 4.0 | 3.8 | 3.8 | 3.8 | 3.8 |
| 60° | 1368.7 | 1071.9 | 28.9 | 8.4 | 5.7 | 4.0 | 3.4 | 3.1 | 3.1 | 2.6 | 3.1 |
| 62.5° | 1417.4 | 1070.1 | 23.9 | 7.4 | 5.0 | 3.4 | 2.6 | 2.3 | 2.1 | 1.6 | 2.1 |
| 64° | 1438.4 | 1064.6 | 21.5 | 6.4 | 4.8 | 3.1 | 2.3 | 2.1 | 1.6 | 1.0 | 1.3 |
| 65° | 1447.1 | 1056.1 | 19.9 | 5.7 | 4.4 | 2.6 | 2.3 | 2.1 | 1.0 | 0.7 | 1.0 |
| 67.5° | 1439.7 | 1012.7 | 15.5 | 5.0 | 3.4 | 2.1 | 1.6 | 1.3 | 0.3 | 0.3 | 0.7 |
| 70° | 1357.2 | 920.7 | 11.8 | 4.4 | 3.1 | 1.6 | 1.3 | 1.0 | 0.7 | 0.3 | 0.7 |
| 72.5° | 1066.0 | 662.1 | 9.2 | 3.4 | 2.3 | 1.0 | 1.3 | 1.0 | 0.7 | 0.3 | 0.0 |
| 75° | 571.9 | 248.7 | 6.7 | 2.6 | 2.1 | 1.0 | 1.0 | 0.7 | 0.3 | 0.3 | 0.0 |
| 77.5° | 147.3 | 78.4 | 4.8 | 1.6 | 1.6 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.0 |
| 80° | 22.8 | 11.0 | 2.1 | 1.3 | 1.0 | 0.3 | 0.7 | 0.3 | 0.3 | 0.7 | 0.0 |
| 82.5° | 9.4 | 4.4 | 1.3 | 1.0 | 1.0 | 0.0 | 0.7 | 0.3 | 0.3 | 0.3 | 0.0 |
| 85° | 2.3 | 1.6 | 1.0 | 0.7 | 0.7 | 0.0 | 0.3 | 0.0 | 0.3 | 0.3 | 0.0 |
| 87.5° | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 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)