

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: P415076

Luminaire Tested: **LXF.LXT-PA1-40-740-U-5WQ-TL**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P415076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-21)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-40-740-U-5WQ-TL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5002 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 40
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

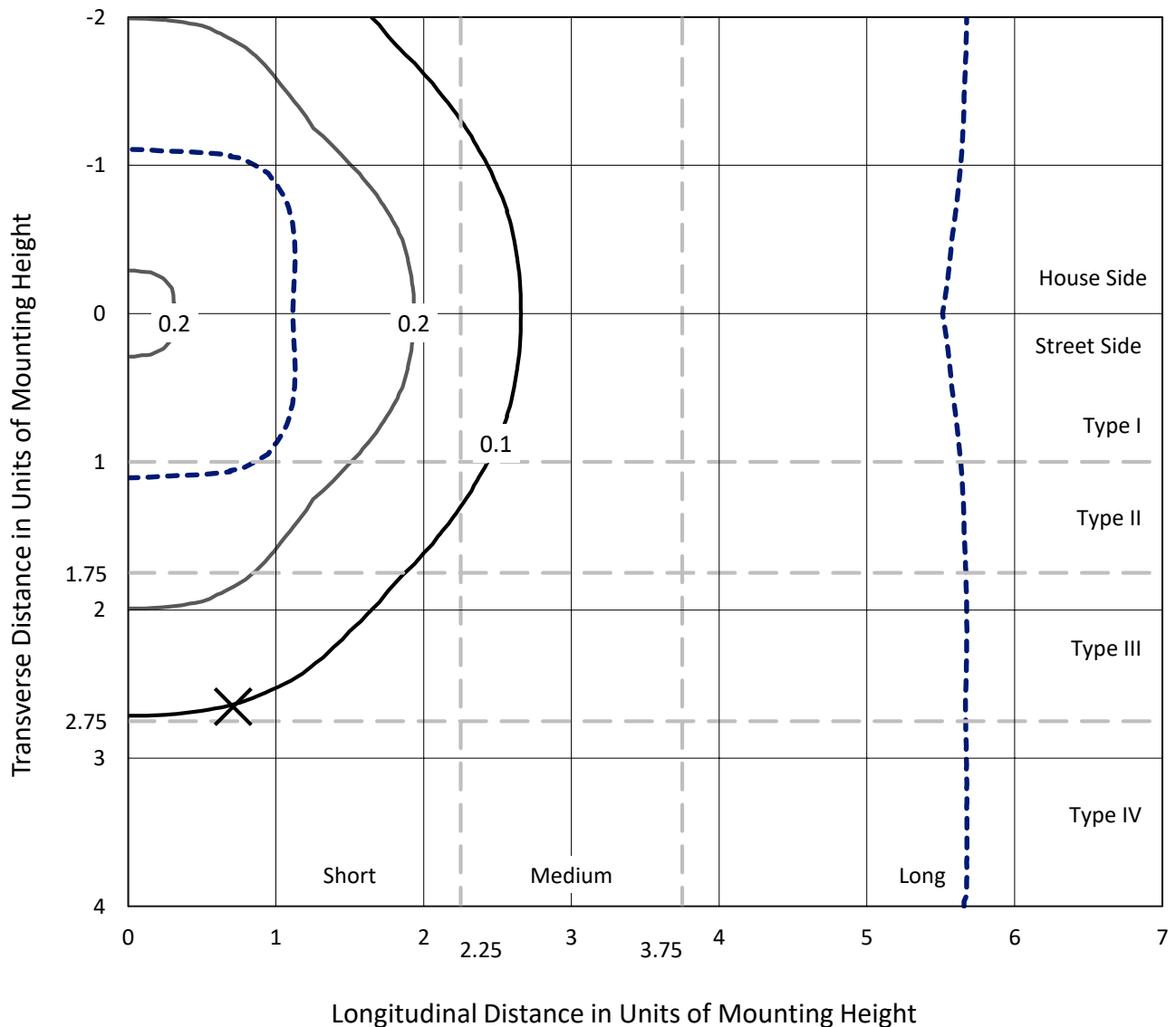


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Iso-Footcandle Lines of Horizontal Illumination

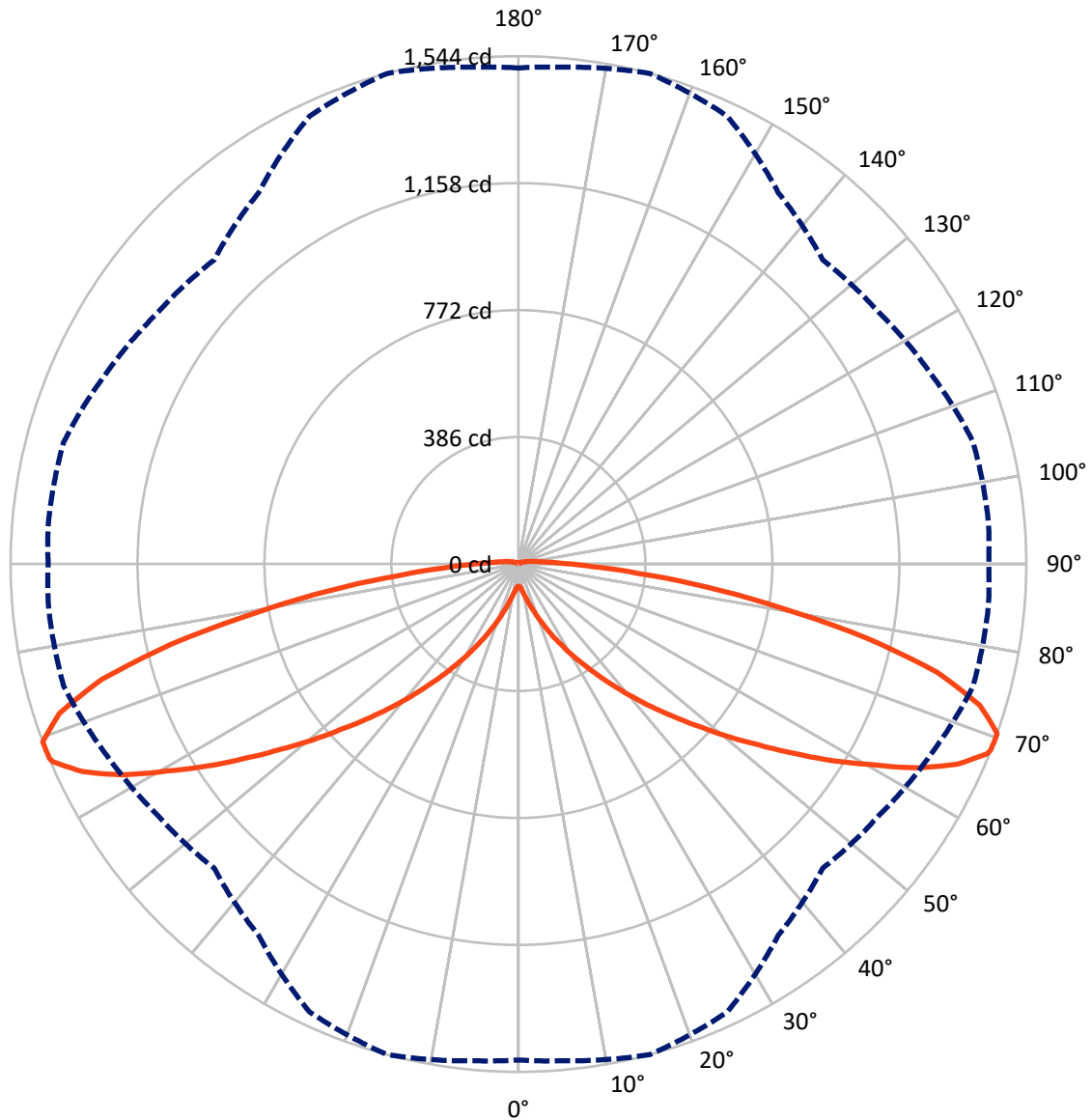
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2412.9 | 88.1 | 2501.0 |
| | % Fixture | 48.2 | 1.8 | 50.0 |
| Street Side | Lumens | 2412.9 | 88.1 | 2501.0 |
| | % Fixture | 48.2 | 1.8 | 50.0 |
| Total | Lumens | 4825.9 | 176.1 | 5002.0 |
| | % Fixture | 96.5 | 3.5 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 7.5 | 0.1 |
| 10°-20° | 36.1 | 0.7 |
| 20°-30° | 108.7 | 2.2 |
| 30°-40° | 249.8 | 5.0 |
| 40°-50° | 480.3 | 9.6 |
| 50°-60° | 849.2 | 17.0 |
| 60°-70° | 1316.0 | 26.3 |
| 70°-80° | 1277.2 | 25.5 |
| 80°-90° | 501.0 | 10.0 |
| 90°-100° | 107.8 | 2.2 |
| 100°-110° | 36.8 | 0.7 |
| 110°-120° | 16.2 | 0.3 |
| 120°-130° | 8.2 | 0.2 |
| 130°-140° | 4.4 | 0.1 |
| 140°-150° | 2.1 | 0.0 |
| 150°-160° | 0.6 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 4825.9 | 96.5 |
| 0°-180° | 5002.0 | 100.0 |



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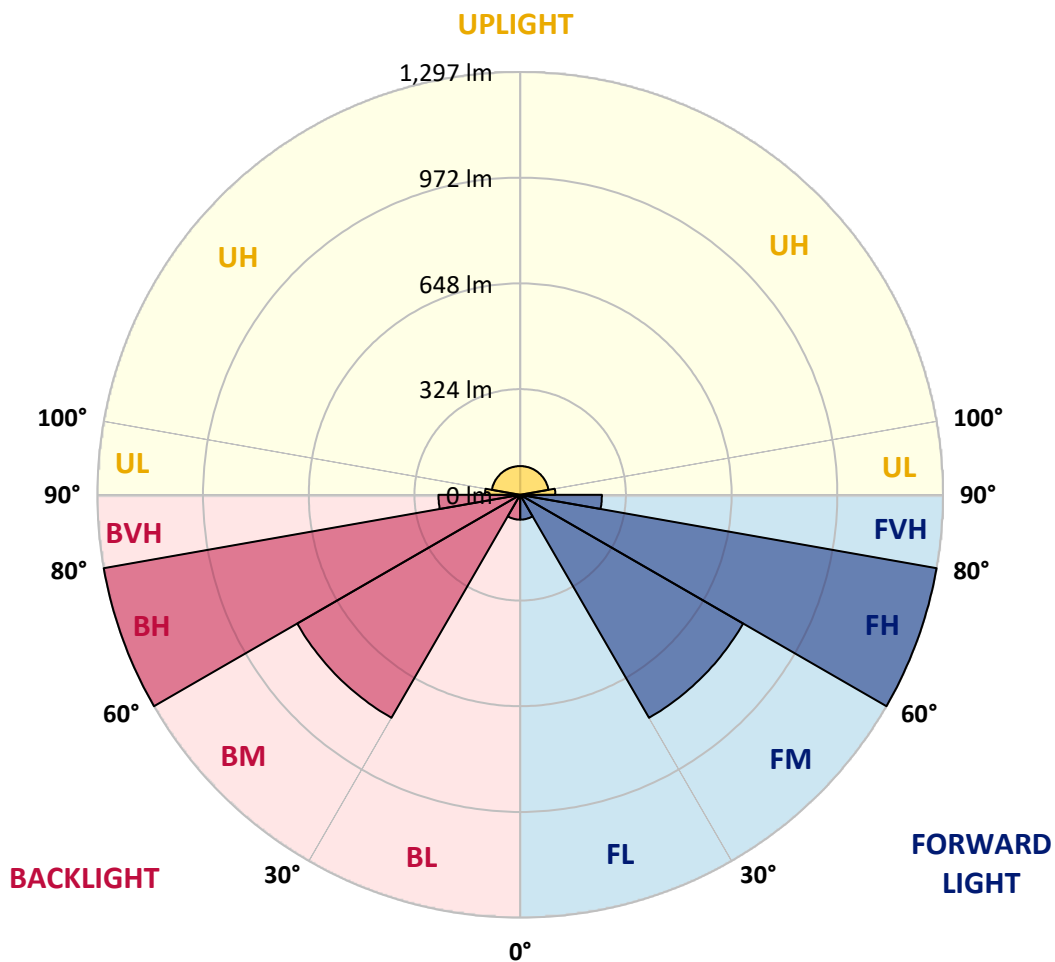
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 76.1 | 1.5 | | | |
| FM | (30°-60°) | 789.7 | 15.8 | | | |
| FH | (60°-80°) | 1296.6 | 25.9 | | | G1/1800 |
| FVH | (80°-90°) | 250.5 | 5.0 | | | G3/500 |
| BL | (0°-30°) | 76.1 | 1.5 | B0/110 | | |
| BM | (30°-60°) | 789.7 | 15.8 | B1/1000 | | |
| BH | (60°-80°) | 1296.6 | 25.9 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 250.5 | 5.0 | | | G3/500 |
| UL | (90°-100°) | 107.8 | 2.2 | | U3/500 | |
| UH | (100°-180°) | 88.1 | 1.8 | | U3/500 | |

BUG Rating: B3-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 |
| 2.5° | 68.4 | 68.4 | 68.4 | 69.0 | 69.0 | 69.5 | 69.0 | 68.4 | 68.4 | 67.9 | 67.9 |
| 5° | 73.4 | 73.4 | 73.4 | 73.4 | 73.9 | 73.9 | 72.8 | 72.3 | 71.7 | 71.7 | 71.7 |
| 7.5° | 81.0 | 81.0 | 81.6 | 81.0 | 81.0 | 80.5 | 79.4 | 78.3 | 78.3 | 77.7 | 77.7 |
| 10° | 93.1 | 92.0 | 92.0 | 91.4 | 90.9 | 89.8 | 88.7 | 88.2 | 87.1 | 87.1 | 86.0 |
| 12.5° | 109.5 | 109.0 | 107.3 | 105.7 | 103.5 | 101.8 | 100.7 | 100.2 | 100.2 | 100.2 | 101.3 |
| 15° | 128.7 | 129.2 | 128.1 | 124.3 | 119.9 | 116.6 | 116.1 | 116.1 | 117.2 | 118.3 | 118.3 |
| 17.5° | 153.9 | 152.8 | 150.0 | 145.6 | 140.2 | 136.9 | 134.7 | 136.3 | 139.1 | 140.7 | 141.8 |
| 20° | 181.2 | 180.7 | 176.9 | 169.7 | 163.7 | 159.3 | 157.7 | 159.9 | 164.8 | 169.2 | 168.6 |
| 22.5° | 213.0 | 212.4 | 206.4 | 197.1 | 188.9 | 184.0 | 182.3 | 186.7 | 197.1 | 202.6 | 203.7 |
| 25° | 249.1 | 247.5 | 242.0 | 229.4 | 217.9 | 210.3 | 211.3 | 219.0 | 232.7 | 243.6 | 243.1 |
| 27.5° | 290.2 | 288.0 | 277.6 | 263.4 | 248.0 | 240.4 | 242.6 | 255.1 | 273.8 | 286.4 | 288.0 |
| 30° | 335.1 | 331.8 | 320.9 | 300.0 | 282.5 | 271.6 | 277.0 | 294.6 | 318.1 | 336.2 | 338.4 |
| 32.5° | 378.3 | 382.2 | 363.6 | 342.8 | 318.7 | 304.4 | 311.5 | 335.6 | 364.7 | 389.8 | 392.0 |
| 35° | 433.1 | 429.8 | 413.9 | 386.6 | 357.0 | 342.2 | 351.5 | 381.1 | 413.9 | 443.5 | 444.6 |
| 37.5° | 491.7 | 488.4 | 467.6 | 434.2 | 399.7 | 382.2 | 394.2 | 426.0 | 468.1 | 497.7 | 504.3 |
| 40° | 554.6 | 548.1 | 528.9 | 487.8 | 445.7 | 427.6 | 439.1 | 479.1 | 524.5 | 556.8 | 561.2 |
| 42.5° | 616.5 | 612.7 | 593.0 | 545.9 | 497.7 | 474.7 | 491.7 | 531.1 | 583.7 | 615.4 | 620.9 |
| 45° | 683.9 | 683.3 | 662.0 | 610.5 | 556.3 | 530.6 | 548.1 | 591.9 | 642.3 | 678.9 | 682.2 |
| 47.5° | 755.0 | 755.6 | 737.0 | 685.5 | 619.8 | 590.8 | 607.8 | 657.0 | 716.2 | 749.0 | 752.3 |
| 50° | 839.4 | 836.1 | 823.5 | 763.3 | 694.3 | 661.4 | 683.3 | 734.8 | 789.5 | 824.6 | 827.9 |
| 52.5° | 928.1 | 928.1 | 913.3 | 858.0 | 777.5 | 743.5 | 762.2 | 814.7 | 876.0 | 907.8 | 914.4 |
| 55° | 1026.6 | 1022.2 | 1016.2 | 956.0 | 873.9 | 834.4 | 853.0 | 912.7 | 969.1 | 996.5 | 997.0 |
| 57.5° | 1133.4 | 1129.0 | 1127.9 | 1073.7 | 980.1 | 928.6 | 950.0 | 1006.4 | 1070.4 | 1088.5 | 1094.0 |
| 60° | 1236.9 | 1244.5 | 1240.2 | 1192.5 | 1086.8 | 1028.8 | 1052.9 | 1112.0 | 1173.9 | 1190.3 | 1195.8 |
| 62.5° | 1349.7 | 1353.5 | 1365.5 | 1307.5 | 1193.6 | 1131.7 | 1155.8 | 1208.4 | 1271.4 | 1285.0 | 1287.2 |
| 65° | 1447.1 | 1450.9 | 1466.8 | 1412.1 | 1282.9 | 1217.7 | 1245.1 | 1300.4 | 1363.3 | 1375.4 | 1368.3 |
| 67.5° | 1505.2 | 1513.9 | 1538.0 | 1486.0 | 1352.9 | 1281.2 | 1309.1 | 1361.2 | 1415.9 | 1426.9 | 1417.5 |
| 68° | 1513.9 | 1521.0 | 1543.5 | 1496.4 | 1361.7 | 1288.9 | 1318.4 | 1369.9 | 1425.8 | 1434.5 | 1427.4 |
| 70° | 1507.9 | 1516.1 | 1544.0 | 1502.4 | 1377.6 | 1308.0 | 1336.0 | 1379.8 | 1431.2 | 1434.5 | 1429.6 |
| 72.5° | 1424.7 | 1439.5 | 1466.8 | 1452.0 | 1350.8 | 1287.8 | 1311.3 | 1338.2 | 1373.7 | 1373.2 | 1367.2 |
| 75° | 1265.3 | 1258.8 | 1315.2 | 1322.3 | 1255.5 | 1219.3 | 1230.8 | 1231.4 | 1238.5 | 1228.7 | 1208.9 |
| 77.5° | 1011.8 | 1027.2 | 1081.9 | 1129.5 | 1107.1 | 1092.9 | 1095.1 | 1062.8 | 1048.5 | 1006.4 | 993.2 |
| 80° | 738.1 | 750.1 | 808.7 | 881.0 | 913.3 | 929.7 | 911.1 | 850.3 | 800.5 | 757.2 | 742.4 |
| 82.5° | 503.7 | 508.1 | 577.1 | 646.6 | 711.2 | 730.9 | 714.5 | 631.8 | 562.9 | 516.9 | 496.6 |
| 85° | 309.9 | 317.0 | 366.3 | 435.3 | 511.4 | 556.3 | 518.0 | 435.3 | 365.7 | 329.6 | 321.4 |
| 87.5° | 182.3 | 193.3 | 226.1 | 278.1 | 351.0 | 389.3 | 359.2 | 287.5 | 231.6 | 205.3 | 195.5 |
| 90° | 113.9 | 120.5 | 141.3 | 179.0 | 235.4 | 263.4 | 243.1 | 186.7 | 149.5 | 127.0 | 119.9 |
| 92.5° | 79.4 | 81.6 | 95.8 | 119.9 | 160.4 | 179.6 | 162.6 | 128.1 | 102.4 | 85.4 | 82.7 |
| 95° | 59.1 | 60.8 | 69.5 | 84.9 | 110.6 | 125.4 | 113.9 | 90.3 | 72.8 | 61.3 | 59.7 |
| 97.5° | 46.5 | 47.6 | 54.8 | 64.6 | 81.0 | 91.4 | 84.3 | 69.0 | 56.4 | 47.1 | 45.4 |
| 100° | 36.1 | 37.2 | 43.8 | 51.5 | 63.5 | 69.0 | 64.6 | 54.2 | 44.3 | 36.1 | 35.0 |
| 102.5° | 28.5 | 29.0 | 35.0 | 42.2 | 50.9 | 54.8 | 51.5 | 43.8 | 35.0 | 27.9 | 27.4 |
| 105° | 22.4 | 23.0 | 28.5 | 35.0 | 42.2 | 44.9 | 42.7 | 36.1 | 27.9 | 21.4 | 20.8 |
| 107.5° | 17.5 | 18.1 | 22.4 | 29.0 | 35.0 | 37.2 | 35.0 | 29.6 | 21.9 | 17.0 | 16.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110° | 14.2 | 14.2 | 18.6 | 24.1 | 29.6 | 31.2 | 29.6 | 24.1 | 17.5 | 13.7 | 13.1 |
| 112.5° | 12.0 | 12.0 | 15.3 | 20.3 | 24.6 | 26.8 | 24.6 | 19.7 | 14.2 | 11.0 | 11.0 |
| 115° | 9.9 | 10.4 | 12.6 | 17.0 | 20.8 | 22.4 | 20.8 | 16.4 | 12.0 | 9.3 | 9.3 |
| 117.5° | 8.8 | 9.3 | 11.0 | 14.2 | 18.1 | 19.2 | 17.5 | 13.7 | 9.9 | 8.2 | 8.2 |
| 120° | 8.2 | 8.2 | 9.3 | 12.0 | 15.3 | 16.4 | 14.8 | 12.0 | 8.8 | 7.7 | 7.7 |
| 122.5° | 7.7 | 7.7 | 8.2 | 10.4 | 13.1 | 14.2 | 12.6 | 9.9 | 7.7 | 7.1 | 6.6 |
| 125° | 7.1 | 7.1 | 7.7 | 9.3 | 11.5 | 12.0 | 11.0 | 8.8 | 6.6 | 6.0 | 6.0 |
| 127.5° | 6.6 | 6.6 | 7.1 | 8.2 | 9.9 | 10.4 | 9.9 | 7.7 | 6.0 | 6.0 | 6.0 |
| 130° | 6.0 | 6.0 | 6.6 | 7.1 | 8.8 | 9.3 | 8.2 | 6.6 | 5.5 | 5.5 | 5.5 |
| 132.5° | 5.5 | 5.5 | 5.5 | 6.6 | 7.7 | 7.7 | 7.1 | 6.0 | 5.5 | 4.9 | 4.9 |
| 135° | 5.5 | 5.5 | 5.5 | 5.5 | 6.6 | 7.1 | 6.0 | 5.5 | 4.9 | 4.9 | 4.9 |
| 137.5° | 4.9 | 4.9 | 4.9 | 4.9 | 5.5 | 6.0 | 5.5 | 4.9 | 4.4 | 4.4 | 4.4 |
| 140° | 4.4 | 4.4 | 4.4 | 4.4 | 4.9 | 4.9 | 4.9 | 3.8 | 3.8 | 3.8 | 3.8 |
| 142.5° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 4.4 | 3.8 | 3.3 | 3.3 | 3.3 | 3.3 |
| 145° | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 147.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 150° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 152.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 155° | 1.1 | 1.1 | 1.1 | 1.1 | 1.6 | 1.1 | 1.6 | 1.1 | 1.1 | 1.1 | 1.1 |
| 157.5° | 0.5 | 0.5 | 1.1 | 1.1 | 1.1 | 1.6 | 1.1 | 1.1 | 0.5 | 0.5 | 0.5 |
| 160° | 0.0 | 0.5 | 0.5 | 0.5 | 1.1 | 1.1 | 1.1 | 0.5 | 0.5 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 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)