

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: LUMIERE

Report Number: P394741

Luminaire Tested: **303-B1-LEDB2-2700-UNV-T5X-DIM10**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2001-660-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-B1-LEDB2-2700-UNV-T5X-DIM10
Description: LUMIERE EON LED LUMINAIRE
BOLLARD, SINGLE HEAD, TWO LIGHTBAR, TYPE 5
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1120.5 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 0.38' x L: 0.42' x H: 0')
IES Classification: Type I - Short
BUG Rating: B0 - U0 - G0

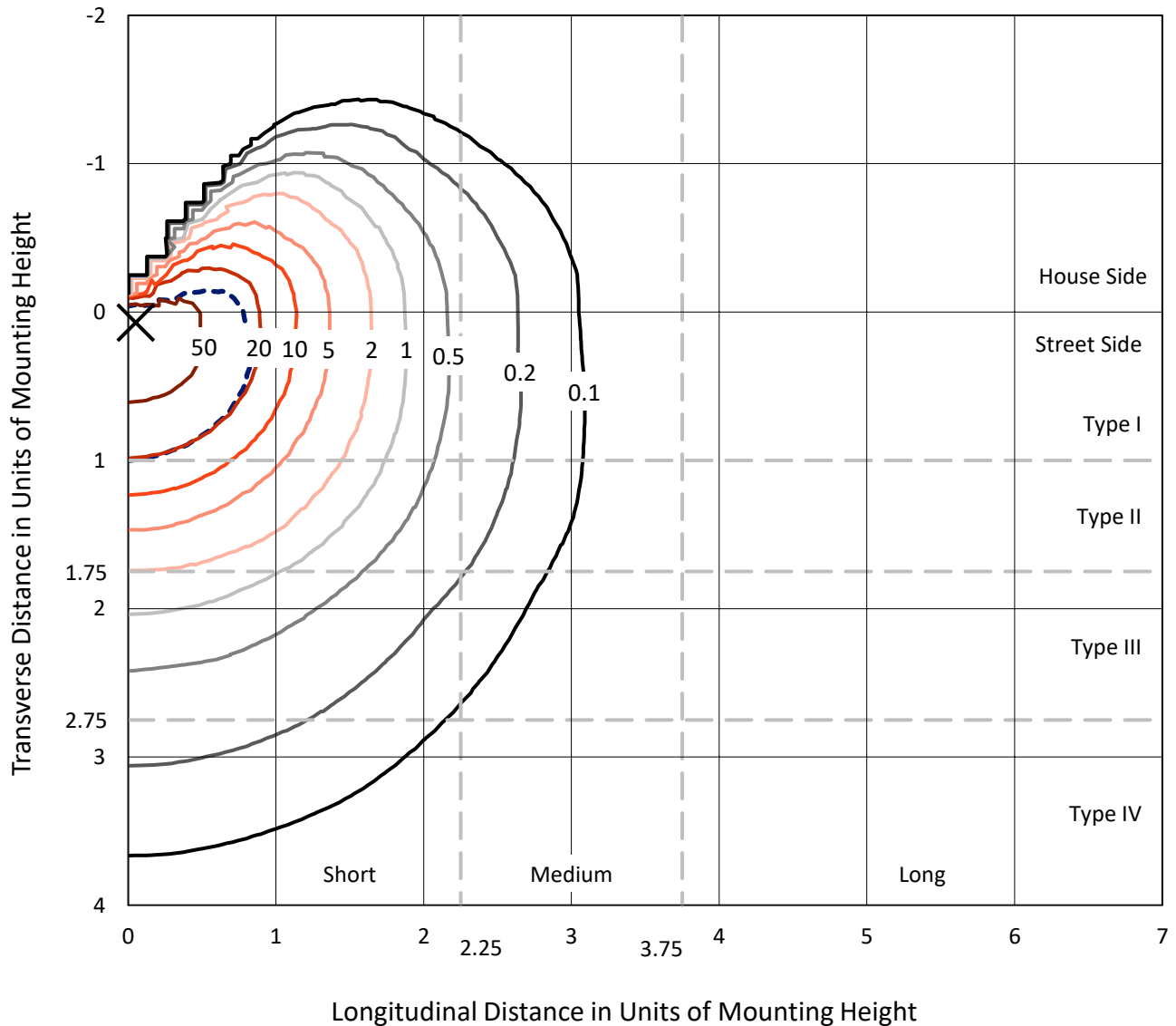
Input Watts (W): 15.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

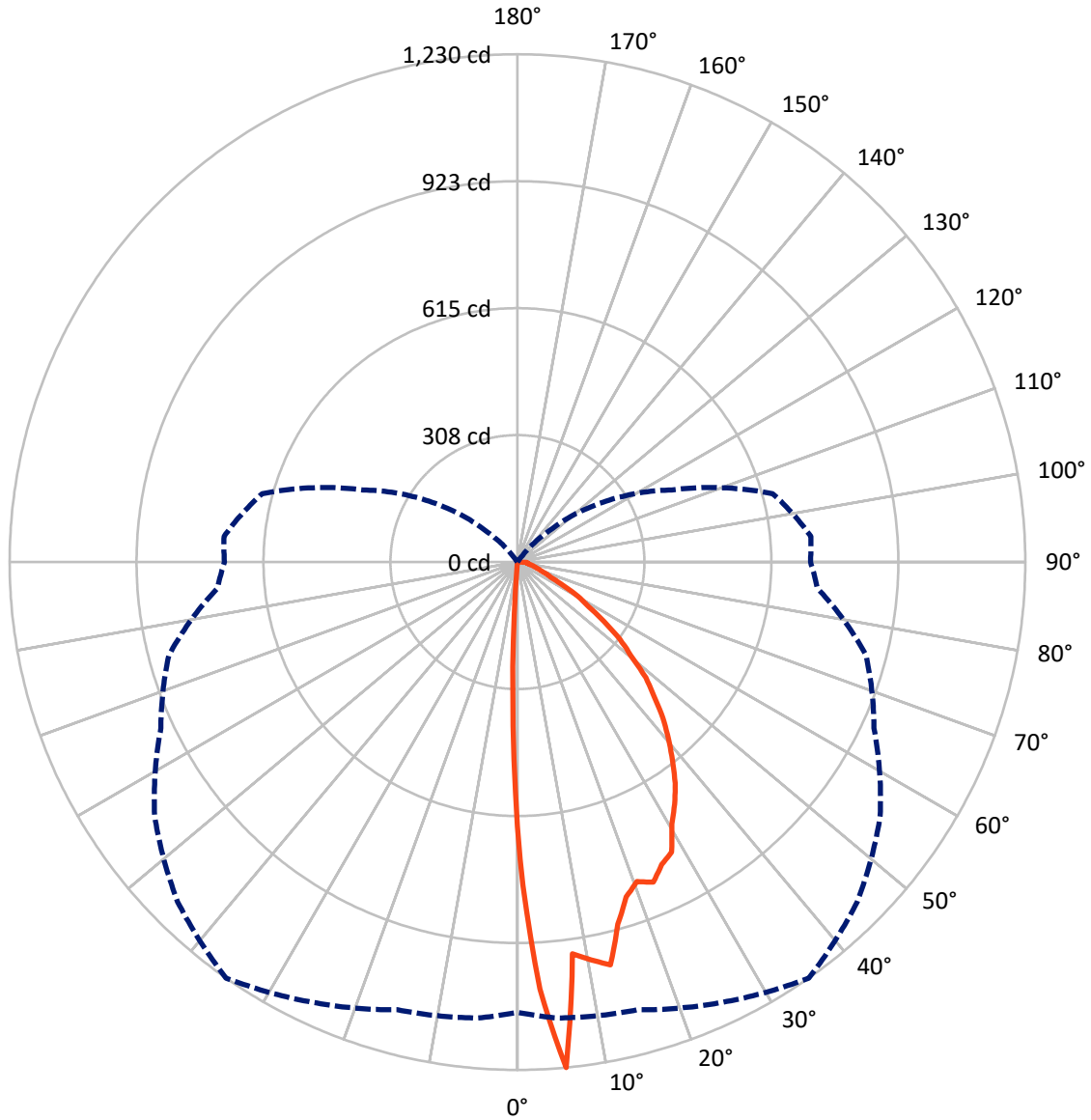
× Max cd
 - - - 1/2 Max cd



Based on 3 foot mounting height. Maximum calculated value = 105.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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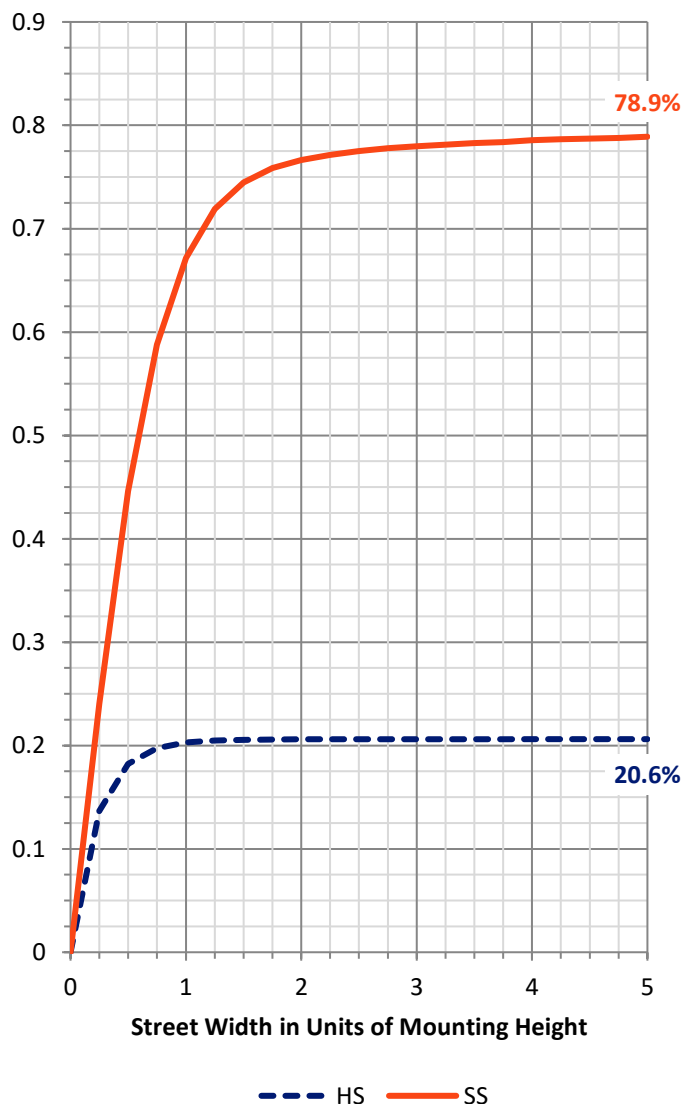
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 233.4 | 0.0 | 233.4 |
| | % Fixture | 20.8 | 0.0 | 20.8 |
| Street Side | Lumens | 887.1 | 0.0 | 887.1 |
| | % Fixture | 79.2 | 0.0 | 79.2 |
| Total | Lumens | 1120.5 | 0.0 | 1120.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.7 | 5.2 |
| 10°-20° | 151.7 | 13.5 |
| 20°-30° | 220.4 | 19.7 |
| 30°-40° | 248.6 | 22.2 |
| 40°-50° | 218.8 | 19.5 |
| 50°-60° | 136.0 | 12.1 |
| 60°-70° | 55.0 | 4.9 |
| 70°-80° | 22.5 | 2.0 |
| 80°-90° | 8.7 | 0.8 |
| 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° | 1120.5 | 100.0 |
| 0°-180° | 1120.5 | 100.0 |

Coefficient of Utilization



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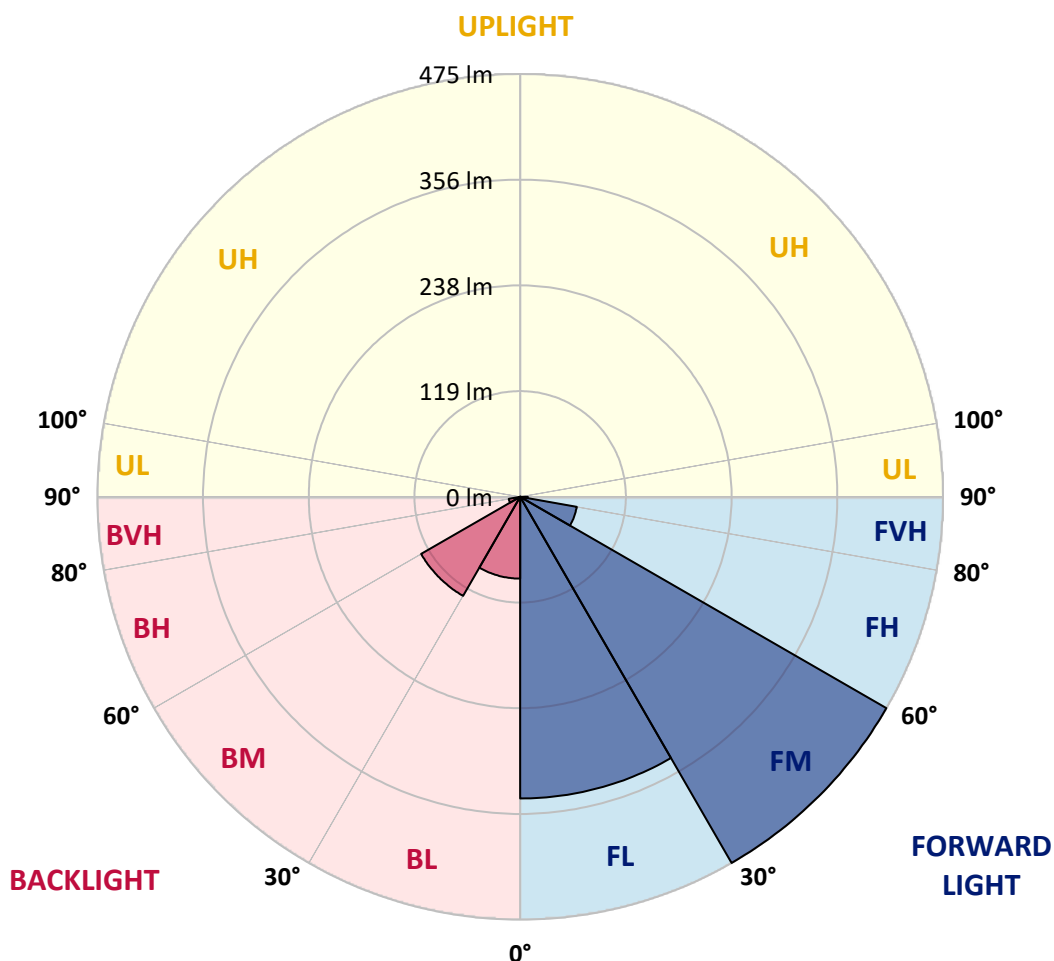
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 338.9 | 30.2 | | | |
| FM (30°-60°) | 475.0 | 42.4 | | | |
| FH (60°-80°) | 64.5 | 5.8 | | | G0/660 |
| FVH (80°-90°) | 8.6 | 0.8 | | | G0/10 |
| BL (0°-30°) | 91.9 | 8.2 | B0/110 | | |
| BM (30°-60°) | 128.5 | 11.5 | B0/220 | | |
| BH (60°-80°) | 13.0 | 1.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.1 | 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 I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 |
| 2.5° | 1108.8 | 1083.7 | 1051.5 | 1053.3 | 1035.4 | 1033.6 | 1015.8 | 799.4 | 731.4 | 718.9 | 718.9 |
| 5° | 1090.9 | 1108.8 | 1123.1 | 1176.7 | 1230.4 | 1164.2 | 1073.0 | 953.2 | 874.5 | 729.6 | 710.0 |
| 7.5° | 953.2 | 937.1 | 949.6 | 951.4 | 958.5 | 990.7 | 1064.1 | 938.9 | 842.3 | 726.1 | 704.6 |
| 10° | 1053.3 | 1042.6 | 1060.5 | 1040.8 | 980.0 | 874.5 | 853.0 | 937.1 | 808.3 | 702.8 | 699.2 |
| 12.5° | 924.6 | 917.4 | 942.4 | 996.1 | 1001.5 | 962.1 | 833.4 | 826.2 | 797.6 | 684.9 | 688.5 |
| 15° | 883.4 | 879.9 | 883.4 | 869.1 | 910.3 | 944.2 | 881.6 | 747.5 | 779.7 | 690.3 | 686.7 |
| 17.5° | 872.7 | 872.7 | 854.8 | 847.7 | 853.0 | 858.4 | 867.3 | 749.3 | 754.7 | 684.9 | 668.8 |
| 20° | 879.9 | 869.1 | 858.4 | 862.0 | 826.2 | 828.0 | 835.1 | 799.4 | 701.0 | 663.5 | 652.7 |
| 22.5° | 833.4 | 824.4 | 845.9 | 844.1 | 842.3 | 797.6 | 776.1 | 774.3 | 670.6 | 652.7 | 645.6 |
| 25° | 808.3 | 804.7 | 799.4 | 801.2 | 811.9 | 797.6 | 754.7 | 756.5 | 643.8 | 615.2 | 627.7 |
| 27.5° | 776.1 | 769.0 | 770.8 | 770.8 | 795.8 | 765.4 | 722.5 | 711.8 | 629.5 | 595.5 | 599.1 |
| 30° | 743.9 | 745.7 | 743.9 | 742.2 | 736.8 | 720.7 | 704.6 | 684.9 | 634.9 | 588.4 | 575.8 |
| 32.5° | 704.6 | 693.9 | 706.4 | 695.7 | 699.2 | 684.9 | 667.0 | 658.1 | 606.2 | 563.3 | 549.0 |
| 35° | 668.8 | 663.5 | 667.0 | 665.3 | 658.1 | 643.8 | 620.5 | 608.0 | 572.3 | 532.9 | 527.6 |
| 37.5° | 631.3 | 620.5 | 629.5 | 633.1 | 609.8 | 602.7 | 586.6 | 570.5 | 531.1 | 493.6 | 493.6 |
| 40° | 583.0 | 586.6 | 577.6 | 579.4 | 563.3 | 556.2 | 541.9 | 522.2 | 495.4 | 461.4 | 454.2 |
| 42.5° | 543.6 | 531.1 | 524.0 | 527.6 | 516.8 | 513.2 | 500.7 | 488.2 | 448.9 | 420.3 | 416.7 |
| 45° | 488.2 | 482.8 | 482.8 | 473.9 | 463.2 | 463.2 | 443.5 | 434.6 | 409.5 | 382.7 | 382.7 |
| 47.5° | 432.8 | 431.0 | 420.3 | 420.3 | 418.5 | 414.9 | 397.0 | 379.1 | 363.0 | 330.8 | 334.4 |
| 50° | 382.7 | 380.9 | 375.5 | 377.3 | 355.9 | 354.1 | 343.4 | 325.5 | 305.8 | 289.7 | 287.9 |
| 52.5° | 323.7 | 320.1 | 320.1 | 311.2 | 311.2 | 305.8 | 289.7 | 279.0 | 261.1 | 245.0 | 245.0 |
| 55° | 262.9 | 264.7 | 262.9 | 255.7 | 253.9 | 250.4 | 236.1 | 225.3 | 212.8 | 193.1 | 187.8 |
| 57.5° | 214.6 | 221.8 | 211.0 | 205.7 | 203.9 | 200.3 | 194.9 | 182.4 | 164.5 | 148.4 | 144.9 |
| 60° | 146.6 | 146.6 | 148.4 | 160.9 | 168.1 | 157.4 | 152.0 | 137.7 | 125.2 | 110.9 | 107.3 |
| 62.5° | 116.2 | 116.2 | 116.2 | 112.7 | 123.4 | 119.8 | 116.2 | 107.3 | 94.8 | 82.3 | 78.7 |
| 65° | 94.8 | 94.8 | 93.0 | 91.2 | 89.4 | 93.0 | 89.4 | 78.7 | 71.5 | 62.6 | 60.8 |
| 67.5° | 80.5 | 78.7 | 80.5 | 76.9 | 73.3 | 71.5 | 69.7 | 64.4 | 57.2 | 48.3 | 46.5 |
| 70° | 68.0 | 68.0 | 66.2 | 62.6 | 59.0 | 53.6 | 55.4 | 50.1 | 44.7 | 37.6 | 37.6 |
| 72.5° | 57.2 | 57.2 | 55.4 | 53.6 | 48.3 | 44.7 | 41.1 | 41.1 | 34.0 | 28.6 | 26.8 |
| 75° | 48.3 | 48.3 | 46.5 | 44.7 | 41.1 | 37.6 | 32.2 | 28.6 | 25.0 | 19.7 | 17.9 |
| 77.5° | 42.9 | 41.1 | 41.1 | 37.6 | 34.0 | 30.4 | 25.0 | 21.5 | 17.9 | 12.5 | 12.5 |
| 80° | 35.8 | 35.8 | 35.8 | 32.2 | 28.6 | 25.0 | 21.5 | 16.1 | 12.5 | 7.2 | 5.4 |
| 82.5° | 32.2 | 30.4 | 30.4 | 28.6 | 25.0 | 21.5 | 16.1 | 10.7 | 7.2 | 3.6 | 1.8 |
| 85° | 28.6 | 28.6 | 26.8 | 25.0 | 23.2 | 17.9 | 14.3 | 8.9 | 3.6 | 0.0 | 0.0 |
| 87.5° | 26.8 | 26.8 | 25.0 | 23.2 | 21.5 | 17.9 | 12.5 | 8.9 | 3.6 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 | 720.7 |
| 2.5° | 717.1 | 720.7 | 711.8 | 456.0 | 327.3 | 316.5 | 318.3 | 316.5 | 304.0 | 296.9 |
| 5° | 713.5 | 640.2 | 413.1 | 252.2 | 101.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 708.2 | 611.6 | 411.3 | 245.0 | 103.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 692.1 | 602.7 | 405.9 | 262.9 | 101.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 692.1 | 597.3 | 397.0 | 273.6 | 100.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 684.9 | 588.4 | 395.2 | 275.4 | 100.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 668.8 | 583.0 | 388.1 | 270.0 | 98.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 647.4 | 563.3 | 379.1 | 266.5 | 96.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 638.4 | 532.9 | 370.2 | 252.2 | 93.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 613.4 | 518.6 | 359.5 | 245.0 | 89.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 599.1 | 497.2 | 346.9 | 232.5 | 85.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 561.5 | 493.6 | 329.1 | 232.5 | 82.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 549.0 | 475.7 | 318.3 | 221.8 | 76.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 513.2 | 454.2 | 302.2 | 209.2 | 73.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 490.0 | 422.0 | 279.0 | 194.9 | 66.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 456.0 | 391.6 | 261.1 | 177.0 | 34.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 411.3 | 354.1 | 239.6 | 164.5 | 57.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 377.3 | 321.9 | 216.4 | 137.7 | 51.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 329.1 | 282.6 | 186.0 | 130.5 | 44.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 284.3 | 241.4 | 159.2 | 112.7 | 39.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 236.1 | 203.9 | 132.3 | 94.8 | 32.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 186.0 | 159.2 | 109.1 | 76.9 | 25.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 143.1 | 127.0 | 85.8 | 59.0 | 19.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 109.1 | 91.2 | 66.2 | 39.3 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 78.7 | 66.2 | 46.5 | 30.4 | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 60.8 | 50.1 | 32.2 | 21.5 | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 46.5 | 37.6 | 25.0 | 14.3 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 37.6 | 28.6 | 17.9 | 8.9 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 26.8 | 21.5 | 14.3 | 7.2 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 17.9 | 14.3 | 8.9 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 10.7 | 8.9 | 3.6 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 5.4 | 3.6 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |

(END OF REPORT)