

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: McGRAW-EDISON

Report Number: P833941

Luminaire Tested: **TTN-D3-750-U-CQ-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833941
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G3-2308-121-4) AND
Test Lab: INNOVATION CENTER
Issue Date: 5/15/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TTN-D3-750-U-CQ-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
5000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7399.9 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G1

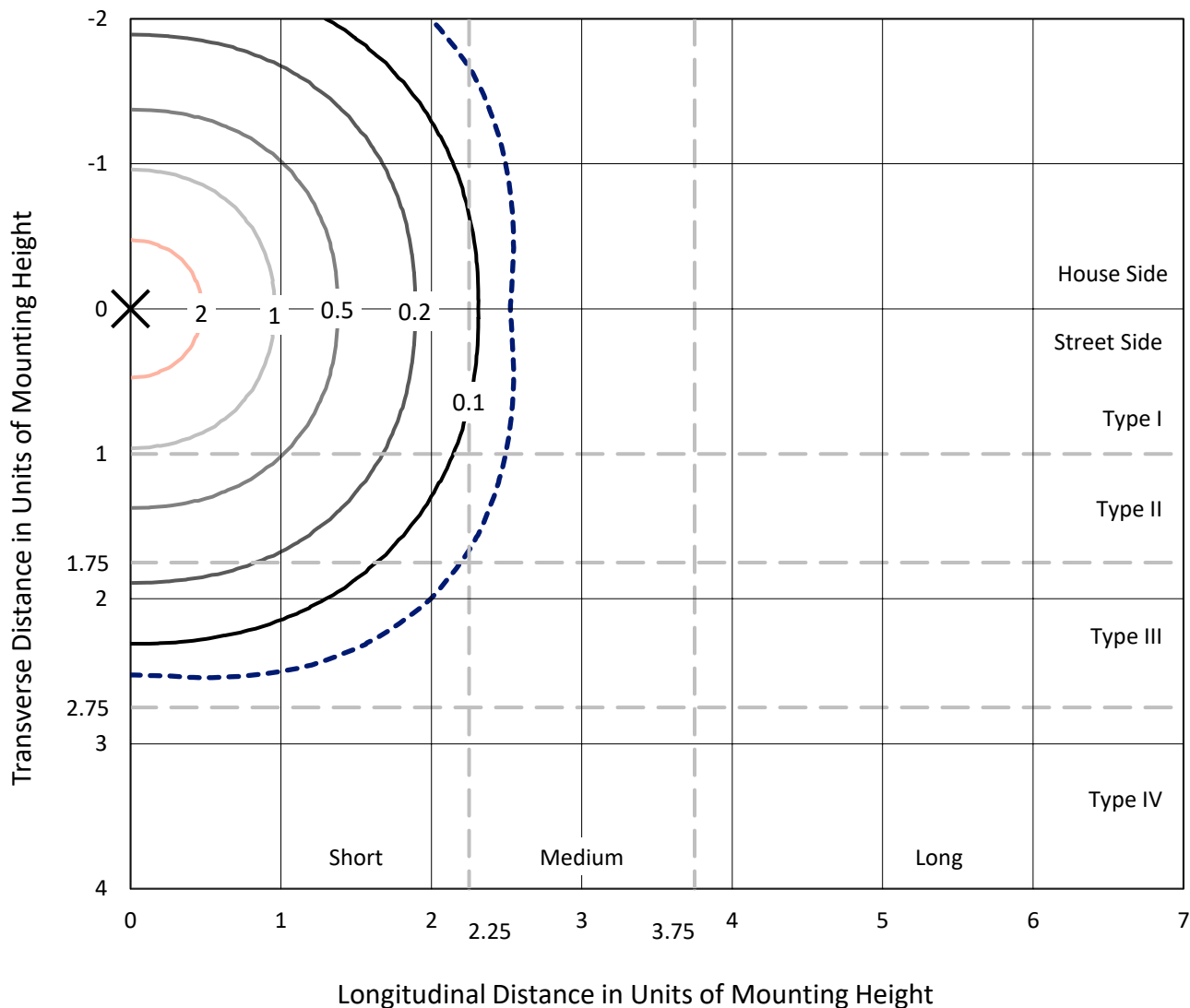
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

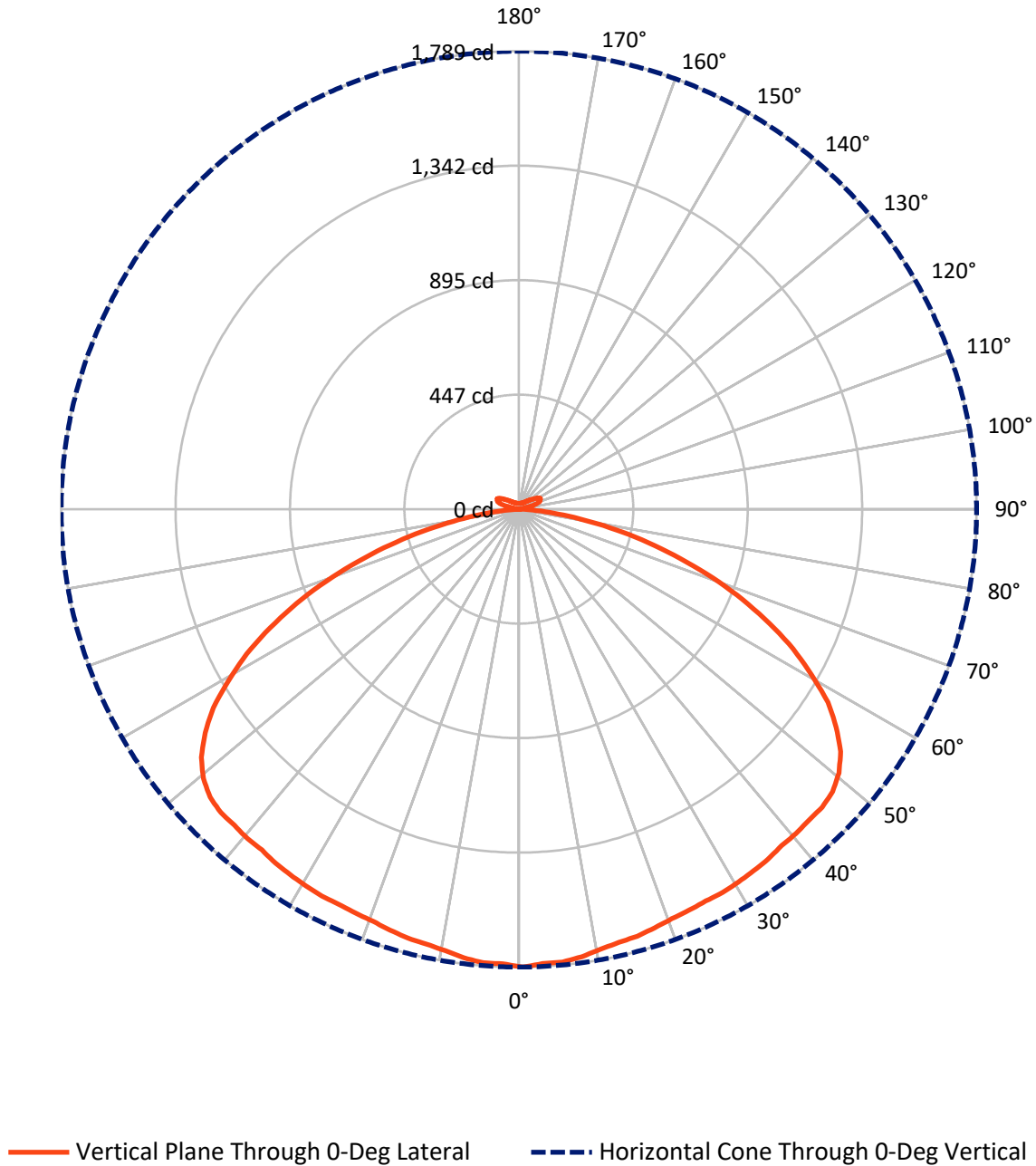
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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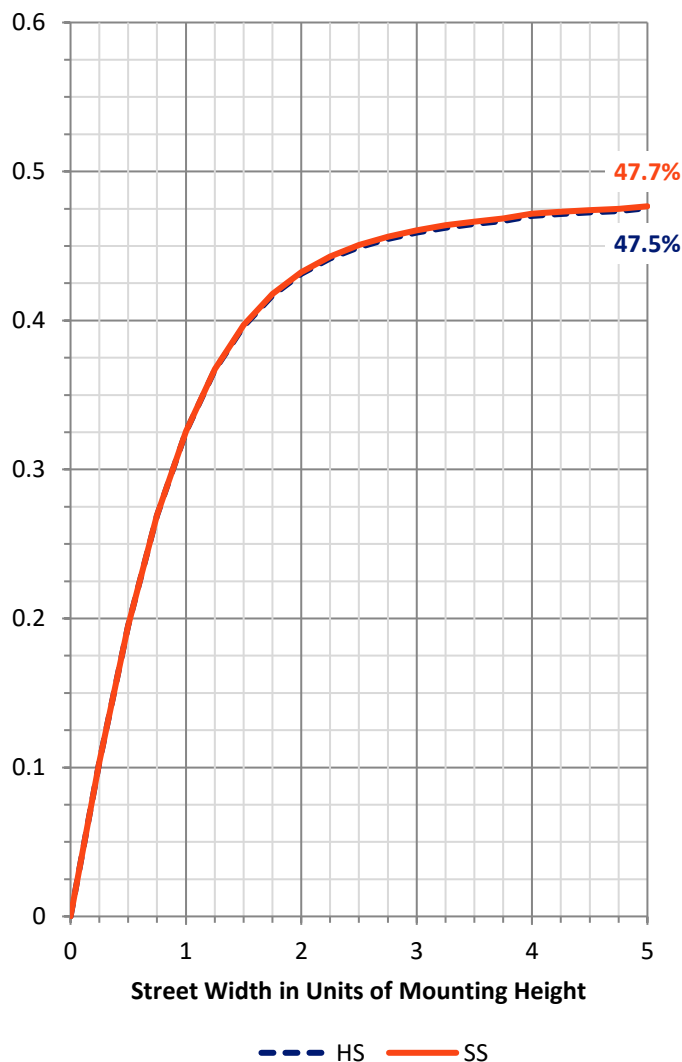
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3538.2 | 161.7 | 3699.9 |
| | % Fixture | 47.8 | 2.2 | 50.0 |
| Street Side | Lumens | 3538.2 | 161.7 | 3699.9 |
| | % Fixture | 47.8 | 2.2 | 50.0 |
| Total | Lumens | 7076.4 | 323.4 | 7399.9 |
| | % Fixture | 95.6 | 4.4 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 168.7 | 2.3 |
| 10°-20° | 489.9 | 6.6 |
| 20°-30° | 788.8 | 10.7 |
| 30°-40° | 1061.0 | 14.3 |
| 40°-50° | 1309.0 | 17.7 |
| 50°-60° | 1404.4 | 19.0 |
| 60°-70° | 1138.9 | 15.4 |
| 70°-80° | 603.6 | 8.2 |
| 80°-90° | 112.1 | 1.5 |
| 90°-100° | 7.2 | 0.1 |
| 100°-110° | 73.4 | 1.0 |
| 110°-120° | 107.3 | 1.4 |
| 120°-130° | 62.3 | 0.8 |
| 130°-140° | 33.0 | 0.4 |
| 140°-150° | 19.6 | 0.3 |
| 150°-160° | 12.1 | 0.2 |
| 160°-170° | 6.6 | 0.1 |
| 170°-180° | 2.1 | 0.0 |
| 0°-90° | 7076.4 | 95.6 |
| 0°-180° | 7399.9 | 100.0 |

Coefficient of Utilization

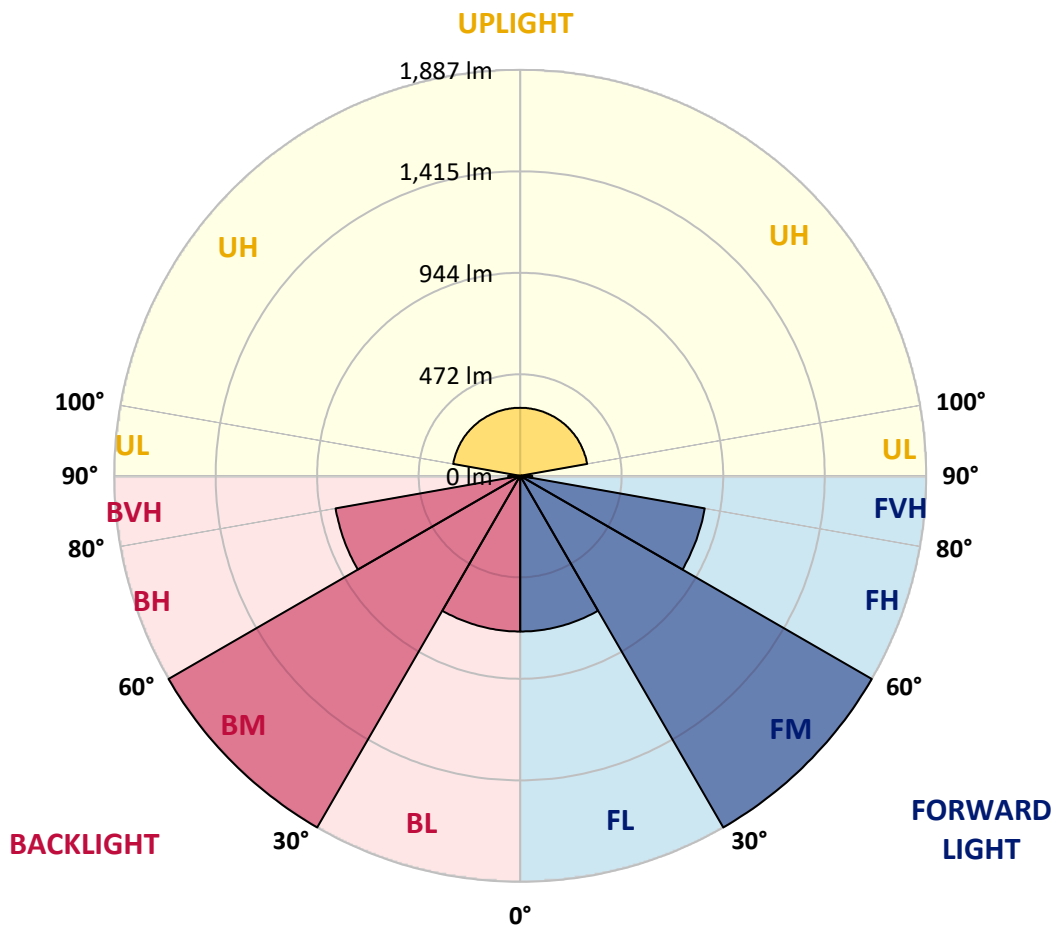


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 723.7 | 9.8 | | | |
| FM (30°-60°) | 1887.2 | 25.5 | | | |
| FH (60°-80°) | 871.3 | 11.8 | | | G1/1800 |
| FVH (80°-90°) | 56.0 | 0.8 | | | G1/100 |
| BL (0°-30°) | 723.7 | 9.8 | B2/1000 | | |
| BM (30°-60°) | 1887.2 | 25.5 | B2/2500 | | |
| BH (60°-80°) | 871.3 | 11.8 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 56.0 | 0.8 | | | G1/100 |
| UL (90°-100°) | 7.2 | 0.1 | | U1/10 | |
| UH (100°-180°) | 316.2 | 4.3 | | U3/500 | |

BUG Rating: B2-U3-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1789.3 | 1789.3 | 1789.3 | 1789.3 | 1789.3 | 1789.3 | 1789.3 | 1789.3 | 1789.3 | 1789.3 | 1789.3 |
| 2.5° | 1777.7 | 1777.7 | 1777.7 | 1777.7 | 1777.7 | 1777.7 | 1777.7 | 1777.7 | 1777.7 | 1777.7 | 1783.5 |
| 5° | 1777.7 | 1777.7 | 1777.7 | 1777.7 | 1771.9 | 1777.7 | 1777.7 | 1777.7 | 1777.7 | 1777.7 | 1777.7 |
| 7.5° | 1766.1 | 1766.1 | 1766.1 | 1766.1 | 1766.1 | 1766.1 | 1766.1 | 1766.1 | 1766.1 | 1766.1 | 1766.1 |
| 10° | 1748.7 | 1748.7 | 1748.7 | 1748.7 | 1748.7 | 1748.7 | 1748.7 | 1748.7 | 1748.7 | 1748.7 | 1748.7 |
| 12.5° | 1737.2 | 1737.2 | 1737.2 | 1737.2 | 1737.2 | 1737.2 | 1737.2 | 1737.2 | 1737.2 | 1737.2 | 1737.2 |
| 15° | 1731.4 | 1731.4 | 1731.4 | 1731.4 | 1731.4 | 1731.4 | 1731.4 | 1731.4 | 1731.4 | 1725.6 | 1725.6 |
| 17.5° | 1719.8 | 1719.8 | 1719.8 | 1719.8 | 1725.6 | 1725.6 | 1725.6 | 1719.8 | 1719.8 | 1719.8 | 1719.8 |
| 20° | 1708.2 | 1708.2 | 1708.2 | 1714.0 | 1714.0 | 1714.0 | 1714.0 | 1714.0 | 1708.2 | 1708.2 | 1708.2 |
| 22.5° | 1702.4 | 1702.4 | 1702.4 | 1702.4 | 1708.2 | 1708.2 | 1708.2 | 1708.2 | 1702.4 | 1702.4 | 1702.4 |
| 25° | 1696.6 | 1696.6 | 1702.4 | 1702.4 | 1708.2 | 1708.2 | 1708.2 | 1702.4 | 1702.4 | 1696.6 | 1696.6 |
| 27.5° | 1696.6 | 1696.6 | 1702.4 | 1702.4 | 1708.2 | 1708.2 | 1708.2 | 1708.2 | 1702.4 | 1696.6 | 1696.6 |
| 30° | 1690.8 | 1696.6 | 1696.6 | 1702.4 | 1708.2 | 1708.2 | 1708.2 | 1702.4 | 1696.6 | 1690.8 | 1690.8 |
| 32.5° | 1685.0 | 1685.0 | 1690.8 | 1696.6 | 1702.4 | 1702.4 | 1702.4 | 1696.6 | 1690.8 | 1685.0 | 1679.2 |
| 35° | 1679.2 | 1679.2 | 1679.2 | 1690.8 | 1696.6 | 1696.6 | 1696.6 | 1690.8 | 1679.2 | 1673.5 | 1673.5 |
| 37.5° | 1667.7 | 1673.5 | 1679.2 | 1685.0 | 1696.6 | 1696.6 | 1696.6 | 1685.0 | 1673.5 | 1667.7 | 1661.9 |
| 40° | 1667.7 | 1667.7 | 1679.2 | 1685.0 | 1702.4 | 1702.4 | 1696.6 | 1685.0 | 1673.5 | 1661.9 | 1656.1 |
| 42.5° | 1661.9 | 1667.7 | 1679.2 | 1696.6 | 1714.0 | 1714.0 | 1708.2 | 1690.8 | 1673.5 | 1661.9 | 1656.1 |
| 45° | 1661.9 | 1661.9 | 1679.2 | 1702.4 | 1725.6 | 1731.4 | 1719.8 | 1702.4 | 1679.2 | 1656.1 | 1656.1 |
| 47.5° | 1650.3 | 1650.3 | 1673.5 | 1702.4 | 1731.4 | 1737.2 | 1731.4 | 1702.4 | 1673.5 | 1656.1 | 1650.3 |
| 50° | 1621.3 | 1621.3 | 1650.3 | 1685.0 | 1719.8 | 1731.4 | 1719.8 | 1696.6 | 1656.1 | 1632.9 | 1627.1 |
| 52.5° | 1575.0 | 1575.0 | 1604.0 | 1650.3 | 1685.0 | 1702.4 | 1690.8 | 1661.9 | 1621.3 | 1586.6 | 1580.8 |
| 55° | 1505.5 | 1511.3 | 1540.3 | 1592.4 | 1632.9 | 1650.3 | 1638.7 | 1604.0 | 1557.6 | 1522.9 | 1511.3 |
| 57.5° | 1424.5 | 1424.5 | 1465.0 | 1517.1 | 1557.6 | 1575.0 | 1563.4 | 1528.7 | 1476.6 | 1441.8 | 1430.3 |
| 60° | 1314.4 | 1320.2 | 1355.0 | 1424.5 | 1465.0 | 1482.4 | 1470.8 | 1430.3 | 1372.4 | 1331.8 | 1320.2 |
| 62.5° | 1204.4 | 1210.2 | 1245.0 | 1302.9 | 1349.2 | 1360.8 | 1349.2 | 1308.7 | 1256.5 | 1216.0 | 1204.4 |
| 65° | 1077.0 | 1082.8 | 1123.4 | 1175.5 | 1210.2 | 1227.6 | 1210.2 | 1175.5 | 1129.1 | 1088.6 | 1082.8 |
| 67.5° | 943.9 | 949.6 | 990.2 | 1036.5 | 1071.2 | 1082.8 | 1065.5 | 1036.5 | 990.2 | 955.4 | 943.9 |
| 70° | 804.9 | 810.7 | 845.4 | 885.9 | 914.9 | 926.5 | 914.9 | 880.2 | 845.4 | 810.7 | 804.9 |
| 72.5° | 660.1 | 665.9 | 700.7 | 735.4 | 758.6 | 770.1 | 752.8 | 729.6 | 694.9 | 665.9 | 660.1 |
| 75° | 521.1 | 521.1 | 550.1 | 579.1 | 602.2 | 608.0 | 596.4 | 579.1 | 550.1 | 526.9 | 515.4 |
| 77.5° | 388.0 | 388.0 | 416.9 | 434.3 | 445.9 | 457.5 | 445.9 | 428.5 | 411.1 | 388.0 | 388.0 |
| 80° | 260.6 | 260.6 | 283.7 | 295.3 | 306.9 | 312.7 | 306.9 | 295.3 | 283.7 | 266.4 | 260.6 |
| 82.5° | 156.3 | 156.3 | 167.9 | 179.5 | 179.5 | 185.3 | 185.3 | 179.5 | 167.9 | 156.3 | 156.3 |
| 85° | 69.5 | 63.7 | 75.3 | 81.1 | 81.1 | 86.9 | 86.9 | 81.1 | 75.3 | 69.5 | 69.5 |
| 87.5° | 5.8 | 11.6 | 11.6 | 17.4 | 17.4 | 17.4 | 17.4 | 17.4 | 11.6 | 11.6 | 11.6 |
| 90° | 2.8 | 2.8 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 2.8 | 2.8 |
| 92.5° | 2.8 | 2.8 | 2.8 | 3.9 | 4.4 | 3.9 | 4.4 | 3.3 | 3.3 | 2.8 | 2.8 |
| 95° | 3.3 | 3.3 | 3.9 | 5.0 | 6.1 | 6.6 | 6.6 | 3.9 | 3.9 | 3.3 | 3.3 |
| 97.5° | 4.4 | 5.0 | 5.0 | 6.1 | 10.0 | 18.3 | 11.1 | 5.5 | 5.5 | 5.0 | 4.4 |
| 100° | 7.2 | 7.7 | 7.7 | 13.8 | 29.3 | 39.3 | 28.2 | 14.4 | 10.5 | 7.7 | 7.7 |
| 102.5° | 23.2 | 24.3 | 29.9 | 44.8 | 66.4 | 60.3 | 50.9 | 48.1 | 33.2 | 26.6 | 25.5 |
| 105° | 59.2 | 58.7 | 63.1 | 74.7 | 93.0 | 91.3 | 84.1 | 76.4 | 65.8 | 60.9 | 60.9 |
| 107.5° | 78.0 | 78.0 | 81.9 | 91.9 | 105.7 | 123.4 | 125.1 | 99.0 | 86.9 | 81.3 | 80.8 |
| 110° | 88.0 | 88.0 | 91.3 | 99.6 | 117.9 | 142.8 | 141.6 | 122.3 | 107.3 | 100.2 | 99.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 90.2 | 90.7 | 95.2 | 107.9 | 127.8 | 138.9 | 133.9 | 126.2 | 119.5 | 114.0 | 112.9 |
| 115° | 93.5 | 93.5 | 98.5 | 110.7 | 121.7 | 126.2 | 120.6 | 114.5 | 110.1 | 107.9 | 109.0 |
| 117.5° | 92.4 | 94.1 | 95.2 | 101.8 | 109.0 | 112.3 | 109.6 | 101.3 | 97.9 | 96.8 | 95.2 |
| 120° | 85.8 | 85.8 | 86.9 | 90.2 | 94.1 | 95.7 | 94.6 | 89.1 | 86.3 | 85.8 | 84.7 |
| 122.5° | 76.4 | 76.9 | 76.4 | 78.0 | 80.8 | 82.4 | 81.3 | 76.9 | 75.8 | 75.8 | 74.7 |
| 125° | 67.0 | 67.0 | 66.4 | 67.5 | 69.2 | 68.6 | 69.2 | 67.0 | 66.4 | 66.4 | 65.8 |
| 127.5° | 60.3 | 59.8 | 58.7 | 59.2 | 59.8 | 59.8 | 60.3 | 58.1 | 58.7 | 59.2 | 58.7 |
| 130° | 53.7 | 53.7 | 52.6 | 52.6 | 52.6 | 51.5 | 52.6 | 51.5 | 52.0 | 52.6 | 53.1 |
| 132.5° | 47.6 | 47.6 | 45.9 | 45.4 | 45.4 | 45.4 | 45.9 | 45.4 | 46.5 | 47.6 | 47.6 |
| 135° | 42.6 | 42.6 | 40.9 | 41.5 | 41.5 | 40.9 | 41.5 | 40.9 | 42.1 | 42.6 | 42.6 |
| 137.5° | 38.7 | 38.7 | 37.6 | 37.6 | 37.6 | 37.1 | 37.6 | 37.6 | 38.2 | 39.3 | 39.8 |
| 140° | 35.4 | 35.4 | 34.9 | 34.9 | 34.3 | 34.9 | 34.9 | 34.9 | 35.4 | 36.0 | 36.0 |
| 142.5° | 33.8 | 33.2 | 32.6 | 32.1 | 32.6 | 32.6 | 32.6 | 32.1 | 32.6 | 33.8 | 33.8 |
| 145° | 31.0 | 31.0 | 30.4 | 30.4 | 30.4 | 31.0 | 30.4 | 30.4 | 31.0 | 31.0 | 31.5 |
| 147.5° | 29.3 | 29.3 | 28.8 | 29.3 | 29.3 | 29.3 | 29.3 | 28.8 | 29.3 | 29.3 | 29.9 |
| 150° | 28.8 | 28.2 | 27.7 | 28.2 | 28.2 | 27.7 | 27.7 | 27.7 | 27.7 | 28.2 | 28.2 |
| 152.5° | 27.1 | 27.1 | 26.6 | 27.1 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 27.1 | 27.7 |
| 155° | 26.0 | 26.0 | 25.5 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| 157.5° | 24.9 | 25.5 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 25.5 | 25.5 |
| 160° | 24.3 | 24.3 | 24.3 | 24.3 | 23.8 | 23.8 | 23.8 | 24.3 | 24.3 | 24.3 | 24.9 |
| 162.5° | 23.8 | 23.8 | 23.8 | 23.8 | 23.2 | 23.2 | 23.2 | 23.2 | 23.8 | 23.8 | 24.3 |
| 165° | 23.8 | 23.2 | 23.2 | 23.2 | 22.7 | 22.7 | 22.7 | 22.7 | 23.2 | 23.8 | 23.2 |
| 167.5° | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.1 | 22.1 | 22.7 | 22.7 | 22.7 | 23.2 |
| 170° | 22.7 | 22.7 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.7 |
| 172.5° | 22.7 | 22.7 | 22.7 | 22.7 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.7 | 22.7 |
| 175° | 22.7 | 22.7 | 22.7 | 22.7 | 22.1 | 22.1 | 22.1 | 22.7 | 22.7 | 22.7 | 22.1 |
| 177.5° | 22.7 | 22.7 | 22.7 | 22.7 | 22.1 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 |
| 180° | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 |

(END OF REPORT)