

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: P194299

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-AFL-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5166 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

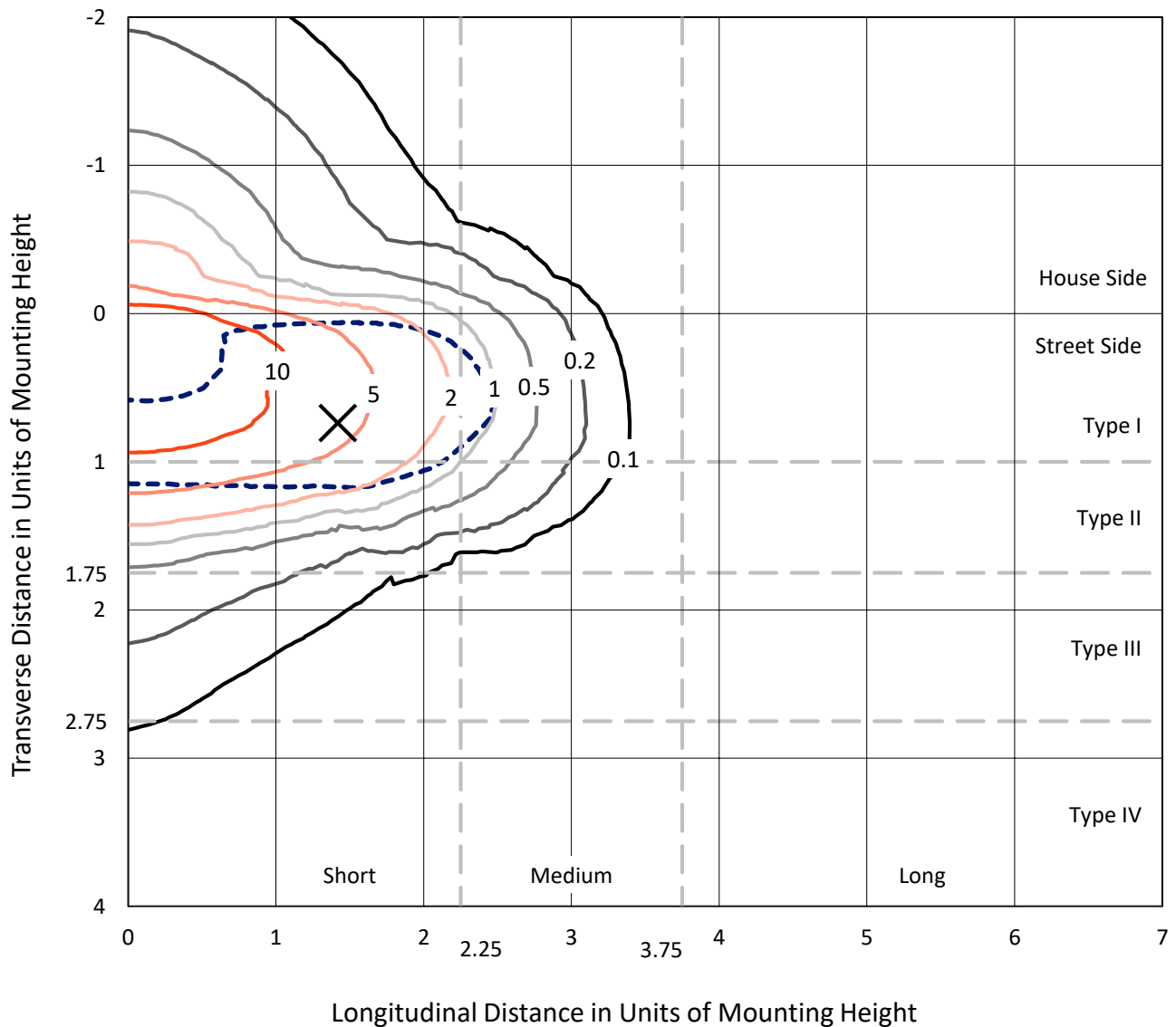
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

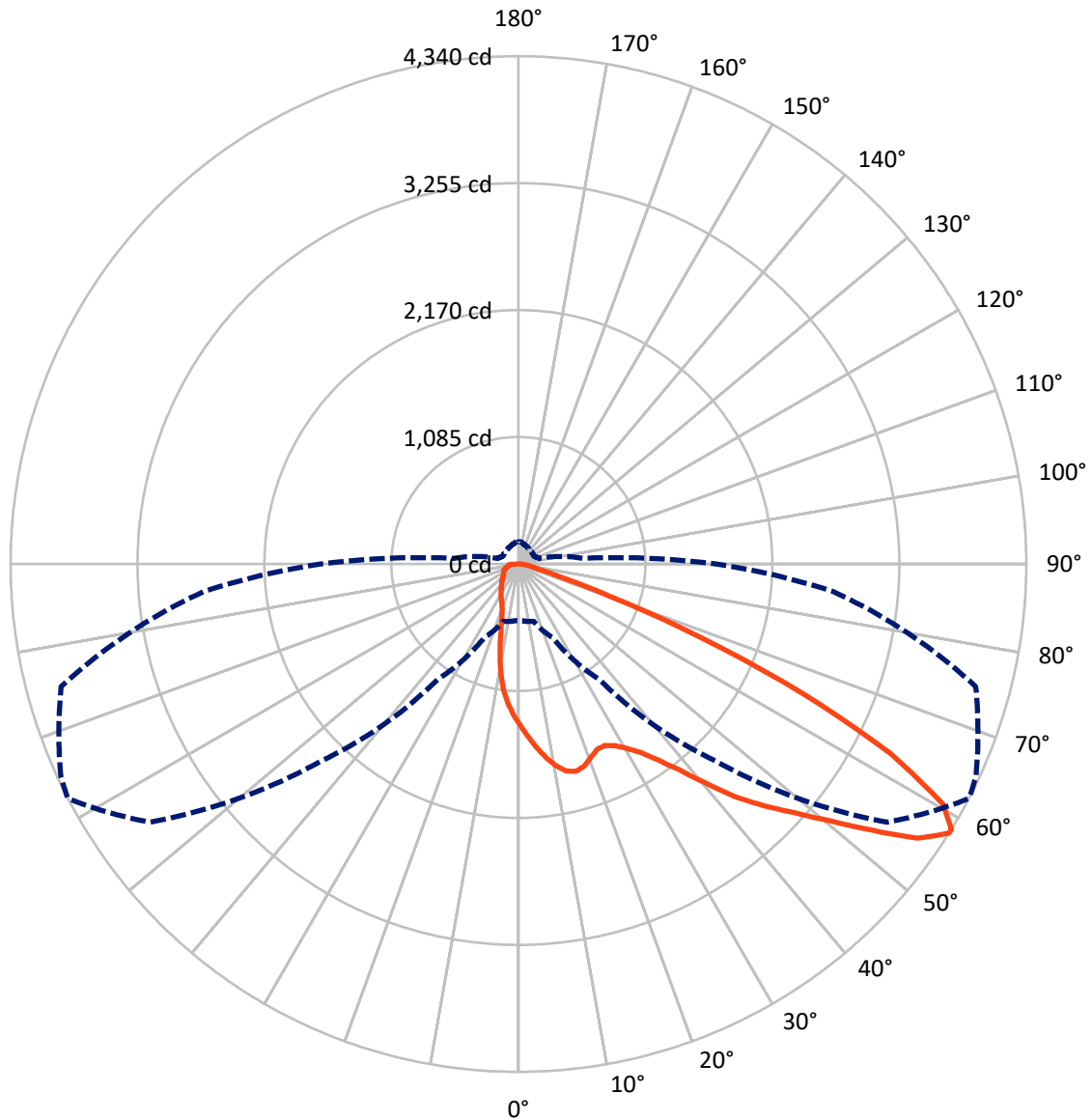
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 787.8 | 0.0 | 787.8 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 4378.2 | 0.0 | 4378.2 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 5166.0 | 0.0 | 5166.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.7 | 2.4 |
| 10°-20° | 313.7 | 6.1 |
| 20°-30° | 507.1 | 9.8 |
| 30°-40° | 805.1 | 15.6 |
| 40°-50° | 1178.0 | 22.8 |
| 50°-60° | 1232.0 | 23.8 |
| 60°-70° | 727.9 | 14.1 |
| 70°-80° | 205.1 | 4.0 |
| 80°-90° | 74.4 | 1.4 |
| 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° | 5166.0 | 100.0 |
| 0°-180° | 5166.0 | 100.0 |

Coefficient of Utilization



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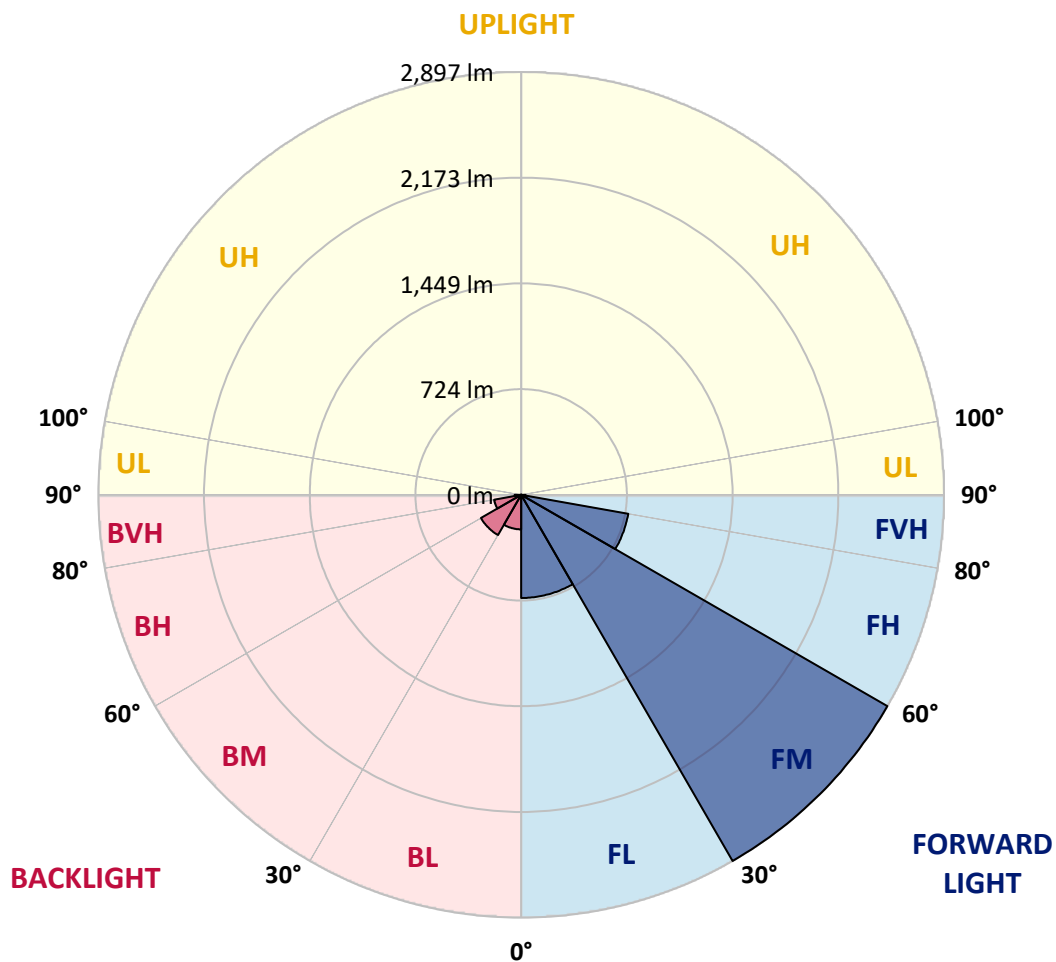
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 706.8 | 13.7 | | | |
| FM | (30°-60°) | 2897.1 | 56.1 | | | |
| FH | (60°-80°) | 745.0 | 14.4 | | | G1/1800 |
| FVH | (80°-90°) | 29.4 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 236.8 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 318.0 | 6.2 | B1/1000 | | |
| BH | (60°-80°) | 188.0 | 3.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 45.1 | 0.9 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 |
| 2.5° | 1568.1 | 1555.4 | 1547.4 | 1540.3 | 1531.1 | 1511.4 | 1484.9 | 1468.1 | 1459.6 | 1430.6 | 1396.3 |
| 5° | 1721.8 | 1710.6 | 1702.3 | 1692.9 | 1676.3 | 1645.4 | 1602.6 | 1568.6 | 1551.8 | 1493.9 | 1425.3 |
| 7.5° | 1685.8 | 1690.4 | 1704.8 | 1729.8 | 1751.2 | 1747.1 | 1708.9 | 1665.6 | 1643.5 | 1563.0 | 1458.8 |
| 10° | 1468.8 | 1476.8 | 1501.7 | 1560.3 | 1655.2 | 1752.5 | 1782.1 | 1752.2 | 1729.8 | 1631.3 | 1493.4 |
| 12.5° | 1425.3 | 1425.0 | 1427.0 | 1442.5 | 1499.0 | 1635.9 | 1784.6 | 1814.7 | 1801.4 | 1696.5 | 1528.7 |
| 15° | 1443.0 | 1443.5 | 1442.1 | 1448.6 | 1466.1 | 1520.4 | 1710.1 | 1838.8 | 1848.3 | 1762.2 | 1565.1 |
| 17.5° | 1489.7 | 1488.5 | 1482.9 | 1482.9 | 1489.3 | 1510.4 | 1622.6 | 1816.4 | 1860.2 | 1820.3 | 1597.3 |
| 20° | 1568.1 | 1562.5 | 1547.6 | 1534.0 | 1527.2 | 1538.6 | 1586.6 | 1764.9 | 1839.5 | 1871.2 | 1623.8 |
| 22.5° | 1662.9 | 1658.6 | 1634.5 | 1605.3 | 1581.7 | 1581.4 | 1605.0 | 1719.9 | 1803.8 | 1919.1 | 1646.2 |
| 25° | 1785.5 | 1778.5 | 1742.7 | 1696.0 | 1654.7 | 1638.9 | 1645.4 | 1717.7 | 1784.3 | 1971.2 | 1666.1 |
| 27.5° | 1929.6 | 1916.7 | 1874.3 | 1807.0 | 1746.1 | 1714.3 | 1704.8 | 1757.3 | 1802.1 | 2035.6 | 1693.8 |
| 30° | 2104.2 | 2089.4 | 2035.1 | 1947.3 | 1861.4 | 1809.1 | 1789.0 | 1827.6 | 1861.0 | 2114.2 | 1738.4 |
| 32.5° | 2303.0 | 2281.6 | 2218.8 | 2122.0 | 2009.1 | 1929.3 | 1896.5 | 1920.6 | 1947.1 | 2208.8 | 1794.1 |
| 35° | 2577.6 | 2552.1 | 2461.3 | 2327.8 | 2200.3 | 2090.6 | 2038.1 | 2055.6 | 2081.4 | 2349.9 | 1874.6 |
| 37.5° | 2764.9 | 2753.5 | 2693.2 | 2567.6 | 2429.0 | 2302.7 | 2221.5 | 2231.7 | 2246.3 | 2526.3 | 1977.7 |
| 40° | 2763.2 | 2767.8 | 2769.1 | 2770.3 | 2675.9 | 2555.0 | 2467.7 | 2456.9 | 2454.0 | 2719.9 | 2095.0 |
| 42.5° | 2624.8 | 2643.8 | 2705.1 | 2829.4 | 2886.8 | 2831.3 | 2751.3 | 2720.4 | 2705.1 | 2948.1 | 2219.3 |
| 45° | 2412.9 | 2423.1 | 2538.0 | 2780.7 | 2994.8 | 3105.0 | 3044.4 | 2947.1 | 2919.4 | 3157.8 | 2322.4 |
| 47.5° | 2303.7 | 2314.9 | 2387.1 | 2651.8 | 2993.6 | 3326.1 | 3361.2 | 3175.8 | 3126.2 | 3340.2 | 2411.5 |
| 50° | 2043.6 | 2067.0 | 2158.0 | 2427.5 | 2884.4 | 3427.8 | 3692.2 | 3448.2 | 3345.6 | 3517.8 | 2500.7 |
| 52.5° | 1566.1 | 1602.1 | 1704.1 | 2058.7 | 2607.3 | 3377.5 | 3957.1 | 3778.6 | 3633.6 | 3701.7 | 2577.4 |
| 55° | 987.9 | 1014.6 | 1100.3 | 1454.0 | 2085.7 | 3115.5 | 4057.6 | 4135.9 | 4007.0 | 3875.9 | 2643.8 |
| 57.5° | 537.1 | 549.0 | 581.2 | 802.8 | 1356.7 | 2536.3 | 3911.2 | 4339.3 | 4285.8 | 4023.8 | 2693.9 |
| 58° | 480.7 | 488.7 | 508.7 | 695.7 | 1203.2 | 2377.9 | 3846.2 | 4340.0 | 4313.3 | 4045.5 | 2697.8 |
| 60° | 356.6 | 352.5 | 334.7 | 397.0 | 669.7 | 1642.8 | 3453.6 | 4166.4 | 4244.9 | 4072.0 | 2678.8 |
| 62.5° | 313.3 | 303.3 | 267.1 | 263.0 | 325.7 | 756.8 | 2642.6 | 3568.9 | 3754.5 | 3920.7 | 2563.5 |
| 65° | 294.3 | 283.6 | 236.9 | 221.9 | 235.0 | 320.1 | 1556.6 | 2676.6 | 2909.4 | 3461.9 | 2268.7 |
| 67.5° | 280.2 | 266.4 | 217.7 | 197.0 | 198.0 | 211.6 | 624.0 | 1685.8 | 1947.8 | 2628.4 | 1764.6 |
| 70° | 266.6 | 251.5 | 201.4 | 177.6 | 172.0 | 167.4 | 248.1 | 843.9 | 1081.5 | 1660.3 | 1125.1 |
| 72.5° | 252.0 | 237.2 | 187.1 | 162.3 | 151.3 | 136.0 | 162.0 | 345.2 | 482.1 | 785.5 | 510.4 |
| 75° | 230.9 | 217.5 | 172.7 | 148.6 | 133.1 | 112.6 | 122.4 | 180.3 | 216.3 | 312.8 | 245.9 |
| 77.5° | 204.8 | 193.9 | 156.7 | 137.4 | 118.0 | 91.5 | 94.1 | 125.0 | 138.7 | 179.0 | 146.2 |
| 80° | 147.2 | 151.1 | 139.4 | 123.6 | 105.1 | 74.2 | 72.2 | 91.2 | 98.5 | 115.1 | 95.1 |
| 82.5° | 103.4 | 105.6 | 115.3 | 101.0 | 86.8 | 58.4 | 53.3 | 64.2 | 68.6 | 75.7 | 51.3 |
| 85° | 71.3 | 68.8 | 79.1 | 70.3 | 62.8 | 38.9 | 36.5 | 43.5 | 46.2 | 46.9 | 26.5 |
| 87.5° | 42.8 | 42.8 | 45.7 | 37.7 | 33.8 | 20.2 | 19.7 | 24.8 | 26.5 | 25.3 | 14.6 |
| 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° | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 | 1372.2 |
| 2.5° | 1375.9 | 1358.6 | 1321.9 | 1292.5 | 1255.2 | 1216.6 | 1194.9 | 1171.8 | 1156.0 | 1144.5 | 1162.8 |
| 5° | 1386.4 | 1351.1 | 1275.2 | 1203.2 | 1123.6 | 1040.9 | 978.2 | 919.8 | 879.1 | 853.9 | 877.7 |
| 7.5° | 1402.9 | 1348.6 | 1227.7 | 1104.7 | 961.9 | 824.2 | 701.1 | 624.0 | 579.0 | 556.8 | 570.7 |
| 10° | 1421.9 | 1344.8 | 1172.0 | 971.1 | 766.8 | 593.3 | 501.4 | 470.2 | 460.0 | 455.9 | 457.8 |
| 12.5° | 1437.7 | 1336.5 | 1103.7 | 809.6 | 575.8 | 468.5 | 442.0 | 441.3 | 443.5 | 444.0 | 444.7 |
| 15° | 1448.9 | 1324.3 | 1002.2 | 641.2 | 460.5 | 426.9 | 425.5 | 429.8 | 434.0 | 435.7 | 436.7 |
| 17.5° | 1456.4 | 1299.3 | 887.7 | 507.0 | 412.6 | 406.7 | 410.1 | 415.7 | 420.1 | 421.3 | 422.3 |
| 20° | 1455.7 | 1262.5 | 751.2 | 422.8 | 386.5 | 386.5 | 392.4 | 396.8 | 397.0 | 395.5 | 396.3 |
| 22.5° | 1448.1 | 1212.2 | 618.9 | 378.0 | 363.4 | 367.6 | 373.4 | 369.3 | 352.2 | 341.1 | 341.8 |
| 25° | 1435.5 | 1152.1 | 505.5 | 349.6 | 342.0 | 349.3 | 347.6 | 316.5 | 292.2 | 281.2 | 281.2 |
| 27.5° | 1424.3 | 1081.1 | 418.4 | 324.8 | 320.6 | 329.6 | 299.5 | 271.2 | 261.0 | 255.9 | 254.2 |
| 30° | 1416.3 | 1004.4 | 360.3 | 300.9 | 300.4 | 293.9 | 259.8 | 252.0 | 250.3 | 246.2 | 244.7 |
| 32.5° | 1418.2 | 926.8 | 323.1 | 280.0 | 281.7 | 251.5 | 240.8 | 242.5 | 241.1 | 236.7 | 234.7 |
| 35° | 1434.3 | 853.1 | 298.7 | 261.0 | 255.9 | 227.2 | 229.6 | 232.8 | 232.3 | 226.2 | 224.3 |
| 37.5° | 1463.0 | 783.3 | 282.7 | 245.2 | 223.3 | 215.0 | 218.9 | 223.8 | 222.6 | 218.4 | 217.0 |
| 40° | 1493.1 | 717.6 | 269.5 | 232.8 | 204.1 | 206.8 | 210.2 | 212.9 | 214.1 | 215.3 | 214.3 |
| 42.5° | 1522.6 | 649.0 | 253.5 | 220.2 | 196.1 | 199.0 | 200.4 | 203.1 | 209.7 | 214.3 | 214.1 |
| 45° | 1540.1 | 584.6 | 236.9 | 202.2 | 189.7 | 191.4 | 190.5 | 195.8 | 203.9 | 211.4 | 211.6 |
| 47.5° | 1559.6 | 534.4 | 223.8 | 185.6 | 183.7 | 184.9 | 182.0 | 187.3 | 194.6 | 203.9 | 204.8 |
| 50° | 1583.2 | 504.5 | 213.3 | 172.5 | 175.4 | 175.4 | 174.7 | 179.5 | 189.7 | 200.4 | 202.4 |
| 52.5° | 1609.9 | 498.7 | 204.6 | 163.0 | 167.1 | 166.9 | 167.6 | 174.9 | 186.1 | 196.6 | 198.3 |
| 55° | 1642.5 | 514.5 | 195.1 | 155.9 | 159.1 | 160.1 | 162.5 | 170.8 | 180.3 | 192.2 | 192.9 |
| 57.5° | 1680.5 | 546.6 | 187.6 | 150.3 | 151.8 | 155.0 | 158.9 | 166.4 | 176.6 | 189.7 | 190.5 |
| 58° | 1686.8 | 553.4 | 186.3 | 149.8 | 150.3 | 154.0 | 158.4 | 165.7 | 175.9 | 190.2 | 191.0 |
| 60° | 1687.0 | 576.0 | 183.7 | 147.7 | 144.7 | 150.8 | 155.7 | 163.0 | 174.7 | 191.9 | 193.6 |
| 62.5° | 1627.2 | 575.8 | 181.7 | 144.5 | 138.9 | 146.4 | 152.0 | 160.6 | 173.4 | 196.1 | 199.5 |
| 65° | 1432.8 | 523.3 | 172.5 | 139.6 | 134.3 | 142.6 | 148.9 | 158.9 | 176.9 | 214.1 | 216.3 |
| 67.5° | 1120.7 | 428.9 | 155.2 | 132.8 | 128.2 | 138.7 | 146.9 | 158.6 | 180.5 | 218.2 | 219.7 |
| 70° | 741.0 | 320.9 | 136.2 | 125.0 | 121.9 | 134.0 | 147.9 | 166.9 | 176.4 | 209.4 | 205.6 |
| 72.5° | 384.6 | 225.3 | 120.9 | 115.3 | 114.6 | 129.9 | 162.0 | 165.9 | 172.2 | 197.0 | 192.2 |
| 75° | 201.9 | 156.4 | 107.5 | 104.6 | 105.8 | 128.9 | 191.2 | 161.5 | 166.9 | 188.5 | 197.8 |
| 77.5° | 123.6 | 126.3 | 96.1 | 94.9 | 97.3 | 126.0 | 191.0 | 155.9 | 159.1 | 173.4 | 183.7 |
| 80° | 82.7 | 102.4 | 87.3 | 87.6 | 89.3 | 115.3 | 171.5 | 147.2 | 149.6 | 164.0 | 174.4 |
| 82.5° | 52.3 | 60.6 | 79.3 | 83.4 | 81.2 | 95.1 | 145.7 | 134.0 | 137.4 | 187.6 | 198.3 |
| 85° | 26.5 | 37.9 | 68.8 | 80.3 | 73.2 | 66.7 | 118.2 | 117.5 | 119.2 | 135.3 | 141.3 |
| 87.5° | 12.2 | 20.9 | 53.8 | 70.1 | 55.2 | 41.6 | 85.9 | 87.1 | 93.9 | 96.1 | 96.1 |
| 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)