

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: P268226

Luminaire Tested: **GAN-AF-01-LED-U-T3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3568.7 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

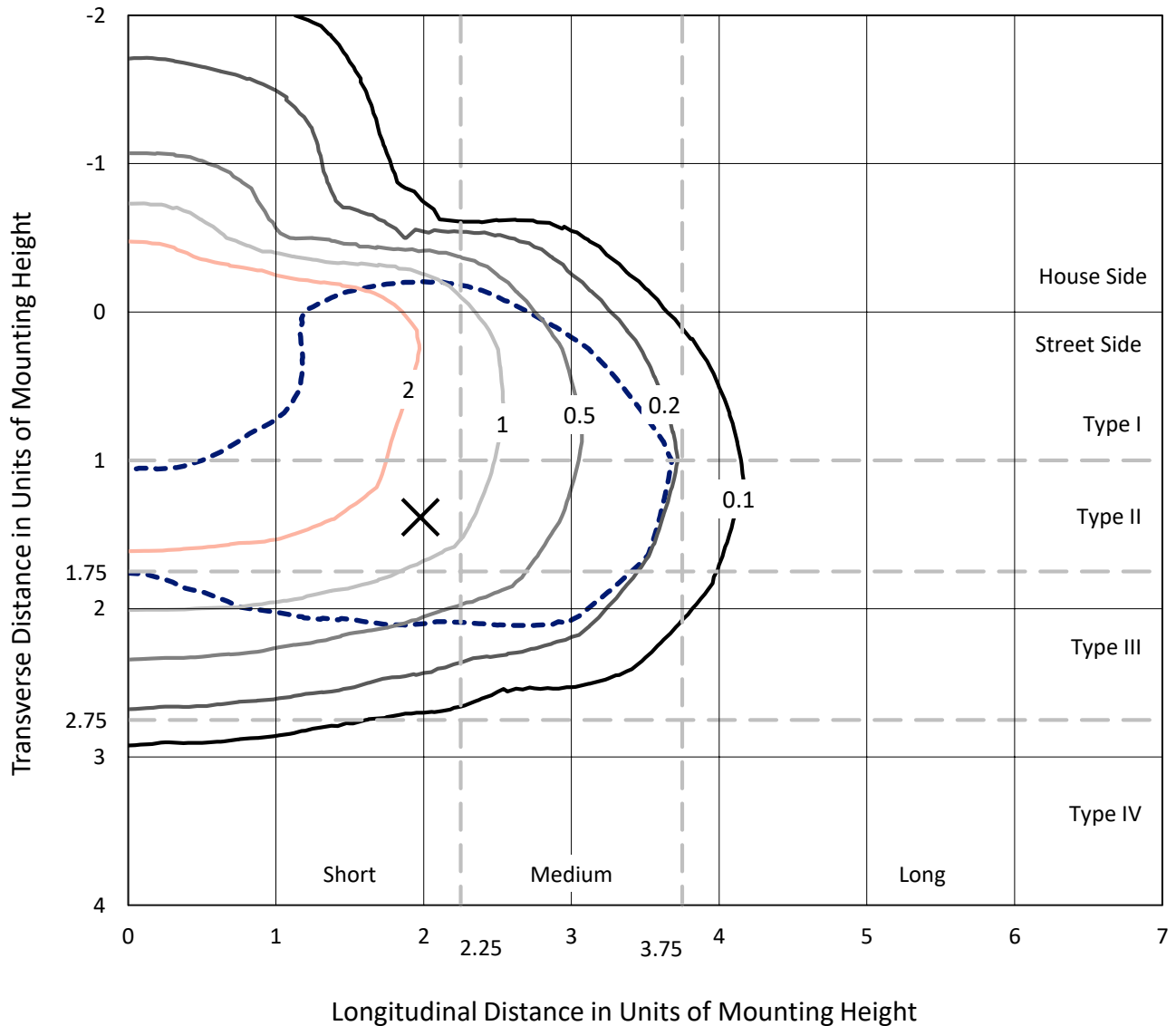
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

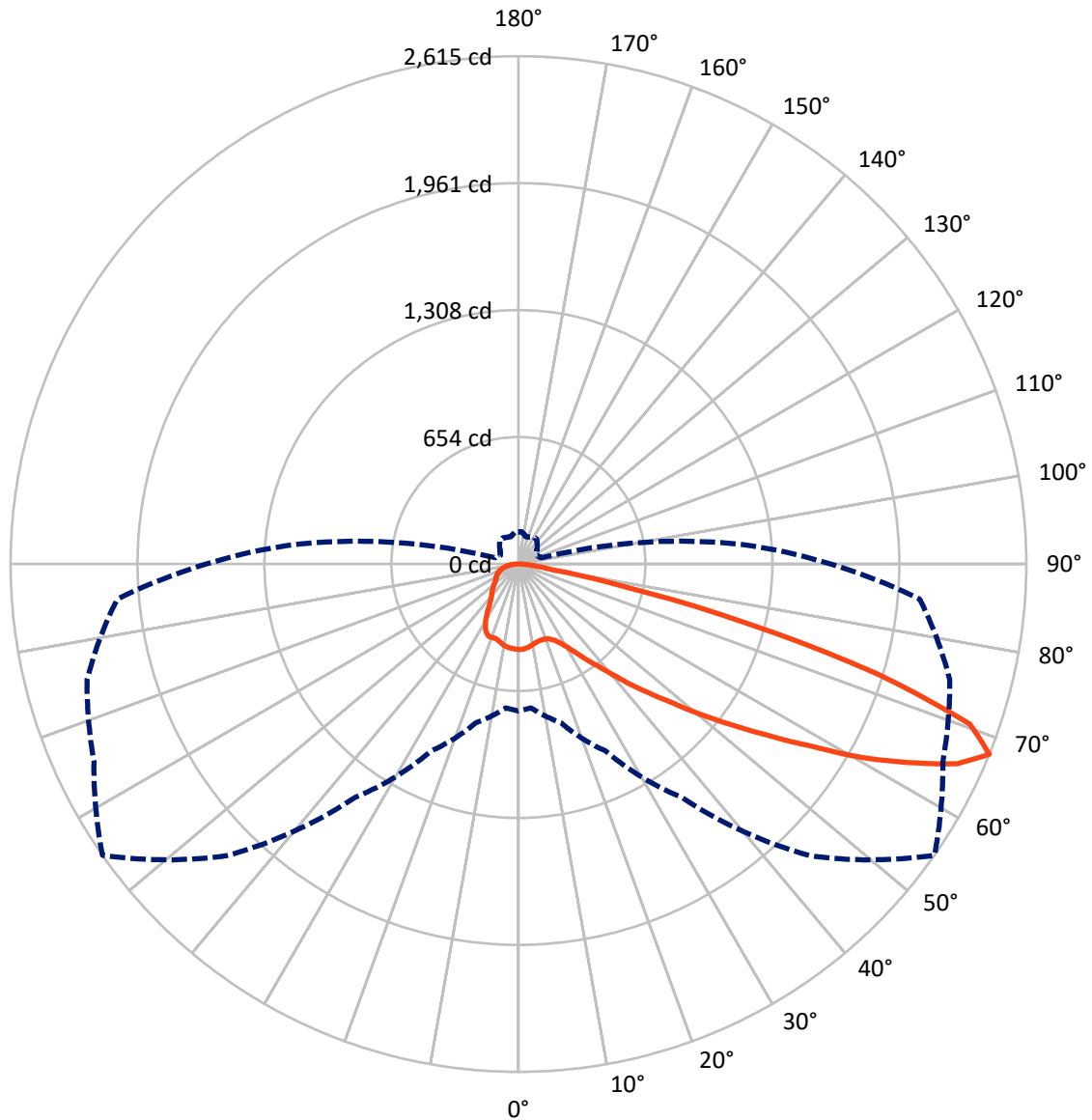
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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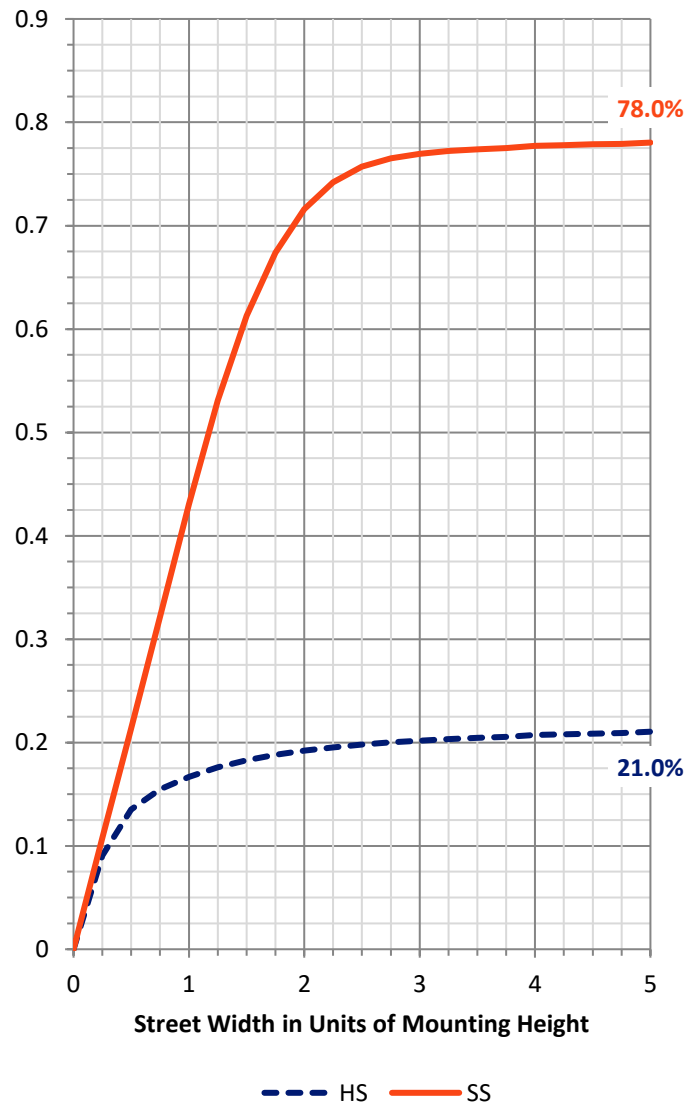
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 770.9 | 0.0 | 770.9 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 2797.7 | 0.0 | 2797.7 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 3568.7 | 0.0 | 3568.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.1 | 1.2 |
| 10°-20° | 116.3 | 3.3 |
| 20°-30° | 194.9 | 5.5 |
| 30°-40° | 320.5 | 9.0 |
| 40°-50° | 539.4 | 15.1 |
| 50°-60° | 849.0 | 23.8 |
| 60°-70° | 1013.2 | 28.4 |
| 70°-80° | 435.1 | 12.2 |
| 80°-90° | 59.3 | 1.7 |
| 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° | 3568.7 | 100.0 |
| 0°-180° | 3568.7 | 100.0 |



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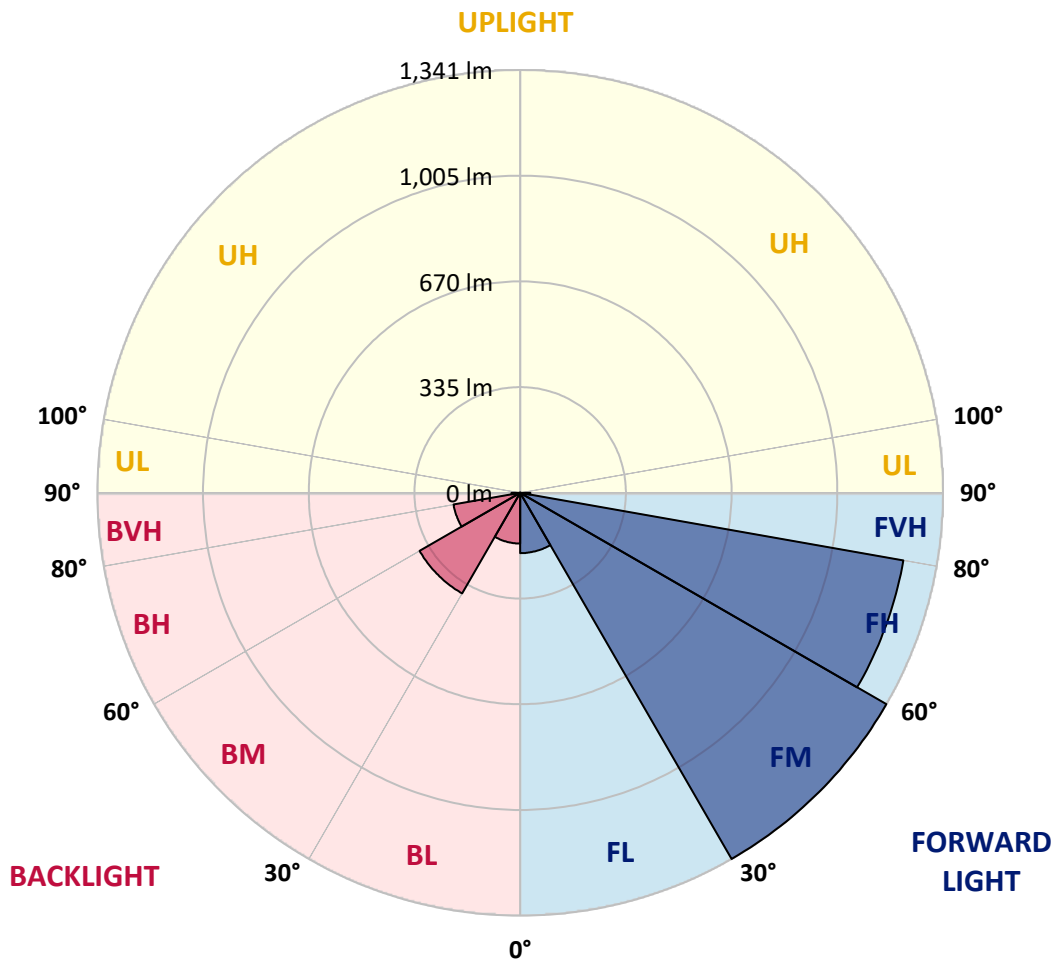
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 191.3 | 5.4 | | | |
| FM | (30°-60°) | 1340.7 | 37.6 | | | |
| FH | (60°-80°) | 1233.7 | 34.6 | | | G1/1800 |
| FVH | (80°-90°) | 32.1 | 0.9 | | | G1/100 |
| BL | (0°-30°) | 161.0 | 4.5 | B1/500 | | |
| BM | (30°-60°) | 368.2 | 10.3 | B1/1000 | | |
| BH | (60°-80°) | 214.5 | 6.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 27.2 | 0.8 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 |
| 2.5° | 436.2 | 436.4 | 436.8 | 438.2 | 439.5 | 439.0 | 439.2 | 438.6 | 438.4 | 437.2 | 438.4 |
| 5° | 430.7 | 431.2 | 431.5 | 433.7 | 435.0 | 435.4 | 434.9 | 434.1 | 433.1 | 431.9 | 432.4 |
| 7.5° | 418.3 | 419.6 | 419.7 | 422.8 | 425.1 | 428.0 | 428.1 | 428.3 | 427.9 | 427.1 | 428.1 |
| 10° | 410.3 | 410.5 | 410.4 | 412.6 | 414.4 | 417.6 | 419.6 | 422.8 | 424.2 | 424.5 | 425.3 |
| 12.5° | 409.6 | 409.4 | 408.9 | 408.9 | 408.3 | 409.6 | 413.2 | 417.8 | 421.0 | 422.2 | 423.0 |
| 15° | 415.2 | 415.0 | 413.3 | 410.7 | 407.6 | 406.5 | 409.4 | 414.6 | 418.9 | 421.0 | 421.9 |
| 17.5° | 427.7 | 426.6 | 423.9 | 418.0 | 411.0 | 408.2 | 408.5 | 412.9 | 417.8 | 420.8 | 421.7 |
| 20° | 450.4 | 450.4 | 444.5 | 433.5 | 420.9 | 414.4 | 411.2 | 413.8 | 418.7 | 422.7 | 423.9 |
| 22.5° | 489.7 | 490.0 | 480.2 | 462.1 | 440.9 | 427.0 | 419.1 | 418.7 | 424.4 | 428.9 | 430.2 |
| 25° | 545.5 | 544.1 | 530.2 | 504.4 | 472.1 | 449.1 | 435.6 | 432.4 | 437.2 | 442.2 | 444.0 |
| 27.5° | 610.2 | 605.2 | 588.7 | 557.6 | 515.8 | 482.1 | 461.4 | 456.3 | 461.1 | 466.8 | 468.5 |
| 30° | 674.3 | 669.1 | 649.7 | 615.5 | 569.2 | 526.3 | 496.8 | 488.7 | 495.2 | 503.3 | 504.4 |
| 32.5° | 738.4 | 738.4 | 716.7 | 677.0 | 626.4 | 579.3 | 543.8 | 534.1 | 545.0 | 554.9 | 557.0 |
| 35° | 815.1 | 815.5 | 794.5 | 746.5 | 692.2 | 642.4 | 603.3 | 596.3 | 612.6 | 619.6 | 624.9 |
| 37.5° | 909.4 | 911.3 | 884.2 | 826.4 | 766.9 | 714.4 | 667.9 | 658.3 | 674.6 | 693.4 | 710.6 |
| 40° | 1011.3 | 1013.6 | 983.9 | 912.5 | 853.0 | 798.2 | 747.8 | 730.5 | 757.7 | 793.7 | 815.8 |
| 42.5° | 1108.5 | 1120.9 | 1092.1 | 1018.7 | 954.8 | 898.0 | 847.0 | 821.7 | 855.8 | 910.0 | 929.2 |
| 45° | 1249.0 | 1257.9 | 1207.9 | 1141.2 | 1081.1 | 1017.7 | 950.0 | 923.4 | 971.1 | 1039.3 | 1043.3 |
| 47.5° | 1342.5 | 1335.9 | 1310.4 | 1268.9 | 1230.9 | 1171.6 | 1069.9 | 1040.5 | 1103.9 | 1184.3 | 1162.0 |
| 50° | 1392.5 | 1394.4 | 1391.0 | 1393.5 | 1394.8 | 1357.6 | 1216.8 | 1176.6 | 1252.2 | 1349.3 | 1298.1 |
| 52.5° | 1438.9 | 1425.2 | 1436.5 | 1493.1 | 1561.3 | 1547.5 | 1376.6 | 1334.6 | 1411.1 | 1532.4 | 1441.9 |
| 55° | 1437.8 | 1416.8 | 1453.9 | 1553.7 | 1701.7 | 1717.6 | 1556.0 | 1507.7 | 1579.2 | 1728.7 | 1594.2 |
| 57.5° | 1387.1 | 1388.2 | 1445.2 | 1575.7 | 1799.8 | 1877.5 | 1764.2 | 1691.8 | 1757.4 | 1927.7 | 1733.3 |
| 60° | 1317.0 | 1326.5 | 1408.7 | 1572.2 | 1878.1 | 2008.8 | 2019.6 | 1890.3 | 1932.1 | 2108.4 | 1848.5 |
| 62.5° | 1204.2 | 1214.1 | 1327.5 | 1534.6 | 1866.1 | 2135.1 | 2250.7 | 2115.2 | 2114.6 | 2218.1 | 1882.3 |
| 65° | 1026.1 | 1023.2 | 1142.3 | 1394.1 | 1766.4 | 2228.5 | 2480.0 | 2309.9 | 2252.2 | 2219.7 | 1814.3 |
| 67.5° | 756.7 | 743.5 | 845.8 | 1061.7 | 1468.2 | 2124.0 | 2615.0 | 2411.3 | 2299.0 | 2073.7 | 1606.8 |
| 70° | 392.6 | 379.5 | 462.3 | 620.0 | 965.6 | 1657.6 | 2465.6 | 2358.9 | 2195.5 | 1738.3 | 1258.9 |
| 72.5° | 168.0 | 165.6 | 199.2 | 271.9 | 467.1 | 956.2 | 1933.3 | 2041.7 | 1883.8 | 1295.1 | 865.4 |
| 75° | 112.8 | 112.2 | 124.8 | 148.2 | 210.2 | 388.0 | 1209.8 | 1449.2 | 1378.3 | 803.1 | 486.8 |
| 77.5° | 88.7 | 87.8 | 95.1 | 106.4 | 136.2 | 153.2 | 536.9 | 778.0 | 720.1 | 349.6 | 213.1 |
| 80° | 69.3 | 68.6 | 73.2 | 79.5 | 97.9 | 96.5 | 176.6 | 309.6 | 239.6 | 133.9 | 103.6 |
| 82.5° | 54.6 | 54.6 | 58.4 | 58.6 | 69.4 | 65.8 | 92.3 | 136.4 | 119.7 | 78.2 | 63.4 |
| 85° | 49.9 | 49.9 | 54.0 | 43.7 | 45.4 | 41.5 | 57.2 | 80.8 | 75.8 | 32.1 | 27.6 |
| 87.5° | 25.2 | 24.4 | 45.4 | 38.7 | 24.7 | 22.1 | 27.9 | 39.2 | 42.1 | 17.7 | 13.7 |
| 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° | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 | 440.1 |
| 2.5° | 438.1 | 437.8 | 438.2 | 438.4 | 439.7 | 441.5 | 442.4 | 443.7 | 444.3 | 444.0 |
| 5° | 432.9 | 433.2 | 434.5 | 435.6 | 438.1 | 441.1 | 442.9 | 444.2 | 445.4 | 444.9 |
| 7.5° | 428.5 | 429.4 | 431.5 | 432.4 | 433.7 | 434.5 | 434.4 | 434.9 | 435.9 | 434.7 |
| 10° | 426.1 | 427.1 | 428.8 | 427.5 | 424.2 | 419.6 | 415.2 | 413.0 | 413.7 | 412.9 |
| 12.5° | 423.7 | 425.1 | 423.9 | 418.3 | 409.0 | 403.0 | 399.7 | 400.0 | 401.6 | 401.9 |
| 15° | 422.4 | 422.8 | 417.6 | 406.9 | 397.7 | 396.8 | 398.5 | 398.2 | 398.4 | 398.4 |
| 17.5° | 422.4 | 420.9 | 411.2 | 400.6 | 396.6 | 395.1 | 389.8 | 382.9 | 380.1 | 379.1 |
| 20° | 424.5 | 420.9 | 409.2 | 402.1 | 393.5 | 380.3 | 366.1 | 353.8 | 348.3 | 346.7 |
| 22.5° | 431.2 | 425.1 | 415.0 | 402.8 | 378.4 | 356.1 | 333.7 | 318.9 | 308.8 | 307.2 |
| 25° | 444.9 | 438.1 | 426.6 | 393.6 | 354.2 | 322.5 | 297.0 | 280.5 | 270.4 | 269.0 |
| 27.5° | 468.6 | 464.2 | 432.9 | 373.5 | 322.1 | 288.1 | 264.6 | 251.9 | 244.3 | 243.9 |
| 30° | 504.5 | 502.3 | 429.7 | 343.7 | 282.6 | 254.8 | 243.6 | 236.2 | 230.7 | 230.4 |
| 32.5° | 561.7 | 543.7 | 419.6 | 307.3 | 246.7 | 231.4 | 226.6 | 222.2 | 217.8 | 217.8 |
| 35° | 635.3 | 577.2 | 400.3 | 268.4 | 224.8 | 218.2 | 212.4 | 205.4 | 199.7 | 199.2 |
| 37.5° | 721.9 | 597.8 | 365.6 | 237.1 | 214.4 | 209.5 | 200.9 | 190.4 | 180.3 | 178.6 |
| 40° | 809.3 | 604.0 | 316.8 | 217.7 | 207.9 | 200.6 | 190.1 | 177.8 | 168.1 | 167.5 |
| 42.5° | 889.4 | 592.2 | 265.1 | 204.5 | 201.3 | 191.7 | 180.6 | 169.6 | 162.1 | 161.9 |
| 45° | 956.7 | 561.3 | 221.6 | 191.9 | 194.5 | 183.6 | 173.7 | 164.7 | 158.9 | 157.7 |
| 47.5° | 1019.8 | 517.7 | 191.2 | 178.6 | 187.6 | 179.1 | 170.8 | 162.4 | 156.7 | 155.9 |
| 50° | 1093.3 | 470.5 | 169.8 | 165.6 | 181.5 | 177.5 | 173.3 | 164.4 | 155.0 | 153.9 |
| 52.5° | 1182.3 | 429.8 | 153.2 | 154.2 | 176.8 | 179.7 | 179.4 | 170.3 | 153.8 | 152.4 |
| 55° | 1281.5 | 384.7 | 140.4 | 144.9 | 175.0 | 183.4 | 181.0 | 175.8 | 154.8 | 152.7 |
| 57.5° | 1379.3 | 332.0 | 131.7 | 137.9 | 172.1 | 183.1 | 173.6 | 166.1 | 157.3 | 154.2 |
| 60° | 1452.6 | 261.1 | 125.0 | 131.7 | 166.1 | 177.3 | 165.5 | 155.6 | 156.7 | 154.5 |
| 62.5° | 1457.4 | 201.8 | 116.9 | 126.3 | 157.1 | 171.7 | 160.2 | 150.9 | 158.9 | 156.8 |
| 65° | 1371.7 | 152.5 | 109.1 | 120.0 | 147.2 | 168.1 | 155.0 | 148.4 | 163.6 | 161.3 |
| 67.5° | 1155.0 | 122.7 | 102.5 | 113.5 | 137.4 | 160.4 | 150.2 | 146.1 | 167.8 | 163.8 |
| 70° | 833.7 | 104.7 | 96.2 | 105.6 | 128.5 | 151.9 | 146.2 | 141.8 | 156.6 | 150.2 |
| 72.5° | 513.3 | 90.6 | 88.9 | 95.0 | 121.9 | 142.9 | 140.0 | 133.6 | 141.0 | 136.1 |
| 75° | 256.2 | 78.6 | 80.8 | 84.6 | 112.4 | 132.7 | 129.6 | 123.2 | 124.2 | 123.2 |
| 77.5° | 122.7 | 67.3 | 71.3 | 74.3 | 100.2 | 121.2 | 117.9 | 111.4 | 110.1 | 110.3 |
| 80° | 77.8 | 56.2 | 60.1 | 62.3 | 89.4 | 107.7 | 104.5 | 97.9 | 111.7 | 103.6 |
| 82.5° | 48.6 | 45.6 | 46.7 | 50.6 | 78.0 | 93.8 | 89.4 | 83.6 | 100.7 | 79.6 |
| 85° | 26.9 | 31.9 | 33.2 | 36.6 | 59.9 | 78.4 | 74.1 | 66.7 | 59.7 | 58.7 |
| 87.5° | 16.0 | 19.0 | 19.5 | 21.9 | 40.3 | 56.8 | 50.1 | 47.6 | 39.4 | 39.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)