

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: P322195

Luminaire Tested: **GAN-SA1B-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3972 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

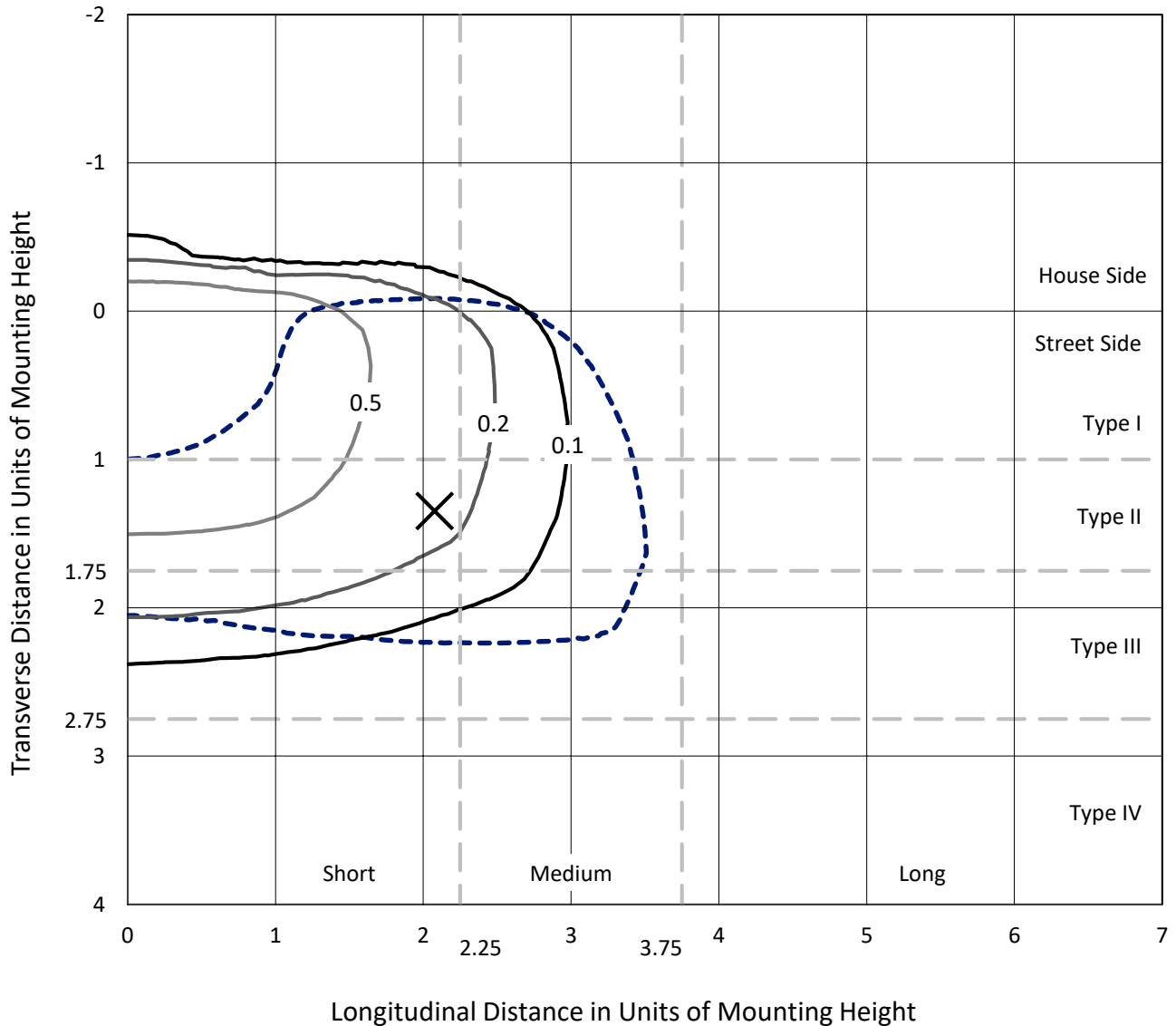
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

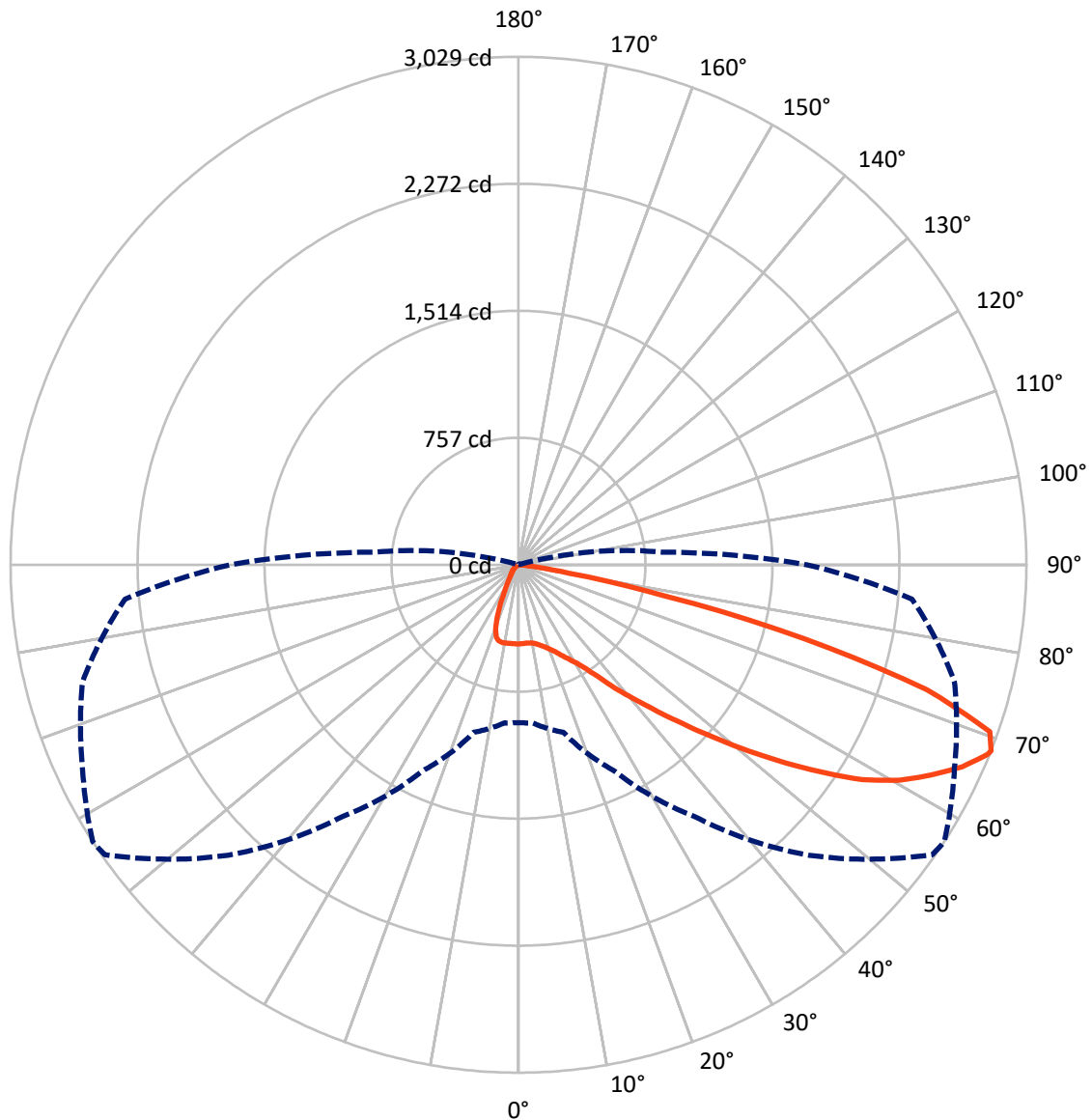
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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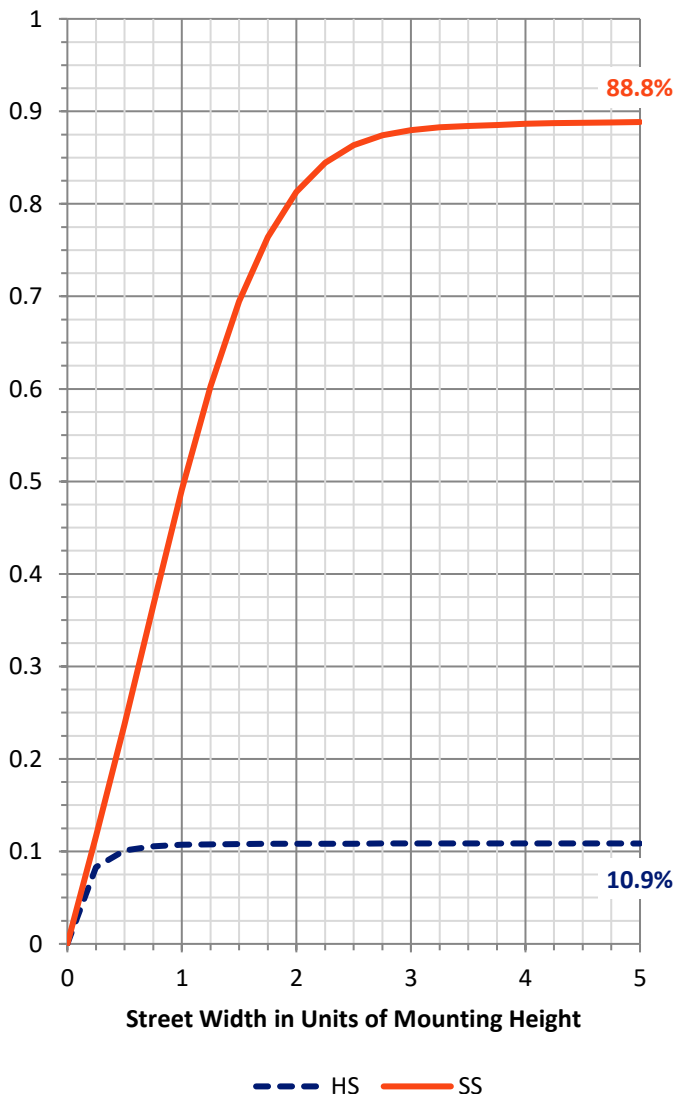
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 435.6 | 0.0 | 435.6 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| Street Side | Lumens | 3536.4 | 0.0 | 3536.4 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| Total | Lumens | 3972.0 | 0.0 | 3972.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.2 | 1.1 |
| 10°-20° | 122.4 | 3.1 |
| 20°-30° | 211.2 | 5.3 |
| 30°-40° | 364.4 | 9.2 |
| 40°-50° | 623.4 | 15.7 |
| 50°-60° | 997.3 | 25.1 |
| 60°-70° | 1152.3 | 29.0 |
| 70°-80° | 440.3 | 11.1 |
| 80°-90° | 16.5 | 0.4 |
| 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° | 3972.0 | 100.0 |
| 0°-180° | 3972.0 | 100.0 |

Coefficient of Utilization

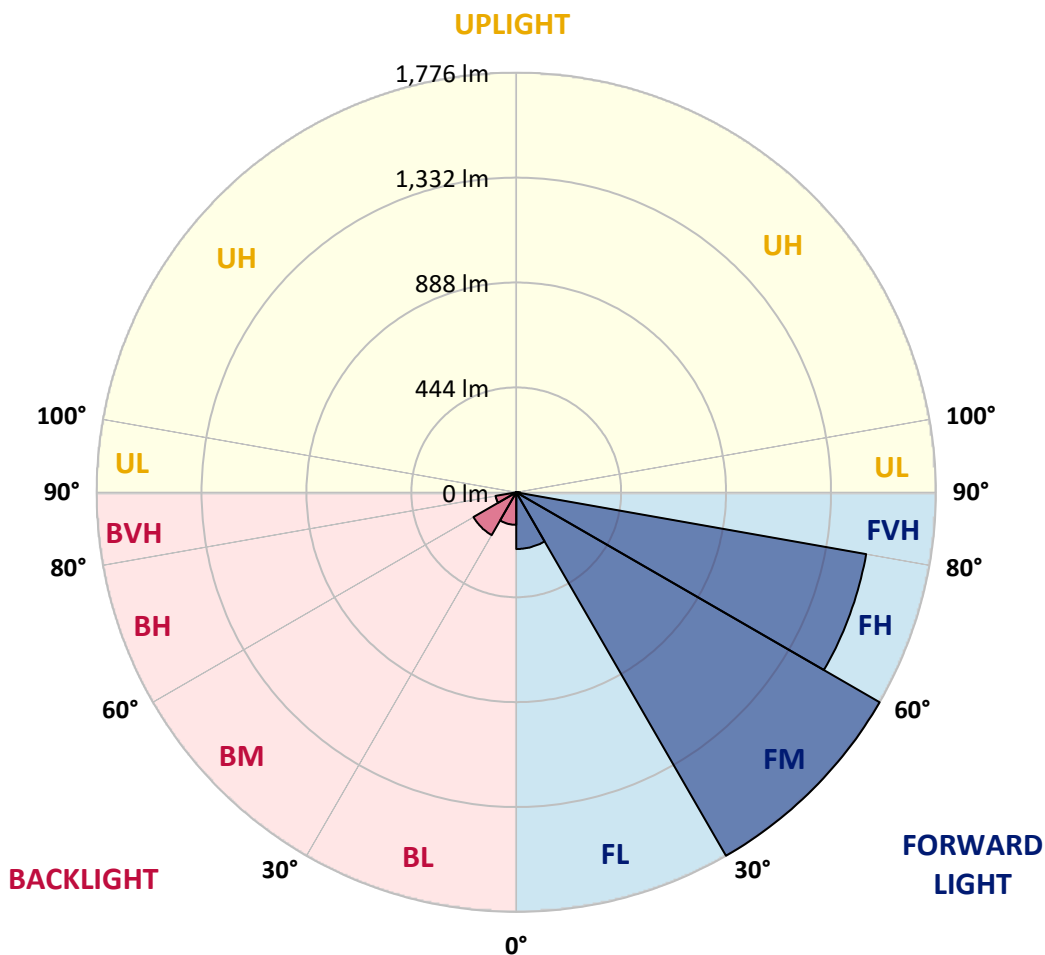


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 240.1 | 6.0 | | | |
| FM (30°-60°) | 1776.2 | 44.7 | | | |
| FH (60°-80°) | 1503.9 | 37.9 | | | G1/1800 |
| FVH (80°-90°) | 16.2 | 0.4 | | | G1/100 |
| BL (0°-30°) | 137.6 | 3.5 | B1/500 | | |
| BM (30°-60°) | 208.9 | 5.3 | B0/220 | | |
| BH (60°-80°) | 88.7 | 2.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 0.0 | | | G0/10 |
| 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° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 |
| 2.5° | 460.9 | 463.0 | 464.5 | 465.4 | 466.5 | 469.0 | 469.7 | 470.9 | 471.4 | 471.4 | 472.7 |
| 5° | 442.7 | 444.9 | 448.1 | 450.8 | 456.0 | 462.8 | 467.7 | 469.5 | 472.9 | 475.9 | 477.6 |
| 7.5° | 425.8 | 428.4 | 432.2 | 438.4 | 447.4 | 458.3 | 468.4 | 471.0 | 477.6 | 484.0 | 487.2 |
| 10° | 414.9 | 416.9 | 421.8 | 430.7 | 442.5 | 457.7 | 472.0 | 475.2 | 486.4 | 497.1 | 503.2 |
| 12.5° | 411.1 | 413.0 | 418.1 | 428.0 | 442.7 | 460.5 | 480.2 | 484.9 | 501.5 | 517.1 | 525.5 |
| 15° | 416.6 | 416.9 | 422.4 | 431.8 | 446.2 | 467.5 | 494.0 | 499.6 | 520.4 | 540.7 | 551.2 |
| 17.5° | 437.6 | 435.9 | 438.7 | 442.9 | 454.3 | 476.7 | 508.4 | 516.9 | 544.7 | 568.5 | 578.5 |
| 20° | 490.2 | 490.2 | 483.8 | 472.5 | 472.7 | 490.9 | 527.9 | 537.5 | 571.5 | 599.1 | 608.1 |
| 22.5° | 580.2 | 578.5 | 565.7 | 538.1 | 512.7 | 515.6 | 551.8 | 564.2 | 603.8 | 633.3 | 636.3 |
| 25° | 688.3 | 686.3 | 666.6 | 627.7 | 583.7 | 555.4 | 584.1 | 598.4 | 642.3 | 668.4 | 662.2 |
| 27.5° | 802.9 | 801.2 | 781.7 | 733.4 | 670.9 | 618.8 | 622.6 | 636.1 | 681.6 | 707.3 | 687.6 |
| 30° | 913.9 | 914.5 | 895.1 | 845.5 | 774.7 | 699.8 | 671.4 | 679.3 | 719.7 | 745.8 | 717.6 |
| 32.5° | 1019.5 | 1020.2 | 1003.5 | 948.1 | 882.0 | 793.9 | 739.1 | 737.0 | 764.0 | 789.8 | 757.5 |
| 35° | 1113.6 | 1115.4 | 1104.0 | 1061.0 | 990.9 | 898.7 | 826.8 | 821.9 | 826.9 | 856.1 | 818.5 |
| 37.5° | 1204.3 | 1205.4 | 1196.8 | 1160.5 | 1101.9 | 1013.8 | 937.6 | 930.6 | 919.7 | 942.1 | 899.1 |
| 40° | 1303.6 | 1300.8 | 1290.9 | 1258.0 | 1207.6 | 1141.0 | 1056.6 | 1044.6 | 1025.7 | 1045.6 | 1005.0 |
| 42.5° | 1396.0 | 1392.8 | 1394.5 | 1357.3 | 1314.9 | 1271.7 | 1195.4 | 1174.8 | 1163.7 | 1186.6 | 1135.0 |
| 45° | 1511.5 | 1509.8 | 1515.5 | 1483.2 | 1448.8 | 1417.4 | 1354.5 | 1332.0 | 1327.1 | 1354.0 | 1292.2 |
| 47.5° | 1625.5 | 1629.7 | 1647.1 | 1633.4 | 1619.5 | 1591.9 | 1523.0 | 1512.8 | 1515.9 | 1548.3 | 1458.0 |
| 50° | 1720.6 | 1725.5 | 1773.3 | 1789.1 | 1809.2 | 1793.1 | 1724.0 | 1717.8 | 1729.6 | 1758.9 | 1636.4 |
| 52.5° | 1789.3 | 1799.3 | 1858.8 | 1931.5 | 2004.7 | 2015.6 | 1946.7 | 1941.1 | 1957.0 | 1961.5 | 1774.3 |
| 55° | 1837.0 | 1845.8 | 1913.3 | 2046.2 | 2195.4 | 2242.3 | 2199.5 | 2177.7 | 2174.7 | 2130.2 | 1919.3 |
| 57.5° | 1845.5 | 1844.5 | 1941.4 | 2120.4 | 2344.9 | 2466.0 | 2439.0 | 2417.6 | 2355.9 | 2286.1 | 2085.5 |
| 60° | 1797.8 | 1803.2 | 1915.7 | 2146.2 | 2438.8 | 2635.2 | 2637.3 | 2609.5 | 2513.5 | 2437.6 | 2246.6 |
| 62.5° | 1650.9 | 1673.1 | 1786.7 | 2078.7 | 2437.6 | 2703.4 | 2782.7 | 2761.4 | 2646.7 | 2561.8 | 2410.0 |
| 65° | 1412.7 | 1420.6 | 1529.0 | 1847.7 | 2272.9 | 2674.9 | 2913.6 | 2905.7 | 2766.7 | 2682.4 | 2494.0 |
| 67.5° | 1031.7 | 1014.6 | 1128.4 | 1455.0 | 1924.3 | 2508.5 | 3007.5 | 3017.4 | 2859.3 | 2707.2 | 2404.6 |
| 68° | 941.5 | 946.6 | 1035.2 | 1357.9 | 1833.1 | 2449.7 | 3013.7 | 3028.9 | 2868.5 | 2691.0 | 2355.8 |
| 70° | 561.2 | 571.0 | 650.0 | 934.9 | 1394.5 | 2117.0 | 2946.8 | 2981.6 | 2813.7 | 2524.4 | 2037.6 |
| 72.5° | 143.3 | 154.9 | 229.7 | 418.5 | 796.5 | 1491.6 | 2487.6 | 2546.4 | 2442.9 | 2047.9 | 1375.6 |
| 75° | 59.0 | 62.0 | 82.1 | 137.9 | 296.7 | 672.0 | 1639.6 | 1765.5 | 1693.5 | 1226.1 | 621.7 |
| 77.5° | 40.8 | 42.8 | 52.8 | 76.4 | 128.5 | 227.8 | 803.8 | 894.7 | 806.1 | 418.5 | 135.6 |
| 80° | 29.3 | 31.0 | 37.8 | 50.9 | 73.8 | 81.3 | 262.0 | 302.9 | 240.6 | 91.8 | 33.6 |
| 82.5° | 17.5 | 18.8 | 28.2 | 36.2 | 44.9 | 38.9 | 65.2 | 74.0 | 69.7 | 45.6 | 15.0 |
| 85° | 8.6 | 10.1 | 19.0 | 25.9 | 24.2 | 16.3 | 19.9 | 22.2 | 27.4 | 27.8 | 8.1 |
| 87.5° | 0.6 | 1.1 | 11.1 | 15.6 | 6.8 | 3.8 | 5.8 | 7.1 | 9.8 | 13.7 | 3.4 |
| 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° | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 | 472.0 |
| 2.5° | 473.3 | 473.5 | 472.2 | 471.6 | 472.0 | 469.7 | 468.8 | 469.2 | 469.2 | 469.7 | 468.8 |
| 5° | 478.0 | 478.0 | 475.7 | 472.7 | 471.0 | 466.7 | 463.9 | 463.2 | 462.6 | 462.2 | 461.5 |
| 7.5° | 488.1 | 487.0 | 483.1 | 476.5 | 470.9 | 461.5 | 454.3 | 450.6 | 448.7 | 447.9 | 447.4 |
| 10° | 504.5 | 502.4 | 495.8 | 483.6 | 470.7 | 453.9 | 438.4 | 427.3 | 418.1 | 414.3 | 412.1 |
| 12.5° | 526.4 | 523.4 | 512.4 | 492.1 | 469.3 | 438.5 | 404.7 | 372.2 | 342.0 | 329.6 | 323.4 |
| 15° | 551.8 | 547.5 | 530.0 | 499.2 | 461.6 | 403.8 | 330.4 | 273.5 | 231.6 | 215.8 | 209.0 |
| 17.5° | 577.5 | 571.9 | 545.4 | 503.7 | 438.5 | 331.9 | 231.8 | 175.0 | 147.1 | 139.5 | 136.9 |
| 20° | 603.4 | 595.2 | 558.7 | 500.3 | 386.3 | 239.3 | 152.9 | 127.9 | 119.8 | 117.6 | 116.8 |
| 22.5° | 628.1 | 615.3 | 570.8 | 487.2 | 306.0 | 160.6 | 121.0 | 113.1 | 110.4 | 109.1 | 108.7 |
| 25° | 649.5 | 631.6 | 581.3 | 446.6 | 216.6 | 121.3 | 108.9 | 106.3 | 102.9 | 100.5 | 100.7 |
| 27.5° | 669.6 | 648.0 | 587.7 | 379.8 | 144.4 | 103.7 | 100.9 | 97.3 | 91.1 | 87.5 | 87.5 |
| 30° | 693.8 | 669.7 | 592.4 | 292.2 | 106.3 | 91.7 | 89.4 | 84.0 | 75.5 | 70.8 | 70.8 |
| 32.5° | 730.2 | 702.8 | 589.4 | 205.1 | 88.1 | 80.6 | 75.3 | 67.8 | 58.6 | 54.1 | 53.9 |
| 35° | 786.0 | 753.9 | 568.0 | 134.5 | 77.8 | 70.1 | 61.6 | 52.4 | 44.3 | 40.6 | 40.4 |
| 37.5° | 861.1 | 822.3 | 519.9 | 96.2 | 69.7 | 60.3 | 50.1 | 40.0 | 34.0 | 31.6 | 31.4 |
| 40° | 958.6 | 901.7 | 451.1 | 77.9 | 62.2 | 50.9 | 38.7 | 31.0 | 26.9 | 25.0 | 25.2 |
| 42.5° | 1075.6 | 986.8 | 368.7 | 67.2 | 54.8 | 41.9 | 30.2 | 24.4 | 21.8 | 20.5 | 20.1 |
| 45° | 1205.6 | 1070.7 | 282.3 | 59.9 | 47.5 | 33.8 | 23.7 | 19.3 | 17.3 | 16.5 | 16.5 |
| 47.5° | 1348.5 | 1152.4 | 206.6 | 53.5 | 39.6 | 26.1 | 19.0 | 15.8 | 14.1 | 13.5 | 13.3 |
| 50° | 1478.3 | 1209.2 | 148.9 | 46.8 | 32.5 | 20.7 | 15.4 | 13.1 | 12.0 | 11.3 | 11.3 |
| 52.5° | 1586.5 | 1227.0 | 109.7 | 39.4 | 26.3 | 16.5 | 12.8 | 11.3 | 10.1 | 9.6 | 9.6 |
| 55° | 1681.7 | 1219.7 | 81.5 | 32.5 | 21.2 | 13.5 | 10.9 | 9.6 | 8.6 | 8.1 | 8.1 |
| 57.5° | 1773.0 | 1196.0 | 60.9 | 26.5 | 17.1 | 10.9 | 9.2 | 8.1 | 7.1 | 6.8 | 6.8 |
| 60° | 1847.5 | 1156.6 | 45.3 | 21.4 | 13.7 | 8.8 | 7.7 | 6.6 | 5.8 | 5.3 | 5.3 |
| 62.5° | 1908.0 | 1113.0 | 33.2 | 17.7 | 10.9 | 6.9 | 6.0 | 5.4 | 4.3 | 3.8 | 3.8 |
| 65° | 1908.4 | 1040.7 | 25.0 | 14.6 | 8.5 | 5.4 | 4.5 | 4.3 | 2.8 | 2.3 | 2.1 |
| 67.5° | 1770.3 | 897.2 | 19.2 | 12.6 | 6.6 | 4.1 | 3.4 | 3.6 | 1.5 | 0.9 | 0.8 |
| 68° | 1720.2 | 860.8 | 18.0 | 12.4 | 6.2 | 3.9 | 3.2 | 3.6 | 1.3 | 0.8 | 0.6 |
| 70° | 1450.3 | 684.8 | 14.5 | 12.0 | 5.4 | 3.0 | 2.6 | 3.6 | 1.1 | 0.6 | 0.4 |
| 72.5° | 927.6 | 397.4 | 10.7 | 9.6 | 4.1 | 2.3 | 1.7 | 3.2 | 1.1 | 0.4 | 0.2 |
| 75° | 394.8 | 123.2 | 7.3 | 6.8 | 2.4 | 1.7 | 1.1 | 2.1 | 0.8 | 0.2 | 0.0 |
| 77.5° | 83.2 | 27.8 | 4.3 | 4.1 | 1.7 | 1.1 | 0.8 | 0.6 | 0.2 | 0.0 | 0.0 |
| 80° | 21.4 | 8.1 | 2.3 | 2.1 | 0.9 | 0.6 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 6.8 | 3.2 | 1.3 | 0.9 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.4 | 1.9 | 0.8 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.9 | 0.6 | 0.2 | 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 | 0.0 |

(END OF REPORT)