

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: P193589

Luminaire Tested: **GAN-AF-01-LED-U-SL2-8030-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-8030-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4212 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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

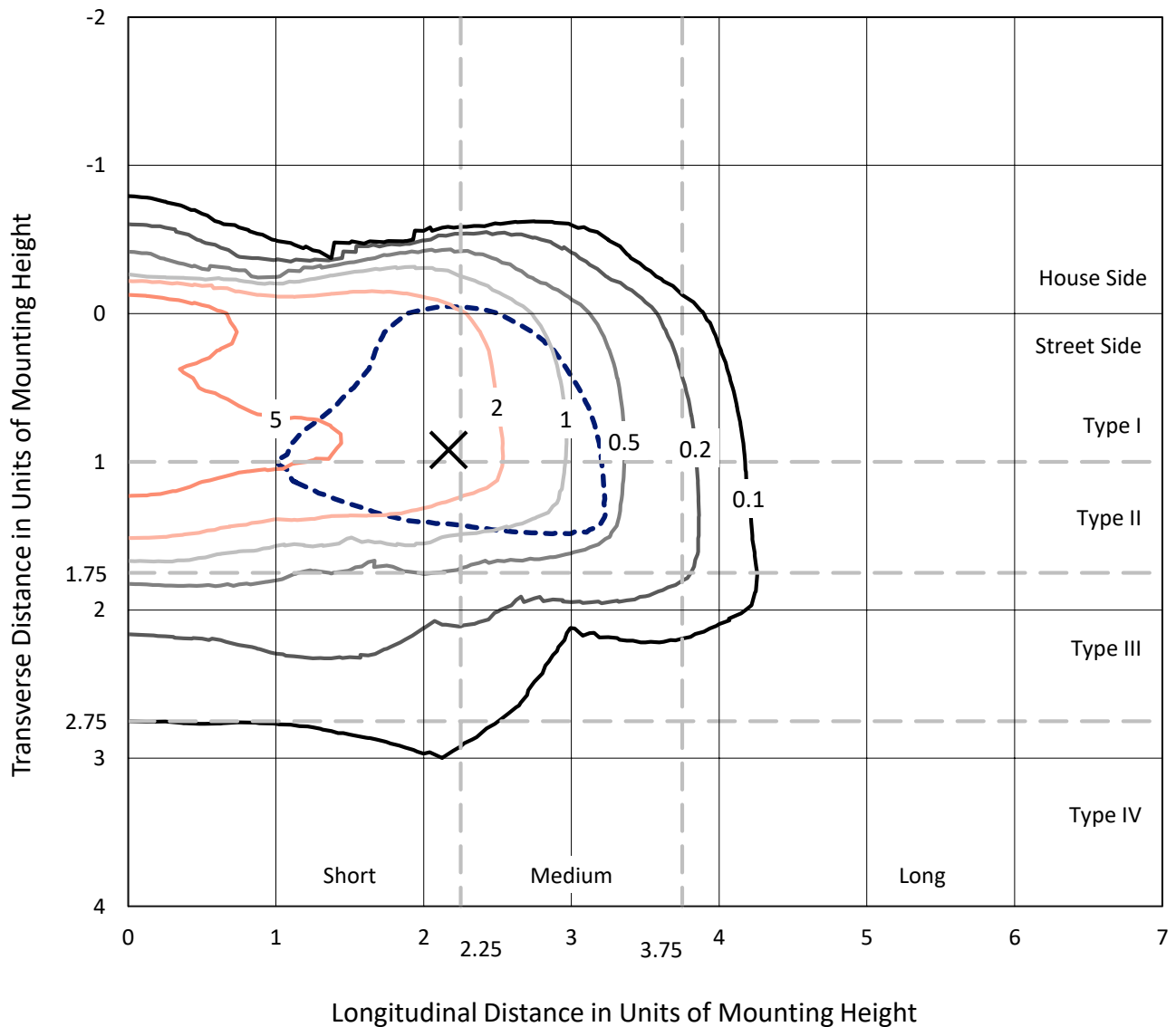


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

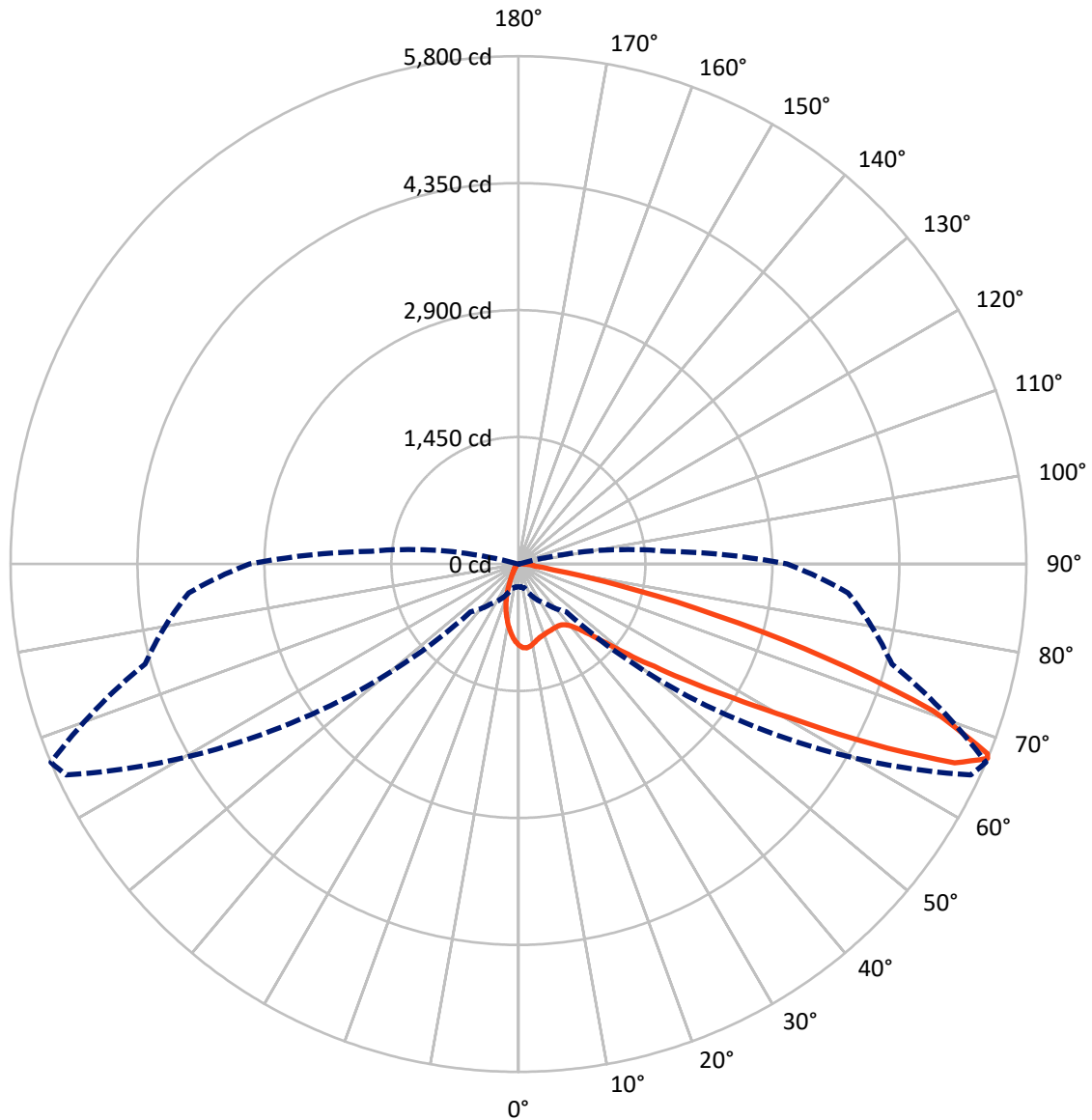


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 437.3 | 0.0 | 437.3 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 3774.7 | 0.0 | 3774.7 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 4212.0 | 0.0 | 4212.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.6 | 1.8 |
| 10°-20° | 160.9 | 3.8 |
| 20°-30° | 233.9 | 5.6 |
| 30°-40° | 364.9 | 8.7 |
| 40°-50° | 646.4 | 15.3 |
| 50°-60° | 1022.8 | 24.3 |
| 60°-70° | 1171.5 | 27.8 |
| 70°-80° | 485.9 | 11.5 |
| 80°-90° | 50.2 | 1.2 |
| 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° | 4212.0 | 100.0 |
| 0°-180° | 4212.0 | 100.0 |

Coefficient of Utilization



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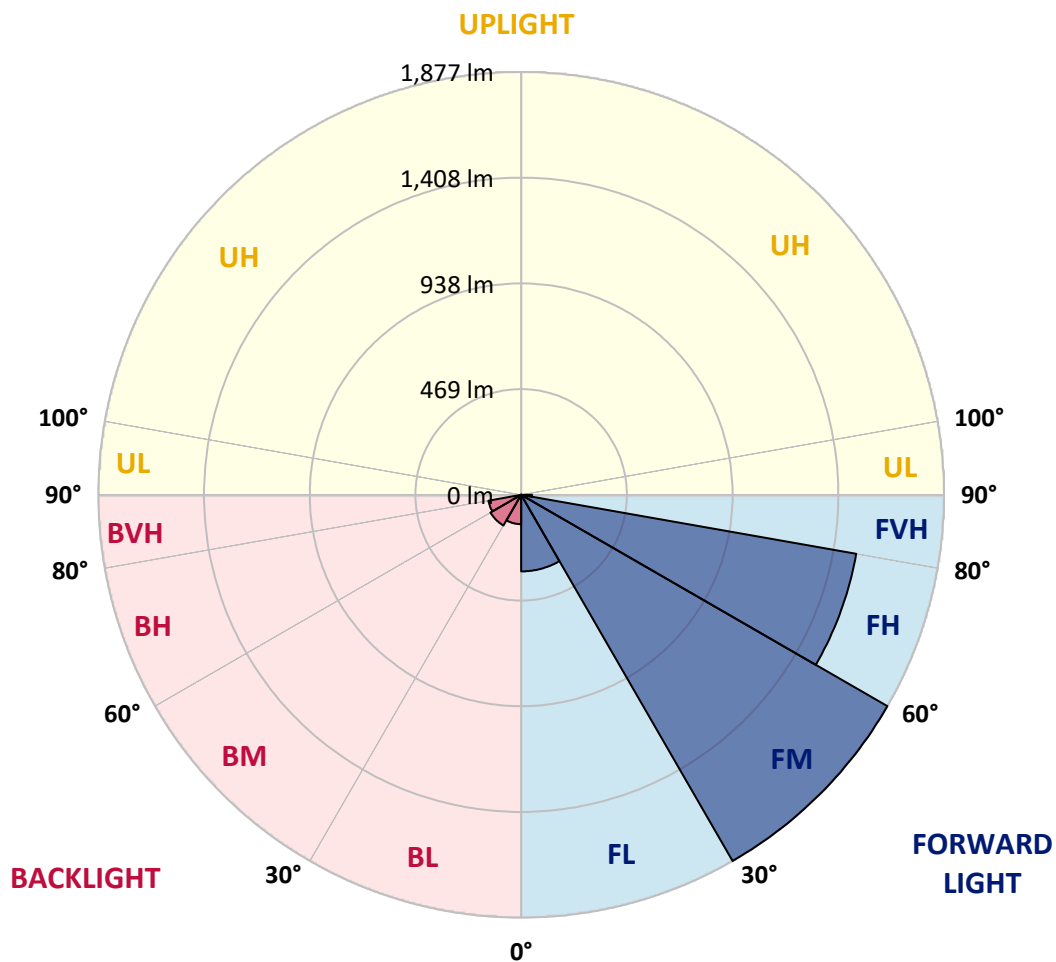
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 339.8 | 8.1 | | | |
| FM (30°-60°) | 1876.9 | 44.6 | | | |
| FH (60°-80°) | 1510.0 | 35.9 | | | G1/1800 |
| FVH (80°-90°) | 47.9 | 1.1 | | | G1/100 |
| BL (0°-30°) | 130.5 | 3.1 | B1/500 | | |
| BM (30°-60°) | 157.2 | 3.7 | B0/220 | | |
| BH (60°-80°) | 147.4 | 3.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.3 | 0.1 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 |
| 2.5° | 960.3 | 962.3 | 962.1 | 963.5 | 967.0 | 967.2 | 963.8 | 957.2 | 955.7 | 947.1 | 932.1 |
| 5° | 885.7 | 891.3 | 894.8 | 908.8 | 924.5 | 943.4 | 957.6 | 962.8 | 962.1 | 955.9 | 933.3 |
| 7.5° | 800.4 | 806.1 | 810.0 | 826.5 | 847.3 | 879.8 | 916.9 | 947.3 | 950.0 | 956.7 | 932.3 |
| 10° | 743.7 | 744.6 | 750.0 | 765.8 | 787.6 | 820.8 | 865.0 | 918.3 | 926.4 | 950.8 | 929.9 |
| 12.5° | 697.0 | 697.7 | 704.8 | 721.8 | 745.1 | 778.5 | 825.0 | 886.6 | 899.2 | 943.4 | 929.4 |
| 15° | 663.8 | 666.5 | 672.9 | 690.6 | 715.4 | 748.6 | 796.2 | 863.3 | 878.3 | 940.7 | 933.8 |
| 17.5° | 652.8 | 655.7 | 657.7 | 670.5 | 693.1 | 725.5 | 774.4 | 848.1 | 865.0 | 942.2 | 942.4 |
| 20° | 664.3 | 666.5 | 662.1 | 665.3 | 679.3 | 708.3 | 755.9 | 835.1 | 855.2 | 943.9 | 953.5 |
| 22.5° | 707.3 | 708.3 | 696.2 | 682.2 | 679.8 | 695.8 | 741.5 | 824.7 | 846.4 | 948.6 | 966.5 |
| 25° | 781.0 | 779.3 | 759.6 | 729.4 | 700.9 | 693.5 | 732.9 | 818.3 | 841.9 | 953.5 | 980.0 |
| 27.5° | 869.9 | 872.4 | 845.4 | 801.4 | 747.1 | 708.3 | 731.6 | 815.6 | 840.0 | 956.9 | 991.8 |
| 30° | 978.0 | 981.5 | 950.5 | 895.2 | 817.4 | 744.6 | 742.9 | 815.2 | 838.7 | 954.7 | 992.8 |
| 32.5° | 1088.3 | 1092.5 | 1068.2 | 1011.2 | 911.2 | 805.6 | 768.5 | 820.6 | 841.2 | 947.1 | 987.1 |
| 35° | 1203.8 | 1209.7 | 1193.5 | 1144.6 | 1038.5 | 893.5 | 813.4 | 837.0 | 852.7 | 946.3 | 981.5 |
| 37.5° | 1363.3 | 1368.7 | 1338.2 | 1286.4 | 1192.5 | 1011.4 | 885.7 | 868.0 | 880.0 | 958.1 | 983.0 |
| 40° | 1601.3 | 1600.6 | 1522.0 | 1442.6 | 1361.8 | 1161.3 | 987.1 | 924.0 | 930.1 | 993.8 | 1001.1 |
| 42.5° | 1860.8 | 1859.5 | 1743.3 | 1622.7 | 1549.7 | 1345.8 | 1120.5 | 1020.8 | 1016.6 | 1059.4 | 1048.3 |
| 45° | 2060.7 | 2060.5 | 1965.7 | 1829.8 | 1776.0 | 1557.6 | 1293.0 | 1155.4 | 1149.0 | 1166.0 | 1135.3 |
| 47.5° | 2146.0 | 2147.5 | 2099.8 | 2004.2 | 2026.8 | 1844.0 | 1510.4 | 1350.5 | 1340.9 | 1334.0 | 1287.3 |
| 50° | 2079.6 | 2082.6 | 2086.5 | 2067.9 | 2210.8 | 2229.0 | 1802.0 | 1625.4 | 1620.7 | 1590.0 | 1517.1 |
| 52.5° | 1863.0 | 1877.9 | 1924.1 | 1983.3 | 2274.7 | 2598.5 | 2259.2 | 1966.9 | 1941.8 | 1909.1 | 1828.8 |
| 55° | 1497.9 | 1514.3 | 1602.1 | 1745.8 | 2179.6 | 2841.2 | 2900.0 | 2407.1 | 2365.4 | 2267.8 | 2151.9 |
| 57.5° | 991.3 | 1016.9 | 1144.1 | 1326.9 | 1903.5 | 2880.3 | 3539.2 | 3018.1 | 2872.7 | 2605.6 | 2474.9 |
| 60° | 546.1 | 570.7 | 708.8 | 874.4 | 1374.8 | 2687.2 | 3969.1 | 3813.6 | 3556.7 | 2983.2 | 2867.3 |
| 62.5° | 336.3 | 349.6 | 451.6 | 605.6 | 824.5 | 2120.9 | 4058.1 | 4813.3 | 4515.8 | 3469.4 | 3341.2 |
| 65° | 267.8 | 273.4 | 323.3 | 495.0 | 591.1 | 1261.5 | 3770.9 | 5575.4 | 5476.1 | 4058.1 | 3765.5 |
| 67° | 259.9 | 262.1 | 285.7 | 425.0 | 557.2 | 773.4 | 3159.1 | 5699.4 | 5800.2 | 4414.3 | 3778.7 |
| 67.5° | 261.6 | 264.1 | 286.5 | 405.6 | 556.2 | 710.7 | 2948.4 | 5650.6 | 5777.8 | 4442.6 | 3720.0 |
| 70° | 252.3 | 259.9 | 328.0 | 405.4 | 528.9 | 590.6 | 1765.7 | 4895.8 | 5028.3 | 4127.9 | 3156.4 |
| 72.5° | 89.4 | 89.9 | 141.8 | 328.0 | 575.1 | 597.0 | 886.6 | 3589.1 | 3687.1 | 3157.7 | 2275.7 |
| 75° | 53.1 | 45.2 | 47.2 | 93.4 | 549.6 | 579.8 | 511.5 | 2293.4 | 2330.0 | 1809.4 | 1152.5 |
| 77.5° | 36.6 | 31.9 | 32.9 | 41.3 | 209.3 | 571.7 | 406.3 | 1196.0 | 1156.9 | 634.6 | 245.4 |
| 80° | 20.9 | 18.4 | 19.7 | 36.1 | 76.2 | 533.4 | 383.3 | 485.0 | 413.5 | 107.6 | 67.8 |
| 82.5° | 11.1 | 9.3 | 11.3 | 29.7 | 53.1 | 332.4 | 384.0 | 234.4 | 185.7 | 36.4 | 46.2 |
| 85° | 3.9 | 3.2 | 5.4 | 20.4 | 35.4 | 102.0 | 356.0 | 197.0 | 154.8 | 17.7 | 35.1 |
| 87.5° | 0.7 | 0.7 | 2.2 | 8.4 | 14.2 | 31.2 | 210.5 | 116.9 | 78.4 | 10.6 | 24.1 |
| 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° | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 |
| 2.5° | 926.0 | 915.4 | 901.1 | 883.7 | 863.1 | 844.9 | 831.4 | 817.4 | 814.4 | 809.5 | 808.8 |
| 5° | 919.8 | 901.6 | 866.3 | 825.7 | 782.5 | 743.4 | 711.7 | 683.5 | 670.9 | 660.1 | 658.9 |
| 7.5° | 910.7 | 883.5 | 823.3 | 757.9 | 690.3 | 628.9 | 576.8 | 540.0 | 506.1 | 489.9 | 487.4 |
| 10° | 900.2 | 861.1 | 774.9 | 684.2 | 590.9 | 504.1 | 426.7 | 361.9 | 322.6 | 299.2 | 296.3 |
| 12.5° | 890.3 | 839.2 | 725.5 | 607.8 | 483.7 | 367.8 | 268.3 | 206.4 | 165.1 | 148.4 | 146.4 |
| 15° | 885.7 | 821.5 | 679.3 | 529.7 | 371.7 | 234.1 | 146.7 | 113.5 | 100.0 | 96.1 | 95.8 |
| 17.5° | 885.2 | 806.6 | 634.1 | 448.9 | 260.4 | 136.1 | 95.6 | 87.2 | 84.5 | 83.5 | 83.5 |
| 20° | 884.9 | 792.3 | 588.9 | 365.1 | 165.3 | 90.7 | 79.6 | 77.6 | 75.7 | 74.4 | 74.4 |
| 22.5° | 887.6 | 779.5 | 541.7 | 279.6 | 104.2 | 73.5 | 70.0 | 68.1 | 65.6 | 63.9 | 63.6 |
| 25° | 890.3 | 769.7 | 493.6 | 199.0 | 75.4 | 63.9 | 60.4 | 57.7 | 54.3 | 52.1 | 51.8 |
| 27.5° | 890.8 | 757.4 | 442.0 | 133.2 | 63.1 | 55.8 | 51.3 | 47.2 | 43.2 | 41.0 | 40.8 |
| 30° | 883.5 | 736.8 | 384.7 | 89.9 | 55.8 | 48.4 | 42.5 | 38.1 | 34.4 | 32.7 | 32.7 |
| 32.5° | 869.0 | 711.2 | 321.8 | 67.8 | 49.6 | 41.5 | 35.1 | 31.0 | 28.5 | 27.8 | 27.5 |
| 35° | 855.9 | 683.7 | 257.2 | 57.5 | 44.5 | 35.1 | 28.7 | 26.0 | 24.6 | 24.3 | 24.1 |
| 37.5° | 848.3 | 661.6 | 196.5 | 52.1 | 39.6 | 29.5 | 24.3 | 22.4 | 21.6 | 21.1 | 21.4 |
| 40° | 854.2 | 643.2 | 145.2 | 47.7 | 34.6 | 24.6 | 20.6 | 19.7 | 18.9 | 18.7 | 18.7 |
| 42.5° | 880.0 | 640.0 | 107.9 | 43.7 | 30.0 | 20.4 | 17.9 | 17.2 | 16.7 | 16.5 | 16.7 |
| 45° | 947.8 | 659.6 | 83.8 | 40.0 | 25.3 | 17.2 | 15.2 | 15.0 | 14.7 | 14.7 | 14.7 |
| 47.5° | 1049.8 | 700.2 | 69.8 | 35.9 | 21.1 | 14.7 | 13.3 | 13.0 | 12.8 | 13.0 | 13.0 |
| 50° | 1222.5 | 774.4 | 62.4 | 31.7 | 17.4 | 12.5 | 11.3 | 11.3 | 11.3 | 11.3 | 11.5 |
| 52.5° | 1485.1 | 920.3 | 57.5 | 27.5 | 14.2 | 10.6 | 9.6 | 9.6 | 9.8 | 9.8 | 10.1 |
| 55° | 1777.7 | 1113.9 | 53.1 | 23.3 | 12.0 | 8.8 | 7.9 | 8.1 | 8.4 | 8.6 | 8.6 |
| 57.5° | 2095.1 | 1328.4 | 49.4 | 19.2 | 10.3 | 7.1 | 6.6 | 6.9 | 7.1 | 7.6 | 7.6 |
| 60° | 2478.1 | 1560.5 | 44.0 | 15.0 | 8.6 | 5.7 | 5.2 | 5.7 | 6.4 | 6.9 | 7.1 |
| 62.5° | 2898.7 | 1785.1 | 37.1 | 11.8 | 7.1 | 4.4 | 4.2 | 5.2 | 6.1 | 6.6 | 6.9 |
| 65° | 3186.2 | 1855.6 | 28.5 | 9.6 | 5.4 | 3.2 | 3.4 | 4.7 | 5.9 | 6.6 | 6.6 |
| 67° | 3069.7 | 1682.4 | 23.3 | 8.1 | 4.4 | 2.5 | 3.2 | 4.7 | 5.9 | 6.4 | 6.6 |
| 67.5° | 2988.9 | 1614.6 | 22.4 | 7.9 | 4.2 | 2.5 | 3.2 | 4.7 | 5.9 | 6.6 | 6.6 |
| 70° | 2431.9 | 1212.9 | 18.7 | 5.9 | 3.4 | 2.2 | 2.7 | 4.4 | 5.7 | 6.4 | 6.4 |
| 72.5° | 1689.8 | 747.8 | 16.7 | 4.2 | 2.9 | 2.0 | 2.5 | 4.2 | 5.4 | 6.1 | 6.4 |
| 75° | 803.4 | 270.7 | 14.2 | 3.2 | 2.7 | 1.7 | 2.2 | 4.2 | 5.4 | 6.1 | 6.1 |
| 77.5° | 163.9 | 62.9 | 11.5 | 2.7 | 2.2 | 1.7 | 2.0 | 3.9 | 5.2 | 5.9 | 5.9 |
| 80° | 53.8 | 24.3 | 8.6 | 2.5 | 2.2 | 1.7 | 2.0 | 3.7 | 5.2 | 5.7 | 5.9 |
| 82.5° | 38.8 | 12.3 | 5.7 | 2.5 | 2.2 | 1.7 | 1.7 | 3.7 | 4.9 | 5.7 | 5.7 |
| 85° | 29.7 | 8.6 | 3.7 | 2.5 | 2.2 | 1.7 | 1.7 | 3.4 | 4.7 | 5.4 | 5.4 |
| 87.5° | 19.7 | 3.4 | 2.9 | 2.5 | 2.2 | 1.7 | 1.7 | 3.4 | 4.4 | 5.2 | 5.4 |
| 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)