

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: P320907

Luminaire Tested: **GAN-SA3A-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13293 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

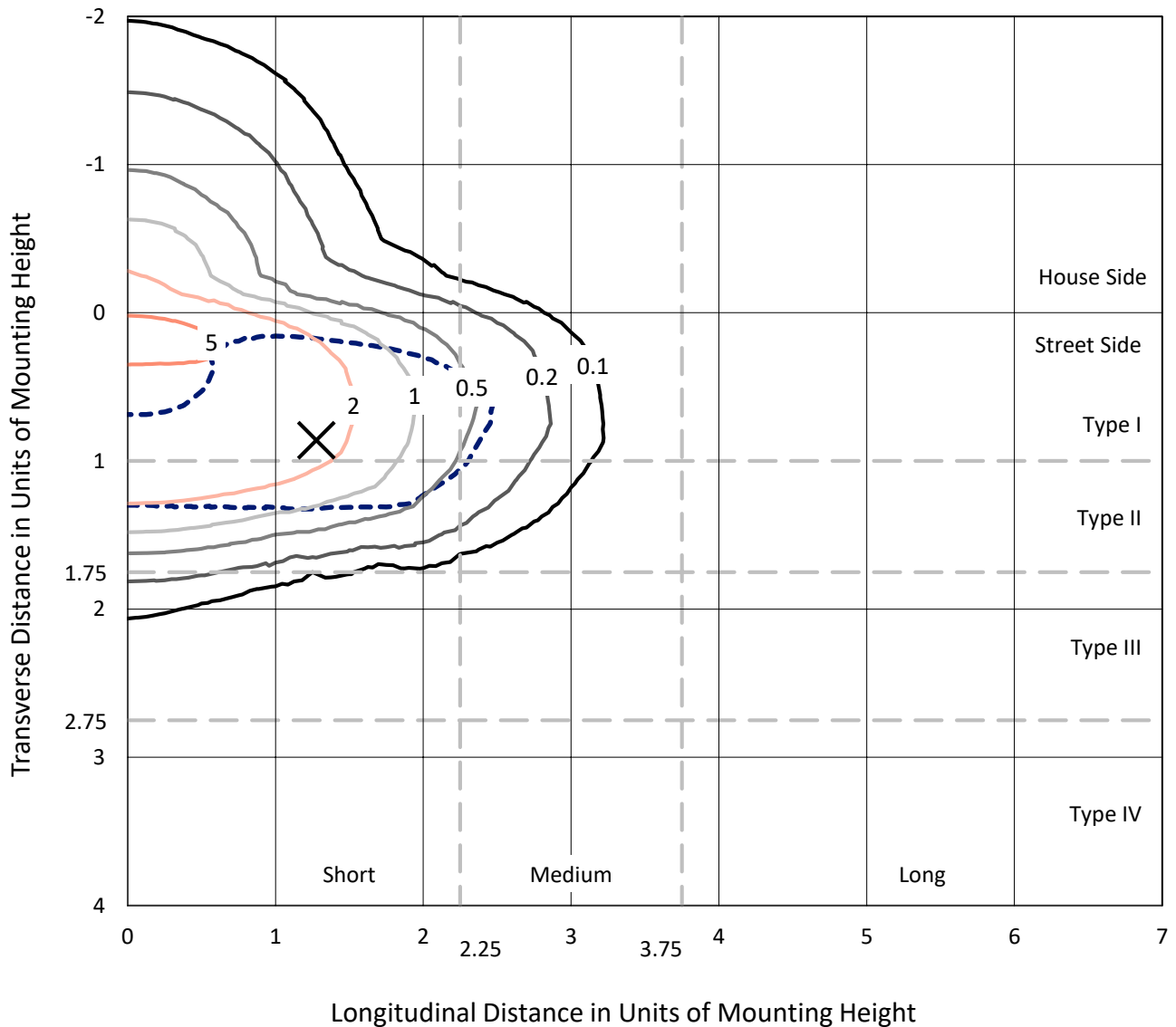
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

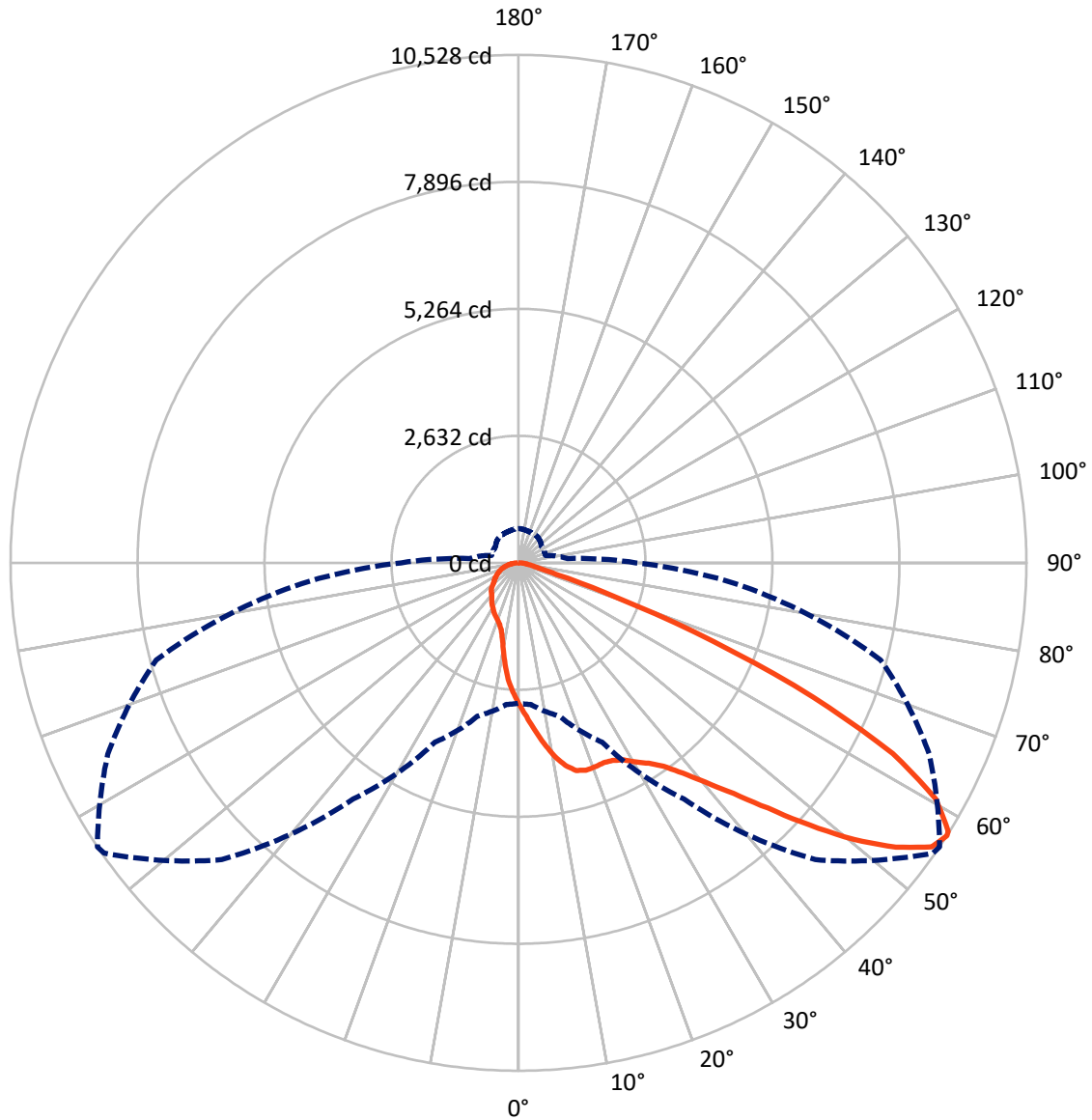
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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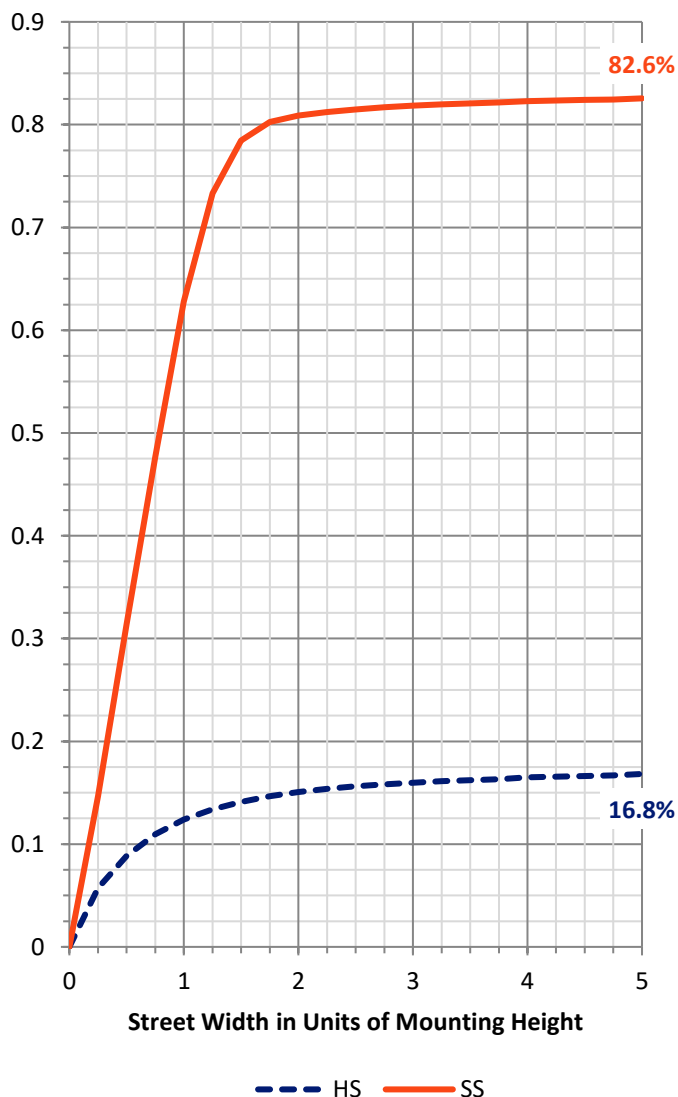
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2291.4 | 0.0 | 2291.4 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 11001.6 | 0.0 | 11001.6 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 13293.0 | 0.0 | 13293.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 281.6 | 2.1 |
| 10°-20° | 796.3 | 6.0 |
| 20°-30° | 1297.0 | 9.8 |
| 30°-40° | 1938.8 | 14.6 |
| 40°-50° | 2940.8 | 22.1 |
| 50°-60° | 3296.1 | 24.8 |
| 60°-70° | 1946.8 | 14.6 |
| 70°-80° | 637.9 | 4.8 |
| 80°-90° | 157.6 | 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° | 13293.0 | 100.0 |
| 0°-180° | 13293.0 | 100.0 |

Coefficient of Utilization



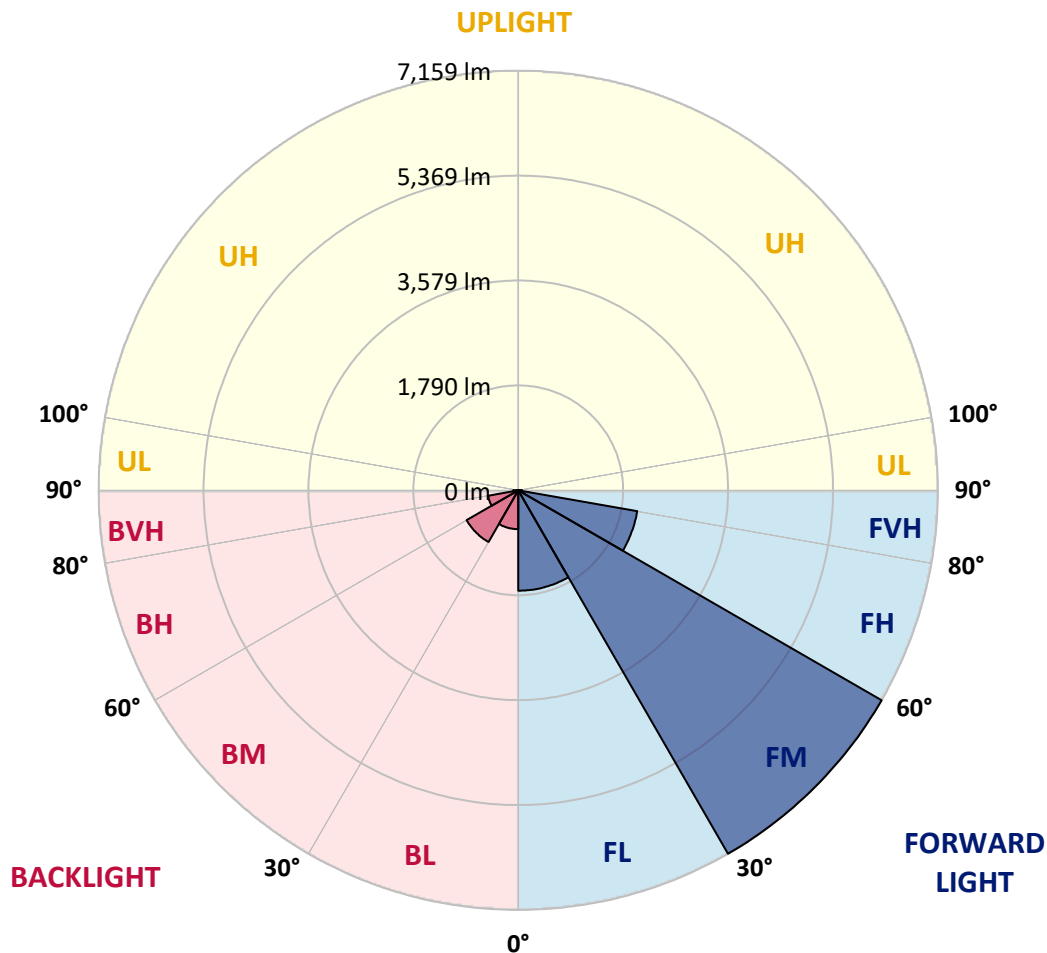
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1712.3 | 12.9 | | | |
| FM (30°-60°) | 7158.7 | 53.9 | | | |
| FH (60°-80°) | 2061.1 | 15.5 | | | G2/5000 |
| FVH (80°-90°) | 69.4 | 0.5 | | | G1/100 |
| BL (0°-30°) | 662.6 | 5.0 | B2/1000 | | |
| BM (30°-60°) | 1017.1 | 7.7 | B2/2500 | | |
| BH (60°-80°) | 523.6 | 3.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 88.2 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0° | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 |
| 2.5° | 3385.6 | 3416.7 | 3402.9 | 3355.4 | 3318.9 | 3267.3 | 3209.7 | 3192.3 | 3131.6 | 3063.5 | 2981.7 |
| 5° | 3921.5 | 3905.9 | 3883.5 | 3809.5 | 3731.4 | 3640.5 | 3496.1 | 3473.3 | 3338.1 | 3184.1 | 3021.5 |
| 7.5° | 4226.6 | 4225.2 | 4212.0 | 4168.6 | 4097.3 | 3978.6 | 3804.5 | 3777.6 | 3573.3 | 3325.7 | 3073.6 |
| 10° | 4182.3 | 4179.1 | 4201.0 | 4246.3 | 4267.7 | 4243.1 | 4096.4 | 4069.5 | 3818.7 | 3482.4 | 3133.9 |
| 12.5° | 3930.6 | 3932.4 | 3967.6 | 4062.6 | 4191.9 | 4347.2 | 4323.5 | 4310.2 | 4073.1 | 3659.7 | 3207.0 |
| 15° | 3734.6 | 3738.7 | 3766.6 | 3849.3 | 4001.9 | 4283.7 | 4461.4 | 4466.0 | 4319.4 | 3855.2 | 3292.4 |
| 17.5° | 3648.7 | 3657.4 | 3670.2 | 3728.2 | 3868.0 | 4157.2 | 4494.3 | 4519.0 | 4535.0 | 4058.0 | 3374.6 |
| 20° | 3676.1 | 3684.4 | 3688.0 | 3725.0 | 3839.7 | 4080.4 | 4471.5 | 4515.8 | 4700.4 | 4249.0 | 3456.9 |
| 22.5° | 3799.0 | 3804.0 | 3806.3 | 3815.9 | 3905.0 | 4102.4 | 4456.4 | 4503.0 | 4820.0 | 4420.3 | 3519.0 |
| 25° | 4002.8 | 3999.1 | 3984.5 | 3972.2 | 4032.0 | 4189.2 | 4491.1 | 4535.4 | 4917.3 | 4575.6 | 3559.6 |
| 27.5° | 4246.7 | 4242.2 | 4213.8 | 4180.0 | 4214.3 | 4324.4 | 4591.2 | 4626.3 | 5004.6 | 4720.9 | 3580.2 |
| 30° | 4539.5 | 4527.7 | 4474.2 | 4434.0 | 4447.3 | 4527.2 | 4756.1 | 4788.1 | 5139.4 | 4885.8 | 3600.3 |
| 32.5° | 4878.1 | 4865.3 | 4788.1 | 4721.4 | 4721.4 | 4788.1 | 4926.0 | 4952.5 | 5253.6 | 5072.2 | 3632.7 |
| 35° | 5302.0 | 5286.0 | 5185.5 | 5073.6 | 5042.1 | 5075.9 | 5157.6 | 5176.4 | 5459.2 | 5307.0 | 3691.7 |
| 37.5° | 5801.8 | 5780.3 | 5650.1 | 5500.3 | 5431.3 | 5429.5 | 5488.4 | 5526.8 | 5787.6 | 5615.4 | 3791.7 |
| 40° | 6302.9 | 6287.8 | 6174.1 | 6056.2 | 5921.0 | 5877.6 | 5968.5 | 5980.4 | 6217.0 | 5998.2 | 3919.6 |
| 42.5° | 6690.3 | 6687.6 | 6666.6 | 6682.1 | 6543.7 | 6456.0 | 6527.2 | 6536.8 | 6741.5 | 6412.6 | 4055.8 |
| 45° | 6895.0 | 6899.5 | 7001.4 | 7227.1 | 7278.3 | 7214.3 | 7249.5 | 7252.2 | 7340.8 | 6830.6 | 4180.5 |
| 47.5° | 6731.0 | 6754.7 | 7012.4 | 7517.2 | 7936.1 | 8148.5 | 8090.1 | 8123.9 | 7921.9 | 7189.6 | 4278.2 |
| 50° | 6091.9 | 6121.1 | 6559.7 | 7387.9 | 8243.1 | 9052.6 | 9022.0 | 9014.2 | 8390.6 | 7452.8 | 4331.2 |
| 52.5° | 5300.2 | 5323.0 | 5684.8 | 6715.9 | 8017.9 | 9552.4 | 9833.3 | 9793.1 | 8807.3 | 7649.7 | 4341.3 |
| 55° | 4094.6 | 4130.2 | 4477.0 | 5374.6 | 7106.9 | 9361.4 | 10430.0 | 10393.9 | 9186.9 | 7752.9 | 4329.4 |
| 57° | 2910.9 | 2948.4 | 3292.9 | 4101.9 | 5978.6 | 8700.4 | 10489.3 | 10527.7 | 9392.0 | 7770.3 | 4342.7 |
| 57.5° | 2597.6 | 2635.9 | 2977.2 | 3762.9 | 5626.8 | 8461.5 | 10438.2 | 10502.1 | 9429.0 | 7767.5 | 4350.0 |
| 60° | 1307.9 | 1322.5 | 1540.0 | 2100.5 | 3556.9 | 6840.6 | 9770.7 | 9935.7 | 9462.4 | 7633.2 | 4381.5 |
| 62.5° | 813.2 | 802.7 | 795.8 | 967.6 | 1730.5 | 4536.4 | 8393.4 | 8710.9 | 8824.2 | 7308.0 | 4305.2 |
| 65° | 714.9 | 695.3 | 619.9 | 606.2 | 764.3 | 2203.3 | 6320.7 | 6715.9 | 7460.5 | 6795.4 | 4123.4 |
| 67.5° | 671.5 | 652.4 | 567.4 | 516.2 | 516.7 | 873.5 | 3924.2 | 4369.1 | 5811.8 | 5928.8 | 3694.4 |
| 70° | 626.8 | 609.4 | 529.9 | 469.6 | 439.9 | 483.8 | 1805.4 | 2143.0 | 3788.5 | 4660.2 | 3087.7 |
| 72.5° | 569.2 | 557.3 | 482.0 | 419.8 | 388.3 | 362.3 | 691.2 | 816.4 | 2193.3 | 3129.8 | 2144.4 |
| 75° | 508.9 | 497.9 | 433.5 | 374.1 | 335.8 | 285.1 | 389.2 | 419.4 | 1114.2 | 1601.2 | 1055.7 |
| 77.5° | 442.7 | 436.3 | 385.6 | 330.7 | 300.1 | 236.2 | 275.5 | 290.1 | 477.8 | 686.6 | 529.5 |
| 80° | 352.2 | 364.6 | 337.1 | 294.7 | 266.3 | 189.1 | 195.1 | 204.7 | 278.2 | 335.3 | 300.6 |
| 82.5° | 229.3 | 250.8 | 264.0 | 239.4 | 219.3 | 148.9 | 140.2 | 144.4 | 181.4 | 204.7 | 130.7 |
| 85° | 95.5 | 107.4 | 173.6 | 156.7 | 145.7 | 108.7 | 94.1 | 95.9 | 112.4 | 116.5 | 53.4 |
| 87.5° | 42.5 | 45.2 | 76.3 | 71.7 | 61.7 | 37.5 | 40.2 | 43.9 | 59.8 | 56.6 | 20.6 |
| 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° | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 | 2948.4 |
| 2.5° | 2951.1 | 2912.8 | 2847.0 | 2774.3 | 2715.0 | 2667.4 | 2619.5 | 2586.6 | 2548.2 | 2527.7 | 2517.1 |
| 5° | 2953.4 | 2878.0 | 2739.6 | 2597.6 | 2470.6 | 2354.5 | 2244.0 | 2159.0 | 2079.5 | 2036.6 | 2024.7 |
| 7.5° | 2963.0 | 2849.7 | 2625.9 | 2392.0 | 2166.3 | 1960.3 | 1801.3 | 1701.7 | 1630.0 | 1598.0 | 1588.9 |
| 10° | 2970.8 | 2816.4 | 2485.2 | 2138.9 | 1831.9 | 1623.1 | 1499.8 | 1444.0 | 1419.4 | 1415.3 | 1411.2 |
| 12.5° | 2989.1 | 2782.1 | 2337.2 | 1874.8 | 1572.0 | 1427.6 | 1384.7 | 1381.0 | 1387.9 | 1397.9 | 1397.9 |
| 15° | 3017.8 | 2748.3 | 2168.1 | 1648.3 | 1406.6 | 1355.9 | 1364.6 | 1384.7 | 1403.4 | 1418.9 | 1421.2 |
| 17.5° | 3038.9 | 2706.7 | 1986.3 | 1466.9 | 1318.4 | 1332.1 | 1363.2 | 1391.5 | 1410.7 | 1425.8 | 1427.1 |
| 20° | 3053.9 | 2642.3 | 1792.2 | 1328.5 | 1267.7 | 1310.2 | 1349.0 | 1374.2 | 1387.4 | 1402.5 | 1404.8 |
| 22.5° | 3046.2 | 2556.0 | 1619.9 | 1229.3 | 1226.6 | 1278.2 | 1315.2 | 1345.4 | 1335.3 | 1320.7 | 1330.3 |
| 25° | 3008.7 | 2437.2 | 1442.7 | 1155.3 | 1183.2 | 1235.3 | 1281.0 | 1260.9 | 1227.1 | 1220.7 | 1224.3 |
| 27.5° | 2942.0 | 2285.5 | 1278.7 | 1086.8 | 1132.9 | 1195.5 | 1192.8 | 1172.7 | 1160.8 | 1152.6 | 1157.6 |
| 30° | 2870.3 | 2121.1 | 1135.2 | 1027.0 | 1077.2 | 1128.8 | 1118.3 | 1117.9 | 1106.0 | 1092.7 | 1099.1 |
| 32.5° | 2799.5 | 1955.7 | 1021.5 | 977.6 | 1035.2 | 1042.0 | 1064.9 | 1071.7 | 1048.4 | 1020.6 | 1018.7 |
| 35° | 2737.8 | 1799.5 | 935.1 | 932.9 | 984.5 | 985.4 | 1018.7 | 1009.1 | 951.1 | 922.3 | 922.3 |
| 37.5° | 2691.7 | 1643.7 | 869.4 | 892.7 | 917.8 | 941.5 | 958.4 | 918.7 | 909.1 | 893.1 | 892.7 |
| 40° | 2671.6 | 1506.6 | 828.2 | 862.0 | 870.7 | 900.9 | 857.5 | 873.0 | 877.6 | 869.4 | 869.4 |
| 42.5° | 2650.5 | 1387.4 | 792.6 | 838.7 | 837.4 | 833.3 | 811.3 | 831.4 | 849.7 | 850.2 | 848.8 |
| 45° | 2629.5 | 1284.6 | 761.1 | 789.0 | 808.1 | 763.8 | 767.9 | 789.4 | 815.0 | 824.1 | 824.1 |
| 47.5° | 2606.2 | 1203.3 | 732.3 | 736.4 | 766.1 | 736.4 | 733.2 | 749.7 | 779.8 | 794.4 | 797.6 |
| 50° | 2555.1 | 1130.2 | 699.4 | 690.3 | 698.5 | 708.5 | 711.3 | 719.1 | 752.4 | 775.7 | 781.2 |
| 52.5° | 2484.3 | 1064.9 | 657.4 | 647.8 | 647.8 | 685.7 | 698.5 | 700.8 | 729.1 | 757.0 | 762.5 |
| 55° | 2425.3 | 1023.3 | 614.0 | 612.2 | 610.3 | 661.5 | 683.4 | 687.1 | 706.7 | 728.6 | 731.4 |
| 57° | 2429.4 | 1020.1 | 580.6 | 582.5 | 582.0 | 636.8 | 669.3 | 677.0 | 687.1 | 705.8 | 709.0 |
| 57.5° | 2431.7 | 1022.4 | 573.3 | 574.2 | 573.8 | 630.0 | 665.1 | 673.8 | 681.6 | 701.2 | 704.4 |
| 60° | 2466.0 | 1028.3 | 543.6 | 533.6 | 535.9 | 593.4 | 641.9 | 652.8 | 657.8 | 683.9 | 688.0 |
| 62.5° | 2415.3 | 1001.8 | 519.9 | 495.7 | 495.7 | 555.1 | 609.4 | 626.8 | 634.5 | 669.7 | 676.6 |
| 65° | 2268.2 | 927.4 | 492.0 | 452.7 | 457.3 | 516.7 | 570.6 | 598.9 | 610.8 | 654.6 | 662.0 |
| 67.5° | 2041.1 | 841.0 | 462.3 | 414.3 | 418.9 | 476.5 | 530.4 | 561.0 | 579.7 | 638.2 | 644.1 |
| 70° | 1745.6 | 735.5 | 422.1 | 373.7 | 379.2 | 432.6 | 482.9 | 517.6 | 545.5 | 622.7 | 624.5 |
| 72.5° | 1286.9 | 603.0 | 365.9 | 328.9 | 334.9 | 381.5 | 434.9 | 475.1 | 512.6 | 583.8 | 582.9 |
| 75° | 765.2 | 471.5 | 303.8 | 283.7 | 287.8 | 331.2 | 391.5 | 440.4 | 496.6 | 568.8 | 577.4 |
| 77.5° | 464.1 | 355.0 | 247.6 | 237.6 | 242.6 | 286.9 | 360.4 | 412.5 | 489.7 | 536.3 | 533.6 |
| 80° | 280.5 | 253.5 | 197.8 | 191.4 | 196.4 | 245.3 | 333.5 | 391.5 | 428.1 | 458.2 | 458.2 |
| 82.5° | 146.6 | 154.9 | 145.3 | 140.2 | 147.1 | 199.2 | 303.3 | 341.7 | 378.3 | 324.8 | 303.3 |
| 85° | 59.8 | 80.9 | 88.2 | 87.7 | 91.8 | 138.0 | 261.8 | 292.4 | 243.9 | 231.6 | 237.1 |
| 87.5° | 20.1 | 34.3 | 42.9 | 37.0 | 38.8 | 86.8 | 181.4 | 141.2 | 167.7 | 116.9 | 111.0 |
| 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)