

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: P192992

Luminaire Tested: **GAN-AF-04-LED-U-SL4-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL4-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22067.1 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

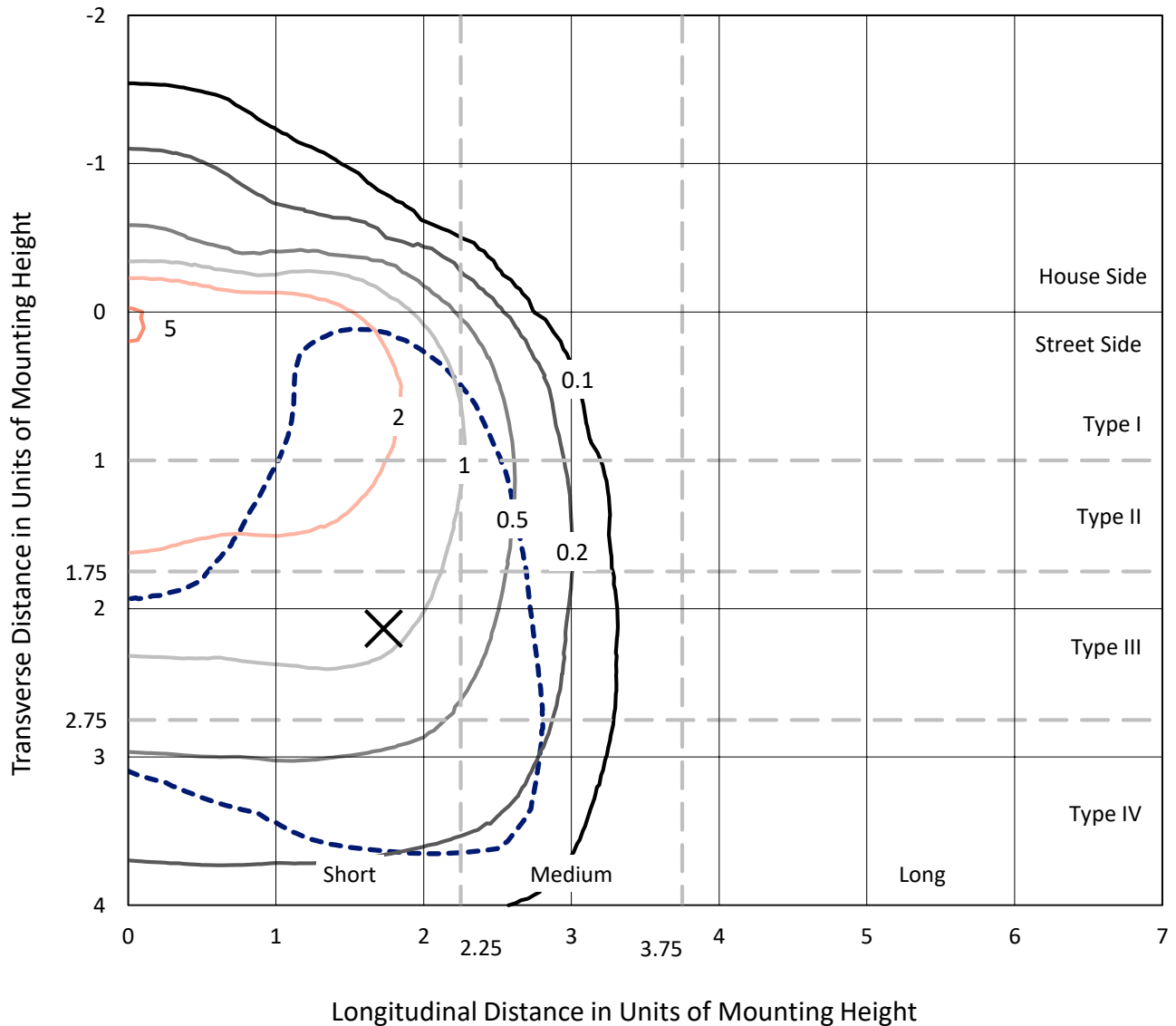
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

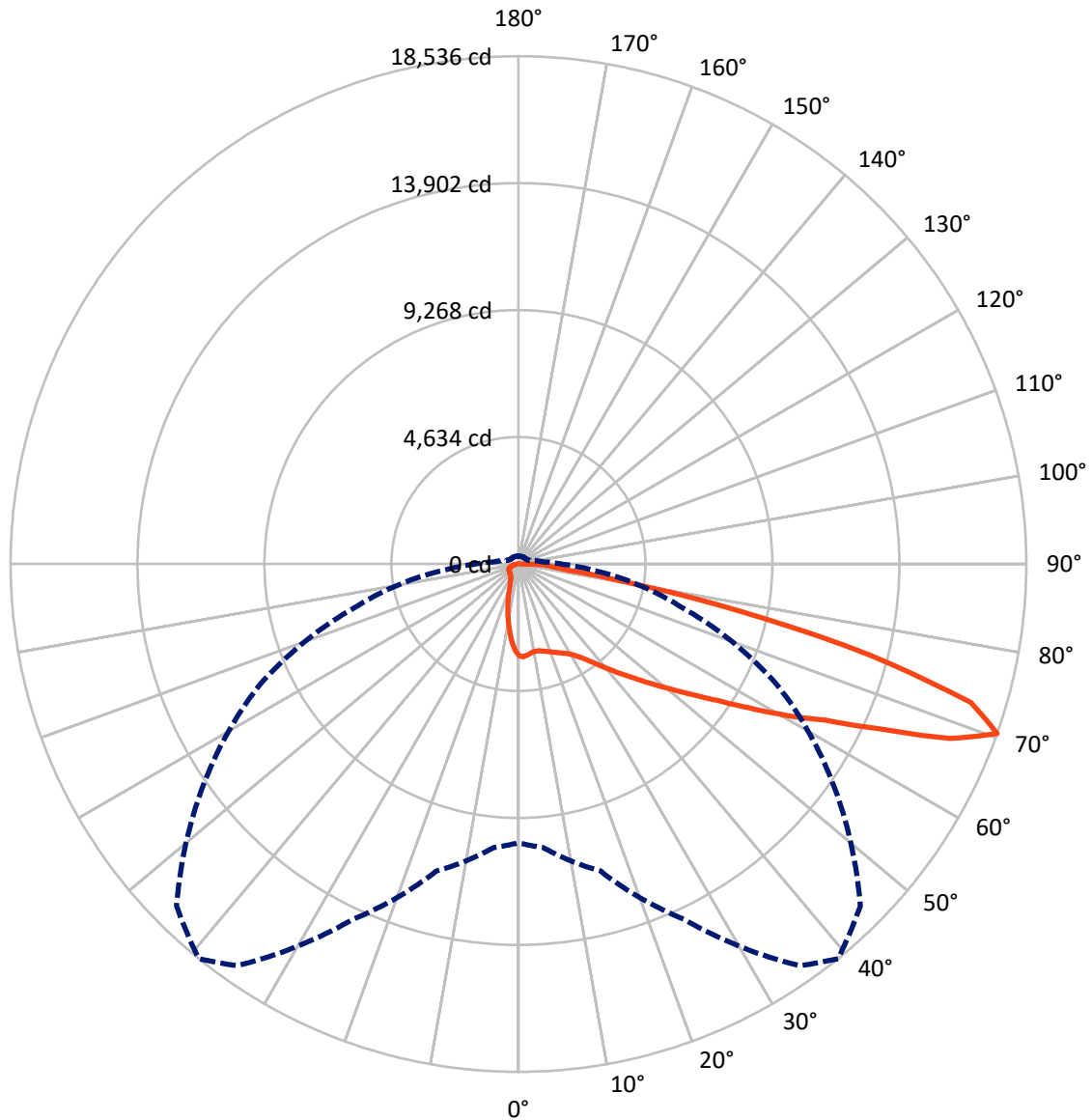


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2509.8 | 0.0 | 2509.8 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 19557.3 | 0.0 | 19557.3 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 22067.1 | 0.0 | 22067.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 287.5 | 1.3 |
| 10°-20° | 718.6 | 3.3 |
| 20°-30° | 1119.0 | 5.1 |
| 30°-40° | 1743.1 | 7.9 |
| 40°-50° | 2926.4 | 13.3 |
| 50°-60° | 4648.9 | 21.1 |
| 60°-70° | 6201.1 | 28.1 |
| 70°-80° | 3744.7 | 17.0 |
| 80°-90° | 677.7 | 3.1 |
| 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° | 22067.1 | 100.0 |
| 0°-180° | 22067.1 | 100.0 |



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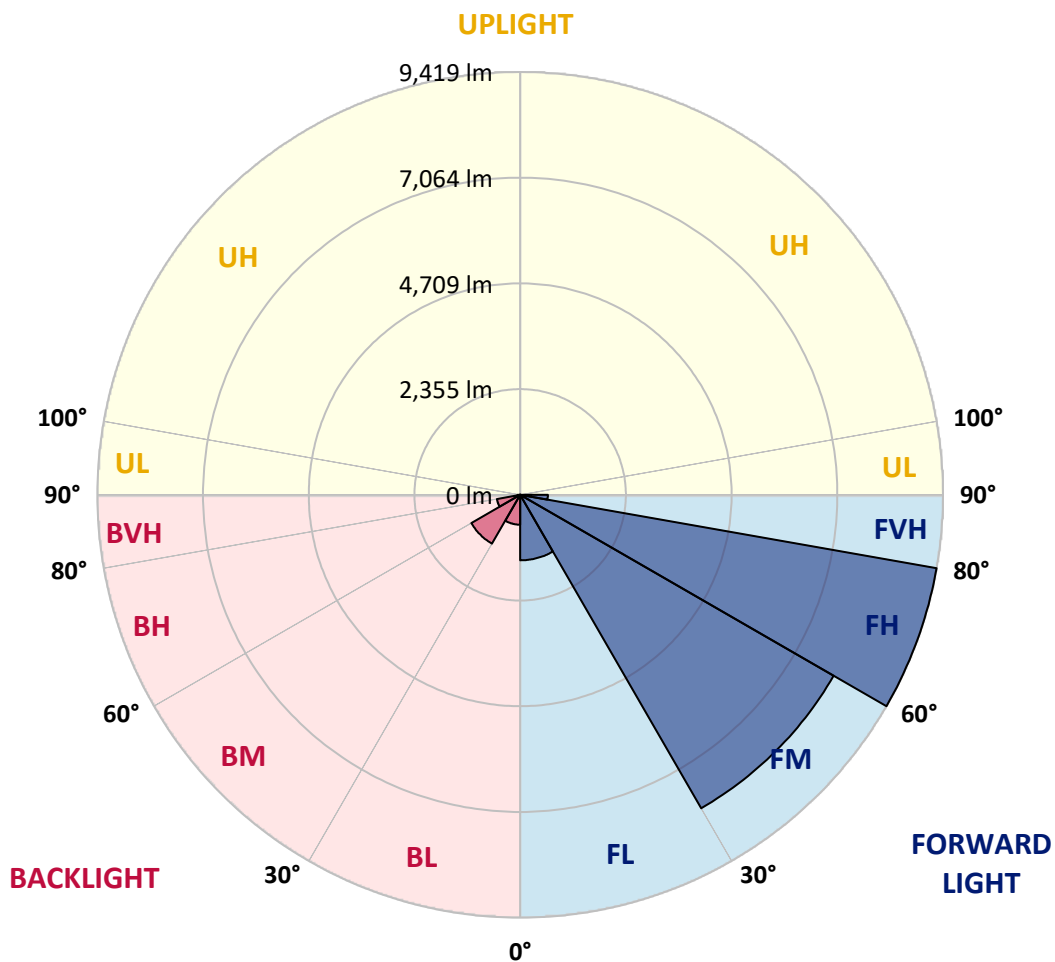
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1459.3 | 6.6 | | | |
| FM | (30°-60°) | 8062.5 | 36.5 | | | |
| FH | (60°-80°) | 9418.9 | 42.7 | | | G4/12000 |
| FVH | (80°-90°) | 616.7 | 2.8 | | | G4/750 |
| BL | (0°-30°) | 665.8 | 3.0 | B2/1000 | | |
| BM | (30°-60°) | 1256.0 | 5.7 | B2/2500 | | |
| BH | (60°-80°) | 526.9 | 2.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 61.1 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 |
| 2.5° | 3415.2 | 3414.1 | 3405.1 | 3398.4 | 3392.7 | 3390.6 | 3395.0 | 3378.2 | 3363.5 | 3345.6 | 3326.6 |
| 5° | 3389.4 | 3388.2 | 3373.7 | 3360.3 | 3346.7 | 3342.2 | 3341.1 | 3310.9 | 3292.8 | 3266.0 | 3230.0 |
| 7.5° | 3361.4 | 3355.8 | 3336.7 | 3314.3 | 3290.7 | 3279.4 | 3268.3 | 3228.9 | 3208.7 | 3181.8 | 3140.3 |
| 10° | 3332.2 | 3325.5 | 3307.5 | 3285.1 | 3262.6 | 3245.8 | 3226.8 | 3188.5 | 3167.2 | 3147.1 | 3098.8 |
| 12.5° | 3302.0 | 3296.3 | 3291.8 | 3281.7 | 3266.0 | 3251.4 | 3236.8 | 3204.2 | 3181.8 | 3158.2 | 3102.2 |
| 15° | 3297.5 | 3295.2 | 3305.2 | 3311.9 | 3303.0 | 3294.0 | 3278.4 | 3250.3 | 3226.8 | 3203.2 | 3130.3 |
| 17.5° | 3333.3 | 3332.2 | 3358.0 | 3375.9 | 3371.4 | 3355.8 | 3334.4 | 3303.0 | 3283.9 | 3263.7 | 3172.9 |
| 20° | 3411.8 | 3417.4 | 3448.9 | 3472.4 | 3450.0 | 3427.6 | 3392.7 | 3349.1 | 3338.9 | 3329.9 | 3216.6 |
| 22.5° | 3559.8 | 3565.5 | 3588.0 | 3597.0 | 3538.6 | 3506.1 | 3457.8 | 3401.8 | 3395.0 | 3401.8 | 3269.4 |
| 25° | 3791.1 | 3785.4 | 3782.1 | 3748.4 | 3641.8 | 3591.4 | 3529.6 | 3471.2 | 3474.7 | 3504.9 | 3343.5 |
| 27.5° | 4097.3 | 4067.0 | 4019.9 | 3918.9 | 3749.6 | 3693.4 | 3618.2 | 3564.4 | 3585.8 | 3644.2 | 3454.4 |
| 30° | 4414.8 | 4381.2 | 4272.4 | 4107.5 | 3890.9 | 3829.2 | 3745.1 | 3684.4 | 3740.6 | 3832.6 | 3602.6 |
| 32.5° | 4708.8 | 4704.2 | 4544.9 | 4333.0 | 4086.1 | 4032.3 | 3948.1 | 3879.7 | 3970.6 | 4110.8 | 3824.7 |
| 35° | 5029.6 | 5039.8 | 4849.0 | 4594.4 | 4349.8 | 4293.7 | 4233.1 | 4181.5 | 4302.6 | 4495.6 | 4146.7 |
| 37.5° | 5373.1 | 5393.1 | 5167.6 | 4880.5 | 4650.5 | 4626.9 | 4591.0 | 4568.5 | 4755.9 | 5022.9 | 4596.6 |
| 40° | 5831.8 | 5811.7 | 5498.7 | 5203.6 | 5019.6 | 5018.5 | 5007.3 | 5034.1 | 5346.0 | 5711.8 | 5174.4 |
| 42.5° | 6323.3 | 6263.9 | 5849.8 | 5550.3 | 5424.6 | 5462.8 | 5485.2 | 5595.1 | 6056.2 | 6548.8 | 5879.0 |
| 45° | 6852.8 | 6719.3 | 6214.4 | 5917.2 | 5874.6 | 5955.2 | 6031.5 | 6270.5 | 6892.1 | 7501.3 | 6650.9 |
| 47.5° | 7275.8 | 7146.7 | 6591.4 | 6302.0 | 6395.1 | 6517.5 | 6664.4 | 7042.5 | 7827.8 | 8485.3 | 7412.7 |
| 50° | 7609.1 | 7524.9 | 6971.8 | 6750.7 | 6968.4 | 7156.9 | 7397.0 | 7916.5 | 8801.7 | 9443.4 | 8118.4 |
| 52.5° | 7932.1 | 7869.3 | 7355.5 | 7210.8 | 7641.6 | 7901.8 | 8228.4 | 8854.4 | 9800.2 | 10385.8 | 8711.9 |
| 55° | 8223.8 | 8178.9 | 7768.4 | 7784.0 | 8433.6 | 8772.5 | 9183.1 | 9922.5 | 10888.4 | 11226.2 | 9214.5 |
| 57.5° | 8552.6 | 8495.4 | 8239.6 | 8503.2 | 9451.3 | 9891.0 | 10425.1 | 11122.9 | 11909.5 | 11973.4 | 9597.2 |
| 60° | 8883.6 | 8834.1 | 8762.4 | 9333.5 | 10743.8 | 11205.9 | 11711.9 | 12286.4 | 12945.0 | 12553.5 | 9574.7 |
| 62.5° | 9170.7 | 9176.3 | 9303.2 | 10205.3 | 12009.3 | 12544.5 | 13161.5 | 13729.2 | 13881.8 | 12654.4 | 8866.7 |
| 65° | 9657.8 | 9746.4 | 10124.4 | 11439.3 | 13790.9 | 14506.8 | 15264.1 | 15173.2 | 14141.0 | 11710.9 | 7348.8 |
| 67.5° | 10236.6 | 10392.5 | 11158.8 | 13084.2 | 16042.6 | 16993.0 | 17285.8 | 15499.6 | 13103.3 | 9519.6 | 5238.3 |
| 70° | 10178.3 | 10392.5 | 11605.4 | 14310.4 | 17898.5 | 18535.7 | 17647.1 | 14027.7 | 10404.9 | 6218.9 | 2782.4 |
| 72.5° | 9038.4 | 9344.7 | 10695.5 | 13748.3 | 17313.9 | 17257.7 | 15320.2 | 10457.6 | 6181.9 | 2497.4 | 1087.1 |
| 75° | 6888.7 | 7198.4 | 8360.7 | 10861.6 | 13684.4 | 13213.2 | 10870.5 | 5776.9 | 2346.1 | 991.7 | 685.5 |
| 77.5° | 3962.8 | 4202.7 | 5100.3 | 6661.0 | 8681.6 | 8198.0 | 6050.7 | 2569.2 | 1142.1 | 691.1 | 535.2 |
| 80° | 2212.5 | 2346.1 | 2891.2 | 3379.3 | 4254.4 | 3899.9 | 2707.2 | 1596.5 | 852.7 | 501.5 | 412.9 |
| 82.5° | 1749.1 | 1868.0 | 2338.1 | 2131.6 | 1943.1 | 1792.8 | 1555.0 | 1421.5 | 681.0 | 316.5 | 246.8 |
| 85° | 1528.1 | 1641.4 | 1979.1 | 1678.4 | 1327.3 | 1217.2 | 1263.2 | 1399.1 | 529.6 | 190.7 | 211.0 |
| 87.5° | 1415.9 | 1567.4 | 1763.7 | 1293.6 | 1033.3 | 915.5 | 1165.7 | 1533.7 | 170.6 | 118.9 | 85.2 |
| 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° | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 | 3350.1 |
| 2.5° | 3309.8 | 3291.8 | 3262.6 | 3236.8 | 3196.4 | 3175.1 | 3151.6 | 3134.7 | 3121.2 | 3110.1 | 3128.0 |
| 5° | 3207.7 | 3174.0 | 3112.2 | 3046.0 | 2967.6 | 2905.9 | 2854.2 | 2806.0 | 2772.4 | 2749.8 | 2765.6 |
| 7.5° | 3111.1 | 3056.2 | 2959.8 | 2839.6 | 2705.0 | 2590.5 | 2496.3 | 2413.3 | 2356.0 | 2319.0 | 2333.7 |
| 10° | 3056.2 | 2987.7 | 2838.5 | 2650.1 | 2451.4 | 2273.0 | 2125.0 | 1997.0 | 1908.4 | 1858.0 | 1865.8 |
| 12.5° | 3042.8 | 2954.1 | 2747.7 | 2488.5 | 2217.0 | 1969.0 | 1760.3 | 1583.0 | 1458.5 | 1393.5 | 1395.7 |
| 15° | 3052.8 | 2939.5 | 2662.3 | 2333.7 | 1990.3 | 1677.3 | 1417.0 | 1201.7 | 1056.9 | 982.8 | 981.7 |
| 17.5° | 3069.6 | 2928.2 | 2572.6 | 2166.5 | 1760.3 | 1396.8 | 1106.2 | 895.3 | 767.4 | 708.0 | 703.4 |
| 20° | 3087.5 | 2910.3 | 2471.7 | 1985.9 | 1521.3 | 1136.6 | 866.1 | 701.2 | 620.5 | 588.0 | 585.6 |
| 22.5° | 3113.4 | 2894.6 | 2367.3 | 1795.1 | 1286.8 | 925.7 | 712.5 | 601.4 | 558.8 | 541.9 | 539.6 |
| 25° | 3154.9 | 2886.7 | 2256.2 | 1596.5 | 1075.9 | 774.1 | 620.5 | 552.0 | 527.2 | 516.1 | 514.9 |
| 27.5° | 3224.5 | 2898.0 | 2151.9 | 1403.6 | 904.3 | 672.1 | 568.8 | 527.2 | 509.3 | 499.4 | 498.1 |
| 30° | 3314.3 | 2932.7 | 2041.9 | 1220.7 | 770.9 | 602.4 | 537.4 | 510.5 | 495.9 | 485.7 | 485.7 |
| 32.5° | 3463.4 | 2991.1 | 1926.4 | 1062.4 | 675.4 | 554.3 | 513.8 | 495.9 | 483.6 | 475.8 | 474.6 |
| 35° | 3683.3 | 3101.1 | 1818.6 | 931.2 | 606.9 | 519.4 | 493.7 | 480.2 | 471.2 | 466.7 | 466.7 |
| 37.5° | 4003.2 | 3274.9 | 1723.3 | 836.9 | 565.4 | 495.9 | 474.6 | 464.5 | 458.9 | 458.9 | 458.9 |
| 40° | 4432.7 | 3515.1 | 1645.9 | 774.1 | 541.9 | 479.1 | 460.0 | 452.2 | 448.7 | 449.9 | 449.9 |
| 42.5° | 4963.4 | 3827.0 | 1594.3 | 730.4 | 530.7 | 468.9 | 449.9 | 443.1 | 439.8 | 438.6 | 439.8 |
| 45° | 5568.2 | 4181.5 | 1588.6 | 697.8 | 519.4 | 462.2 | 443.1 | 436.5 | 429.7 | 425.2 | 425.2 |
| 47.5° | 6156.1 | 4541.6 | 1634.6 | 686.5 | 507.1 | 454.4 | 437.6 | 430.8 | 420.7 | 410.6 | 410.6 |
| 50° | 6675.5 | 4848.0 | 1696.4 | 691.1 | 502.6 | 443.1 | 428.7 | 425.2 | 409.5 | 398.2 | 397.1 |
| 52.5° | 7088.4 | 5083.5 | 1746.8 | 704.6 | 507.1 | 435.3 | 417.4 | 418.5 | 401.6 | 389.3 | 388.2 |
| 55° | 7419.5 | 5238.3 | 1733.4 | 718.1 | 517.3 | 430.8 | 407.3 | 409.5 | 396.1 | 383.7 | 383.7 |
| 57.5° | 7564.1 | 5181.2 | 1584.1 | 706.8 | 525.1 | 431.9 | 399.5 | 408.4 | 397.1 | 385.9 | 385.9 |
| 60° | 7253.4 | 4672.9 | 1304.8 | 657.4 | 514.9 | 428.7 | 396.1 | 412.9 | 411.8 | 400.6 | 399.5 |
| 62.5° | 6313.2 | 3763.0 | 1012.0 | 584.5 | 480.2 | 411.8 | 387.1 | 411.8 | 424.2 | 420.7 | 419.5 |
| 65° | 4865.9 | 2680.3 | 773.0 | 506.0 | 433.1 | 383.7 | 363.5 | 385.9 | 402.7 | 407.3 | 406.1 |
| 67.5° | 3158.2 | 1642.5 | 595.8 | 431.9 | 380.3 | 351.2 | 333.2 | 343.3 | 346.7 | 346.7 | 344.3 |
| 70° | 1552.8 | 884.1 | 474.6 | 363.5 | 326.4 | 316.5 | 306.3 | 300.7 | 295.1 | 290.6 | 290.6 |
| 72.5° | 766.2 | 577.8 | 390.4 | 307.4 | 281.6 | 277.1 | 274.9 | 268.1 | 263.7 | 258.1 | 255.7 |
| 75° | 566.6 | 470.2 | 332.1 | 259.2 | 242.3 | 237.8 | 242.3 | 236.8 | 235.6 | 231.1 | 228.9 |
| 77.5° | 465.6 | 400.6 | 286.2 | 222.2 | 207.6 | 199.7 | 206.4 | 207.6 | 208.6 | 201.9 | 199.7 |
| 80° | 378.1 | 338.8 | 239.0 | 184.0 | 170.6 | 164.9 | 169.5 | 178.4 | 180.6 | 170.6 | 166.1 |
| 82.5° | 272.6 | 277.1 | 193.0 | 143.5 | 132.4 | 128.0 | 136.9 | 148.0 | 150.3 | 135.8 | 132.4 |
| 85° | 228.9 | 231.1 | 148.0 | 102.0 | 90.9 | 84.1 | 98.8 | 110.0 | 117.8 | 103.2 | 99.9 |
| 87.5° | 95.4 | 135.8 | 85.2 | 57.3 | 50.5 | 43.7 | 52.8 | 58.4 | 70.7 | 65.1 | 63.9 |
| 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)