

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: P193632

Luminaire Tested: **GAN-AF-04-LED-U-SL2-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19194 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

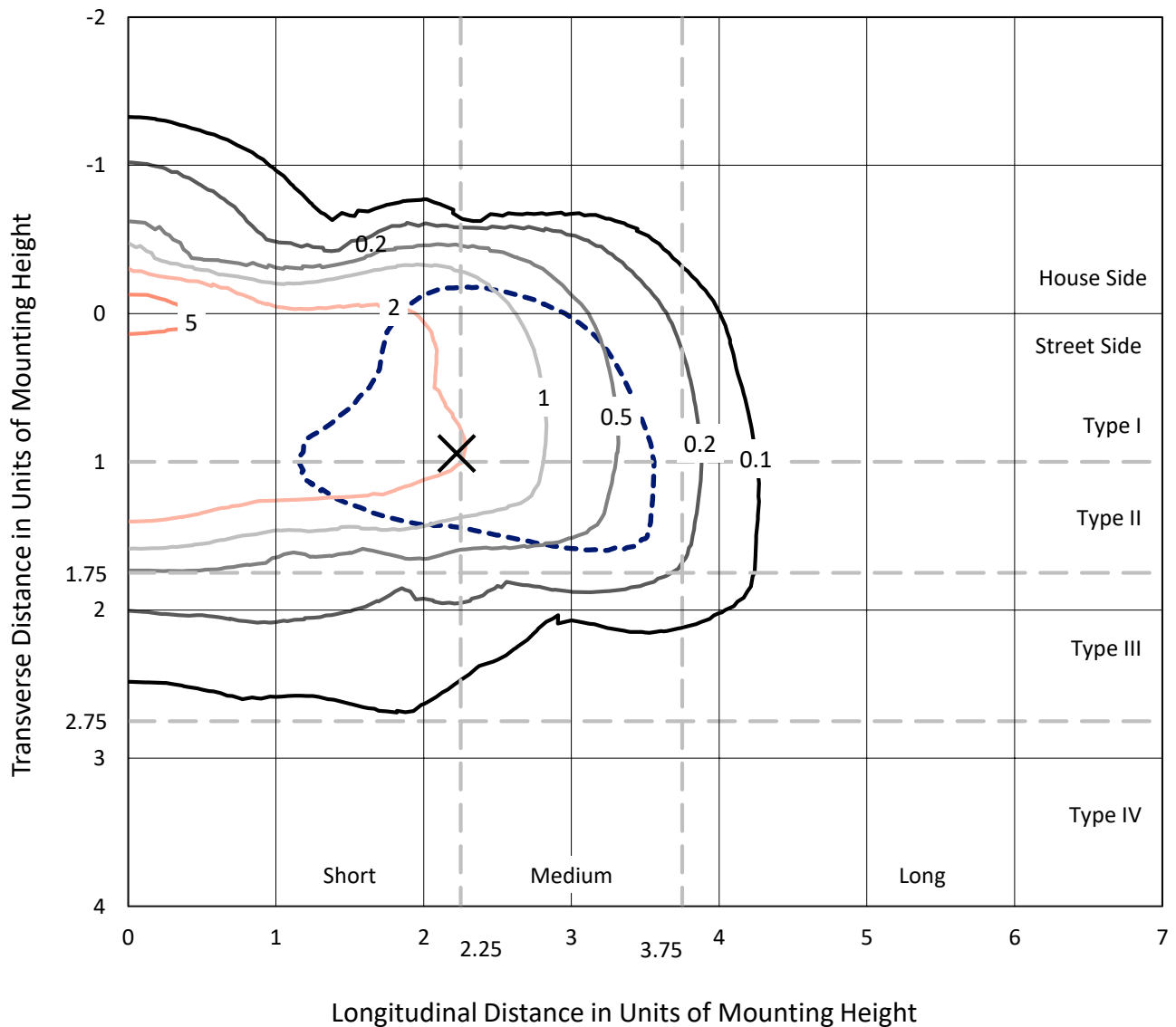
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

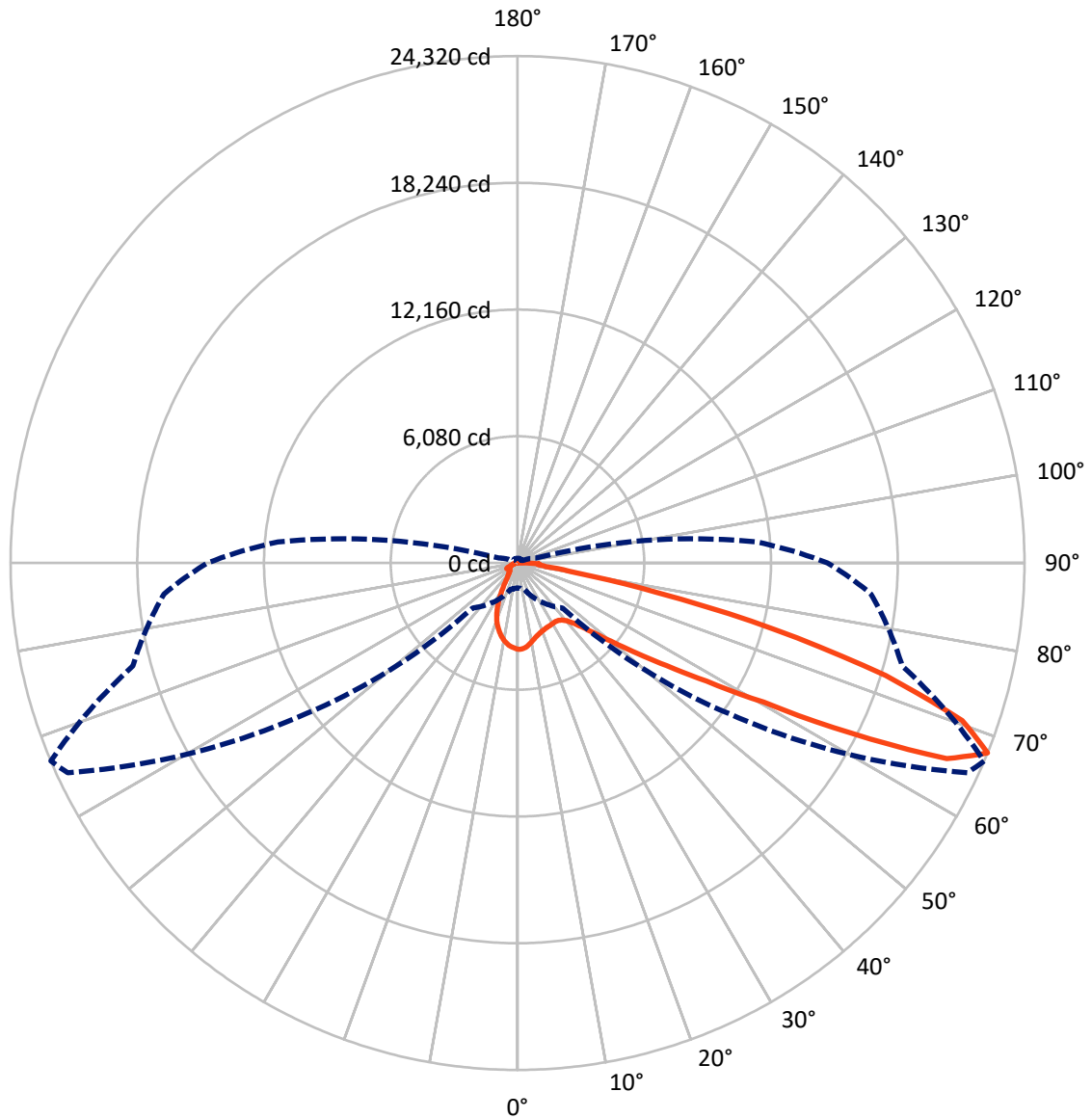
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3180.2 | 0.0 | 3180.2 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 16013.8 | 0.0 | 16013.8 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 19194.0 | 0.0 | 19194.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 353.2 | 1.8 |
| 10°-20° | 817.3 | 4.3 |
| 20°-30° | 1107.8 | 5.8 |
| 30°-40° | 1574.9 | 8.2 |
| 40°-50° | 2634.9 | 13.7 |
| 50°-60° | 4168.4 | 21.7 |
| 60°-70° | 5310.1 | 27.7 |
| 70°-80° | 2781.4 | 14.5 |
| 80°-90° | 446.1 | 2.3 |
| 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° | 19194.0 | 100.0 |
| 0°-180° | 19194.0 | 100.0 |

Coefficient of Utilization



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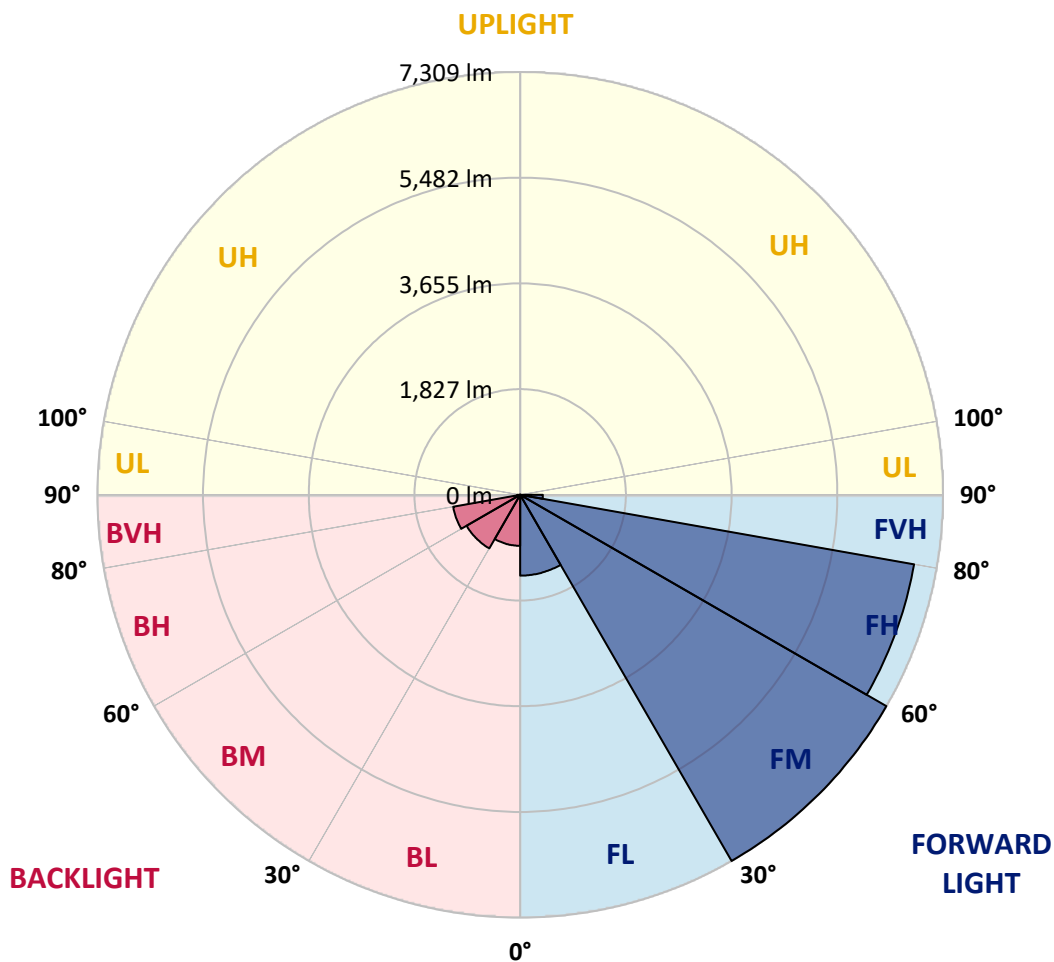
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1396.9 | 7.3 | | | |
| FM (30°-60°) | 7309.5 | 38.1 | | | |
| FH (60°-80°) | 6915.2 | 36.0 | | | G3/7500 |
| FVH (80°-90°) | 392.2 | 2.0 | | | G3/500 |
| BL (0°-30°) | 881.5 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 1068.7 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1176.3 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 53.8 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 |
| 2.5° | 3969.7 | 3976.4 | 3997.2 | 4010.4 | 4070.1 | 4095.6 | 4113.6 | 4131.6 | 4134.4 | 4142.9 | 4134.4 |
| 5° | 3553.3 | 3567.5 | 3606.3 | 3649.8 | 3765.3 | 3856.1 | 3951.7 | 4051.1 | 4069.1 | 4133.5 | 4151.5 |
| 7.5° | 3230.5 | 3226.7 | 3258.9 | 3310.9 | 3429.3 | 3555.1 | 3722.7 | 3920.5 | 3959.3 | 4104.1 | 4174.2 |
| 10° | 2994.8 | 2992.0 | 3026.0 | 3080.0 | 3192.6 | 3311.9 | 3501.2 | 3771.9 | 3826.8 | 4057.8 | 4195.9 |
| 12.5° | 2820.6 | 2821.6 | 2855.7 | 2915.3 | 3029.8 | 3150.0 | 3342.2 | 3628.0 | 3698.1 | 4003.8 | 4218.7 |
| 15° | 2705.2 | 2712.7 | 2740.2 | 2803.6 | 2915.3 | 3035.5 | 3223.9 | 3520.1 | 3598.7 | 3961.2 | 4244.2 |
| 17.5° | 2666.4 | 2678.7 | 2688.1 | 2734.5 | 2830.1 | 2950.3 | 3134.9 | 3440.6 | 3523.9 | 3931.9 | 4266.9 |
| 20° | 2702.3 | 2716.5 | 2698.5 | 2714.6 | 2775.2 | 2881.2 | 3064.8 | 3378.1 | 3463.3 | 3898.7 | 4269.8 |
| 22.5° | 2856.6 | 2869.9 | 2816.9 | 2770.5 | 2766.7 | 2831.1 | 3007.1 | 3328.9 | 3417.0 | 3874.1 | 4270.7 |
| 25° | 3128.3 | 3136.8 | 3047.8 | 2939.9 | 2834.8 | 2813.1 | 2966.4 | 3294.9 | 3388.6 | 3852.4 | 4252.7 |
| 27.5° | 3461.4 | 3468.1 | 3365.8 | 3206.8 | 2995.8 | 2855.7 | 2952.2 | 3275.0 | 3372.5 | 3833.4 | 4222.4 |
| 30° | 3866.6 | 3897.8 | 3760.5 | 3559.9 | 3252.3 | 2981.6 | 2980.6 | 3264.6 | 3354.5 | 3801.2 | 4162.8 |
| 32.5° | 4281.1 | 4294.4 | 4199.7 | 3996.2 | 3597.7 | 3203.0 | 3060.1 | 3272.1 | 3349.8 | 3762.4 | 4087.1 |
| 35° | 4701.4 | 4718.4 | 4656.9 | 4493.2 | 4070.1 | 3527.7 | 3215.3 | 3316.6 | 3379.1 | 3749.2 | 4034.1 |
| 37.5° | 5245.6 | 5268.4 | 5183.2 | 4993.9 | 4644.6 | 3967.8 | 3473.7 | 3428.3 | 3469.0 | 3787.0 | 4018.0 |
| 40° | 6106.0 | 6095.6 | 5846.7 | 5564.6 | 5273.1 | 4531.0 | 3842.9 | 3617.6 | 3641.3 | 3909.1 | 4067.2 |
| 42.5° | 7107.5 | 7081.9 | 6653.1 | 6210.1 | 5964.1 | 5212.5 | 4331.3 | 3946.1 | 3941.3 | 4149.6 | 4240.4 |
| 45° | 7906.3 | 7885.5 | 7499.3 | 6953.2 | 6756.3 | 5988.7 | 4962.6 | 4435.4 | 4400.4 | 4531.0 | 4560.4 |
| 47.5° | 8338.9 | 8339.8 | 8117.4 | 7671.6 | 7666.8 | 6974.9 | 5773.8 | 5143.4 | 5082.8 | 5144.4 | 5113.1 |
| 50° | 8187.4 | 8207.3 | 8183.7 | 8041.7 | 8497.9 | 8267.9 | 6833.0 | 6130.6 | 6008.5 | 6069.1 | 5948.9 |
| 52.5° | 7454.8 | 7480.4 | 7620.5 | 7838.2 | 8847.2 | 9830.6 | 8389.0 | 7357.3 | 7215.4 | 7193.6 | 7060.1 |
| 55° | 6156.2 | 6187.4 | 6473.3 | 7064.9 | 8556.6 | 10880.3 | 10844.3 | 8921.0 | 8694.8 | 8489.4 | 8432.6 |
| 57.5° | 4243.3 | 4295.3 | 4755.3 | 5633.7 | 7616.7 | 11197.4 | 13768.1 | 11150.1 | 10690.0 | 9972.6 | 9985.8 |
| 60° | 2391.9 | 2452.4 | 2994.8 | 3792.7 | 5719.8 | 10852.9 | 15992.5 | 14526.3 | 13555.2 | 11709.5 | 11807.9 |
| 62.5° | 1521.1 | 1586.4 | 1998.1 | 2635.1 | 3432.1 | 8997.7 | 16904.0 | 19220.1 | 17986.8 | 13850.5 | 13947.0 |
| 65° | 1231.4 | 1259.8 | 1453.9 | 2175.1 | 2492.2 | 5420.7 | 16212.1 | 23086.7 | 22626.7 | 16568.0 | 16117.4 |
| 67.5° | 1202.1 | 1211.6 | 1311.9 | 1825.8 | 2390.0 | 3046.9 | 12931.4 | 23809.8 | 24320.0 | 19105.6 | 17021.4 |
| 70° | 1187.9 | 1221.0 | 1478.5 | 1742.6 | 2288.7 | 2569.8 | 7771.0 | 21827.8 | 22633.3 | 19769.1 | 15818.3 |
| 72.5° | 576.4 | 574.5 | 744.0 | 1576.0 | 2578.3 | 2665.4 | 3992.4 | 17661.2 | 18469.5 | 17127.4 | 12998.6 |
| 75° | 464.7 | 425.0 | 406.1 | 577.4 | 2478.9 | 2752.5 | 2544.3 | 12152.4 | 12737.4 | 11483.2 | 7990.6 |
| 77.5° | 441.1 | 393.8 | 360.6 | 361.6 | 1047.8 | 2919.1 | 2155.2 | 6726.0 | 6896.4 | 5187.0 | 2189.3 |
| 80° | 365.4 | 321.8 | 298.2 | 336.0 | 507.3 | 2779.9 | 2330.3 | 3044.0 | 2793.2 | 1274.0 | 728.8 |
| 82.5° | 253.7 | 231.0 | 224.3 | 282.1 | 406.1 | 1981.1 | 2709.9 | 1635.6 | 1371.5 | 638.0 | 449.6 |
| 85° | 161.9 | 138.2 | 153.3 | 205.4 | 316.1 | 914.3 | 2791.3 | 1275.0 | 1013.7 | 405.1 | 253.7 |
| 87.5° | 74.8 | 60.6 | 75.7 | 113.6 | 206.3 | 315.2 | 2655.9 | 1432.1 | 1044.0 | 213.9 | 160.0 |
| 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° | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 | 4140.1 |
| 2.5° | 4142.0 | 4124.0 | 4109.8 | 4083.3 | 4054.0 | 4025.6 | 4000.0 | 3967.8 | 3958.4 | 3949.8 | 3963.1 |
| 5° | 4155.2 | 4137.3 | 4085.2 | 4003.8 | 3913.9 | 3829.6 | 3745.4 | 3673.5 | 3629.0 | 3604.4 | 3618.6 |
| 7.5° | 4175.1 | 4149.6 | 4041.7 | 3892.1 | 3730.3 | 3582.6 | 3430.2 | 3308.1 | 3218.2 | 3175.6 | 3187.9 |
| 10° | 4193.1 | 4143.9 | 3967.8 | 3743.5 | 3506.9 | 3287.3 | 3046.9 | 2848.1 | 2700.4 | 2622.8 | 2641.8 |
| 12.5° | 4200.7 | 4122.1 | 3864.7 | 3558.0 | 3233.3 | 2911.5 | 2557.5 | 2260.3 | 2048.3 | 1970.7 | 1954.6 |
| 15° | 4208.2 | 4097.5 | 3751.1 | 3346.9 | 2903.0 | 2447.7 | 1951.7 | 1595.8 | 1419.8 | 1381.0 | 1372.5 |
| 17.5° | 4210.1 | 4054.9 | 3622.3 | 3117.9 | 2515.9 | 1895.9 | 1334.6 | 1108.4 | 1109.3 | 1171.8 | 1179.4 |
| 20° | 4190.3 | 3991.5 | 3466.2 | 2832.9 | 2052.1 | 1310.9 | 916.2 | 877.4 | 1020.4 | 1176.5 | 1195.5 |
| 22.5° | 4144.8 | 3907.3 | 3289.2 | 2500.7 | 1521.1 | 863.2 | 708.9 | 751.5 | 936.1 | 1127.3 | 1149.1 |
| 25° | 4087.1 | 3805.0 | 3080.0 | 2115.5 | 1007.1 | 617.1 | 594.4 | 646.5 | 771.4 | 899.2 | 911.5 |
| 27.5° | 4008.5 | 3683.9 | 2845.3 | 1674.4 | 654.0 | 508.3 | 523.4 | 558.4 | 609.6 | 666.4 | 672.0 |
| 30° | 3907.3 | 3539.1 | 2594.4 | 1221.0 | 494.1 | 457.2 | 478.9 | 497.9 | 519.6 | 551.8 | 554.7 |
| 32.5° | 3790.8 | 3399.9 | 2337.0 | 843.4 | 438.2 | 430.7 | 447.7 | 457.2 | 474.2 | 494.1 | 496.0 |
| 35° | 3693.3 | 3267.4 | 2070.0 | 596.3 | 414.6 | 410.8 | 422.1 | 425.9 | 442.0 | 463.8 | 465.7 |
| 37.5° | 3637.5 | 3159.5 | 1794.6 | 480.8 | 398.5 | 392.8 | 399.4 | 399.4 | 422.1 | 454.3 | 459.1 |
| 40° | 3641.3 | 3099.9 | 1519.2 | 434.5 | 385.2 | 377.7 | 378.6 | 378.6 | 408.0 | 443.0 | 445.8 |
| 42.5° | 3744.5 | 3115.0 | 1275.0 | 416.5 | 374.8 | 366.3 | 361.6 | 364.4 | 389.0 | 411.7 | 413.6 |
| 45° | 3986.8 | 3222.0 | 1045.9 | 405.1 | 364.4 | 361.6 | 351.2 | 350.2 | 359.7 | 370.1 | 370.1 |
| 47.5° | 4384.3 | 3433.0 | 890.7 | 397.5 | 355.9 | 354.9 | 342.6 | 330.3 | 329.4 | 333.2 | 333.2 |
| 50° | 5030.8 | 3796.5 | 786.6 | 389.0 | 350.2 | 342.6 | 328.4 | 309.5 | 302.9 | 305.7 | 305.7 |
| 52.5° | 6000.0 | 4444.9 | 746.8 | 377.7 | 337.9 | 325.6 | 309.5 | 290.6 | 284.9 | 285.9 | 285.9 |
| 55° | 7271.2 | 5440.6 | 741.1 | 364.4 | 324.7 | 304.8 | 291.5 | 277.3 | 270.7 | 272.6 | 272.6 |
| 57.5° | 8824.4 | 6817.8 | 842.4 | 343.6 | 306.7 | 284.0 | 276.4 | 266.9 | 262.2 | 265.0 | 264.1 |
| 60° | 10712.8 | 8620.0 | 1249.4 | 321.8 | 288.7 | 265.0 | 265.0 | 257.5 | 253.7 | 256.5 | 255.6 |
| 62.5° | 12887.9 | 10690.0 | 1756.7 | 305.7 | 269.8 | 249.9 | 253.7 | 249.9 | 246.1 | 248.0 | 247.0 |
| 65° | 14816.9 | 12038.8 | 1645.1 | 293.4 | 250.8 | 235.7 | 242.3 | 240.4 | 237.6 | 239.5 | 238.5 |
| 67.5° | 14872.7 | 11539.1 | 923.8 | 280.2 | 232.8 | 221.5 | 231.0 | 230.0 | 228.1 | 230.0 | 229.1 |
| 70° | 13273.1 | 9743.5 | 520.6 | 255.6 | 213.9 | 204.4 | 217.7 | 216.8 | 214.9 | 218.6 | 217.7 |
| 72.5° | 10634.2 | 7070.5 | 380.5 | 225.3 | 195.0 | 186.5 | 201.6 | 200.7 | 200.7 | 206.3 | 203.5 |
| 75° | 6119.3 | 3638.4 | 303.8 | 193.1 | 175.1 | 168.5 | 181.7 | 182.7 | 184.6 | 192.1 | 186.5 |
| 77.5° | 1744.4 | 1133.9 | 248.0 | 163.7 | 150.5 | 147.7 | 160.9 | 162.8 | 163.7 | 172.3 | 164.7 |
| 80° | 648.4 | 522.5 | 204.4 | 137.2 | 123.0 | 124.0 | 136.3 | 139.1 | 140.1 | 148.6 | 139.1 |
| 82.5° | 413.6 | 344.5 | 165.6 | 106.0 | 96.5 | 95.6 | 110.7 | 114.5 | 114.5 | 115.5 | 109.8 |
| 85° | 241.4 | 206.3 | 124.9 | 76.7 | 68.1 | 65.3 | 82.3 | 89.0 | 86.1 | 84.2 | 80.5 |
| 87.5° | 161.9 | 142.0 | 76.7 | 42.6 | 36.9 | 35.0 | 48.3 | 53.0 | 51.1 | 48.3 | 45.4 |
| 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)