

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: P192921

Luminaire Tested: **GAN-AF-03-LED-U-SL3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19281 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
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

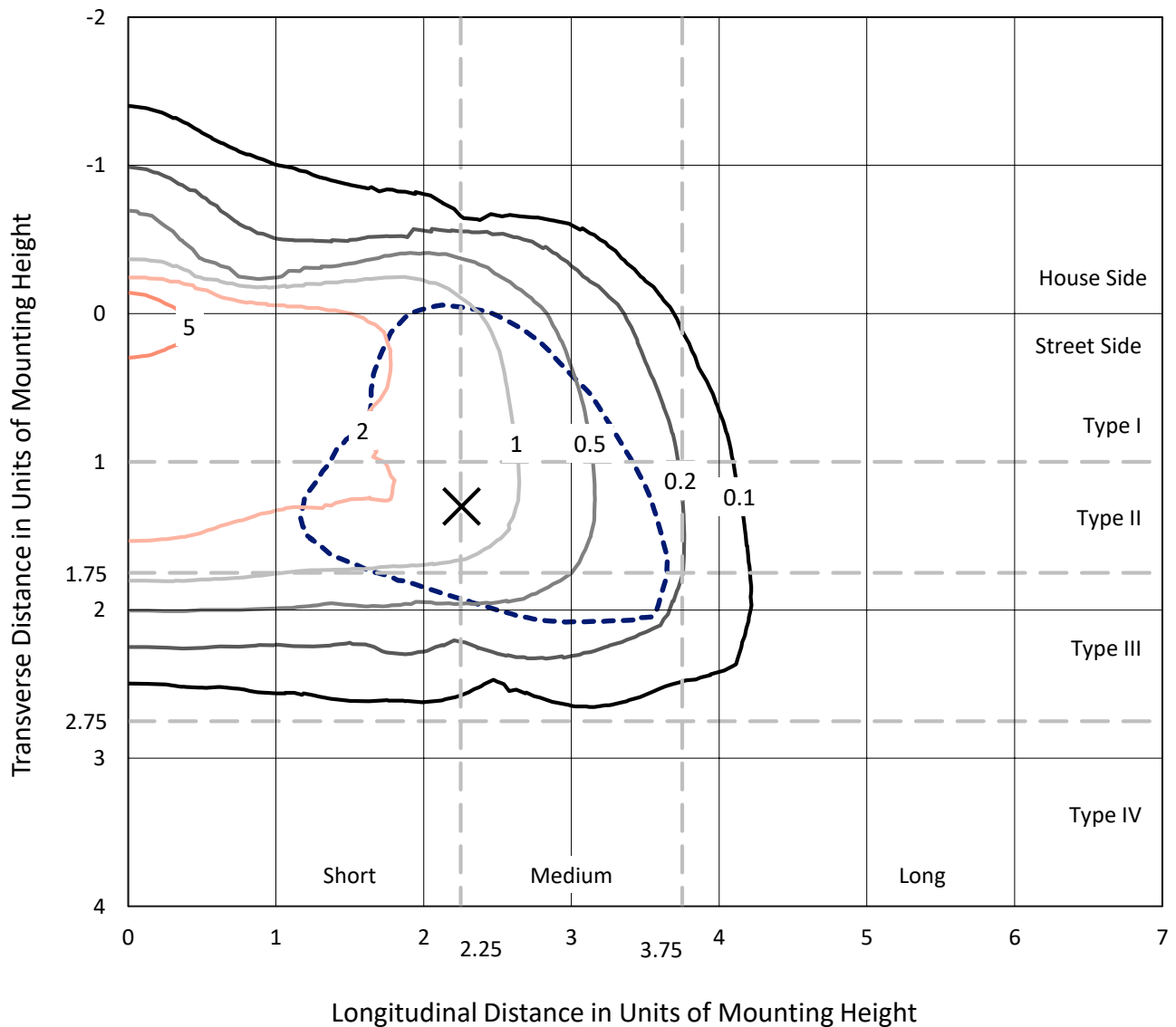


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

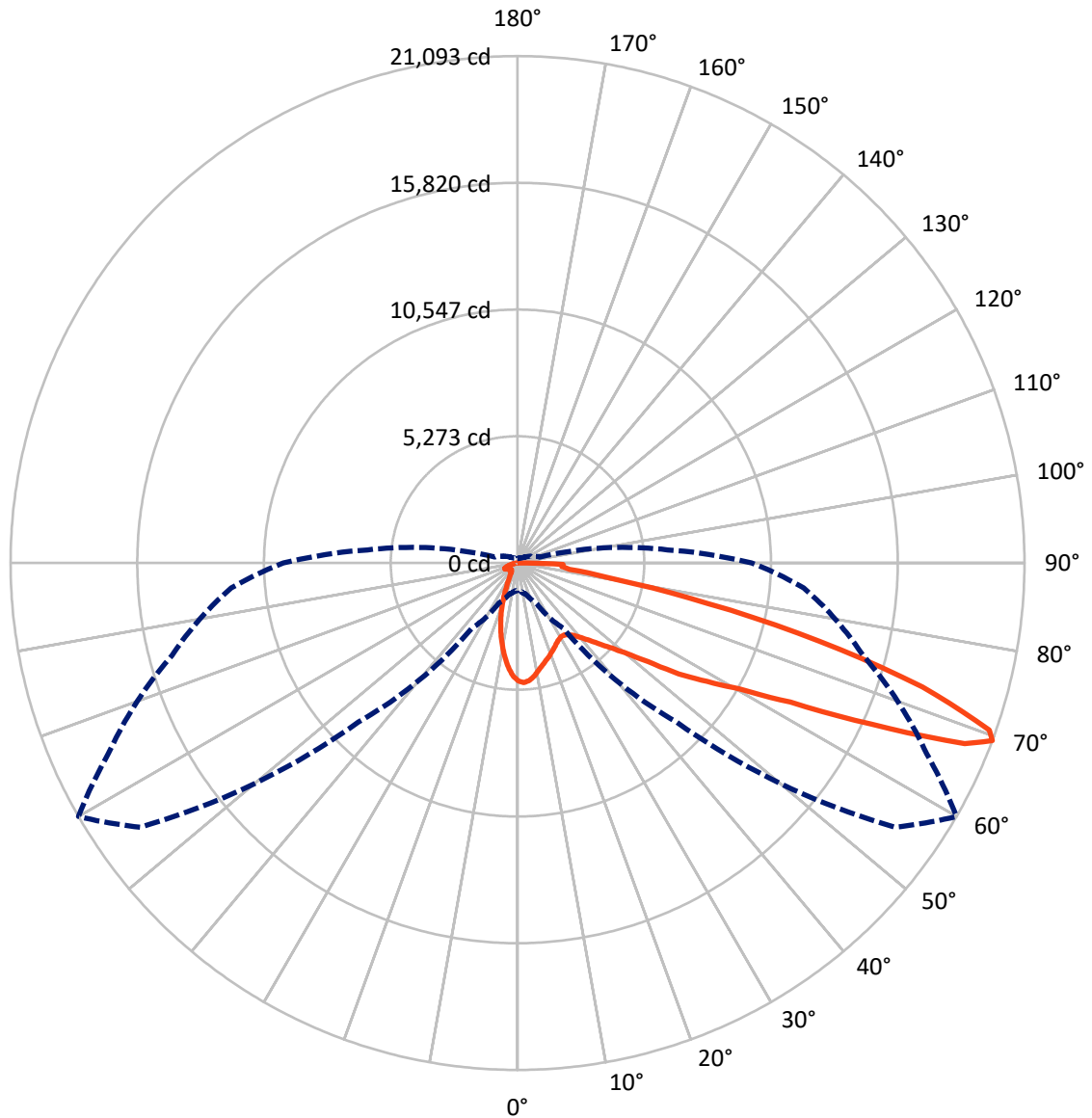


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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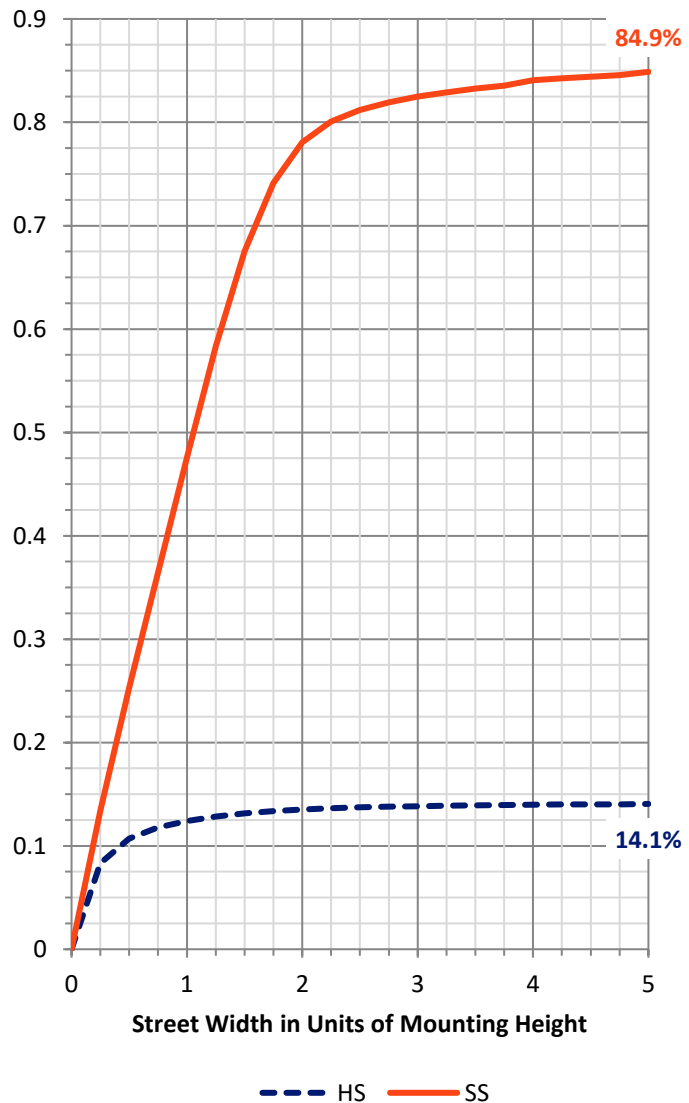
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2743.1 | 0.0 | 2743.1 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 16537.9 | 0.0 | 16537.9 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 19281.0 | 0.0 | 19281.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 415.4 | 2.2 |
| 10°-20° | 885.1 | 4.6 |
| 20°-30° | 1127.7 | 5.8 |
| 30°-40° | 1550.4 | 8.0 |
| 40°-50° | 2515.6 | 13.0 |
| 50°-60° | 4034.4 | 20.9 |
| 60°-70° | 5369.5 | 27.8 |
| 70°-80° | 2899.1 | 15.0 |
| 80°-90° | 483.7 | 2.5 |
| 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° | 19281.0 | 100.0 |
| 0°-180° | 19281.0 | 100.0 |

Coefficient of Utilization



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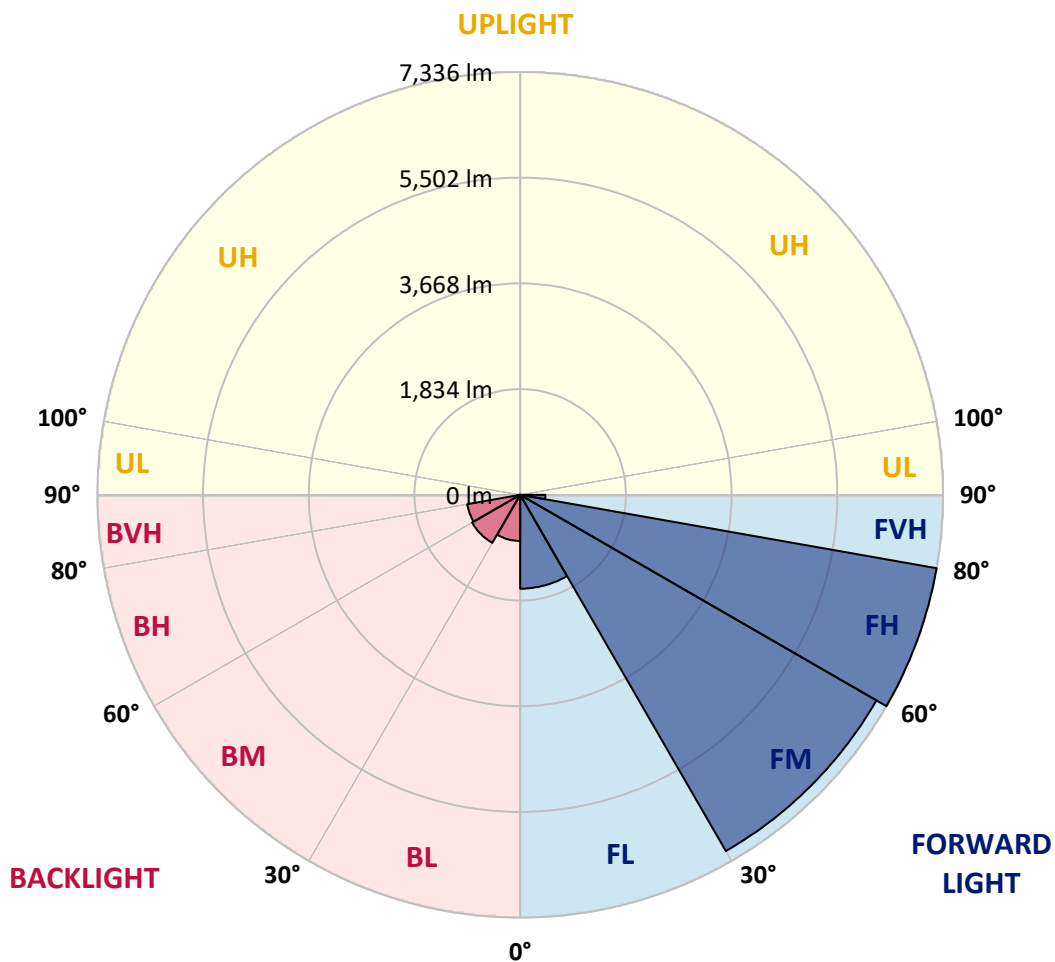
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1628.0 | 8.4 | | | |
| FM (30°-60°) | 7136.7 | 37.0 | | | |
| FH (60°-80°) | 7336.0 | 38.0 | | | G3/7500 |
| FVH (80°-90°) | 437.2 | 2.3 | | | G3/500 |
| BL (0°-30°) | 800.2 | 4.2 | B2/1000 | | |
| BM (30°-60°) | 963.7 | 5.0 | B1/1000 | | |
| BH (60°-80°) | 932.6 | 4.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 46.6 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 |
| 2.5° | 5013.7 | 5024.9 | 5020.3 | 5017.4 | 5025.8 | 5012.7 | 4985.7 | 4977.3 | 4964.3 | 4933.6 | 4881.3 |
| 5° | 4825.6 | 4859.1 | 4857.2 | 4882.4 | 4924.4 | 4935.5 | 4923.3 | 4925.2 | 4901.0 | 4862.8 | 4776.2 |
| 7.5° | 4500.5 | 4514.5 | 4521.9 | 4576.9 | 4653.3 | 4714.6 | 4766.9 | 4783.6 | 4772.5 | 4739.8 | 4628.1 |
| 10° | 4165.2 | 4176.3 | 4194.0 | 4258.3 | 4355.2 | 4440.0 | 4538.6 | 4595.5 | 4619.7 | 4614.1 | 4489.4 |
| 12.5° | 3877.4 | 3888.5 | 3911.8 | 3984.4 | 4100.0 | 4204.3 | 4347.8 | 4418.6 | 4476.3 | 4510.8 | 4376.6 |
| 15° | 3619.4 | 3643.6 | 3665.9 | 3749.8 | 3879.2 | 4016.2 | 4178.2 | 4267.6 | 4357.0 | 4434.4 | 4277.0 |
| 17.5° | 3418.1 | 3442.4 | 3455.5 | 3531.8 | 3669.7 | 3837.3 | 4027.3 | 4132.6 | 4244.4 | 4371.0 | 4178.2 |
| 20° | 3301.9 | 3313.0 | 3307.4 | 3350.2 | 3474.1 | 3652.0 | 3877.4 | 3999.4 | 4134.5 | 4311.4 | 4079.5 |
| 22.5° | 3269.1 | 3270.1 | 3249.6 | 3245.0 | 3325.1 | 3475.0 | 3717.2 | 3865.3 | 4031.0 | 4272.2 | 3994.7 |
| 25° | 3348.4 | 3345.5 | 3289.7 | 3244.0 | 3252.4 | 3339.9 | 3562.6 | 3734.9 | 3944.5 | 4264.0 | 3929.5 |
| 27.5° | 3524.3 | 3532.8 | 3449.9 | 3364.2 | 3279.4 | 3276.6 | 3445.2 | 3626.9 | 3873.7 | 4302.1 | 3901.6 |
| 30° | 3771.2 | 3785.2 | 3696.7 | 3587.7 | 3428.4 | 3297.1 | 3399.6 | 3562.6 | 3829.9 | 4381.3 | 3897.0 |
| 32.5° | 4041.3 | 4056.2 | 3989.2 | 3874.6 | 3665.9 | 3423.7 | 3431.3 | 3568.2 | 3828.0 | 4492.0 | 3928.6 |
| 35° | 4329.1 | 4345.9 | 4311.4 | 4214.5 | 3982.6 | 3657.6 | 3552.3 | 3658.5 | 3888.5 | 4661.6 | 4013.3 |
| 37.5° | 4650.4 | 4676.6 | 4685.8 | 4593.6 | 4345.9 | 3965.9 | 3750.8 | 3829.9 | 4025.4 | 4897.2 | 4168.9 |
| 40° | 5113.4 | 5149.6 | 5146.8 | 5014.6 | 4762.2 | 4382.2 | 4057.2 | 4077.7 | 4238.7 | 5212.1 | 4417.6 |
| 42.5° | 6000.0 | 6007.5 | 5775.6 | 5487.8 | 5220.4 | 4820.0 | 4418.6 | 4401.7 | 4533.0 | 5610.7 | 4783.6 |
| 45° | 7128.0 | 7097.2 | 6581.2 | 6025.2 | 5699.2 | 5322.9 | 4889.0 | 4806.9 | 4906.7 | 6096.8 | 5241.8 |
| 47.5° | 8064.0 | 7993.2 | 7341.2 | 6573.8 | 6205.8 | 5869.6 | 5441.2 | 5297.8 | 5352.7 | 6648.3 | 5834.2 |
| 50° | 8389.0 | 8335.9 | 7795.7 | 7030.2 | 6685.6 | 6536.6 | 6121.1 | 5918.0 | 5933.0 | 7305.8 | 6528.1 |
| 52.5° | 8319.2 | 8311.7 | 7951.3 | 7331.0 | 7134.4 | 7236.9 | 7084.2 | 6809.4 | 6664.0 | 8036.0 | 7277.0 |
| 55° | 8154.3 | 8170.2 | 8039.8 | 7681.2 | 7647.6 | 7913.1 | 8342.5 | 8139.4 | 7687.7 | 8772.8 | 8051.0 |
| 57.5° | 7581.5 | 7622.5 | 7909.4 | 8121.7 | 8473.8 | 8868.7 | 9355.9 | 9298.1 | 8789.6 | 9569.2 | 8971.2 |
| 60° | 6108.0 | 6203.0 | 6972.4 | 8036.0 | 9324.1 | 10559.2 | 10777.2 | 10643.1 | 9925.8 | 10557.2 | 10186.6 |
| 62.5° | 4279.8 | 4378.4 | 5293.1 | 6957.5 | 9184.5 | 12468.5 | 13317.9 | 12739.5 | 11557.7 | 12013.0 | 11759.8 |
| 65° | 2291.2 | 2338.7 | 3037.3 | 4827.4 | 7753.8 | 12862.5 | 17031.5 | 16151.2 | 14141.3 | 13807.8 | 13105.6 |
| 67.5° | 1263.9 | 1290.1 | 1557.3 | 2437.5 | 4966.2 | 11326.7 | 19397.2 | 20062.1 | 17370.5 | 15002.8 | 12860.7 |
| 69° | 1142.9 | 1167.0 | 1342.1 | 1846.1 | 3323.2 | 9365.1 | 19166.1 | 21093.1 | 18786.1 | 14884.6 | 11955.3 |
| 70° | 1117.7 | 1140.0 | 1297.5 | 1701.6 | 2689.9 | 7719.3 | 18392.1 | 20829.6 | 19123.3 | 14460.8 | 11165.5 |
| 72.5° | 1006.0 | 1030.1 | 1182.8 | 1528.4 | 2298.7 | 3848.5 | 14568.8 | 17611.7 | 17362.1 | 12538.4 | 8469.1 |
| 75° | 937.9 | 960.3 | 1219.3 | 1496.8 | 2200.9 | 2435.6 | 9604.6 | 12979.9 | 12762.9 | 8770.9 | 4566.6 |
| 77.5° | 401.4 | 399.6 | 565.3 | 1266.7 | 2233.5 | 2358.3 | 5160.9 | 8108.6 | 7398.1 | 3748.8 | 1311.4 |
| 80° | 268.2 | 263.6 | 268.2 | 372.6 | 2048.2 | 2371.4 | 2703.8 | 4115.8 | 3109.0 | 955.6 | 646.4 |
| 82.5° | 231.0 | 227.3 | 235.7 | 227.3 | 720.0 | 2706.6 | 2298.7 | 2188.8 | 1478.2 | 543.0 | 320.3 |
| 85° | 155.5 | 149.0 | 203.0 | 204.0 | 339.9 | 2404.9 | 2589.2 | 1848.7 | 1196.0 | 322.4 | 158.3 |
| 87.5° | 74.6 | 72.6 | 118.3 | 144.3 | 199.3 | 977.0 | 2904.9 | 1894.4 | 1206.1 | 164.9 | 75.4 |
| 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° | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 | 4913.1 |
| 2.5° | 4865.6 | 4827.4 | 4790.2 | 4745.4 | 4698.9 | 4646.7 | 4620.7 | 4594.6 | 4588.1 | 4580.5 | 4554.5 |
| 5° | 4731.5 | 4677.5 | 4584.3 | 4481.9 | 4373.7 | 4268.5 | 4188.5 | 4138.2 | 4100.0 | 4080.4 | 4046.0 |
| 7.5° | 4558.2 | 4479.1 | 4316.1 | 4139.1 | 3957.5 | 3791.8 | 3648.2 | 3557.9 | 3472.3 | 3432.2 | 3386.5 |
| 10° | 4393.5 | 4275.1 | 4021.8 | 3760.9 | 3500.1 | 3249.6 | 3014.0 | 2847.3 | 2699.1 | 2616.3 | 2557.6 |
| 12.5° | 4251.9 | 4089.7 | 3738.7 | 3385.6 | 3027.9 | 2671.3 | 2318.3 | 2040.6 | 1808.8 | 1686.8 | 1624.3 |
| 15° | 4113.9 | 3918.4 | 3469.4 | 3021.4 | 2562.2 | 2077.0 | 1613.2 | 1298.3 | 1106.5 | 1030.1 | 1004.1 |
| 17.5° | 3989.2 | 3738.7 | 3199.3 | 2654.5 | 2081.6 | 1494.8 | 1084.2 | 910.9 | 837.4 | 812.2 | 803.8 |
| 20° | 3854.1 | 3556.9 | 2919.0 | 2270.7 | 1580.6 | 1045.1 | 846.6 | 770.3 | 740.4 | 733.0 | 729.3 |
| 22.5° | 3723.7 | 3378.2 | 2650.7 | 1860.0 | 1135.3 | 806.6 | 727.4 | 695.8 | 691.1 | 697.6 | 697.6 |
| 25° | 3612.8 | 3217.9 | 2361.1 | 1430.6 | 833.6 | 678.9 | 651.0 | 643.5 | 661.2 | 685.5 | 690.2 |
| 27.5° | 3529.9 | 3086.7 | 2052.8 | 1056.2 | 664.1 | 590.5 | 589.6 | 601.7 | 645.5 | 692.0 | 701.3 |
| 30° | 3473.2 | 2961.8 | 1723.0 | 761.9 | 557.0 | 519.7 | 534.6 | 560.7 | 625.0 | 691.1 | 708.8 |
| 32.5° | 3444.3 | 2869.5 | 1379.4 | 589.6 | 476.9 | 456.3 | 481.5 | 513.2 | 576.6 | 638.0 | 661.2 |
| 35° | 3466.7 | 2801.6 | 1055.2 | 491.7 | 420.9 | 405.2 | 431.2 | 461.9 | 499.2 | 525.3 | 543.0 |
| 37.5° | 3550.5 | 2774.6 | 796.4 | 440.6 | 382.9 | 367.8 | 388.4 | 406.1 | 420.9 | 428.4 | 436.8 |
| 40° | 3731.2 | 2803.5 | 638.0 | 414.4 | 361.4 | 342.7 | 351.2 | 357.6 | 367.0 | 374.4 | 378.1 |
| 42.5° | 3997.6 | 2890.1 | 571.9 | 404.3 | 350.1 | 323.2 | 321.3 | 324.2 | 336.2 | 350.1 | 353.0 |
| 45° | 4370.1 | 3042.9 | 567.2 | 410.7 | 344.6 | 307.3 | 299.0 | 302.6 | 321.3 | 342.7 | 346.5 |
| 47.5° | 4845.9 | 3275.7 | 604.4 | 430.3 | 349.3 | 299.0 | 285.0 | 289.6 | 312.9 | 341.9 | 346.5 |
| 50° | 5422.5 | 3600.7 | 666.9 | 459.2 | 369.8 | 300.8 | 280.4 | 283.1 | 307.3 | 339.0 | 343.7 |
| 52.5° | 6103.4 | 4061.8 | 734.9 | 487.1 | 391.1 | 312.9 | 284.1 | 277.5 | 299.9 | 327.9 | 333.5 |
| 55° | 6860.6 | 4653.3 | 804.7 | 512.3 | 402.4 | 327.9 | 291.5 | 270.1 | 285.9 | 309.2 | 313.9 |
| 57.5° | 7790.1 | 5480.3 | 925.8 | 536.5 | 409.8 | 338.0 | 299.0 | 262.7 | 268.2 | 285.0 | 288.8 |
| 60° | 9048.5 | 6650.2 | 1139.1 | 576.6 | 426.5 | 341.9 | 298.1 | 256.1 | 250.5 | 259.8 | 261.6 |
| 62.5° | 10556.4 | 7920.5 | 1317.0 | 626.8 | 454.5 | 344.6 | 292.5 | 251.6 | 235.7 | 235.7 | 237.5 |
| 65° | 11451.5 | 8260.5 | 1218.2 | 668.7 | 477.8 | 341.9 | 285.9 | 246.8 | 224.4 | 214.2 | 215.1 |
| 67.5° | 10692.3 | 7264.8 | 1044.1 | 677.1 | 476.9 | 328.8 | 275.7 | 238.4 | 213.3 | 197.4 | 196.5 |
| 69° | 9741.4 | 6268.3 | 965.9 | 654.8 | 454.5 | 312.1 | 262.7 | 229.1 | 204.9 | 188.2 | 187.2 |
| 70° | 8974.9 | 5660.0 | 914.6 | 630.5 | 430.3 | 299.9 | 252.4 | 220.7 | 198.5 | 182.6 | 180.8 |
| 72.5° | 6525.3 | 3708.8 | 781.4 | 542.0 | 354.9 | 251.6 | 218.0 | 193.7 | 177.0 | 167.6 | 165.7 |
| 75° | 3260.9 | 1768.7 | 634.2 | 439.7 | 271.9 | 201.1 | 178.8 | 162.0 | 153.7 | 151.9 | 150.9 |
| 77.5° | 1071.1 | 810.2 | 453.5 | 327.9 | 202.1 | 157.5 | 144.3 | 132.2 | 130.3 | 136.0 | 134.2 |
| 80° | 588.7 | 471.2 | 287.8 | 217.0 | 137.8 | 115.5 | 113.6 | 107.1 | 110.0 | 119.2 | 117.4 |
| 82.5° | 299.9 | 245.0 | 177.9 | 130.3 | 93.1 | 82.9 | 90.3 | 86.7 | 90.3 | 98.8 | 97.8 |
| 85° | 148.0 | 134.2 | 112.6 | 79.2 | 61.5 | 53.1 | 64.3 | 67.0 | 69.0 | 75.4 | 75.4 |
| 87.5° | 85.7 | 79.2 | 59.6 | 37.2 | 30.7 | 28.0 | 37.2 | 36.3 | 42.8 | 46.6 | 45.7 |
| 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)