

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: P191874

Luminaire Tested: **GAN-AF-06-LED-U-SL2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191874
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-06-LED-U-SL2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA 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: 22979 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

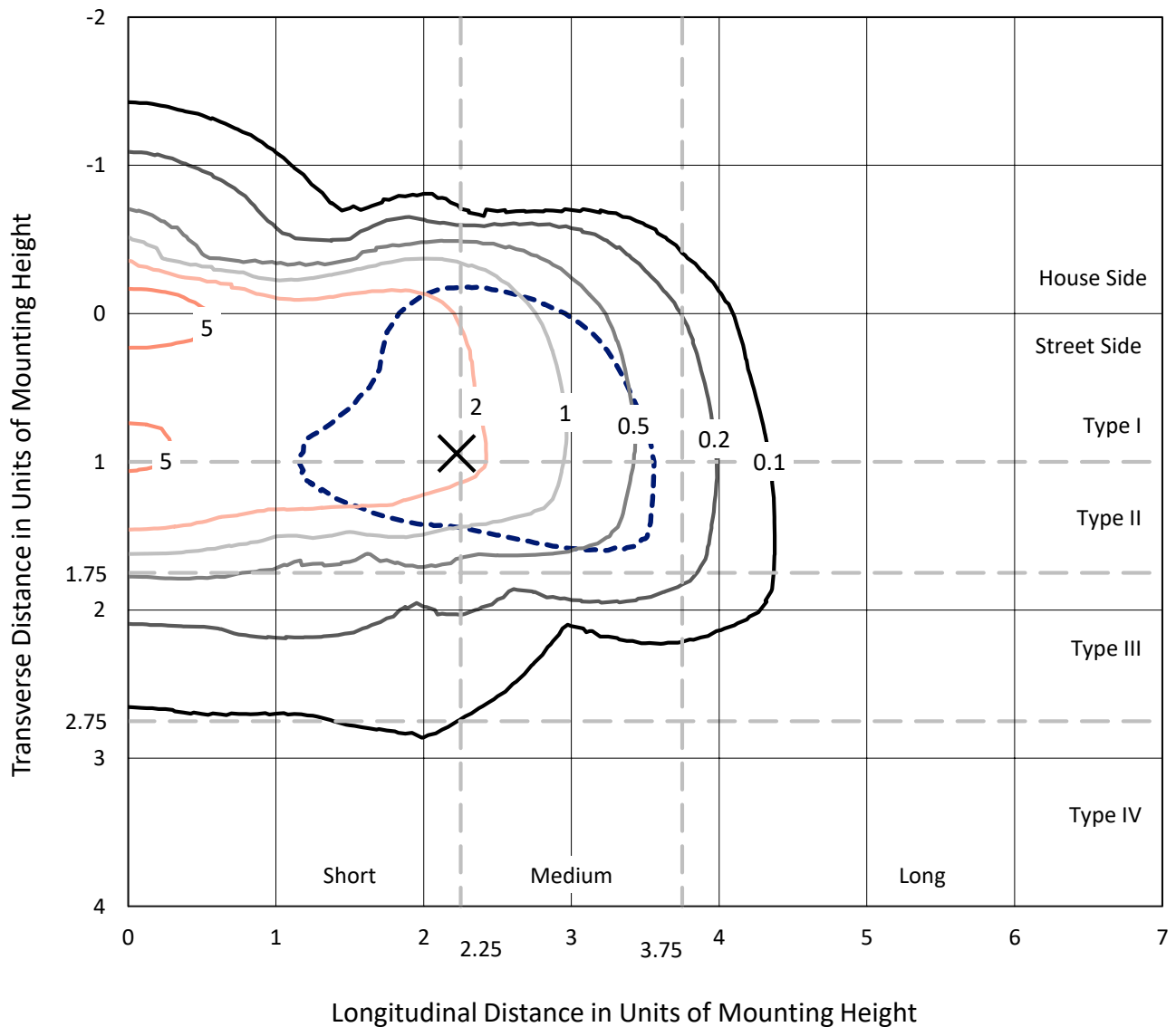
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

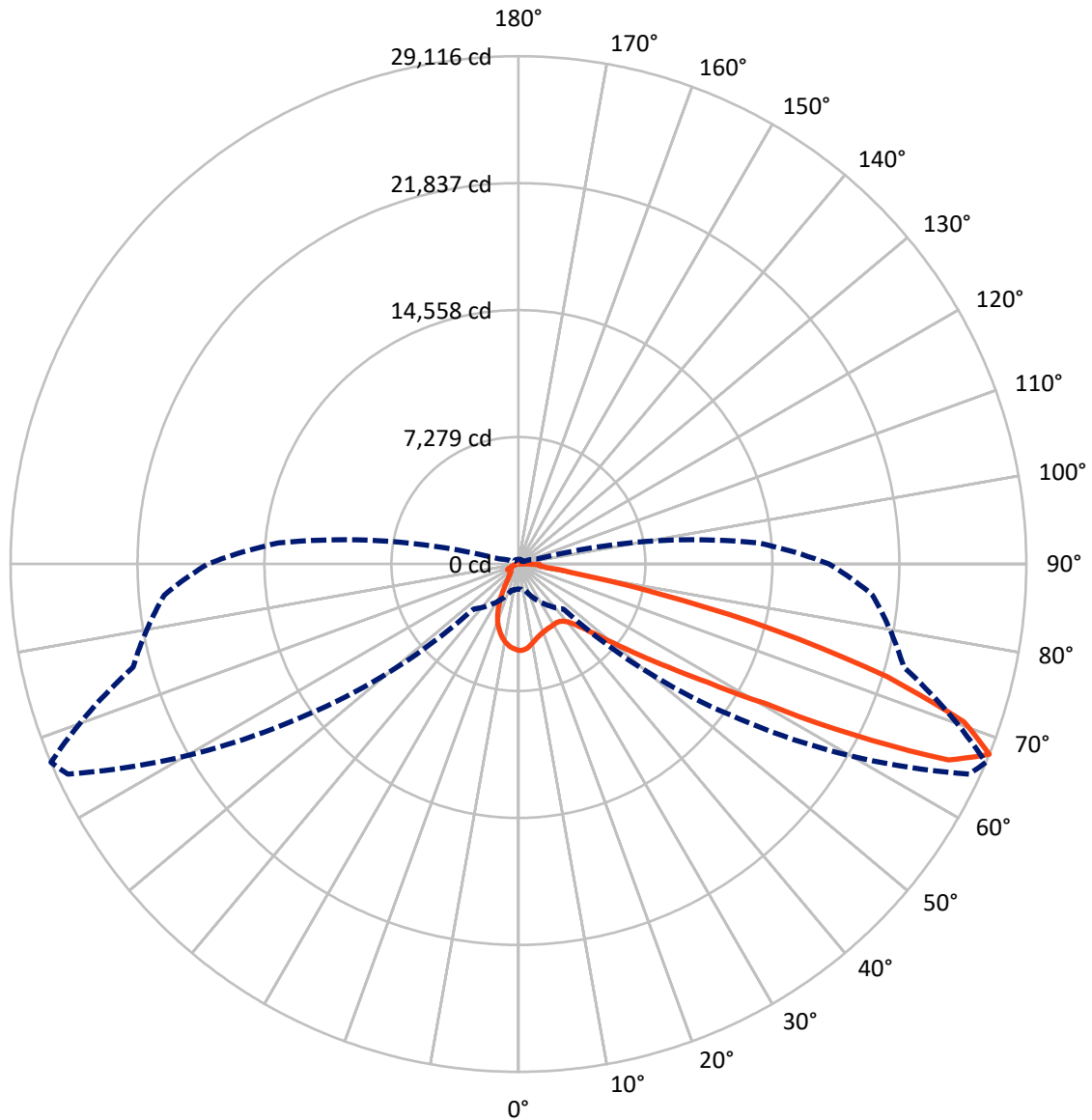
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type 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 | 3807.4 | 0.0 | 3807.4 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 19171.6 | 0.0 | 19171.6 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 22979.0 | 0.0 | 22979.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 422.9 | 1.8 |
| 10°-20° | 978.4 | 4.3 |
| 20°-30° | 1326.3 | 5.8 |
| 30°-40° | 1885.5 | 8.2 |
| 40°-50° | 3154.5 | 13.7 |
| 50°-60° | 4990.3 | 21.7 |
| 60°-70° | 6357.2 | 27.7 |
| 70°-80° | 3329.9 | 14.5 |
| 80°-90° | 534.1 | 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° | 22979.0 | 100.0 |
| 0°-180° | 22979.0 | 100.0 |

Coefficient of Utilization



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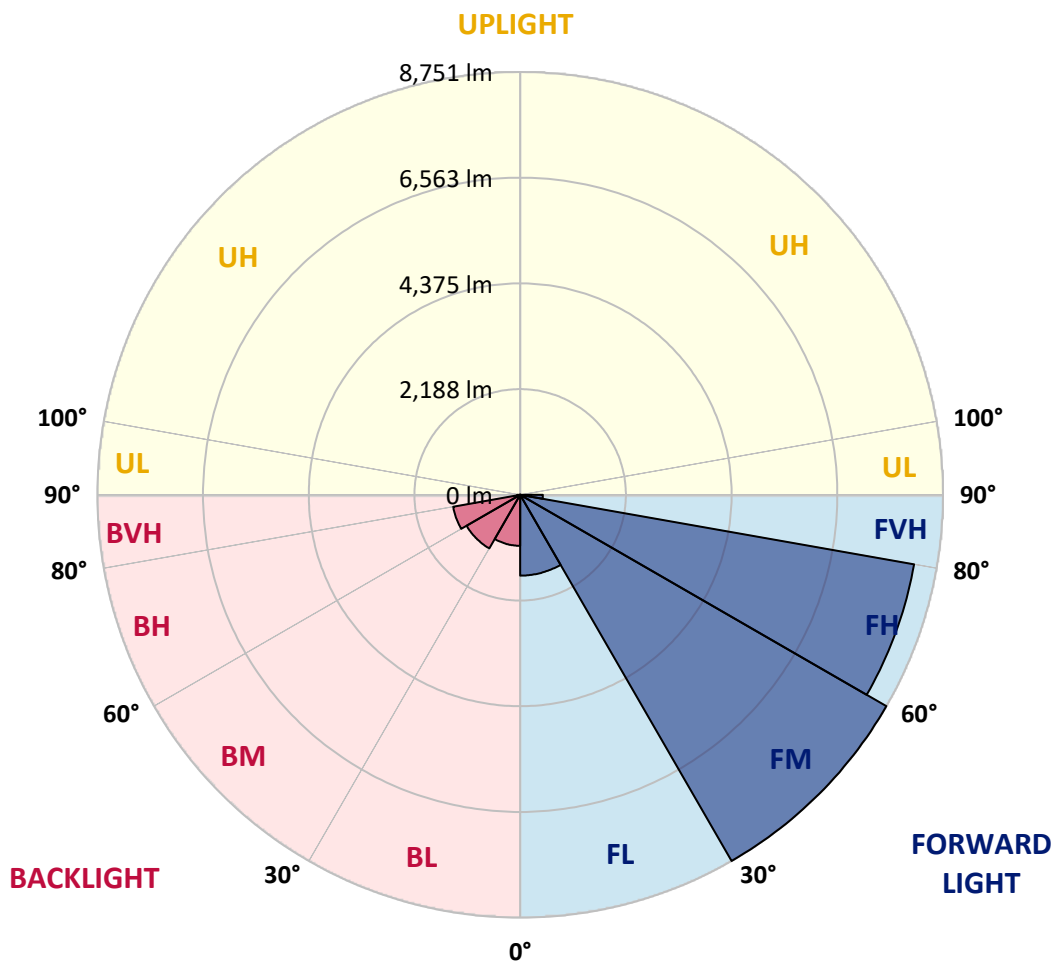
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1672.3 | 7.3 | | | |
| FM | (30°-60°) | 8750.9 | 38.1 | | | |
| FH | (60°-80°) | 8278.9 | 36.0 | | | G4/12000 |
| FVH | (80°-90°) | 469.6 | 2.0 | | | G3/500 |
| BL | (0°-30°) | 1055.3 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 1279.4 | 5.6 | B2/2500 | | |
| BH | (60°-80°) | 1408.2 | 6.1 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 64.5 | 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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 |
| 2.5° | 4752.5 | 4760.5 | 4785.4 | 4801.3 | 4872.7 | 4903.3 | 4924.8 | 4946.3 | 4949.7 | 4959.9 | 4949.7 |
| 5° | 4253.9 | 4270.9 | 4317.4 | 4369.5 | 4507.8 | 4616.6 | 4731.0 | 4850.0 | 4871.5 | 4948.6 | 4970.1 |
| 7.5° | 3867.5 | 3863.0 | 3901.5 | 3963.9 | 4105.5 | 4256.2 | 4456.8 | 4693.6 | 4740.1 | 4913.5 | 4997.3 |
| 10° | 3585.4 | 3582.0 | 3622.8 | 3687.4 | 3822.2 | 3965.0 | 4191.6 | 4515.7 | 4581.4 | 4857.9 | 5023.4 |
| 12.5° | 3376.9 | 3378.0 | 3418.8 | 3490.2 | 3627.3 | 3771.2 | 4001.2 | 4343.5 | 4427.3 | 4793.3 | 5050.6 |
| 15° | 3238.6 | 3247.7 | 3280.5 | 3356.5 | 3490.2 | 3634.1 | 3859.6 | 4214.3 | 4308.3 | 4742.3 | 5081.2 |
| 17.5° | 3192.2 | 3206.9 | 3218.2 | 3273.7 | 3388.2 | 3532.1 | 3753.1 | 4119.1 | 4218.8 | 4707.2 | 5108.4 |
| 20° | 3235.2 | 3252.2 | 3230.7 | 3250.0 | 3322.5 | 3449.4 | 3669.2 | 4044.3 | 4146.3 | 4667.6 | 5111.8 |
| 22.5° | 3419.9 | 3435.8 | 3372.3 | 3316.8 | 3312.3 | 3389.3 | 3600.1 | 3985.4 | 4090.8 | 4638.1 | 5112.9 |
| 25° | 3745.1 | 3755.3 | 3648.8 | 3519.6 | 3393.9 | 3367.8 | 3551.4 | 3944.6 | 4056.8 | 4612.0 | 5091.4 |
| 27.5° | 4144.0 | 4152.0 | 4029.6 | 3839.2 | 3586.5 | 3418.8 | 3534.4 | 3920.8 | 4037.5 | 4589.4 | 5055.1 |
| 30° | 4629.0 | 4666.4 | 4502.1 | 4261.9 | 3893.6 | 3569.5 | 3568.4 | 3908.3 | 4016.0 | 4550.8 | 4983.7 |
| 32.5° | 5125.4 | 5141.2 | 5027.9 | 4784.3 | 4307.2 | 3834.7 | 3663.6 | 3917.4 | 4010.3 | 4504.4 | 4893.1 |
| 35° | 5628.5 | 5648.9 | 5575.2 | 5379.2 | 4872.7 | 4223.3 | 3849.4 | 3970.7 | 4045.4 | 4488.5 | 4829.6 |
| 37.5° | 6280.1 | 6307.3 | 6205.3 | 5978.6 | 5560.5 | 4750.3 | 4158.8 | 4104.4 | 4153.1 | 4533.8 | 4810.3 |
| 40° | 7310.1 | 7297.7 | 6999.6 | 6661.9 | 6312.9 | 5424.5 | 4600.7 | 4331.0 | 4359.3 | 4680.0 | 4869.3 |
| 42.5° | 8509.0 | 8478.4 | 7965.1 | 7434.8 | 7140.1 | 6240.4 | 5185.4 | 4724.2 | 4718.5 | 4967.8 | 5076.6 |
| 45° | 9465.4 | 9440.5 | 8978.2 | 8324.3 | 8088.6 | 7169.6 | 5941.2 | 5310.1 | 5268.1 | 5424.5 | 5459.6 |
| 47.5° | 9983.3 | 9984.4 | 9718.1 | 9184.4 | 9178.7 | 8350.4 | 6912.4 | 6157.7 | 6085.2 | 6158.8 | 6121.4 |
| 50° | 9802.0 | 9825.8 | 9797.4 | 9627.5 | 10173.7 | 9898.3 | 8180.4 | 7339.6 | 7193.4 | 7265.9 | 7122.0 |
| 52.5° | 8924.9 | 8955.5 | 9123.2 | 9383.8 | 10591.8 | 11769.2 | 10043.3 | 8808.2 | 8638.2 | 8612.1 | 8452.4 |
| 55° | 7370.2 | 7407.6 | 7749.8 | 8458.0 | 10243.9 | 13025.9 | 12982.8 | 10680.2 | 10409.4 | 10163.5 | 10095.5 |
| 57.5° | 5080.0 | 5142.4 | 5693.1 | 6744.7 | 9118.7 | 13405.5 | 16483.2 | 13348.8 | 12798.1 | 11939.1 | 11955.0 |
| 60° | 2863.5 | 2936.1 | 3585.4 | 4540.6 | 6847.8 | 12993.0 | 19146.2 | 17390.9 | 16228.2 | 14018.5 | 14136.4 |
| 62.5° | 1821.0 | 1899.2 | 2392.1 | 3154.8 | 4108.9 | 10772.0 | 20237.4 | 23010.3 | 21533.8 | 16581.8 | 16697.4 |
| 65° | 1474.3 | 1508.3 | 1740.6 | 2604.0 | 2983.7 | 6489.7 | 19409.0 | 27639.3 | 27088.6 | 19835.1 | 19295.7 |
| 67.5° | 1439.1 | 1450.5 | 1570.6 | 2185.9 | 2861.3 | 3647.7 | 15481.5 | 28505.1 | 29115.8 | 22873.2 | 20377.9 |
| 70° | 1422.1 | 1461.8 | 1770.0 | 2086.2 | 2740.0 | 3076.6 | 9303.4 | 26132.2 | 27096.5 | 23667.5 | 18937.6 |
| 72.5° | 690.1 | 687.8 | 890.7 | 1886.7 | 3086.8 | 3191.0 | 4779.7 | 21143.9 | 22111.7 | 20504.8 | 15561.9 |
| 75° | 556.4 | 508.8 | 486.1 | 691.2 | 2967.8 | 3295.3 | 3046.0 | 14548.9 | 15249.2 | 13747.7 | 9566.3 |
| 77.5° | 528.1 | 471.4 | 431.7 | 432.9 | 1254.4 | 3494.7 | 2580.2 | 8052.4 | 8256.3 | 6209.8 | 2621.0 |
| 80° | 437.4 | 385.3 | 357.0 | 402.3 | 607.4 | 3328.1 | 2789.9 | 3644.3 | 3344.0 | 1525.3 | 872.5 |
| 82.5° | 303.7 | 276.5 | 268.6 | 337.7 | 486.1 | 2371.7 | 3244.3 | 1958.1 | 1642.0 | 763.8 | 538.3 |
| 85° | 193.8 | 165.4 | 183.6 | 245.9 | 378.5 | 1094.6 | 3341.7 | 1526.4 | 1213.6 | 485.0 | 303.7 |
| 87.5° | 89.5 | 72.5 | 90.7 | 136.0 | 247.0 | 377.3 | 3179.7 | 1714.5 | 1249.9 | 256.1 | 191.5 |
| 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° | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 | 4956.5 |
| 2.5° | 4958.8 | 4937.3 | 4920.3 | 4888.5 | 4853.4 | 4819.4 | 4788.8 | 4750.3 | 4738.9 | 4728.7 | 4744.6 |
| 5° | 4974.6 | 4953.1 | 4890.8 | 4793.3 | 4685.7 | 4584.8 | 4484.0 | 4397.9 | 4344.6 | 4315.1 | 4332.1 |
| 7.5° | 4998.4 | 4967.8 | 4838.7 | 4659.6 | 4465.8 | 4289.1 | 4106.6 | 3960.5 | 3852.8 | 3801.8 | 3816.5 |
| 10° | 5020.0 | 4961.0 | 4750.3 | 4481.7 | 4198.4 | 3935.5 | 3647.7 | 3409.7 | 3233.0 | 3140.0 | 3162.7 |
| 12.5° | 5029.0 | 4935.0 | 4626.8 | 4259.6 | 3870.9 | 3485.7 | 3061.8 | 2706.0 | 2452.2 | 2359.3 | 2340.0 |
| 15° | 5038.1 | 4905.5 | 4490.8 | 4006.9 | 3475.5 | 2930.4 | 2336.6 | 1910.5 | 1699.8 | 1653.3 | 1643.1 |
| 17.5° | 5040.4 | 4854.5 | 4336.7 | 3732.7 | 3012.0 | 2269.8 | 1597.8 | 1326.9 | 1328.1 | 1402.9 | 1411.9 |
| 20° | 5016.6 | 4778.6 | 4149.7 | 3391.6 | 2456.7 | 1569.4 | 1096.9 | 1050.5 | 1221.6 | 1408.5 | 1431.2 |
| 22.5° | 4962.2 | 4677.8 | 3937.8 | 2993.9 | 1821.0 | 1033.5 | 848.7 | 899.7 | 1120.7 | 1349.6 | 1375.7 |
| 25° | 4893.1 | 4555.4 | 3687.4 | 2532.6 | 1205.7 | 738.8 | 711.6 | 774.0 | 923.5 | 1076.5 | 1091.2 |
| 27.5° | 4799.0 | 4410.3 | 3406.3 | 2004.6 | 783.0 | 608.5 | 626.6 | 668.6 | 729.8 | 797.8 | 804.6 |
| 30° | 4677.8 | 4236.9 | 3106.0 | 1461.8 | 591.5 | 547.3 | 573.4 | 596.1 | 622.1 | 660.6 | 664.0 |
| 32.5° | 4538.4 | 4070.4 | 2797.8 | 1009.7 | 524.7 | 515.6 | 536.0 | 547.3 | 567.7 | 591.5 | 593.8 |
| 35° | 4421.7 | 3911.7 | 2478.3 | 713.9 | 496.3 | 491.8 | 505.4 | 509.9 | 529.2 | 555.3 | 557.5 |
| 37.5° | 4354.8 | 3782.5 | 2148.5 | 575.7 | 477.1 | 470.3 | 478.2 | 478.2 | 505.4 | 543.9 | 549.6 |
| 40° | 4359.3 | 3711.2 | 1818.7 | 520.1 | 461.2 | 452.1 | 453.3 | 453.3 | 488.4 | 530.3 | 533.7 |
| 42.5° | 4482.8 | 3729.3 | 1526.4 | 498.6 | 448.7 | 438.5 | 432.9 | 436.3 | 465.7 | 492.9 | 495.2 |
| 45° | 4772.9 | 3857.3 | 1252.2 | 485.0 | 436.3 | 432.9 | 420.4 | 419.3 | 430.6 | 443.1 | 443.1 |
| 47.5° | 5248.9 | 4110.0 | 1066.3 | 475.9 | 426.1 | 424.9 | 410.2 | 395.5 | 394.3 | 398.9 | 398.9 |
| 50° | 6022.8 | 4545.2 | 941.7 | 465.7 | 419.3 | 410.2 | 393.2 | 370.5 | 362.6 | 366.0 | 366.0 |
| 52.5° | 7183.2 | 5321.4 | 894.1 | 452.1 | 404.5 | 389.8 | 370.5 | 347.9 | 341.1 | 342.2 | 342.2 |
| 55° | 8705.1 | 6513.5 | 887.3 | 436.3 | 388.7 | 364.9 | 349.0 | 332.0 | 324.1 | 326.4 | 326.4 |
| 57.5° | 10564.6 | 8162.3 | 1008.5 | 411.3 | 367.1 | 340.0 | 330.9 | 319.6 | 313.9 | 317.3 | 316.2 |
| 60° | 12825.3 | 10319.8 | 1495.8 | 385.3 | 345.6 | 317.3 | 317.3 | 308.2 | 303.7 | 307.1 | 306.0 |
| 62.5° | 15429.3 | 12798.1 | 2103.2 | 366.0 | 323.0 | 299.2 | 303.7 | 299.2 | 294.6 | 296.9 | 295.8 |
| 65° | 17738.7 | 14412.9 | 1969.5 | 351.3 | 300.3 | 282.2 | 290.1 | 287.8 | 284.4 | 286.7 | 285.6 |
| 67.5° | 17805.6 | 13814.6 | 1106.0 | 335.4 | 278.8 | 265.2 | 276.5 | 275.4 | 273.1 | 275.4 | 274.2 |
| 70° | 15890.5 | 11664.9 | 623.2 | 306.0 | 256.1 | 244.8 | 260.6 | 259.5 | 257.2 | 261.8 | 260.6 |
| 72.5° | 12731.2 | 8464.8 | 455.5 | 269.7 | 233.4 | 223.2 | 241.4 | 240.2 | 240.2 | 247.0 | 243.6 |
| 75° | 7326.0 | 4355.9 | 363.7 | 231.2 | 209.6 | 201.7 | 217.6 | 218.7 | 221.0 | 230.0 | 223.2 |
| 77.5° | 2088.4 | 1357.5 | 296.9 | 196.0 | 180.2 | 176.8 | 192.6 | 194.9 | 196.0 | 206.2 | 197.2 |
| 80° | 776.2 | 625.5 | 244.8 | 164.3 | 147.3 | 148.4 | 163.2 | 166.6 | 167.7 | 177.9 | 166.6 |
| 82.5° | 495.2 | 412.5 | 198.3 | 126.9 | 115.6 | 114.5 | 132.6 | 137.1 | 137.1 | 138.2 | 131.4 |
| 85° | 289.0 | 247.0 | 149.6 | 91.8 | 81.6 | 78.2 | 98.6 | 106.5 | 103.1 | 100.9 | 96.3 |
| 87.5° | 193.8 | 170.0 | 91.8 | 51.0 | 44.2 | 41.9 | 57.8 | 63.5 | 61.2 | 57.8 | 54.4 |
| 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)