

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: P193616

Luminaire Tested: **GAN-AF-08-LED-U-SL2-8030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193616
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-08-LED-U-SL2-8030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 25125 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

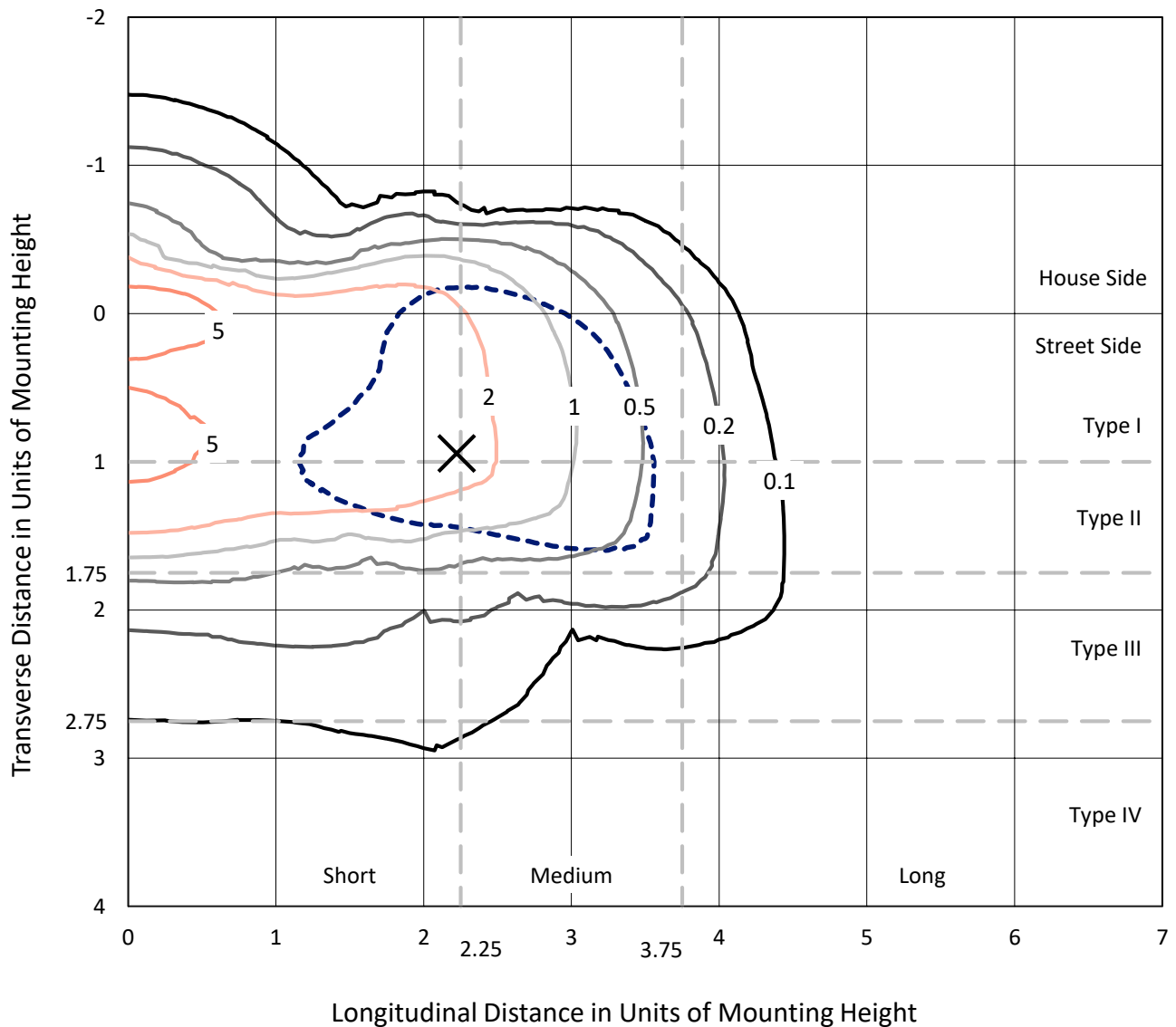


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

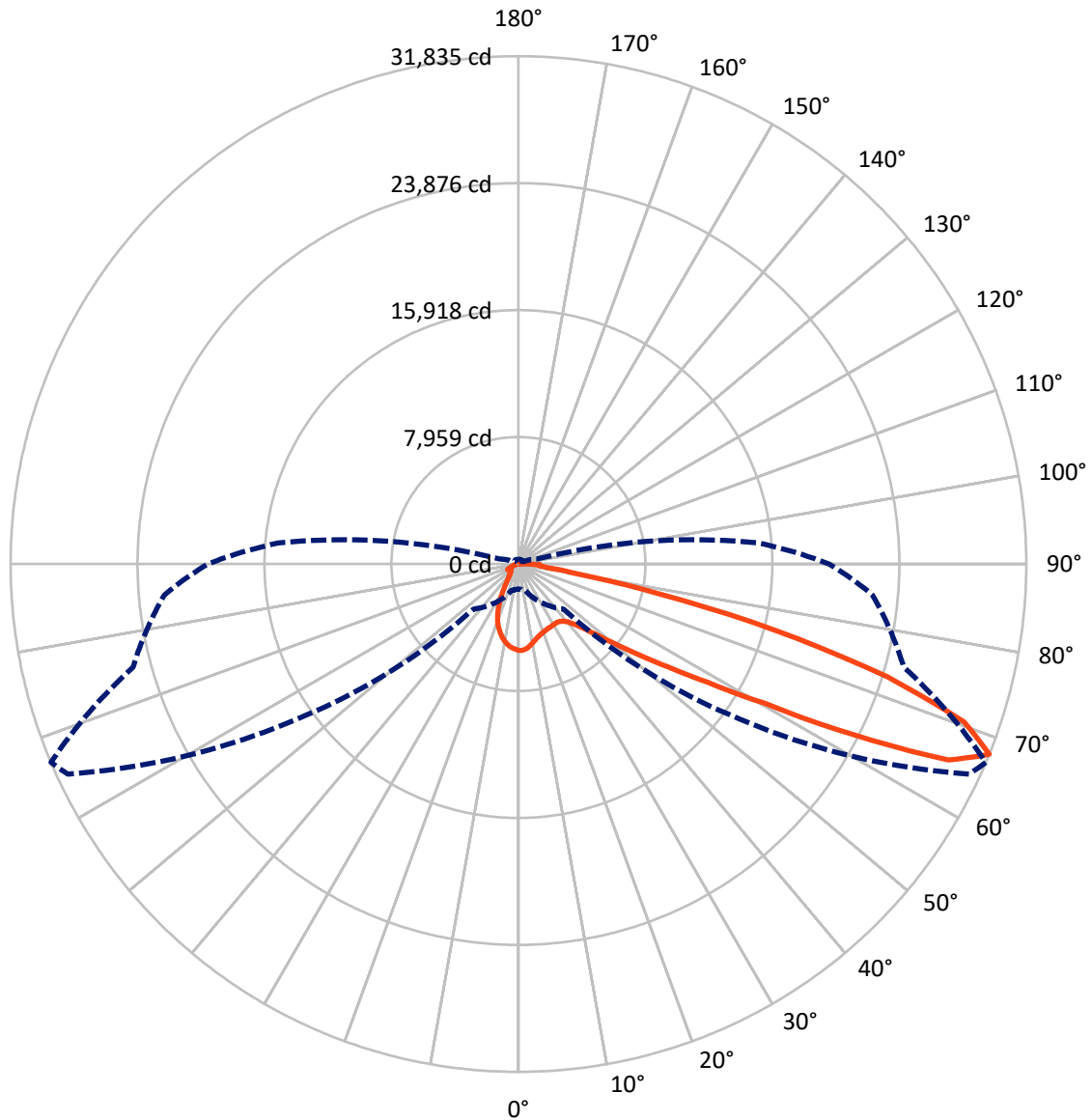


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - Semi-Cutoff

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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 | 4162.9 | 0.0 | 4162.9 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 20962.1 | 0.0 | 20962.1 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 25125.0 | 0.0 | 25125.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 462.4 | 1.8 |
| 10°-20° | 1069.8 | 4.3 |
| 20°-30° | 1450.2 | 5.8 |
| 30°-40° | 2061.6 | 8.2 |
| 40°-50° | 3449.1 | 13.7 |
| 50°-60° | 5456.4 | 21.7 |
| 60°-70° | 6950.9 | 27.7 |
| 70°-80° | 3640.9 | 14.5 |
| 80°-90° | 583.9 | 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° | 25125.0 | 100.0 |
| 0°-180° | 25125.0 | 100.0 |

Coefficient of Utilization



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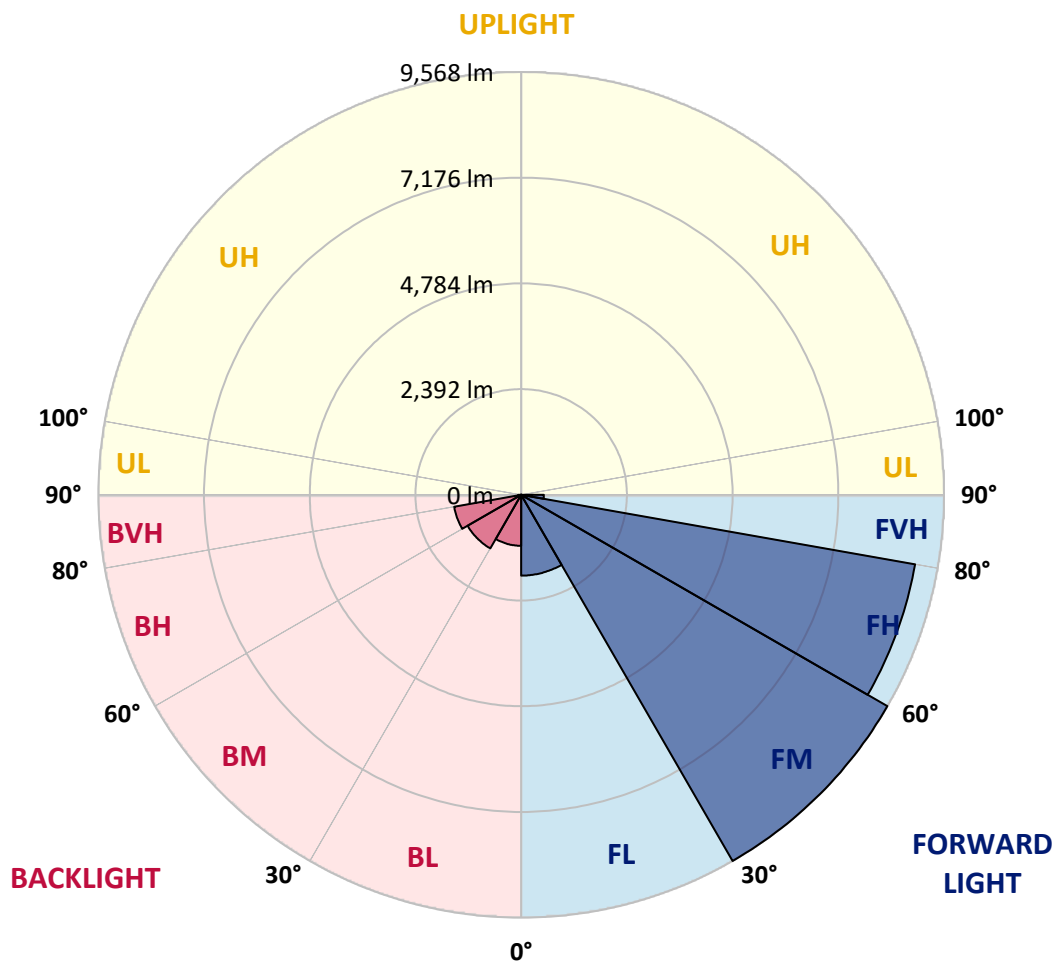
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1828.5 | 7.3 | | | |
| FM (30°-60°) | 9568.1 | 38.1 | | | |
| FH (60°-80°) | 9052.0 | 36.0 | | | G4/12000 |
| FVH (80°-90°) | 513.4 | 2.0 | | | G4/750 |
| BL (0°-30°) | 1153.9 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1398.9 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1539.7 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 70.5 | 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° | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 |
| 2.5° | 5196.4 | 5205.1 | 5232.3 | 5249.7 | 5327.7 | 5361.2 | 5384.7 | 5408.2 | 5412.0 | 5423.1 | 5412.0 |
| 5° | 4651.2 | 4669.8 | 4720.6 | 4777.6 | 4928.8 | 5047.7 | 5172.8 | 5302.9 | 5326.5 | 5410.7 | 5434.3 |
| 7.5° | 4228.7 | 4223.8 | 4265.9 | 4334.0 | 4488.9 | 4653.7 | 4873.0 | 5132.0 | 5182.8 | 5372.3 | 5464.0 |
| 10° | 3920.2 | 3916.5 | 3961.1 | 4031.7 | 4179.2 | 4335.3 | 4583.1 | 4937.4 | 5009.3 | 5311.6 | 5492.5 |
| 12.5° | 3692.2 | 3693.5 | 3738.1 | 3816.1 | 3966.0 | 4123.4 | 4374.9 | 4749.1 | 4840.8 | 5241.0 | 5522.2 |
| 15° | 3541.1 | 3551.0 | 3586.9 | 3669.9 | 3816.1 | 3973.5 | 4220.0 | 4607.9 | 4710.7 | 5185.2 | 5555.7 |
| 17.5° | 3490.3 | 3506.4 | 3518.8 | 3579.5 | 3704.6 | 3862.0 | 4103.6 | 4503.8 | 4612.8 | 5146.8 | 5585.4 |
| 20° | 3537.4 | 3555.9 | 3532.4 | 3553.5 | 3632.8 | 3771.5 | 4011.9 | 4422.0 | 4533.5 | 5103.5 | 5589.1 |
| 22.5° | 3739.3 | 3756.7 | 3687.3 | 3626.6 | 3621.6 | 3705.9 | 3936.3 | 4357.6 | 4472.8 | 5071.2 | 5590.4 |
| 25° | 4094.9 | 4106.1 | 3989.6 | 3848.3 | 3710.8 | 3682.3 | 3883.0 | 4313.0 | 4435.6 | 5042.7 | 5566.8 |
| 27.5° | 4531.0 | 4539.7 | 4405.9 | 4197.7 | 3921.4 | 3738.1 | 3864.5 | 4287.0 | 4414.6 | 5018.0 | 5527.2 |
| 30° | 5061.3 | 5102.2 | 4922.6 | 4659.9 | 4257.2 | 3902.9 | 3901.6 | 4273.3 | 4391.0 | 4975.8 | 5449.1 |
| 32.5° | 5604.0 | 5621.4 | 5497.5 | 5231.1 | 4709.5 | 4192.8 | 4005.7 | 4283.2 | 4384.8 | 4925.0 | 5350.0 |
| 35° | 6154.1 | 6176.4 | 6095.9 | 5881.5 | 5327.7 | 4617.8 | 4208.9 | 4341.5 | 4423.2 | 4907.7 | 5280.6 |
| 37.5° | 6866.6 | 6896.3 | 6784.8 | 6537.0 | 6079.8 | 5193.9 | 4547.1 | 4487.7 | 4540.9 | 4957.3 | 5259.6 |
| 40° | 7992.8 | 7979.2 | 7653.3 | 7284.1 | 6902.5 | 5931.1 | 5030.4 | 4735.5 | 4766.4 | 5117.1 | 5324.0 |
| 42.5° | 9303.7 | 9270.2 | 8709.0 | 8129.1 | 7807.0 | 6823.2 | 5669.7 | 5165.4 | 5159.2 | 5431.8 | 5550.7 |
| 45° | 10349.4 | 10322.1 | 9816.6 | 9101.7 | 8844.0 | 7839.2 | 6496.1 | 5806.0 | 5760.1 | 5931.1 | 5969.5 |
| 47.5° | 10915.6 | 10916.9 | 10625.7 | 10042.1 | 10035.9 | 9130.2 | 7557.9 | 6732.7 | 6653.4 | 6734.0 | 6693.1 |
| 50° | 10717.4 | 10743.4 | 10712.4 | 10526.6 | 11123.8 | 10822.7 | 8944.4 | 8025.0 | 7865.2 | 7944.5 | 7787.1 |
| 52.5° | 9758.4 | 9791.8 | 9975.2 | 10260.2 | 11581.0 | 12868.3 | 10981.3 | 9630.8 | 9444.9 | 9416.4 | 9241.7 |
| 55° | 8058.5 | 8099.4 | 8473.5 | 9247.9 | 11200.6 | 14242.3 | 14195.3 | 11677.6 | 11381.5 | 11112.6 | 11038.3 |
| 57.5° | 5554.5 | 5622.6 | 6224.8 | 7374.5 | 9970.3 | 14657.4 | 18022.5 | 14595.5 | 13993.3 | 13054.1 | 13071.5 |
| 60° | 3131.0 | 3210.3 | 3920.2 | 4964.7 | 7487.3 | 14206.4 | 20934.2 | 19015.0 | 17743.8 | 15327.7 | 15456.6 |
| 62.5° | 1991.1 | 2076.6 | 2615.5 | 3449.4 | 4492.6 | 11778.0 | 22127.4 | 25159.2 | 23544.8 | 18130.3 | 18256.7 |
| 65° | 1611.9 | 1649.1 | 1903.1 | 2847.2 | 3262.3 | 7095.8 | 21221.7 | 30220.5 | 29618.4 | 21687.5 | 21097.8 |
| 67.5° | 1573.5 | 1585.9 | 1717.3 | 2390.0 | 3128.5 | 3988.4 | 16927.3 | 31167.1 | 31835.0 | 25009.3 | 22281.0 |
| 70° | 1554.9 | 1598.3 | 1935.3 | 2281.0 | 2995.9 | 3363.9 | 10172.2 | 28572.7 | 29627.0 | 25877.8 | 20706.2 |
| 72.5° | 754.6 | 752.1 | 973.9 | 2062.9 | 3375.0 | 3489.0 | 5226.1 | 23118.6 | 24176.7 | 22419.8 | 17015.2 |
| 75° | 608.4 | 556.3 | 531.5 | 755.8 | 3244.9 | 3603.0 | 3330.4 | 15907.6 | 16673.3 | 15031.6 | 10459.7 |
| 77.5° | 577.4 | 515.4 | 472.1 | 473.3 | 1371.6 | 3821.1 | 2821.2 | 8804.4 | 9027.4 | 6789.7 | 2865.8 |
| 80° | 478.3 | 421.3 | 390.3 | 439.8 | 664.1 | 3639.0 | 3050.4 | 3984.6 | 3656.3 | 1667.7 | 954.0 |
| 82.5° | 332.1 | 302.3 | 293.6 | 369.2 | 531.5 | 2593.2 | 3547.3 | 2141.0 | 1795.3 | 835.1 | 588.5 |
| 85° | 211.9 | 180.9 | 200.7 | 268.9 | 413.8 | 1196.9 | 3653.8 | 1668.9 | 1327.0 | 530.3 | 332.1 |
| 87.5° | 97.9 | 79.3 | 99.1 | 148.7 | 270.1 | 412.6 | 3476.6 | 1874.6 | 1366.6 | 280.0 | 209.4 |
| 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° | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 | 5419.4 |
| 2.5° | 5421.9 | 5398.3 | 5379.8 | 5345.1 | 5306.7 | 5269.5 | 5236.0 | 5193.9 | 5181.5 | 5170.4 | 5187.7 |
| 5° | 5439.2 | 5415.7 | 5347.5 | 5241.0 | 5123.3 | 5013.0 | 4902.7 | 4808.6 | 4750.3 | 4718.1 | 4736.7 |
| 7.5° | 5465.2 | 5431.8 | 5290.5 | 5094.8 | 4882.9 | 4689.6 | 4490.1 | 4330.3 | 4212.6 | 4156.9 | 4173.0 |
| 10° | 5488.8 | 5424.4 | 5193.9 | 4900.3 | 4590.5 | 4303.1 | 3988.4 | 3728.2 | 3534.9 | 3433.3 | 3458.1 |
| 12.5° | 5498.7 | 5395.9 | 5058.9 | 4657.4 | 4232.4 | 3811.2 | 3347.8 | 2958.7 | 2681.2 | 2579.6 | 2558.5 |
| 15° | 5508.6 | 5363.6 | 4910.2 | 4381.1 | 3800.0 | 3204.1 | 2554.8 | 2089.0 | 1858.5 | 1807.7 | 1796.6 |
| 17.5° | 5511.1 | 5307.9 | 4741.7 | 4081.3 | 3293.3 | 2481.7 | 1747.0 | 1450.9 | 1452.1 | 1533.9 | 1543.8 |
| 20° | 5485.1 | 5224.9 | 4537.2 | 3708.3 | 2686.2 | 1716.0 | 1199.4 | 1148.6 | 1335.6 | 1540.1 | 1564.9 |
| 22.5° | 5425.6 | 5114.6 | 4305.5 | 3273.4 | 1991.1 | 1130.0 | 928.0 | 983.8 | 1225.4 | 1475.7 | 1504.2 |
| 25° | 5350.0 | 4980.8 | 4031.7 | 2769.2 | 1318.3 | 807.8 | 778.1 | 846.2 | 1009.8 | 1177.1 | 1193.2 |
| 27.5° | 5247.2 | 4822.2 | 3724.4 | 2191.8 | 856.2 | 665.3 | 685.2 | 731.0 | 797.9 | 872.3 | 879.7 |
| 30° | 5114.6 | 4632.6 | 3396.1 | 1598.3 | 646.8 | 598.4 | 626.9 | 651.7 | 680.2 | 722.3 | 726.1 |
| 32.5° | 4962.2 | 4450.5 | 3059.1 | 1104.0 | 573.7 | 563.7 | 586.0 | 598.4 | 620.7 | 646.8 | 649.2 |
| 35° | 4834.6 | 4277.0 | 2709.7 | 780.6 | 542.7 | 537.7 | 552.6 | 557.6 | 578.6 | 607.1 | 609.6 |
| 37.5° | 4761.5 | 4135.8 | 2349.2 | 629.4 | 521.6 | 514.2 | 522.9 | 522.9 | 552.6 | 594.7 | 600.9 |
| 40° | 4766.4 | 4057.7 | 1988.6 | 568.7 | 504.3 | 494.4 | 495.6 | 495.6 | 534.0 | 579.9 | 583.6 |
| 42.5° | 4901.5 | 4077.6 | 1668.9 | 545.2 | 490.6 | 479.5 | 473.3 | 477.0 | 509.2 | 539.0 | 541.4 |
| 45° | 5218.7 | 4217.6 | 1369.1 | 530.3 | 477.0 | 473.3 | 459.7 | 458.4 | 470.8 | 484.5 | 484.5 |
| 47.5° | 5739.1 | 4493.9 | 1165.9 | 520.4 | 465.9 | 464.6 | 448.5 | 432.4 | 431.2 | 436.1 | 436.1 |
| 50° | 6585.3 | 4969.6 | 1029.6 | 509.2 | 458.4 | 448.5 | 429.9 | 405.2 | 396.5 | 400.2 | 400.2 |
| 52.5° | 7854.0 | 5818.4 | 977.6 | 494.4 | 442.3 | 426.2 | 405.2 | 380.4 | 372.9 | 374.2 | 374.2 |
| 55° | 9518.0 | 7121.8 | 970.1 | 477.0 | 425.0 | 399.0 | 381.6 | 363.0 | 354.4 | 356.8 | 356.8 |
| 57.5° | 11551.2 | 8924.5 | 1102.7 | 449.8 | 401.4 | 371.7 | 361.8 | 349.4 | 343.2 | 346.9 | 345.7 |
| 60° | 14023.0 | 11283.6 | 1635.5 | 421.3 | 377.9 | 346.9 | 346.9 | 337.0 | 332.1 | 335.8 | 334.5 |
| 62.5° | 16870.3 | 13993.3 | 2299.6 | 400.2 | 353.1 | 327.1 | 332.1 | 327.1 | 322.1 | 324.6 | 323.4 |
| 65° | 19395.4 | 15758.9 | 2153.4 | 384.1 | 328.3 | 308.5 | 317.2 | 314.7 | 311.0 | 313.5 | 312.2 |
| 67.5° | 19468.5 | 15104.7 | 1209.3 | 366.7 | 304.8 | 289.9 | 302.3 | 301.1 | 298.6 | 301.1 | 299.8 |
| 70° | 17374.5 | 12754.3 | 681.5 | 334.5 | 280.0 | 267.6 | 285.0 | 283.7 | 281.3 | 286.2 | 285.0 |
| 72.5° | 13920.2 | 9255.4 | 498.1 | 294.9 | 255.2 | 244.1 | 263.9 | 262.7 | 262.7 | 270.1 | 266.4 |
| 75° | 8010.2 | 4762.7 | 397.7 | 252.8 | 229.2 | 220.5 | 237.9 | 239.1 | 241.6 | 251.5 | 244.1 |
| 77.5° | 2283.5 | 1484.3 | 324.6 | 214.3 | 197.0 | 193.3 | 210.6 | 213.1 | 214.3 | 225.5 | 215.6 |
| 80° | 848.7 | 683.9 | 267.6 | 179.7 | 161.1 | 162.3 | 178.4 | 182.1 | 183.4 | 194.5 | 182.1 |
| 82.5° | 541.4 | 451.0 | 216.8 | 138.8 | 126.4 | 125.1 | 145.0 | 149.9 | 149.9 | 151.2 | 143.7 |
| 85° | 315.9 | 270.1 | 163.5 | 100.4 | 89.2 | 85.5 | 107.8 | 116.5 | 112.7 | 110.3 | 105.3 |
| 87.5° | 211.9 | 185.9 | 100.4 | 55.8 | 48.3 | 45.8 | 63.2 | 69.4 | 66.9 | 63.2 | 59.5 |
| 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)