

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: P268749

Luminaire Tested: **GAN-AF-08-LED-U-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27735.7 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 334
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

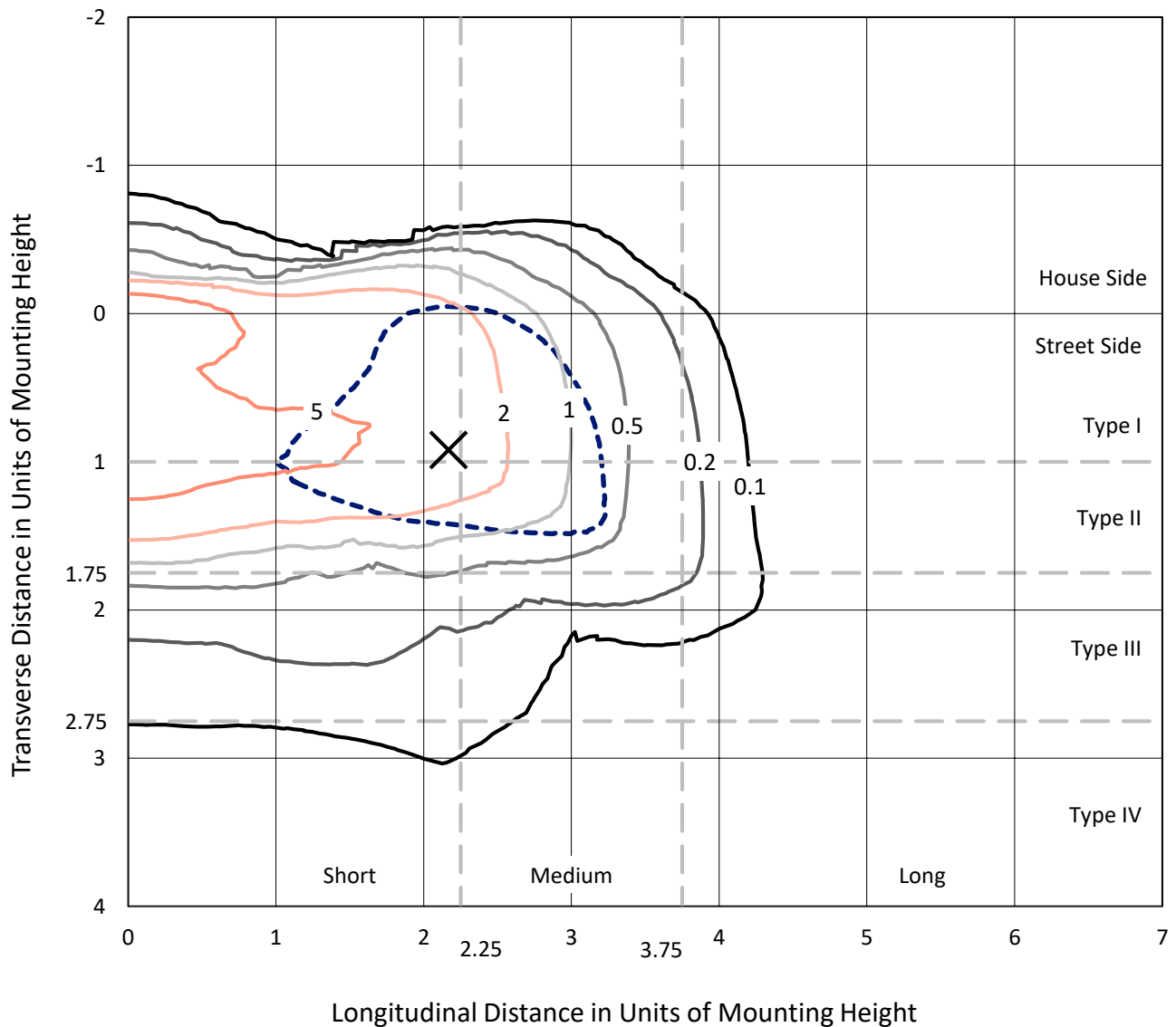


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

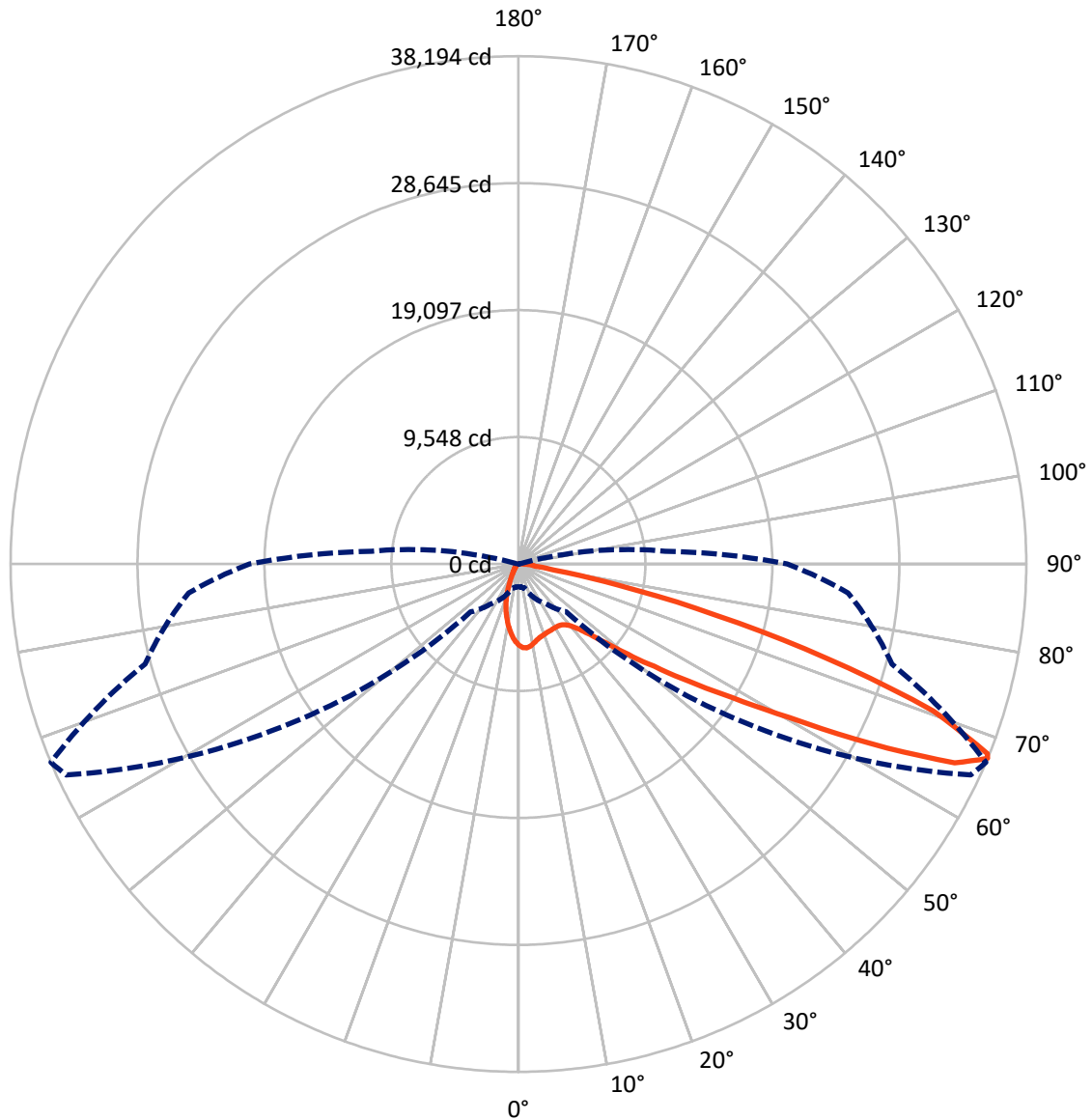


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2879.8 | 0.0 | 2879.8 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 24855.9 | 0.0 | 24855.9 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 27735.7 | 0.0 | 27735.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 497.7 | 1.8 |
| 10°-20° | 1059.3 | 3.8 |
| 20°-30° | 1540.2 | 5.6 |
| 30°-40° | 2402.7 | 8.7 |
| 40°-50° | 4256.2 | 15.3 |
| 50°-60° | 6735.1 | 24.3 |
| 60°-70° | 7714.1 | 27.8 |
| 70°-80° | 3199.8 | 11.5 |
| 80°-90° | 330.5 | 1.2 |
| 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° | 27735.7 | 100.0 |
| 0°-180° | 27735.7 | 100.0 |

Coefficient of Utilization



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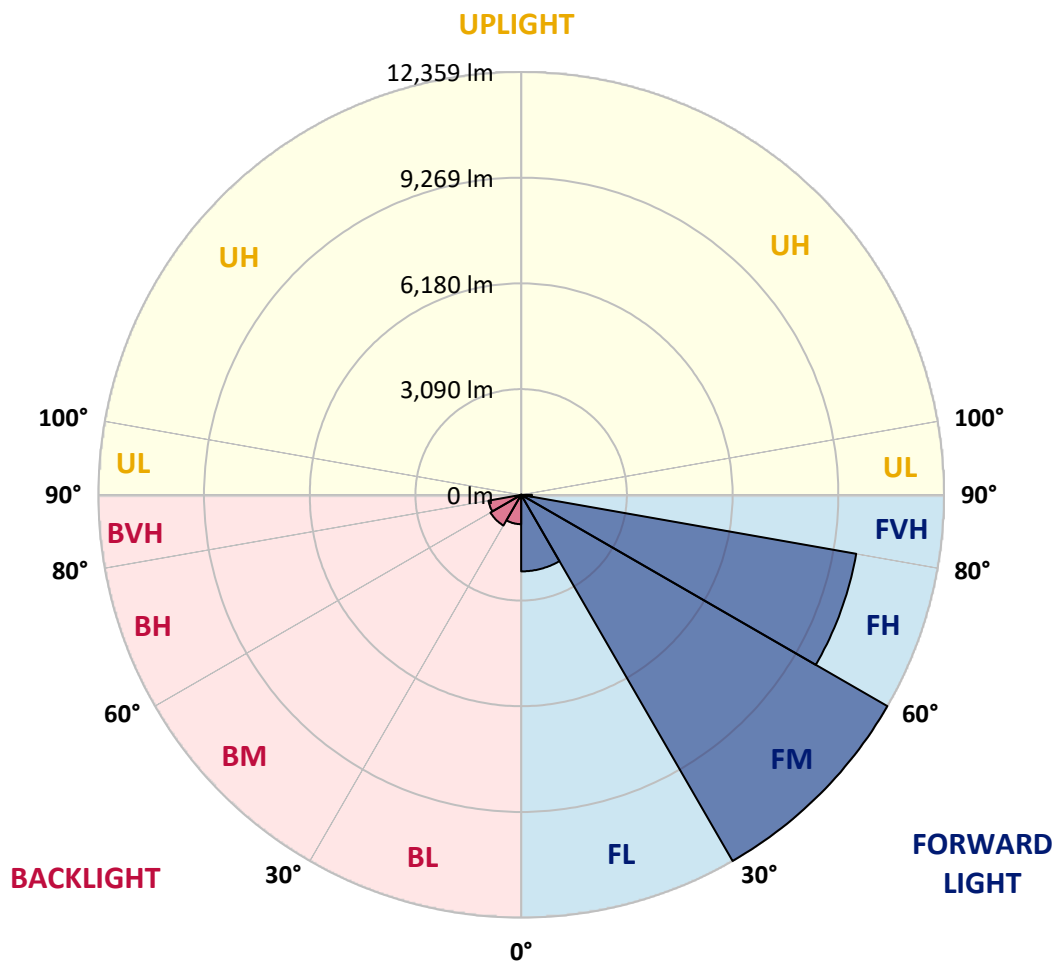
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2237.8 | 8.1 | | | |
| FM | (30°-60°) | 12359.1 | 44.6 | | | |
| FH | (60°-80°) | 9943.3 | 35.9 | | | G4/12000 |
| FVH | (80°-90°) | 315.6 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 859.3 | 3.1 | B2/1000 | | |
| BM | (30°-60°) | 1035.0 | 3.7 | B2/2500 | | |
| BH | (60°-80°) | 970.6 | 3.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 14.9 | 0.1 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 |
| 2.5° | 6323.8 | 6336.7 | 6335.1 | 6344.9 | 6367.5 | 6369.2 | 6346.4 | 6302.8 | 6293.0 | 6236.5 | 6137.8 |
| 5° | 5832.1 | 5869.3 | 5891.9 | 5984.1 | 6087.6 | 6212.1 | 6306.0 | 6340.0 | 6335.1 | 6294.8 | 6145.8 |
| 7.5° | 5270.6 | 5307.8 | 5333.7 | 5442.1 | 5579.6 | 5793.2 | 6037.5 | 6238.1 | 6255.8 | 6299.5 | 6139.3 |
| 10° | 4896.9 | 4903.4 | 4939.1 | 5042.5 | 5186.5 | 5404.9 | 5696.2 | 6047.2 | 6100.6 | 6260.7 | 6123.1 |
| 12.5° | 4589.6 | 4594.4 | 4641.4 | 4753.0 | 4906.6 | 5126.6 | 5432.4 | 5838.4 | 5921.0 | 6212.1 | 6120.0 |
| 15° | 4371.2 | 4388.9 | 4431.0 | 4547.5 | 4710.9 | 4929.3 | 5243.1 | 5684.8 | 5783.5 | 6194.4 | 6149.1 |
| 17.5° | 4298.4 | 4317.9 | 4330.8 | 4414.9 | 4563.7 | 4777.2 | 5099.1 | 5584.6 | 5696.2 | 6204.1 | 6205.8 |
| 20° | 4374.4 | 4388.9 | 4359.8 | 4380.9 | 4473.1 | 4664.0 | 4977.9 | 5498.7 | 5631.5 | 6215.5 | 6278.6 |
| 22.5° | 4657.5 | 4664.0 | 4584.7 | 4492.6 | 4476.3 | 4581.4 | 4882.4 | 5430.9 | 5573.2 | 6246.2 | 6364.2 |
| 25° | 5142.8 | 5131.5 | 5002.1 | 4803.1 | 4615.4 | 4567.0 | 4825.8 | 5388.8 | 5544.1 | 6278.6 | 6453.2 |
| 27.5° | 5728.5 | 5744.7 | 5566.6 | 5277.2 | 4919.6 | 4664.0 | 4817.7 | 5371.0 | 5531.1 | 6301.3 | 6530.9 |
| 30° | 6440.3 | 6462.9 | 6259.1 | 5895.0 | 5382.3 | 4903.4 | 4892.1 | 5367.7 | 5523.0 | 6286.6 | 6537.3 |
| 32.5° | 7166.7 | 7194.2 | 7034.0 | 6658.6 | 6000.3 | 5304.6 | 5060.3 | 5403.3 | 5539.2 | 6236.5 | 6500.1 |
| 35° | 7927.1 | 7965.8 | 7859.1 | 7537.0 | 6838.3 | 5883.8 | 5356.5 | 5511.7 | 5615.2 | 6231.6 | 6462.9 |
| 37.5° | 8976.9 | 9012.5 | 8812.0 | 8470.6 | 7852.7 | 6660.4 | 5832.1 | 5715.6 | 5794.7 | 6309.2 | 6472.6 |
| 40° | 10544.6 | 10539.8 | 10022.0 | 9499.4 | 8967.2 | 7647.1 | 6500.1 | 6084.4 | 6124.9 | 6543.9 | 6592.3 |
| 42.5° | 12252.9 | 12244.7 | 11479.6 | 10685.2 | 10204.8 | 8862.0 | 7378.6 | 6721.7 | 6694.3 | 6975.8 | 6902.9 |
| 45° | 13569.7 | 13568.1 | 12943.7 | 12049.1 | 11694.8 | 10256.6 | 8514.2 | 7608.4 | 7566.2 | 7677.9 | 7475.6 |
| 47.5° | 14131.1 | 14140.8 | 13827.0 | 13197.7 | 13346.5 | 12142.8 | 9945.9 | 8892.9 | 8829.7 | 8784.4 | 8477.0 |
| 50° | 13694.3 | 13713.7 | 13739.7 | 13616.7 | 14558.2 | 14677.9 | 11866.3 | 10703.0 | 10672.4 | 10470.1 | 9989.6 |
| 52.5° | 12267.4 | 12366.2 | 12670.2 | 13060.2 | 14978.8 | 17111.0 | 14876.9 | 12951.8 | 12786.7 | 12571.6 | 12042.6 |
| 55° | 9863.5 | 9971.8 | 10549.3 | 11495.8 | 14352.8 | 18709.4 | 19096.0 | 15850.9 | 15575.8 | 14933.6 | 14170.0 |
| 57.5° | 6527.7 | 6695.8 | 7533.8 | 8737.5 | 12534.4 | 18966.6 | 23305.4 | 19874.1 | 18916.5 | 17157.9 | 16297.3 |
| 60° | 3596.3 | 3758.1 | 4667.2 | 5757.5 | 9052.9 | 17695.1 | 26136.5 | 25112.5 | 23420.3 | 19644.5 | 18880.8 |
| 62.5° | 2214.7 | 2302.0 | 2973.4 | 3987.8 | 5429.1 | 13966.0 | 26722.2 | 31695.1 | 29736.1 | 22846.0 | 22001.5 |
| 65° | 1763.4 | 1800.6 | 2129.0 | 3259.8 | 3892.4 | 8307.2 | 24830.9 | 36713.4 | 36059.9 | 26722.2 | 24795.3 |
| 67° | 1711.6 | 1726.2 | 1881.5 | 2798.7 | 3669.0 | 5092.8 | 20802.8 | 37530.4 | 38193.6 | 29067.8 | 24882.7 |
| 67.5° | 1722.9 | 1739.1 | 1886.4 | 2670.9 | 3662.6 | 4680.2 | 19414.7 | 37208.4 | 38046.5 | 29253.9 | 24496.2 |
| 70° | 1661.4 | 1711.6 | 2159.7 | 2669.4 | 3483.1 | 3889.1 | 11626.9 | 32238.7 | 33110.6 | 27181.5 | 20785.0 |
| 72.5° | 588.8 | 592.2 | 933.5 | 2159.7 | 3787.2 | 3931.2 | 5838.4 | 23633.8 | 24279.3 | 20793.1 | 14985.3 |
| 75° | 349.4 | 297.7 | 310.6 | 614.7 | 3618.9 | 3817.8 | 3368.1 | 15101.8 | 15342.8 | 11914.8 | 7588.9 |
| 77.5° | 241.0 | 210.4 | 216.9 | 271.7 | 1378.3 | 3764.5 | 2675.8 | 7875.3 | 7618.0 | 4178.6 | 1616.1 |
| 80° | 137.5 | 121.4 | 129.4 | 237.8 | 501.6 | 3512.2 | 2523.7 | 3193.5 | 2722.8 | 708.6 | 446.5 |
| 82.5° | 72.9 | 61.4 | 74.4 | 195.7 | 349.4 | 2188.8 | 2528.5 | 1543.4 | 1223.0 | 239.4 | 304.2 |
| 85° | 26.0 | 21.0 | 35.7 | 134.2 | 233.0 | 671.4 | 2344.1 | 1297.4 | 1019.1 | 116.5 | 231.4 |
| 87.5° | 4.9 | 4.9 | 14.6 | 54.9 | 93.9 | 205.4 | 1386.4 | 770.0 | 516.0 | 69.6 | 158.6 |
| 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° | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 | 6116.7 |
| 2.5° | 6097.3 | 6027.7 | 5933.9 | 5819.1 | 5683.1 | 5563.5 | 5474.5 | 5382.3 | 5362.9 | 5330.5 | 5325.6 |
| 5° | 6056.9 | 5937.2 | 5704.1 | 5437.4 | 5152.6 | 4895.4 | 4686.6 | 4500.6 | 4418.1 | 4346.9 | 4338.9 |
| 7.5° | 5997.1 | 5817.5 | 5421.1 | 4990.8 | 4546.0 | 4141.5 | 3798.6 | 3555.9 | 3332.6 | 3225.9 | 3209.6 |
| 10° | 5927.5 | 5670.2 | 5102.5 | 4505.4 | 3890.6 | 3319.6 | 2810.1 | 2382.9 | 2124.1 | 1970.4 | 1950.9 |
| 12.5° | 5862.8 | 5526.3 | 4777.2 | 4002.3 | 3185.4 | 2421.8 | 1766.5 | 1359.0 | 1087.0 | 977.1 | 964.2 |
| 15° | 5832.1 | 5409.9 | 4473.1 | 3487.8 | 2447.7 | 1541.8 | 965.8 | 747.4 | 658.5 | 632.5 | 630.9 |
| 17.5° | 5828.8 | 5311.0 | 4175.4 | 2955.7 | 1714.9 | 896.1 | 629.4 | 574.2 | 556.5 | 550.0 | 550.0 |
| 20° | 5827.1 | 5217.3 | 3877.8 | 2404.0 | 1088.7 | 597.0 | 524.2 | 511.2 | 498.3 | 490.1 | 490.1 |
| 22.5° | 5844.9 | 5133.2 | 3567.2 | 1840.9 | 685.9 | 483.6 | 461.1 | 448.2 | 431.9 | 420.6 | 419.0 |
| 25° | 5862.8 | 5068.4 | 3250.1 | 1310.4 | 496.7 | 420.6 | 397.9 | 380.2 | 357.5 | 343.0 | 341.4 |
| 27.5° | 5866.0 | 4987.6 | 2910.4 | 876.8 | 415.7 | 367.2 | 338.1 | 310.6 | 284.8 | 270.2 | 268.6 |
| 30° | 5817.5 | 4851.7 | 2533.4 | 592.2 | 367.2 | 318.7 | 279.9 | 250.7 | 226.6 | 215.1 | 215.1 |
| 32.5° | 5722.1 | 4683.5 | 2119.2 | 446.5 | 326.9 | 273.4 | 231.4 | 203.8 | 187.7 | 182.8 | 181.2 |
| 35° | 5636.2 | 4502.2 | 1693.8 | 378.5 | 292.8 | 231.4 | 189.3 | 171.4 | 161.8 | 160.2 | 158.6 |
| 37.5° | 5586.1 | 4356.6 | 1294.2 | 343.0 | 260.5 | 194.2 | 160.2 | 147.2 | 142.3 | 139.1 | 140.8 |
| 40° | 5624.9 | 4235.2 | 956.1 | 313.9 | 228.1 | 161.8 | 136.0 | 129.4 | 124.5 | 123.0 | 123.0 |
| 42.5° | 5794.7 | 4214.3 | 710.2 | 287.9 | 197.4 | 134.2 | 118.0 | 113.2 | 110.0 | 108.3 | 110.0 |
| 45° | 6241.3 | 4343.7 | 551.6 | 263.7 | 166.6 | 113.2 | 100.3 | 98.6 | 97.0 | 97.0 | 97.0 |
| 47.5° | 6912.6 | 4610.6 | 459.5 | 236.2 | 139.1 | 97.0 | 87.3 | 85.8 | 84.1 | 85.8 | 85.8 |
| 50° | 8049.9 | 5099.1 | 411.0 | 208.6 | 114.9 | 82.6 | 74.4 | 74.4 | 74.4 | 74.4 | 76.0 |
| 52.5° | 9779.4 | 6060.1 | 378.5 | 181.2 | 93.9 | 69.6 | 63.2 | 63.2 | 64.7 | 64.7 | 66.4 |
| 55° | 11706.2 | 7334.9 | 349.4 | 153.7 | 79.3 | 58.2 | 51.7 | 53.4 | 54.9 | 56.7 | 56.7 |
| 57.5° | 13796.2 | 8747.2 | 325.1 | 126.2 | 67.9 | 46.9 | 43.7 | 45.4 | 46.9 | 50.1 | 50.1 |
| 60° | 16318.3 | 10276.0 | 289.6 | 98.6 | 56.7 | 37.2 | 34.0 | 37.2 | 42.1 | 45.4 | 46.9 |
| 62.5° | 19087.9 | 11754.6 | 244.2 | 77.7 | 46.9 | 29.1 | 27.5 | 34.0 | 40.5 | 43.7 | 45.4 |
| 65° | 20980.8 | 12218.9 | 187.7 | 63.2 | 35.7 | 21.0 | 22.6 | 30.7 | 38.8 | 43.7 | 43.7 |
| 67° | 20213.9 | 11078.3 | 153.7 | 53.4 | 29.1 | 16.2 | 21.0 | 30.7 | 38.8 | 42.1 | 43.7 |
| 67.5° | 19681.7 | 10631.9 | 147.2 | 51.7 | 27.5 | 16.2 | 21.0 | 30.7 | 38.8 | 43.7 | 43.7 |
| 70° | 16014.2 | 7986.9 | 123.0 | 38.8 | 22.6 | 14.6 | 17.7 | 29.1 | 37.2 | 42.1 | 42.1 |
| 72.5° | 11126.9 | 4924.5 | 110.0 | 27.5 | 19.5 | 12.9 | 16.2 | 27.5 | 35.7 | 40.5 | 42.1 |
| 75° | 5290.1 | 1782.7 | 93.9 | 21.0 | 17.7 | 11.3 | 14.6 | 27.5 | 35.7 | 40.5 | 40.5 |
| 77.5° | 1079.0 | 414.2 | 76.0 | 17.7 | 14.6 | 11.3 | 12.9 | 26.0 | 34.0 | 38.8 | 38.8 |
| 80° | 354.3 | 160.2 | 56.7 | 16.2 | 14.6 | 11.3 | 12.9 | 24.3 | 34.0 | 37.2 | 38.8 |
| 82.5° | 255.6 | 80.8 | 37.2 | 16.2 | 14.6 | 11.3 | 11.3 | 24.3 | 32.3 | 37.2 | 37.2 |
| 85° | 195.7 | 56.7 | 24.3 | 16.2 | 14.6 | 11.3 | 11.3 | 22.6 | 30.7 | 35.7 | 35.7 |
| 87.5° | 129.4 | 22.6 | 19.5 | 16.2 | 14.6 | 11.3 | 11.3 | 22.6 | 29.1 | 34.0 | 35.7 |
| 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)