

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: P456000

Luminaire Tested: **GLAN-SA7B-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27265 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

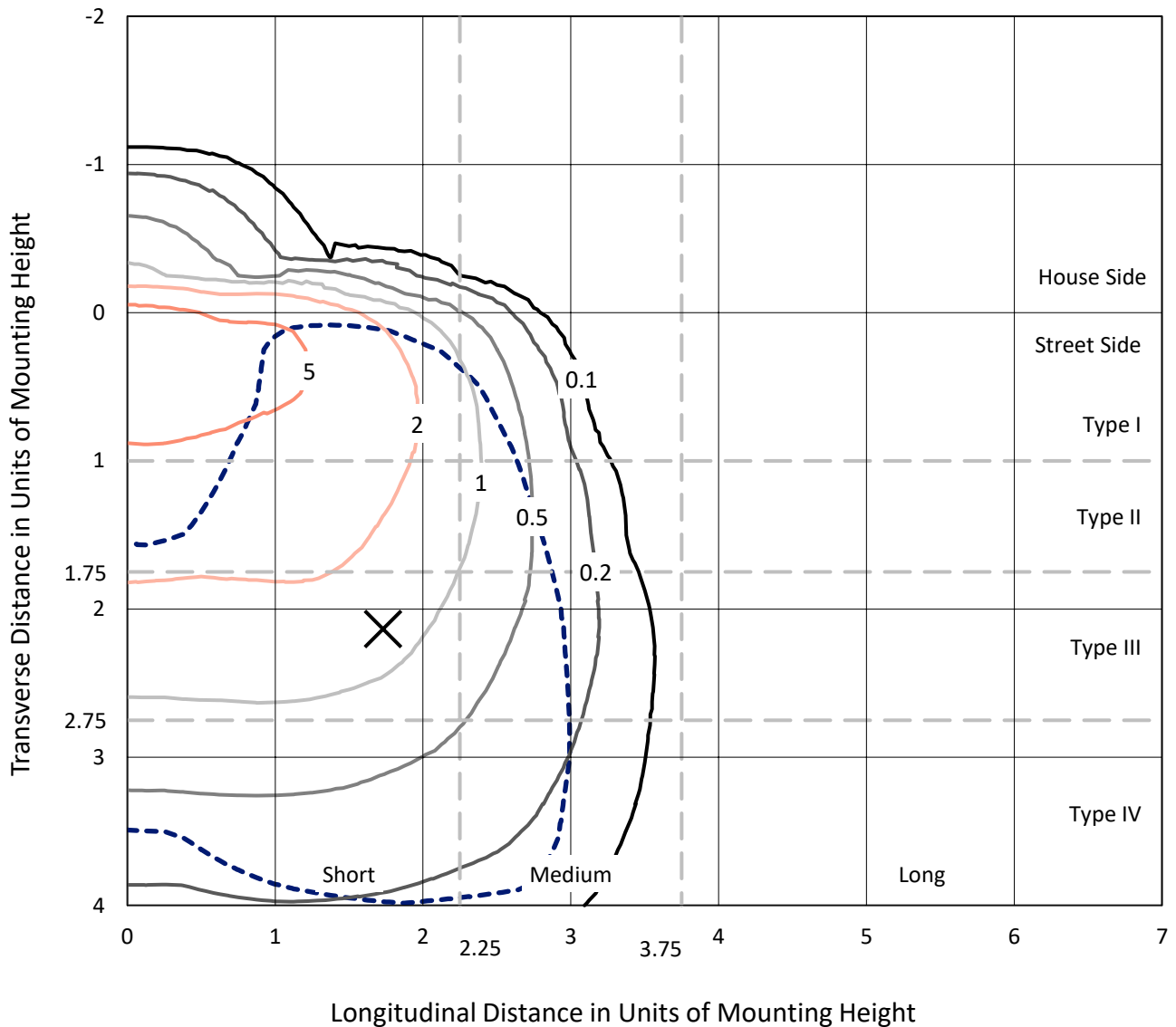
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

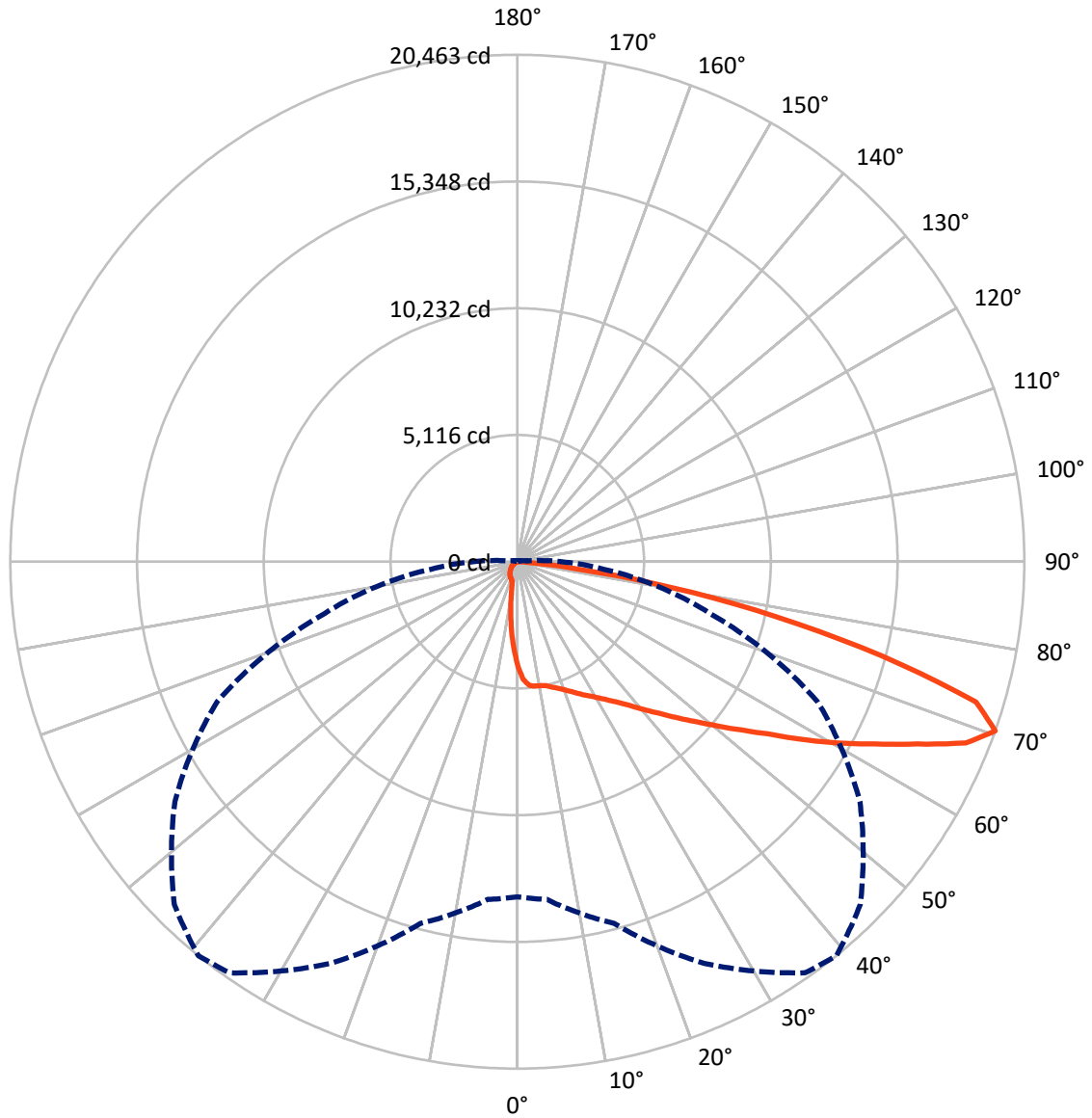
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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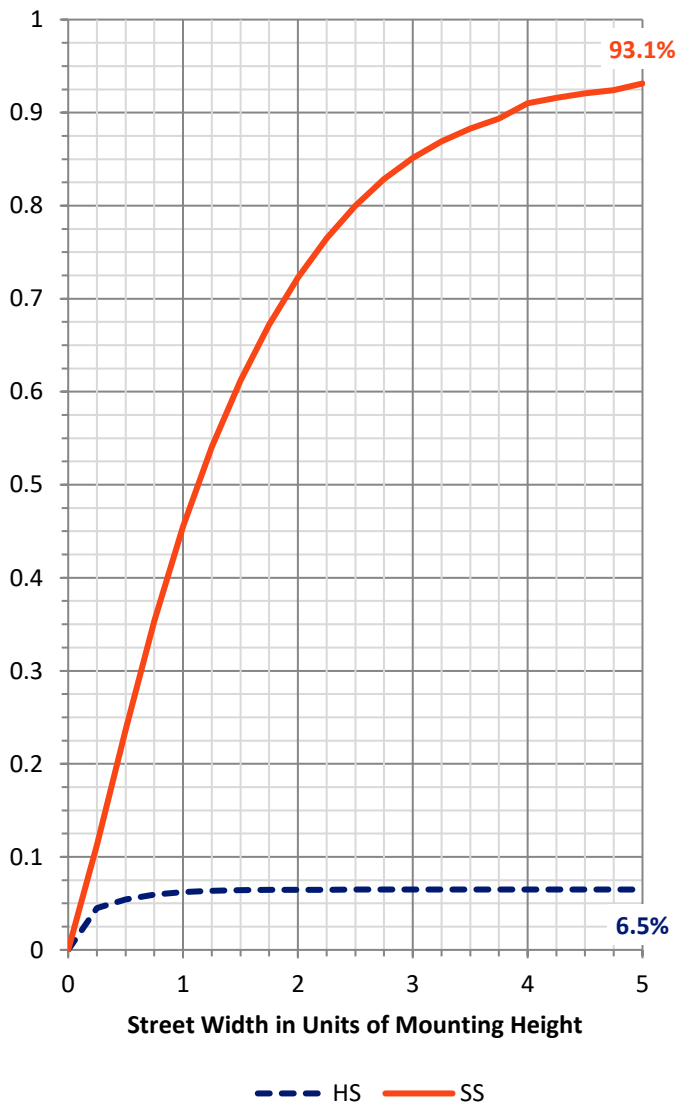
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1777.8 | 0.0 | 1777.8 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 25487.2 | 0.0 | 25487.2 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 27265.0 | 0.0 | 27265.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 362.9 | 1.3 |
| 10°-20° | 943.0 | 3.5 |
| 20°-30° | 1579.7 | 5.8 |
| 30°-40° | 2450.0 | 9.0 |
| 40°-50° | 3882.5 | 14.2 |
| 50°-60° | 5691.1 | 20.9 |
| 60°-70° | 7294.6 | 26.8 |
| 70°-80° | 4583.7 | 16.8 |
| 80°-90° | 477.5 | 1.8 |
| 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° | 27265.0 | 100.0 |
| 0°-180° | 27265.0 | 100.0 |

Coefficient of Utilization

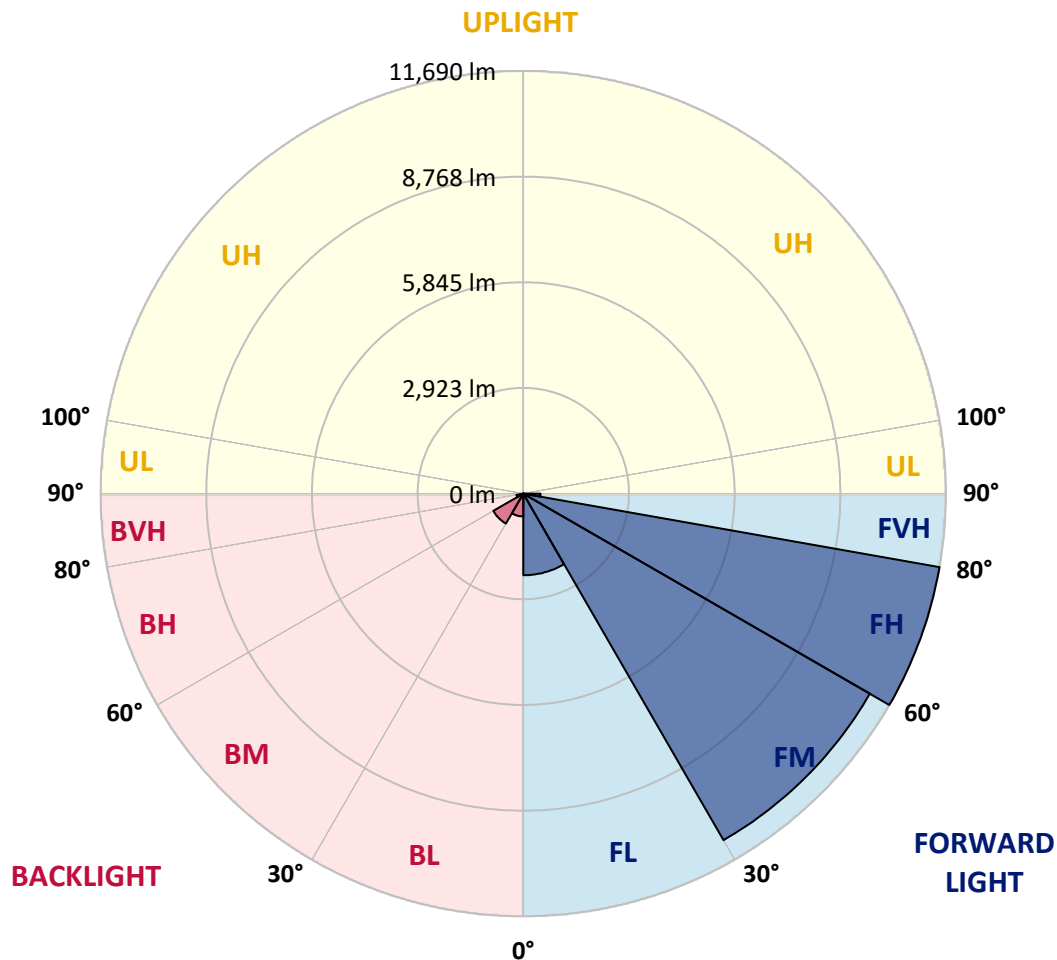


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2256.0 | 8.3 | | | |
| FM (30°-60°) | 11066.8 | 40.6 | | | |
| FH (60°-80°) | 11690.3 | 42.9 | | | G4/12000 |
| FVH (80°-90°) | 474.0 | 1.7 | | | G3/500 |
| BL (0°-30°) | 629.5 | 2.3 | B2/1000 | | |
| BM (30°-60°) | 956.8 | 3.5 | B1/1000 | | |
| BH (60°-80°) | 188.0 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 |
| 2.5° | 4915.7 | 4899.2 | 4877.2 | 4851.6 | 4778.3 | 4765.4 | 4721.5 | 4628.0 | 4516.3 | 4424.7 | 4298.2 |
| 5° | 5148.4 | 5157.5 | 5141.0 | 5095.2 | 5042.1 | 5011.0 | 4956.0 | 4811.3 | 4666.5 | 4481.5 | 4274.4 |
| 7.5° | 5201.5 | 5219.8 | 5199.7 | 5155.7 | 5104.4 | 5071.4 | 5027.4 | 4902.9 | 4734.3 | 4523.6 | 4239.6 |
| 10° | 5196.0 | 5218.0 | 5205.2 | 5164.9 | 5122.7 | 5091.6 | 5043.9 | 4945.0 | 4809.4 | 4587.7 | 4250.6 |
| 12.5° | 5186.8 | 5216.2 | 5214.3 | 5194.2 | 5159.4 | 5135.5 | 5106.2 | 5018.3 | 4891.9 | 4681.2 | 4311.1 |
| 15° | 5161.2 | 5197.8 | 5230.8 | 5247.3 | 5249.1 | 5249.1 | 5212.5 | 5119.1 | 4998.1 | 4803.9 | 4389.9 |
| 17.5° | 5172.2 | 5214.3 | 5296.8 | 5344.4 | 5377.4 | 5373.7 | 5335.2 | 5234.5 | 5100.7 | 4930.3 | 4472.3 |
| 20° | 5240.0 | 5296.8 | 5412.2 | 5507.5 | 5540.5 | 5529.5 | 5478.2 | 5360.9 | 5208.8 | 5038.4 | 4552.9 |
| 22.5° | 5406.7 | 5458.0 | 5602.7 | 5714.5 | 5738.3 | 5709.0 | 5635.7 | 5476.3 | 5338.9 | 5155.7 | 4650.0 |
| 25° | 5655.9 | 5716.3 | 5850.1 | 5934.4 | 5934.4 | 5917.9 | 5815.3 | 5628.4 | 5485.5 | 5318.8 | 4776.4 |
| 27.5° | 5958.2 | 6009.5 | 6141.4 | 6216.5 | 6172.5 | 6124.9 | 6022.3 | 5797.0 | 5659.5 | 5524.0 | 4928.5 |
| 30° | 6264.2 | 6297.1 | 6436.4 | 6469.4 | 6423.6 | 6363.1 | 6253.2 | 6027.8 | 5906.9 | 5802.5 | 5148.4 |
| 32.5° | 6553.6 | 6625.1 | 6740.5 | 6733.2 | 6670.9 | 6641.6 | 6540.8 | 6300.8 | 6233.0 | 6222.0 | 5456.2 |
| 35° | 6843.1 | 6898.1 | 7000.7 | 7026.3 | 6971.4 | 6965.9 | 6892.6 | 6714.9 | 6716.7 | 6788.2 | 5936.2 |
| 37.5° | 7092.3 | 7141.8 | 7262.7 | 7319.5 | 7330.5 | 7358.0 | 7328.6 | 7211.4 | 7378.1 | 7574.1 | 6572.0 |
| 40° | 7301.2 | 7370.8 | 7524.7 | 7623.6 | 7737.2 | 7838.0 | 7843.5 | 7869.1 | 8204.4 | 8541.5 | 7401.9 |
| 42.5° | 7464.2 | 7561.3 | 7784.8 | 7968.1 | 8228.2 | 8356.5 | 8459.1 | 8600.2 | 9164.5 | 9668.3 | 8380.3 |
| 45° | 7676.7 | 7788.5 | 8067.0 | 8354.6 | 8761.4 | 8972.1 | 9115.0 | 9492.4 | 10293.1 | 10980.1 | 9384.3 |
| 47.5° | 8028.5 | 8087.2 | 8371.1 | 8790.7 | 9325.7 | 9626.2 | 9904.7 | 10476.3 | 11504.1 | 12119.7 | 10219.8 |
| 50° | 8481.1 | 8519.5 | 8733.9 | 9316.5 | 10009.1 | 10404.8 | 10912.3 | 11584.7 | 12761.0 | 13065.1 | 10692.5 |
| 52.5° | 8981.2 | 8994.1 | 9155.3 | 9895.5 | 10774.9 | 11273.3 | 11841.2 | 12671.2 | 13785.2 | 13739.4 | 11005.8 |
| 55° | 9562.0 | 9543.7 | 9681.1 | 10523.9 | 11681.9 | 12251.7 | 12913.1 | 13783.3 | 14673.8 | 14217.6 | 11185.3 |
| 57.5° | 10227.1 | 10177.6 | 10311.4 | 11357.6 | 12843.4 | 13525.0 | 14197.4 | 14743.4 | 15362.7 | 14618.8 | 11271.4 |
| 60° | 10923.3 | 10824.4 | 10983.8 | 12293.8 | 14212.1 | 14858.8 | 15417.6 | 15564.2 | 16088.2 | 14937.6 | 11123.0 |
| 62.5° | 11478.5 | 11480.3 | 11777.1 | 13290.5 | 15619.2 | 16185.3 | 16482.1 | 16614.0 | 16713.0 | 14868.0 | 10342.5 |
| 65° | 12345.1 | 12374.4 | 12848.9 | 14673.8 | 17248.0 | 17739.0 | 17942.3 | 17513.6 | 16740.4 | 14003.2 | 9170.0 |
| 67.5° | 13239.2 | 13332.6 | 14201.1 | 16579.2 | 19129.6 | 19525.3 | 19263.3 | 17687.7 | 15992.9 | 12030.0 | 6953.0 |
| 70° | 13530.5 | 13684.4 | 15115.3 | 17891.0 | 20258.2 | 20463.4 | 19576.6 | 16876.0 | 13369.3 | 8043.2 | 3499.4 |
| 72.5° | 12398.2 | 12647.4 | 14589.5 | 17412.8 | 19538.2 | 19360.4 | 17515.4 | 14153.4 | 8499.4 | 3054.2 | 1068.1 |
| 75° | 8743.1 | 8853.0 | 12125.2 | 14444.7 | 15714.4 | 15210.6 | 13323.5 | 9124.2 | 3495.8 | 857.5 | 366.4 |
| 77.5° | 4514.4 | 4461.3 | 7211.4 | 9584.0 | 11207.3 | 10685.2 | 8724.7 | 4723.3 | 1324.7 | 357.3 | 227.2 |
| 80° | 2334.2 | 2372.6 | 3120.2 | 5022.0 | 6841.3 | 6295.3 | 4651.9 | 2189.4 | 705.4 | 197.9 | 174.1 |
| 82.5° | 1308.2 | 1227.5 | 1793.7 | 2193.1 | 3199.0 | 2508.2 | 1784.5 | 1550.0 | 307.8 | 119.1 | 164.9 |
| 85° | 238.2 | 249.2 | 983.9 | 1185.4 | 1110.3 | 705.4 | 575.3 | 1035.2 | 89.8 | 66.0 | 115.4 |
| 87.5° | 3.7 | 3.7 | 190.5 | 340.8 | 216.2 | 98.9 | 181.4 | 148.4 | 18.3 | 25.7 | 20.2 |
| 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° | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 |
| 2.5° | 4234.1 | 4164.5 | 4034.4 | 3906.2 | 3743.1 | 3609.4 | 3519.6 | 3426.1 | 3330.9 | 3338.2 | 3360.2 |
| 5° | 4160.8 | 4039.9 | 3783.4 | 3512.3 | 3252.1 | 3017.6 | 2786.7 | 2579.7 | 2495.4 | 2418.5 | 2422.1 |
| 7.5° | 4087.5 | 3917.2 | 3541.6 | 3116.5 | 2722.6 | 2323.2 | 2033.7 | 1795.5 | 1669.1 | 1573.8 | 1546.3 |
| 10° | 4054.6 | 3829.2 | 3319.9 | 2735.4 | 2176.6 | 1740.6 | 1368.6 | 1174.4 | 1024.2 | 976.5 | 989.4 |
| 12.5° | 4069.2 | 3785.2 | 3120.2 | 2391.0 | 1725.9 | 1212.9 | 952.7 | 853.8 | 820.8 | 815.3 | 811.6 |
| 15° | 4096.7 | 3754.1 | 2924.1 | 2009.9 | 1267.9 | 901.4 | 800.7 | 782.3 | 778.7 | 775.0 | 776.8 |
| 17.5° | 4133.4 | 3726.6 | 2715.3 | 1652.6 | 972.9 | 787.8 | 758.5 | 749.4 | 747.5 | 747.5 | 747.5 |
| 20° | 4170.0 | 3695.5 | 2482.6 | 1333.8 | 811.6 | 743.9 | 725.5 | 720.0 | 718.2 | 718.2 | 716.4 |
| 22.5° | 4212.1 | 3668.0 | 2246.2 | 1048.0 | 747.5 | 712.7 | 696.2 | 692.6 | 690.7 | 688.9 | 688.9 |
| 25° | 4272.6 | 3633.2 | 1995.2 | 857.5 | 707.2 | 683.4 | 666.9 | 663.2 | 661.4 | 654.1 | 655.9 |
| 27.5° | 4353.2 | 3607.5 | 1736.9 | 740.2 | 670.6 | 646.8 | 635.8 | 630.3 | 626.6 | 621.1 | 622.9 |
| 30° | 4463.1 | 3585.5 | 1462.1 | 676.1 | 628.4 | 608.3 | 597.3 | 593.6 | 590.0 | 584.5 | 584.5 |
| 32.5° | 4653.7 | 3594.7 | 1172.6 | 624.8 | 590.0 | 566.1 | 555.1 | 551.5 | 547.8 | 542.3 | 542.3 |
| 35° | 4939.5 | 3647.8 | 938.1 | 580.8 | 544.2 | 520.3 | 509.3 | 509.3 | 503.8 | 496.5 | 494.7 |
| 37.5° | 5406.7 | 3783.4 | 753.0 | 538.7 | 500.2 | 478.2 | 465.4 | 461.7 | 456.2 | 445.2 | 443.4 |
| 40° | 5958.2 | 3994.1 | 633.9 | 496.5 | 459.9 | 437.9 | 426.9 | 415.9 | 401.2 | 390.3 | 388.4 |
| 42.5° | 6650.7 | 4210.3 | 549.6 | 454.4 | 421.4 | 401.2 | 388.4 | 370.1 | 348.1 | 333.5 | 331.6 |
| 45° | 7372.6 | 4408.2 | 492.9 | 415.9 | 384.8 | 368.3 | 353.6 | 324.3 | 296.8 | 278.5 | 276.7 |
| 47.5° | 7911.3 | 4444.8 | 447.0 | 379.3 | 353.6 | 337.1 | 317.0 | 280.3 | 243.7 | 227.2 | 221.7 |
| 50° | 8165.9 | 4267.1 | 399.4 | 342.6 | 322.5 | 304.1 | 278.5 | 236.3 | 196.0 | 175.9 | 172.2 |
| 52.5° | 8255.7 | 3959.3 | 360.9 | 309.6 | 291.3 | 269.3 | 238.2 | 190.5 | 153.9 | 133.7 | 131.9 |
| 55° | 8219.1 | 3570.9 | 326.1 | 278.5 | 254.7 | 229.0 | 197.9 | 152.1 | 113.6 | 97.1 | 93.4 |
| 57.5° | 8026.7 | 3076.2 | 291.3 | 247.3 | 218.0 | 192.4 | 157.6 | 113.6 | 77.0 | 62.3 | 60.5 |
| 60° | 7508.2 | 2402.0 | 256.5 | 212.5 | 185.0 | 157.6 | 124.6 | 80.6 | 47.6 | 34.8 | 34.8 |
| 62.5° | 6632.4 | 1782.7 | 223.5 | 177.7 | 155.7 | 126.4 | 87.9 | 51.3 | 25.7 | 18.3 | 16.5 |
| 65° | 5542.3 | 1315.5 | 186.9 | 150.2 | 130.1 | 98.9 | 62.3 | 31.1 | 12.8 | 5.5 | 3.7 |
| 67.5° | 3867.7 | 811.6 | 155.7 | 122.8 | 106.3 | 71.5 | 38.5 | 12.8 | 5.5 | 0.0 | 0.0 |
| 70° | 1757.0 | 386.6 | 119.1 | 93.4 | 80.6 | 51.3 | 20.2 | 7.3 | 3.7 | 0.0 | 0.0 |
| 72.5° | 546.0 | 203.4 | 84.3 | 67.8 | 55.0 | 33.0 | 11.0 | 5.5 | 3.7 | 0.0 | 0.0 |
| 75° | 252.8 | 130.1 | 53.1 | 36.6 | 31.1 | 16.5 | 7.3 | 3.7 | 1.8 | 0.0 | 0.0 |
| 77.5° | 188.7 | 100.8 | 31.1 | 20.2 | 16.5 | 11.0 | 5.5 | 3.7 | 1.8 | 0.0 | 0.0 |
| 80° | 164.9 | 51.3 | 18.3 | 12.8 | 9.2 | 7.3 | 3.7 | 1.8 | 0.0 | 0.0 | 0.0 |
| 82.5° | 148.4 | 25.7 | 11.0 | 7.3 | 5.5 | 3.7 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 |
| 85° | 80.6 | 14.7 | 7.3 | 5.5 | 3.7 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 14.7 | 7.3 | 5.5 | 3.7 | 3.7 | 1.8 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 |
| 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)