

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: P383164

Luminaire Tested: **GAN-SA5A-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 17972.3 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

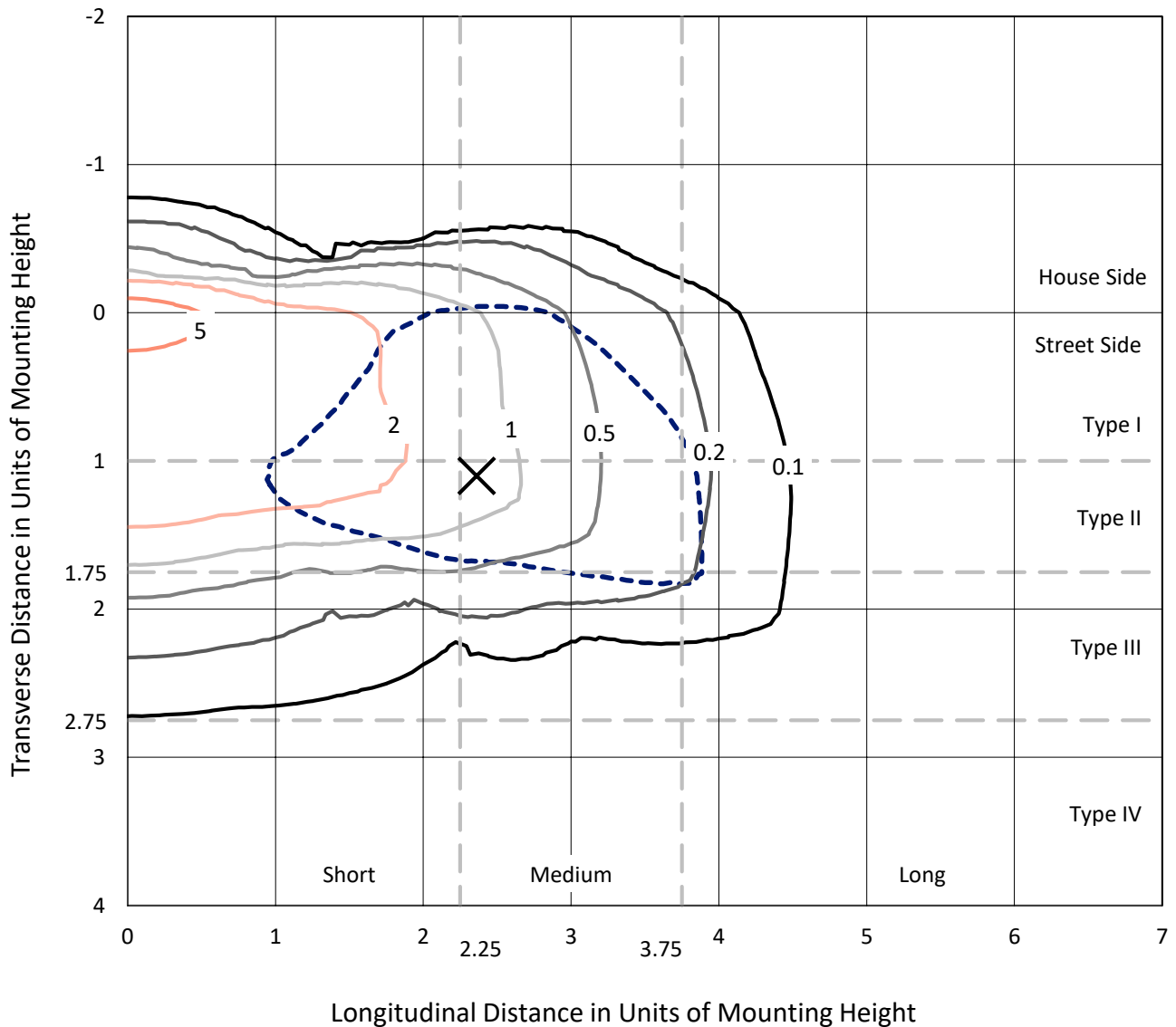
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

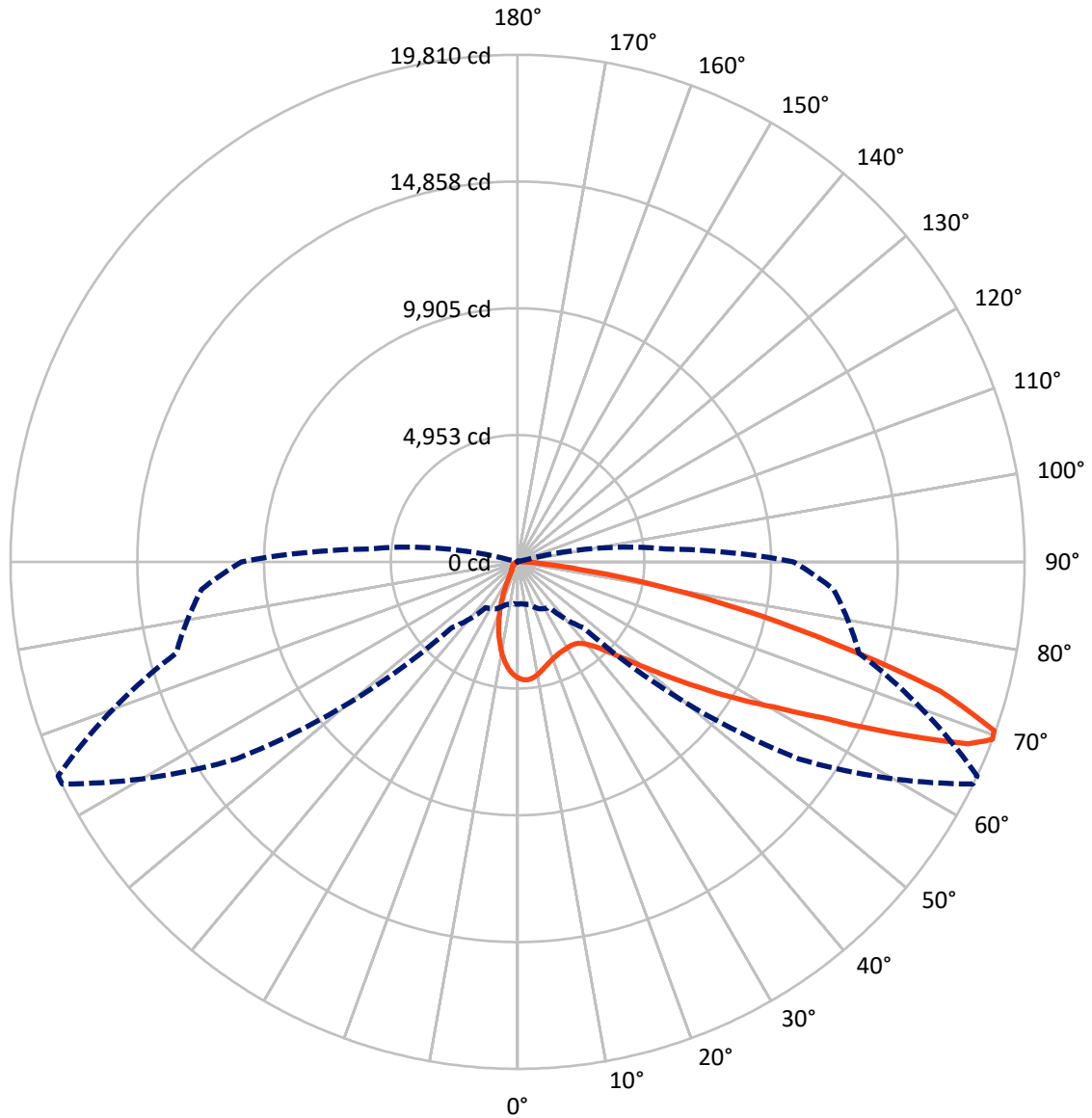
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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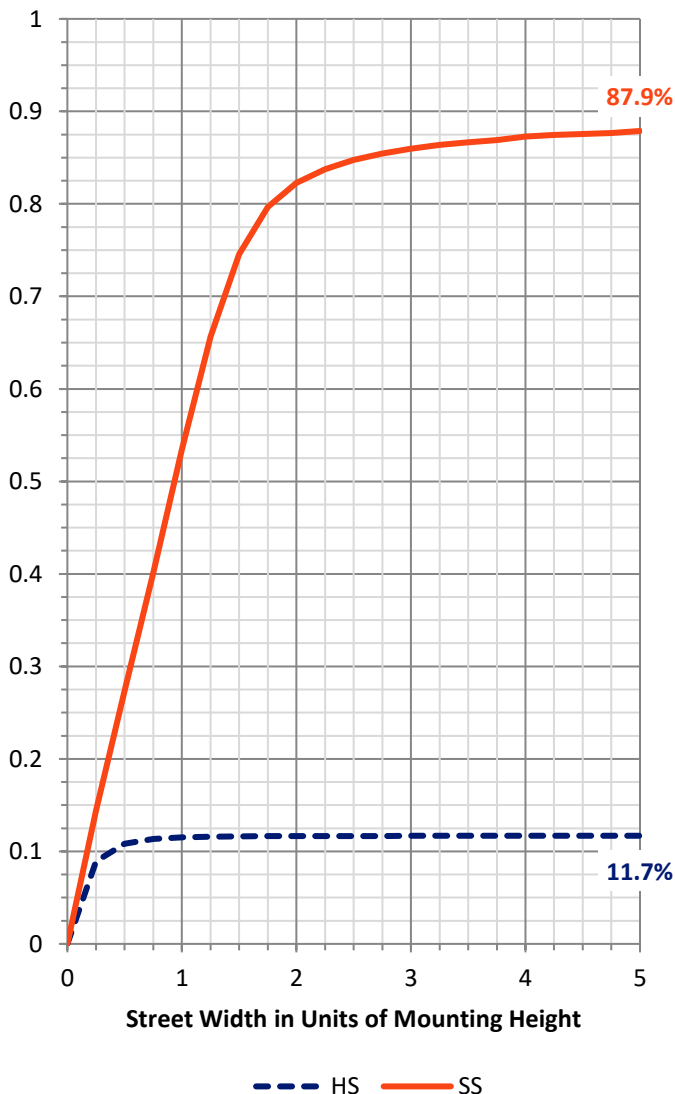
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2118.5 | 0.0 | 2118.5 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 15853.8 | 0.0 | 15853.8 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 17972.3 | 0.0 | 17972.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 379.8 | 2.1 |
| 10°-20° | 831.3 | 4.6 |
| 20°-30° | 1151.4 | 6.4 |
| 30°-40° | 1605.5 | 8.9 |
| 40°-50° | 2495.4 | 13.9 |
| 50°-60° | 4006.2 | 22.3 |
| 60°-70° | 4531.6 | 25.2 |
| 70°-80° | 2661.5 | 14.8 |
| 80°-90° | 309.6 | 1.7 |
| 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° | 17972.3 | 100.0 |
| 0°-180° | 17972.3 | 100.0 |

Coefficient of Utilization

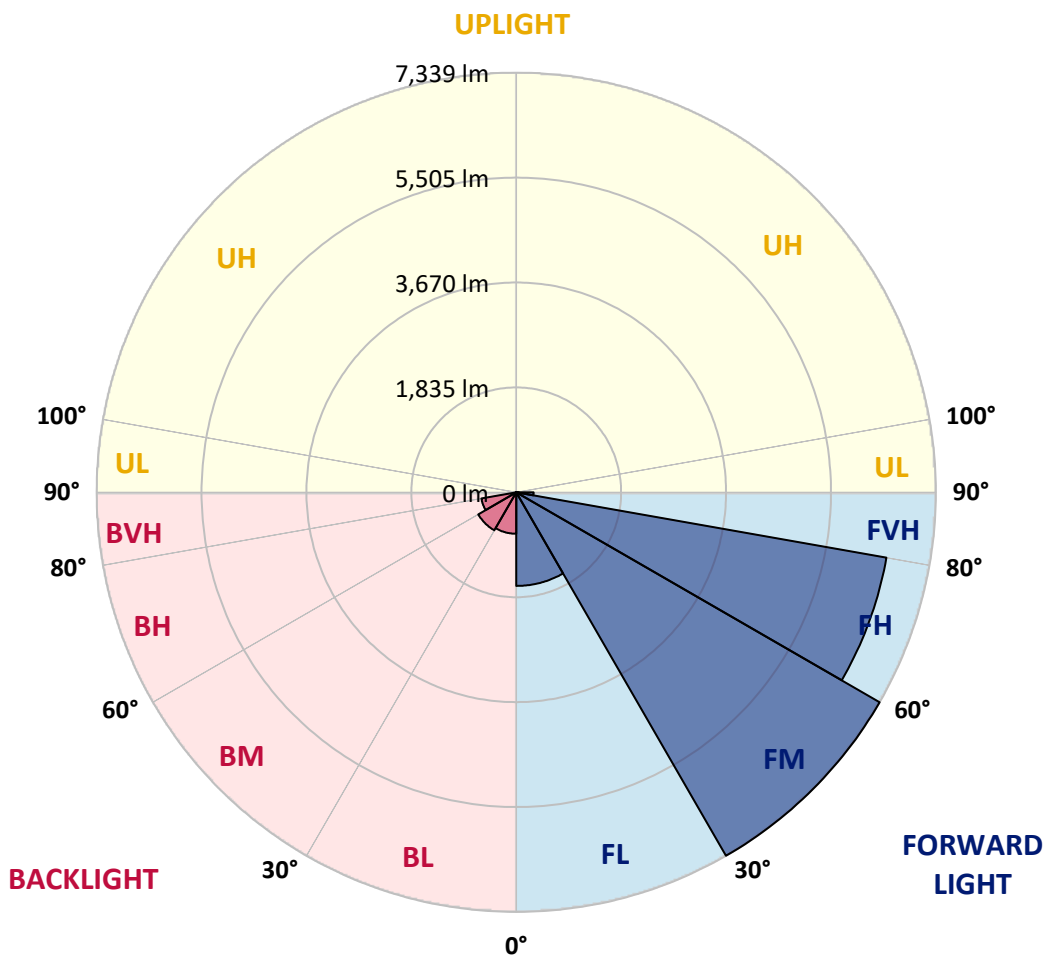


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1637.7 | 9.1 | | | |
| FM (30°-60°) | 7339.4 | 40.8 | | | |
| FH (60°-80°) | 6574.1 | 36.6 | | | G3/7500 |
| FVH (80°-90°) | 302.6 | 1.7 | | | G3/500 |
| BL (0°-30°) | 724.9 | 4.0 | B2/1000 | | |
| BM (30°-60°) | 767.7 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 619.0 | 3.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.0 | 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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 |
| 2.5° | 4581.9 | 4570.5 | 4579.7 | 4599.4 | 4609.3 | 4609.3 | 4616.9 | 4607.8 | 4610.9 | 4588.8 | 4556.9 |
| 5° | 4295.3 | 4277.8 | 4302.8 | 4358.3 | 4426.8 | 4485.4 | 4572.0 | 4617.7 | 4622.2 | 4623.0 | 4585.7 |
| 7.5° | 3986.5 | 3970.5 | 4007.8 | 4073.2 | 4161.4 | 4270.1 | 4421.5 | 4553.8 | 4561.4 | 4632.9 | 4605.6 |
| 10° | 3735.5 | 3724.1 | 3767.5 | 3837.4 | 3940.8 | 4062.6 | 4248.1 | 4432.1 | 4454.2 | 4612.4 | 4602.5 |
| 12.5° | 3536.2 | 3527.1 | 3568.2 | 3648.9 | 3754.5 | 3889.1 | 4083.1 | 4296.8 | 4326.4 | 4566.0 | 4587.3 |
| 15° | 3391.0 | 3389.5 | 3423.7 | 3501.3 | 3618.4 | 3743.9 | 3942.4 | 4171.3 | 4205.5 | 4515.8 | 4585.0 |
| 17.5° | 3315.0 | 3317.2 | 3342.4 | 3408.5 | 3508.9 | 3633.6 | 3823.7 | 4065.6 | 4102.8 | 4471.0 | 4596.4 |
| 20° | 3307.4 | 3309.7 | 3323.3 | 3360.6 | 3442.0 | 3552.3 | 3727.1 | 3976.6 | 4015.3 | 4437.4 | 4614.6 |
| 22.5° | 3374.3 | 3372.8 | 3376.6 | 3372.8 | 3418.4 | 3502.1 | 3663.3 | 3908.1 | 3953.0 | 4415.4 | 4629.1 |
| 25° | 3502.8 | 3500.6 | 3499.0 | 3470.9 | 3440.5 | 3485.3 | 3636.7 | 3869.4 | 3911.9 | 4399.4 | 4637.4 |
| 27.5° | 3681.6 | 3680.0 | 3677.7 | 3631.4 | 3540.1 | 3511.9 | 3639.7 | 3854.9 | 3890.7 | 4386.5 | 4635.9 |
| 30° | 3916.5 | 3927.1 | 3924.1 | 3859.5 | 3717.2 | 3593.4 | 3671.6 | 3847.3 | 3878.5 | 4361.4 | 4620.0 |
| 32.5° | 4192.6 | 4213.9 | 4230.6 | 4161.4 | 3983.5 | 3754.5 | 3745.4 | 3855.7 | 3878.5 | 4342.4 | 4591.0 |
| 35° | 4479.3 | 4506.6 | 4568.2 | 4543.9 | 4309.7 | 3997.2 | 3872.4 | 3905.9 | 3924.9 | 4353.0 | 4577.3 |
| 37.5° | 4761.4 | 4794.1 | 4928.0 | 4998.7 | 4737.1 | 4318.1 | 4070.1 | 4029.9 | 4039.7 | 4417.7 | 4592.6 |
| 40° | 5089.2 | 5138.6 | 5341.7 | 5455.8 | 5247.4 | 4747.7 | 4366.0 | 4242.7 | 4246.6 | 4559.9 | 4663.3 |
| 42.5° | 5519.6 | 5570.6 | 5790.4 | 5969.1 | 5822.3 | 5290.7 | 4767.5 | 4568.2 | 4564.5 | 4826.1 | 4829.9 |
| 45° | 6044.3 | 6097.6 | 6325.0 | 6523.4 | 6457.3 | 5934.1 | 5281.6 | 5043.6 | 5039.0 | 5245.8 | 5145.5 |
| 47.5° | 6639.0 | 6691.6 | 6894.6 | 7099.1 | 7170.7 | 6685.4 | 5936.4 | 5692.2 | 5681.6 | 5829.2 | 5633.0 |
| 50° | 7149.3 | 7183.6 | 7370.7 | 7646.0 | 7968.4 | 7608.7 | 6750.8 | 6515.9 | 6504.4 | 6604.1 | 6348.6 |
| 52.5° | 7334.9 | 7354.7 | 7544.8 | 7930.4 | 8735.0 | 8858.9 | 7820.9 | 7518.2 | 7509.9 | 7553.2 | 7301.5 |
| 55° | 6959.2 | 6995.0 | 7228.4 | 7800.3 | 9150.2 | 10271.9 | 9171.5 | 8759.3 | 8696.2 | 8602.7 | 8297.7 |
| 57.5° | 5935.6 | 5992.6 | 6243.6 | 7004.1 | 8956.3 | 11392.9 | 11156.4 | 10163.2 | 10070.4 | 9498.5 | 9107.6 |
| 60° | 4447.3 | 4517.4 | 4725.6 | 5546.2 | 7921.2 | 11792.2 | 13325.3 | 11727.5 | 11518.4 | 10211.8 | 9852.1 |
| 62.5° | 3051.8 | 3086.9 | 3228.3 | 3762.9 | 5833.7 | 11138.1 | 15139.8 | 13822.7 | 13440.9 | 10987.5 | 10657.5 |
| 65° | 2330.9 | 2343.0 | 2400.9 | 2584.9 | 3473.9 | 9047.6 | 15861.6 | 16587.0 | 16125.5 | 11915.3 | 11493.2 |
| 67.5° | 1878.4 | 1868.5 | 1948.3 | 2211.5 | 2326.4 | 5519.6 | 15019.7 | 19202.4 | 18986.3 | 13155.7 | 12334.3 |
| 69° | 1656.4 | 1642.7 | 1724.0 | 2029.7 | 2184.9 | 3648.9 | 13427.2 | 19796.3 | 19810.0 | 13810.5 | 12392.2 |
| 70° | 1490.6 | 1499.7 | 1580.3 | 1921.8 | 2137.0 | 2864.0 | 11906.2 | 19644.9 | 19753.0 | 14055.4 | 12045.4 |
| 72.5° | 995.5 | 1019.9 | 1181.8 | 1595.5 | 2054.8 | 2167.4 | 7188.9 | 16857.8 | 17273.0 | 13504.0 | 10334.3 |
| 75° | 561.3 | 579.5 | 771.9 | 1203.1 | 1936.2 | 2063.9 | 3797.1 | 12419.6 | 12821.1 | 11292.5 | 7969.2 |
| 77.5° | 275.3 | 285.1 | 436.5 | 776.4 | 1619.1 | 1966.6 | 2153.7 | 8436.1 | 8894.7 | 7370.7 | 4507.4 |
| 80° | 116.4 | 121.7 | 218.3 | 479.1 | 1157.4 | 1876.9 | 1599.3 | 5191.9 | 5248.9 | 2887.6 | 1200.9 |
| 82.5° | 44.9 | 46.4 | 92.0 | 298.8 | 735.4 | 1463.2 | 1337.7 | 2461.7 | 2402.4 | 543.7 | 273.8 |
| 85° | 5.3 | 6.1 | 33.4 | 179.5 | 409.1 | 752.9 | 1086.7 | 1060.8 | 981.8 | 108.0 | 140.7 |
| 87.5° | 0.0 | 0.0 | 2.2 | 54.8 | 121.7 | 352.9 | 565.1 | 440.3 | 396.9 | 35.0 | 73.0 |
| 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° | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 | 4541.7 |
| 2.5° | 4530.2 | 4522.7 | 4481.6 | 4422.2 | 4366.0 | 4296.0 | 4229.0 | 4188.8 | 4156.8 | 4135.5 | 4160.7 |
| 5° | 4542.4 | 4509.0 | 4384.2 | 4224.5 | 4067.9 | 3891.4 | 3727.1 | 3587.9 | 3533.3 | 3472.4 | 3499.7 |
| 7.5° | 4538.6 | 4475.5 | 4251.1 | 3966.7 | 3679.2 | 3381.9 | 3100.5 | 2883.8 | 2771.3 | 2661.0 | 2689.1 |
| 10° | 4519.6 | 4413.1 | 4073.2 | 3651.9 | 3221.5 | 2794.1 | 2394.8 | 2091.3 | 1921.8 | 1768.2 | 1790.2 |
| 12.5° | 4477.8 | 4329.5 | 3863.3 | 3291.4 | 2715.7 | 2152.2 | 1684.5 | 1295.9 | 1087.5 | 995.5 | 1006.9 |
| 15° | 4452.7 | 4248.1 | 3641.2 | 2926.4 | 2175.7 | 1499.0 | 1029.7 | 765.8 | 670.7 | 640.3 | 644.2 |
| 17.5° | 4440.5 | 4169.8 | 3411.5 | 2508.8 | 1623.7 | 954.4 | 665.4 | 587.1 | 566.6 | 561.3 | 562.7 |
| 20° | 4428.3 | 4090.7 | 3175.1 | 2095.9 | 1118.7 | 641.8 | 546.8 | 524.0 | 516.4 | 509.6 | 511.0 |
| 22.5° | 4407.8 | 4014.6 | 2921.1 | 1677.6 | 754.4 | 520.9 | 492.8 | 470.7 | 454.8 | 446.4 | 447.9 |
| 25° | 4382.7 | 3934.8 | 2661.7 | 1249.5 | 550.6 | 464.7 | 438.0 | 406.9 | 387.8 | 372.6 | 373.4 |
| 27.5° | 4342.4 | 3836.7 | 2394.0 | 909.6 | 462.4 | 416.0 | 380.3 | 346.0 | 314.1 | 296.6 | 296.6 |
| 30° | 4286.1 | 3725.6 | 2096.6 | 651.0 | 414.4 | 368.1 | 324.7 | 282.2 | 247.9 | 232.0 | 230.5 |
| 32.5° | 4223.7 | 3610.0 | 1796.3 | 493.5 | 376.4 | 323.2 | 273.8 | 228.9 | 198.5 | 185.6 | 184.8 |
| 35° | 4170.5 | 3485.3 | 1496.6 | 413.7 | 338.4 | 279.8 | 225.9 | 187.8 | 163.5 | 152.9 | 152.1 |
| 37.5° | 4136.3 | 3360.6 | 1204.6 | 369.6 | 304.2 | 239.6 | 189.4 | 155.1 | 137.7 | 129.3 | 128.6 |
| 40° | 4130.9 | 3267.9 | 937.7 | 336.1 | 272.3 | 203.8 | 158.2 | 131.5 | 115.6 | 106.5 | 105.7 |
| 42.5° | 4200.2 | 3214.6 | 719.4 | 308.0 | 239.6 | 172.6 | 134.6 | 112.5 | 95.9 | 86.7 | 86.0 |
| 45° | 4381.9 | 3231.4 | 553.6 | 282.9 | 206.9 | 146.0 | 114.1 | 93.5 | 78.3 | 71.4 | 70.0 |
| 47.5° | 4713.5 | 3347.0 | 440.3 | 257.9 | 175.7 | 124.0 | 97.3 | 77.6 | 64.6 | 57.8 | 57.0 |
| 50° | 5303.7 | 3618.4 | 368.1 | 230.5 | 146.8 | 105.7 | 80.6 | 63.2 | 52.4 | 46.4 | 45.6 |
| 52.5° | 6086.9 | 4102.1 | 328.6 | 203.8 | 121.7 | 89.7 | 66.1 | 50.2 | 41.1 | 36.5 | 35.8 |
| 55° | 6950.8 | 4687.6 | 302.7 | 174.9 | 99.6 | 74.5 | 52.4 | 39.6 | 32.0 | 28.1 | 26.6 |
| 57.5° | 7794.3 | 5194.9 | 278.3 | 146.8 | 82.9 | 60.8 | 41.8 | 31.2 | 25.1 | 21.3 | 20.5 |
| 60° | 8569.2 | 5661.1 | 250.2 | 117.8 | 67.7 | 47.9 | 32.7 | 24.3 | 19.7 | 15.9 | 15.9 |
| 62.5° | 9398.8 | 6021.5 | 211.5 | 92.0 | 55.5 | 36.5 | 26.6 | 22.1 | 15.9 | 13.7 | 12.9 |
| 65° | 10278.0 | 6289.3 | 165.8 | 71.4 | 43.3 | 27.4 | 22.1 | 22.8 | 12.9 | 9.9 | 9.1 |
| 67.5° | 10927.5 | 6236.1 | 122.4 | 56.3 | 33.4 | 21.3 | 21.3 | 24.3 | 11.4 | 7.6 | 6.8 |
| 69° | 10784.5 | 5803.3 | 102.7 | 48.6 | 28.9 | 18.3 | 19.7 | 24.3 | 10.6 | 6.8 | 6.1 |
| 70° | 10370.1 | 5324.2 | 90.5 | 43.3 | 25.9 | 16.8 | 19.0 | 23.6 | 9.9 | 6.8 | 6.1 |
| 72.5° | 8636.1 | 4010.0 | 70.7 | 32.7 | 20.5 | 13.7 | 15.9 | 20.5 | 9.9 | 6.8 | 5.3 |
| 75° | 6496.1 | 2566.7 | 54.0 | 23.6 | 15.2 | 10.6 | 12.2 | 15.2 | 9.9 | 6.1 | 5.3 |
| 77.5° | 3534.8 | 925.5 | 38.8 | 15.9 | 10.6 | 8.4 | 8.4 | 11.4 | 9.1 | 4.6 | 3.1 |
| 80° | 908.8 | 232.7 | 24.3 | 10.6 | 8.4 | 6.1 | 5.3 | 7.6 | 5.3 | 0.7 | 0.0 |
| 82.5° | 224.3 | 52.4 | 12.9 | 7.6 | 6.1 | 2.2 | 2.2 | 3.8 | 2.2 | 0.0 | 0.0 |
| 85° | 123.2 | 25.9 | 8.4 | 5.3 | 3.1 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 |
| 87.5° | 63.2 | 7.6 | 2.2 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 | 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)