

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: P323217

Luminaire Tested: **GAN-SA3D-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323217
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-SA3D-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA 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: 19621 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

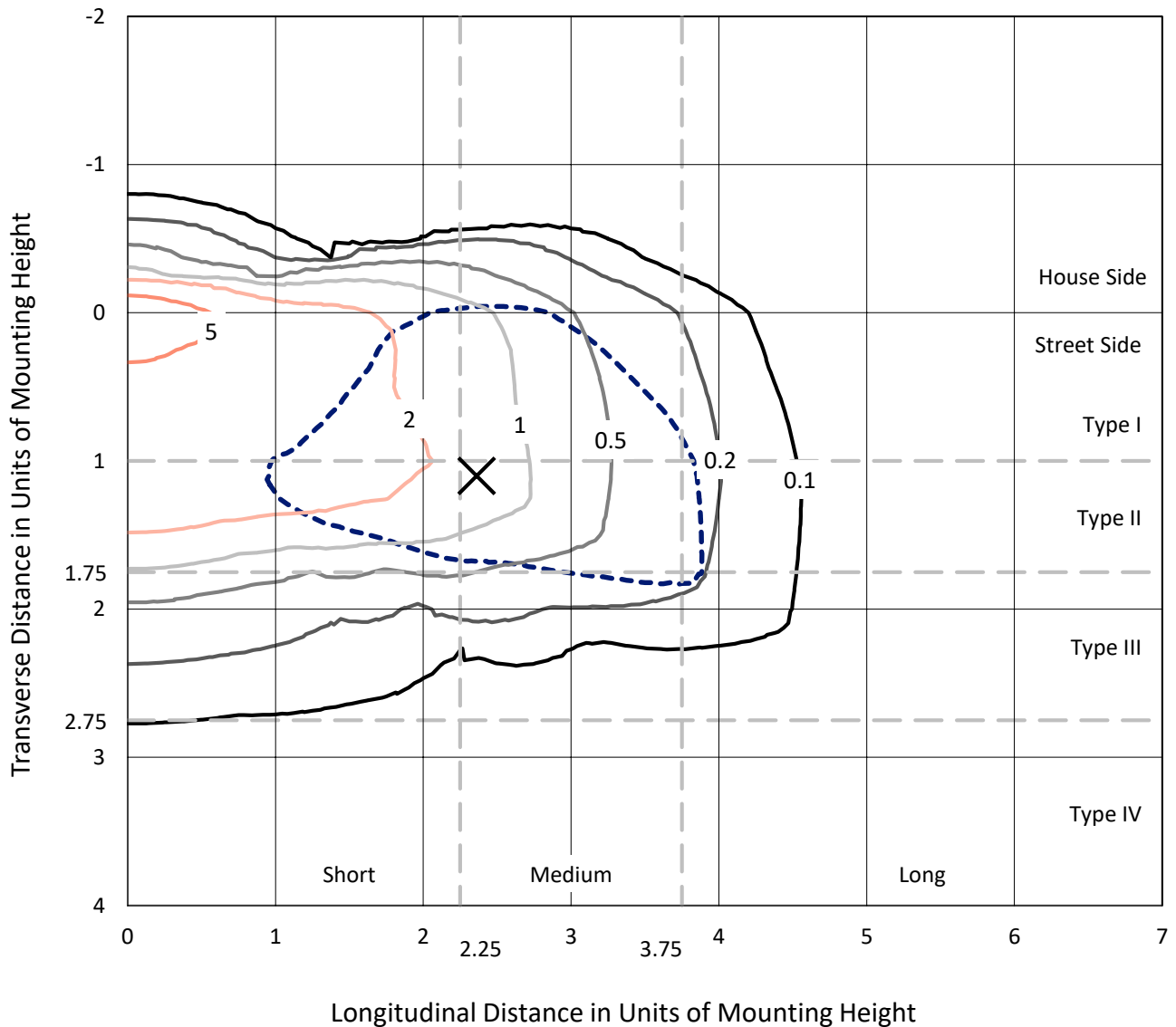
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

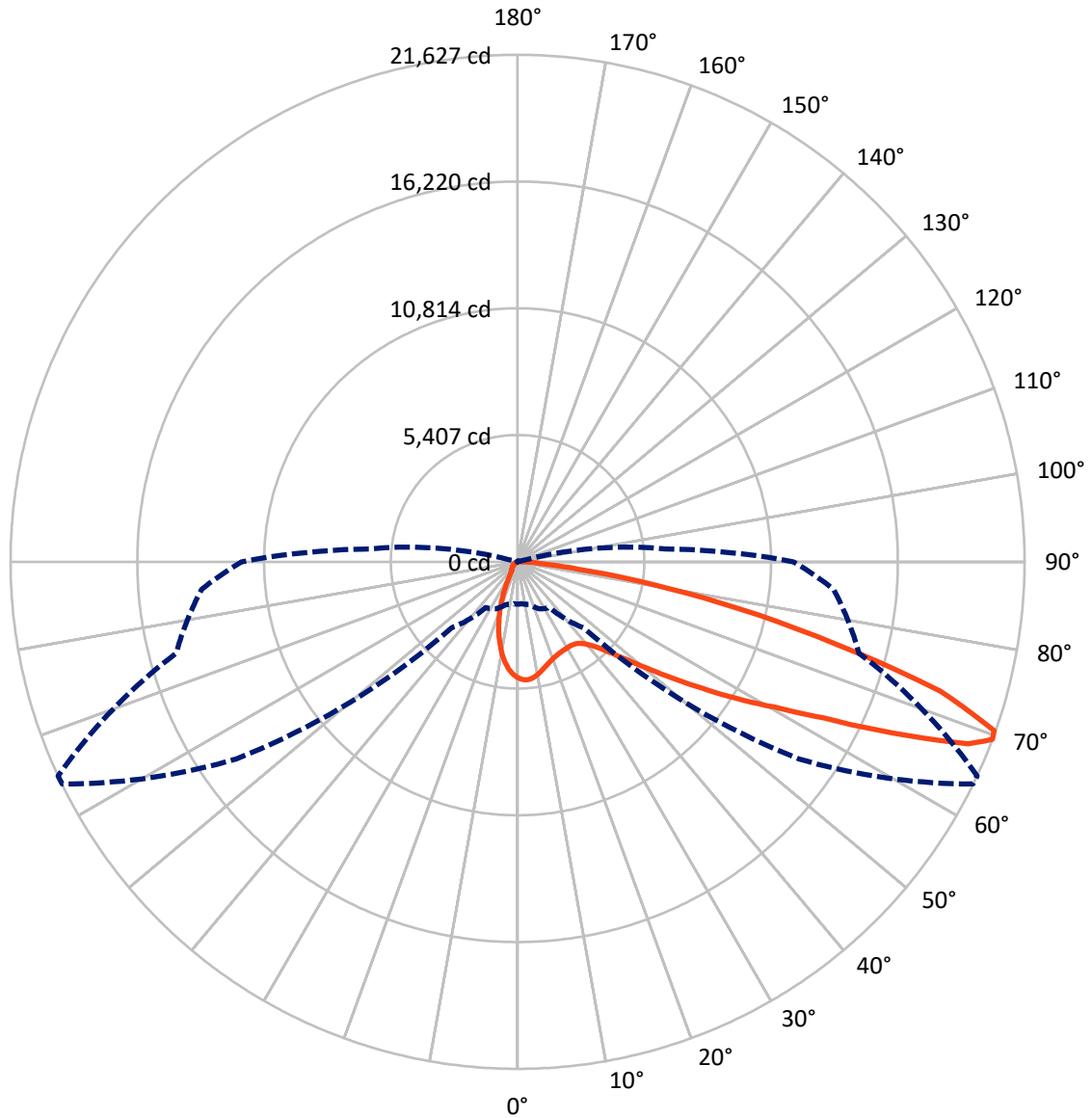
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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 | 2312.8 | 0.0 | 2312.8 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 17308.2 | 0.0 | 17308.2 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 19621.0 | 0.0 | 19621.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 414.6 | 2.1 |
| 10°-20° | 907.6 | 4.6 |
| 20°-30° | 1257.1 | 6.4 |
| 30°-40° | 1752.8 | 8.9 |
| 40°-50° | 2724.4 | 13.9 |
| 50°-60° | 4373.7 | 22.3 |
| 60°-70° | 4947.3 | 25.2 |
| 70°-80° | 2905.6 | 14.8 |
| 80°-90° | 338.0 | 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° | 19621.0 | 100.0 |
| 0°-180° | 19621.0 | 100.0 |

Coefficient of Utilization

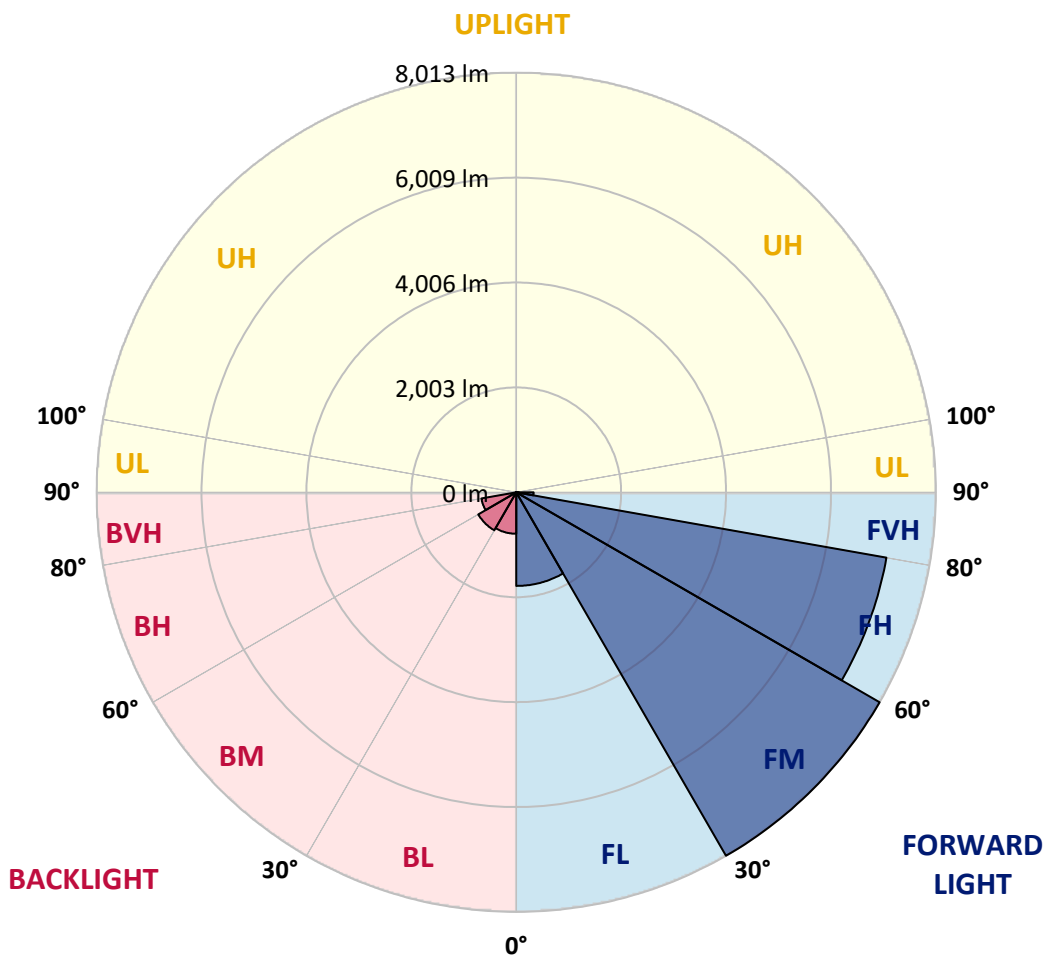


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1787.9 | 9.1 | | | |
| FM (30°-60°) | 8012.7 | 40.8 | | | |
| FH (60°-80°) | 7177.2 | 36.6 | | | G3/7500 |
| FVH (80°-90°) | 330.4 | 1.7 | | | G3/500 |
| BL (0°-30°) | 791.4 | 4.0 | B2/1000 | | |
| BM (30°-60°) | 838.1 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 675.8 | 3.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.6 | 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° | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 |
| 2.5° | 5002.3 | 4989.8 | 4999.8 | 5021.4 | 5032.2 | 5032.2 | 5040.5 | 5030.5 | 5033.8 | 5009.7 | 4974.9 |
| 5° | 4689.3 | 4670.2 | 4697.6 | 4758.2 | 4832.9 | 4896.8 | 4991.5 | 5041.3 | 5046.3 | 5047.1 | 5006.4 |
| 7.5° | 4352.2 | 4334.7 | 4375.4 | 4446.8 | 4543.1 | 4661.9 | 4827.1 | 4971.5 | 4979.8 | 5057.9 | 5028.0 |
| 10° | 4078.2 | 4065.7 | 4113.1 | 4189.4 | 4302.4 | 4435.2 | 4637.8 | 4838.7 | 4862.8 | 5035.5 | 5024.7 |
| 12.5° | 3860.7 | 3850.7 | 3895.5 | 3983.5 | 4099.0 | 4245.9 | 4457.6 | 4690.9 | 4723.3 | 4984.8 | 5008.1 |
| 15° | 3702.1 | 3700.4 | 3737.8 | 3822.5 | 3950.3 | 4087.3 | 4304.0 | 4553.9 | 4591.3 | 4930.0 | 5005.6 |
| 17.5° | 3619.1 | 3621.6 | 3649.0 | 3721.2 | 3830.8 | 3966.9 | 4174.5 | 4438.5 | 4479.2 | 4881.0 | 5018.0 |
| 20° | 3610.8 | 3613.3 | 3628.2 | 3668.9 | 3757.7 | 3878.1 | 4069.1 | 4341.4 | 4383.7 | 4844.5 | 5038.0 |
| 22.5° | 3683.8 | 3682.2 | 3686.3 | 3682.2 | 3732.0 | 3823.3 | 3999.3 | 4266.7 | 4315.6 | 4820.4 | 5053.7 |
| 25° | 3824.1 | 3821.6 | 3820.0 | 3789.3 | 3756.1 | 3805.0 | 3970.3 | 4224.3 | 4270.8 | 4803.0 | 5062.9 |
| 27.5° | 4019.2 | 4017.6 | 4015.1 | 3964.5 | 3864.8 | 3834.1 | 3973.6 | 4208.5 | 4247.6 | 4788.9 | 5061.2 |
| 30° | 4275.8 | 4287.4 | 4284.1 | 4213.5 | 4058.3 | 3922.9 | 4008.5 | 4200.2 | 4234.3 | 4761.5 | 5043.8 |
| 32.5° | 4577.2 | 4600.4 | 4618.7 | 4543.1 | 4348.9 | 4099.0 | 4089.0 | 4209.4 | 4234.3 | 4740.7 | 5012.2 |
| 35° | 4890.2 | 4920.1 | 4987.3 | 4960.8 | 4705.0 | 4363.8 | 4227.6 | 4264.2 | 4284.9 | 4752.4 | 4997.3 |
| 37.5° | 5198.2 | 5233.9 | 5380.0 | 5457.2 | 5171.6 | 4714.2 | 4443.5 | 4399.5 | 4410.3 | 4822.9 | 5013.9 |
| 40° | 5556.0 | 5610.0 | 5831.7 | 5956.2 | 5728.7 | 5183.3 | 4766.5 | 4632.0 | 4636.1 | 4978.2 | 5091.1 |
| 42.5° | 6026.0 | 6081.6 | 6321.5 | 6516.6 | 6356.4 | 5776.1 | 5204.8 | 4987.3 | 4983.2 | 5268.8 | 5272.9 |
| 45° | 6598.8 | 6657.0 | 6905.2 | 7121.9 | 7049.7 | 6478.5 | 5766.1 | 5506.2 | 5501.2 | 5727.1 | 5617.5 |
| 47.5° | 7248.1 | 7305.4 | 7527.1 | 7750.4 | 7828.4 | 7298.7 | 6480.9 | 6214.4 | 6202.8 | 6363.9 | 6149.7 |
| 50° | 7805.2 | 7842.6 | 8046.8 | 8347.3 | 8699.4 | 8306.7 | 7370.1 | 7113.6 | 7101.1 | 7209.9 | 6930.9 |
| 52.5° | 8007.8 | 8029.4 | 8236.9 | 8657.9 | 9536.3 | 9671.6 | 8538.3 | 8207.9 | 8198.7 | 8246.1 | 7971.2 |
| 55° | 7597.6 | 7636.7 | 7891.5 | 8515.9 | 9989.6 | 11214.2 | 10012.8 | 9562.8 | 9493.9 | 9391.8 | 9058.9 |
| 57.5° | 6480.1 | 6542.4 | 6816.4 | 7646.6 | 9777.9 | 12438.0 | 12179.8 | 11095.5 | 10994.2 | 10369.8 | 9943.1 |
| 60° | 4855.3 | 4931.7 | 5159.2 | 6055.0 | 8647.9 | 12873.9 | 14547.7 | 12803.3 | 12575.0 | 11148.6 | 10755.9 |
| 62.5° | 3331.8 | 3370.0 | 3524.4 | 4108.1 | 6368.9 | 12159.9 | 16528.6 | 15090.6 | 14673.9 | 11995.5 | 11635.1 |
| 65° | 2544.7 | 2558.0 | 2621.1 | 2822.0 | 3792.6 | 9877.5 | 17316.6 | 18108.6 | 17604.6 | 13008.4 | 12547.6 |
| 67.5° | 2050.7 | 2039.9 | 2127.1 | 2414.4 | 2539.7 | 6026.0 | 16397.5 | 20963.8 | 20728.1 | 14362.5 | 13465.8 |
| 69° | 1808.3 | 1793.3 | 1882.2 | 2215.9 | 2385.3 | 3983.5 | 14658.9 | 21612.3 | 21627.2 | 15077.4 | 13528.9 |
| 70° | 1627.3 | 1637.3 | 1725.3 | 2098.0 | 2333.0 | 3126.7 | 12998.4 | 21447.1 | 21564.9 | 15344.7 | 13150.4 |
| 72.5° | 1086.8 | 1113.4 | 1290.2 | 1741.9 | 2243.3 | 2366.2 | 7848.4 | 18404.2 | 18857.5 | 14742.8 | 11282.3 |
| 75° | 612.7 | 632.7 | 842.7 | 1313.5 | 2113.8 | 2253.3 | 4145.4 | 13558.8 | 13997.2 | 12328.4 | 8700.2 |
| 77.5° | 300.6 | 311.3 | 476.6 | 847.7 | 1767.6 | 2147.0 | 2351.3 | 9210.0 | 9710.6 | 8046.8 | 4920.9 |
| 80° | 127.0 | 132.8 | 238.3 | 523.1 | 1263.6 | 2049.1 | 1746.0 | 5668.1 | 5730.4 | 3152.5 | 1311.0 |
| 82.5° | 49.0 | 50.6 | 100.5 | 326.3 | 802.9 | 1597.4 | 1460.4 | 2687.5 | 2622.8 | 593.6 | 298.9 |
| 85° | 5.8 | 6.6 | 36.5 | 195.9 | 446.7 | 821.9 | 1186.4 | 1158.2 | 1071.9 | 117.9 | 153.6 |
| 87.5° | 0.0 | 0.0 | 2.5 | 59.8 | 132.8 | 385.2 | 616.9 | 480.7 | 433.4 | 38.2 | 79.7 |
| 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° | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 | 4958.3 |
| 2.5° | 4945.8 | 4937.5 | 4892.7 | 4827.9 | 4766.5 | 4690.1 | 4617.0 | 4573.0 | 4538.2 | 4514.9 | 4542.3 |
| 5° | 4959.1 | 4922.6 | 4786.4 | 4612.0 | 4441.0 | 4248.4 | 4069.1 | 3917.1 | 3857.3 | 3790.9 | 3820.8 |
| 7.5° | 4954.9 | 4886.0 | 4641.1 | 4330.6 | 4016.8 | 3692.1 | 3384.9 | 3148.3 | 3025.4 | 2905.0 | 2935.8 |
| 10° | 4934.2 | 4817.9 | 4446.8 | 3986.9 | 3516.9 | 3050.3 | 2614.5 | 2283.2 | 2098.0 | 1930.3 | 1954.4 |
| 12.5° | 4888.5 | 4726.6 | 4217.7 | 3593.3 | 2964.8 | 2349.6 | 1839.0 | 1414.7 | 1187.3 | 1086.8 | 1099.3 |
| 15° | 4861.1 | 4637.8 | 3975.2 | 3194.8 | 2375.3 | 1636.4 | 1124.2 | 836.1 | 732.3 | 699.1 | 703.2 |
| 17.5° | 4847.8 | 4552.3 | 3724.5 | 2739.0 | 1772.6 | 1042.0 | 726.5 | 641.0 | 618.5 | 612.7 | 614.4 |
| 20° | 4834.6 | 4465.9 | 3466.3 | 2288.2 | 1221.3 | 700.7 | 597.0 | 572.0 | 563.7 | 556.3 | 557.9 |
| 22.5° | 4812.1 | 4382.9 | 3189.0 | 1831.5 | 823.6 | 568.7 | 538.0 | 513.9 | 496.5 | 487.4 | 489.0 |
| 25° | 4784.7 | 4295.7 | 2905.9 | 1364.1 | 601.1 | 507.3 | 478.2 | 444.2 | 423.4 | 406.8 | 407.7 |
| 27.5° | 4740.7 | 4188.6 | 2613.6 | 993.0 | 504.8 | 454.1 | 415.1 | 377.8 | 342.9 | 323.8 | 323.8 |
| 30° | 4679.3 | 4067.4 | 2289.0 | 710.7 | 452.5 | 401.8 | 354.5 | 308.0 | 270.7 | 253.2 | 251.6 |
| 32.5° | 4611.2 | 3941.2 | 1961.1 | 538.8 | 411.0 | 352.9 | 298.9 | 249.9 | 216.7 | 202.6 | 201.8 |
| 35° | 4553.1 | 3805.0 | 1633.9 | 451.7 | 369.5 | 305.5 | 246.6 | 205.1 | 178.5 | 166.9 | 166.1 |
| 37.5° | 4515.7 | 3668.9 | 1315.1 | 403.5 | 332.1 | 261.5 | 206.7 | 169.4 | 150.3 | 141.1 | 140.3 |
| 40° | 4509.9 | 3567.6 | 1023.7 | 367.0 | 297.2 | 222.5 | 172.7 | 143.6 | 126.2 | 116.2 | 115.4 |
| 42.5° | 4585.5 | 3509.5 | 785.4 | 336.3 | 261.5 | 188.5 | 147.0 | 122.9 | 104.6 | 94.6 | 93.8 |
| 45° | 4783.9 | 3527.7 | 604.4 | 308.9 | 225.8 | 159.4 | 124.5 | 102.1 | 85.5 | 78.0 | 76.4 |
| 47.5° | 5145.9 | 3653.9 | 480.7 | 281.5 | 191.8 | 135.3 | 106.3 | 84.7 | 70.6 | 63.1 | 62.3 |
| 50° | 5790.2 | 3950.3 | 401.8 | 251.6 | 160.2 | 115.4 | 88.0 | 68.9 | 57.3 | 50.6 | 49.8 |
| 52.5° | 6645.3 | 4478.4 | 358.7 | 222.5 | 132.8 | 98.0 | 72.2 | 54.8 | 44.8 | 39.9 | 39.0 |
| 55° | 7588.5 | 5117.7 | 330.4 | 191.0 | 108.8 | 81.4 | 57.3 | 43.2 | 34.9 | 30.7 | 29.1 |
| 57.5° | 8509.2 | 5671.4 | 303.9 | 160.2 | 90.5 | 66.4 | 45.7 | 34.0 | 27.4 | 23.2 | 22.4 |
| 60° | 9355.3 | 6180.4 | 273.2 | 128.7 | 73.9 | 52.3 | 35.7 | 26.6 | 21.6 | 17.4 | 17.4 |
| 62.5° | 10261.1 | 6573.9 | 230.8 | 100.5 | 60.6 | 39.9 | 29.1 | 24.1 | 17.4 | 14.9 | 14.1 |
| 65° | 11220.8 | 6866.2 | 181.0 | 78.0 | 47.3 | 29.9 | 24.1 | 24.9 | 14.1 | 10.8 | 10.0 |
| 67.5° | 11929.9 | 6808.1 | 133.7 | 61.4 | 36.5 | 23.2 | 23.2 | 26.6 | 12.5 | 8.3 | 7.5 |
| 69° | 11773.8 | 6335.6 | 112.1 | 53.1 | 31.5 | 19.9 | 21.6 | 26.6 | 11.6 | 7.5 | 6.6 |
| 70° | 11321.3 | 5812.6 | 98.8 | 47.3 | 28.2 | 18.3 | 20.8 | 25.7 | 10.8 | 7.5 | 6.6 |
| 72.5° | 9428.3 | 4377.9 | 77.2 | 35.7 | 22.4 | 14.9 | 17.4 | 22.4 | 10.8 | 7.5 | 5.8 |
| 75° | 7092.0 | 2802.1 | 58.9 | 25.7 | 16.6 | 11.6 | 13.3 | 16.6 | 10.8 | 6.6 | 5.8 |
| 77.5° | 3859.0 | 1010.4 | 42.3 | 17.4 | 11.6 | 9.1 | 9.1 | 12.5 | 10.0 | 5.0 | 3.3 |
| 80° | 992.2 | 254.1 | 26.6 | 11.6 | 9.1 | 6.6 | 5.8 | 8.3 | 5.8 | 0.8 | 0.0 |
| 82.5° | 244.9 | 57.3 | 14.1 | 8.3 | 6.6 | 2.5 | 2.5 | 4.2 | 2.5 | 0.0 | 0.0 |
| 85° | 134.5 | 28.2 | 9.1 | 5.8 | 3.3 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 68.9 | 8.3 | 2.5 | 1.7 | 0.8 | 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)