

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: P318601

Luminaire Tested: **GAN-SA7B-722-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-722-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29721 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

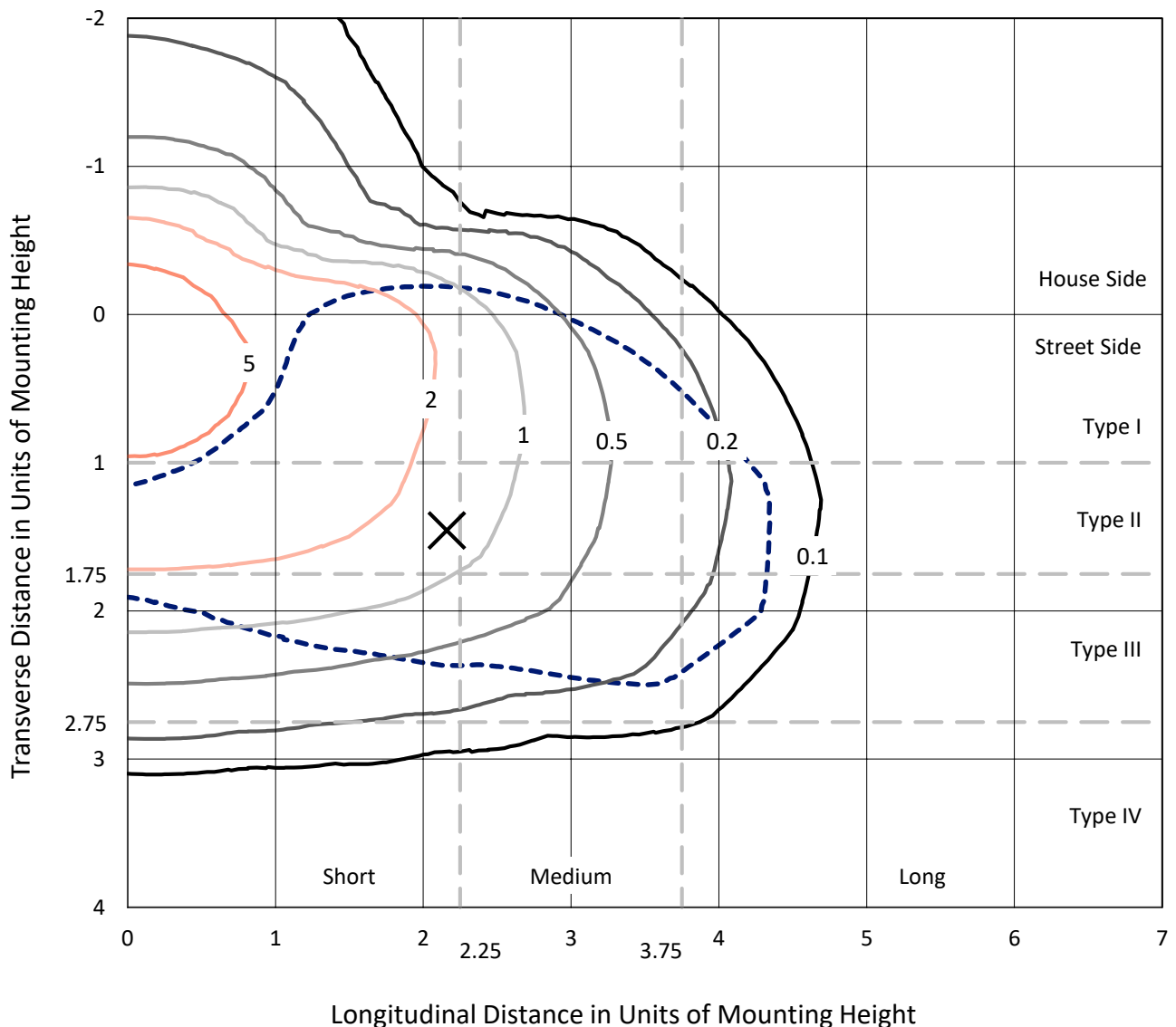
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

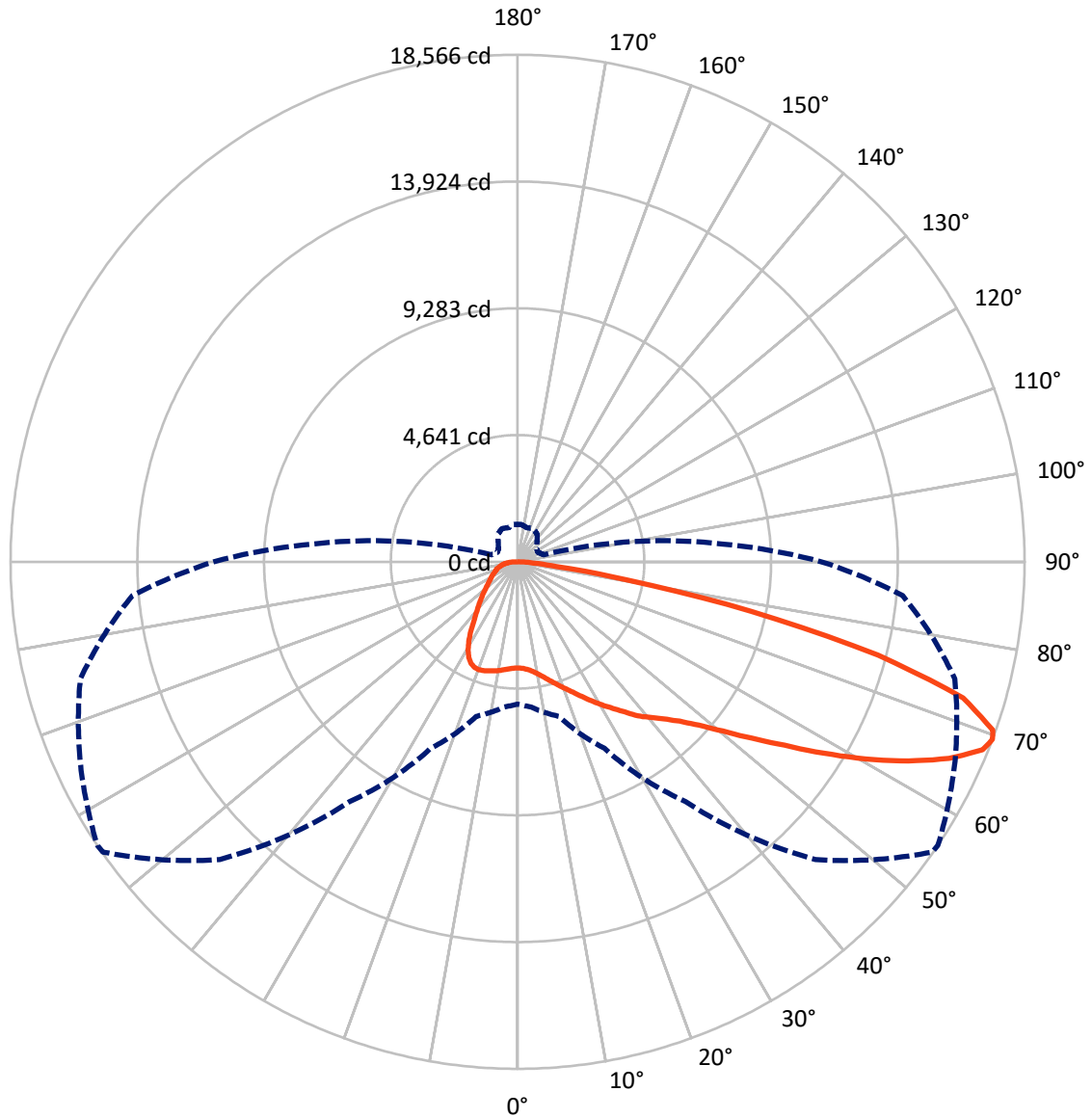
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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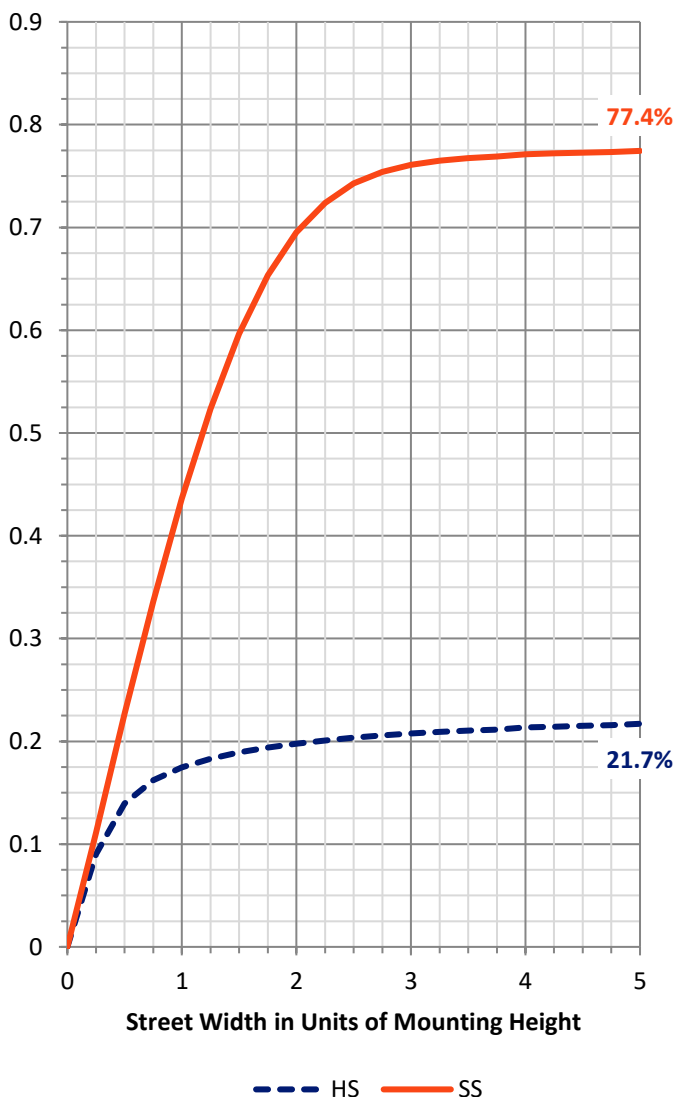
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6618.8 | 0.0 | 6618.8 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 23102.2 | 0.0 | 23102.2 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 29721.0 | 0.0 | 29721.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 381.6 | 1.3 |
| 10°-20° | 1227.2 | 4.1 |
| 20°-30° | 2142.1 | 7.2 |
| 30°-40° | 3077.1 | 10.4 |
| 40°-50° | 4258.5 | 14.3 |
| 50°-60° | 6239.4 | 21.0 |
| 60°-70° | 7607.0 | 25.6 |
| 70°-80° | 4205.6 | 14.2 |
| 80°-90° | 582.5 | 2.0 |
| 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° | 29721.0 | 100.0 |
| 0°-180° | 29721.0 | 100.0 |

Coefficient of Utilization



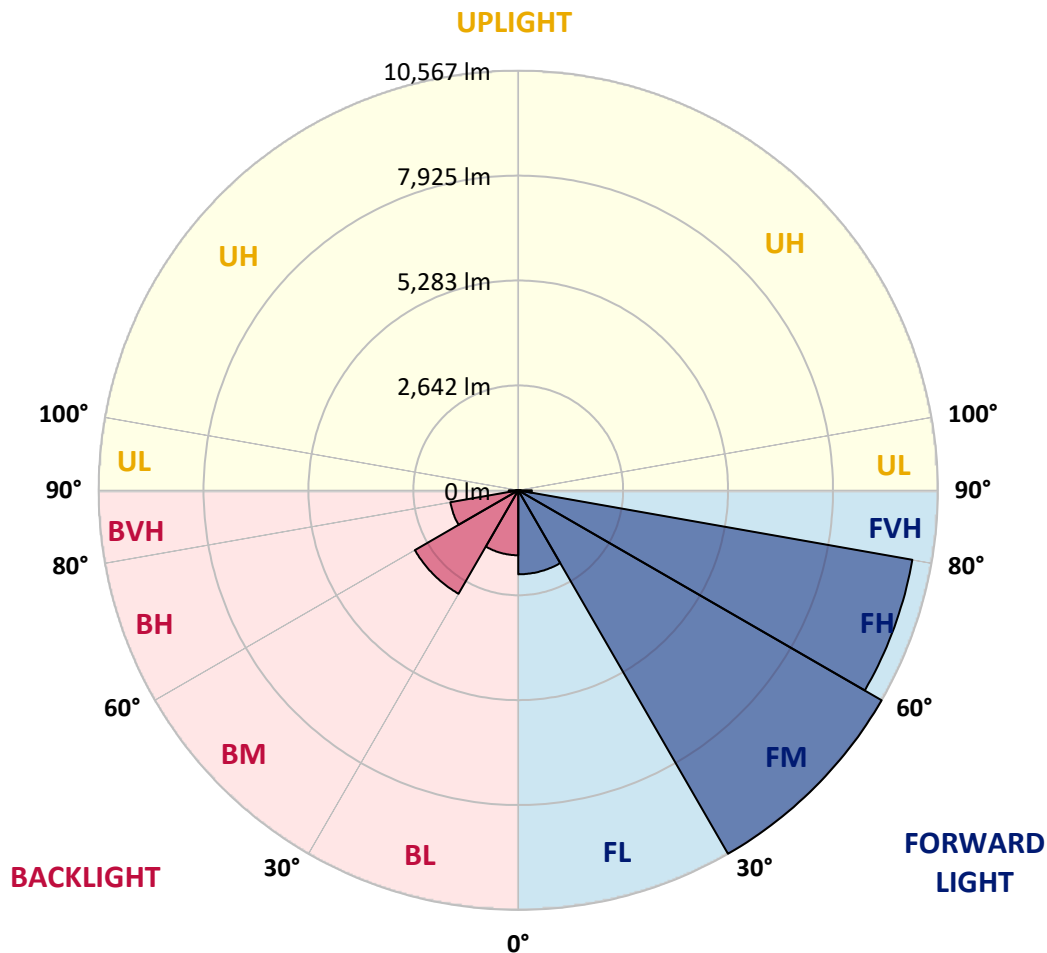
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2115.3 | 7.1 | | | |
| FM (30°-60°) | 10566.9 | 35.6 | | | |
| FH (60°-80°) | 10076.9 | 33.9 | | | G4/12000 |
| FVH (80°-90°) | 343.1 | 1.2 | | | G3/500 |
| BL (0°-30°) | 1635.7 | 5.5 | B3/2500 | | |
| BM (30°-60°) | 3008.1 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 1735.7 | 5.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 239.4 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 |
| 2.5° | 3910.1 | 3914.2 | 3911.2 | 3919.4 | 3910.1 | 3916.3 | 3911.2 | 3911.2 | 3908.1 | 3898.9 | 3888.6 |
| 5° | 3971.6 | 3979.8 | 3974.6 | 3982.8 | 3971.6 | 3973.6 | 3964.4 | 3964.4 | 3955.2 | 3935.7 | 3915.3 |
| 7.5° | 4067.8 | 4077.0 | 4072.9 | 4081.1 | 4065.8 | 4065.8 | 4053.5 | 4052.5 | 4034.0 | 4002.3 | 3978.7 |
| 10° | 4182.5 | 4194.8 | 4190.7 | 4203.0 | 4190.7 | 4194.8 | 4182.5 | 4182.5 | 4157.9 | 4112.9 | 4083.2 |
| 12.5° | 4349.4 | 4364.7 | 4353.5 | 4352.5 | 4347.3 | 4355.5 | 4345.3 | 4343.2 | 4320.7 | 4259.3 | 4218.3 |
| 15° | 4572.6 | 4589.0 | 4565.4 | 4563.4 | 4534.7 | 4531.6 | 4531.6 | 4528.6 | 4514.2 | 4440.5 | 4372.9 |
| 17.5° | 4829.6 | 4834.7 | 4814.2 | 4781.5 | 4744.6 | 4721.0 | 4718.0 | 4726.2 | 4726.2 | 4640.2 | 4532.7 |
| 20° | 5081.4 | 5090.7 | 5074.3 | 5037.4 | 4990.3 | 4955.5 | 4930.9 | 4947.3 | 4946.3 | 4843.9 | 4691.4 |
| 22.5° | 5355.8 | 5377.3 | 5352.8 | 5305.7 | 5250.4 | 5211.5 | 5168.5 | 5182.8 | 5183.8 | 5057.9 | 4847.0 |
| 25° | 5711.1 | 5691.7 | 5676.3 | 5609.8 | 5530.9 | 5491.0 | 5451.1 | 5465.4 | 5461.3 | 5288.3 | 5007.7 |
| 27.5° | 6025.5 | 6029.5 | 6009.1 | 5938.4 | 5847.3 | 5759.2 | 5757.2 | 5766.4 | 5751.1 | 5527.9 | 5159.3 |
| 30° | 6391.0 | 6393.0 | 6364.4 | 6300.9 | 6201.6 | 6087.9 | 6061.3 | 6076.6 | 6043.9 | 5755.2 | 5319.0 |
| 32.5° | 6754.4 | 6764.7 | 6732.9 | 6656.2 | 6576.3 | 6438.1 | 6384.8 | 6395.1 | 6313.2 | 5987.6 | 5483.8 |
| 35° | 7072.9 | 7087.2 | 7077.0 | 7025.8 | 6938.7 | 6820.0 | 6756.5 | 6750.4 | 6649.0 | 6272.2 | 5701.9 |
| 37.5° | 7397.4 | 7410.7 | 7399.5 | 7356.5 | 7321.7 | 7195.7 | 7161.9 | 7161.9 | 6985.8 | 6563.0 | 5979.4 |
| 40° | 7731.2 | 7751.7 | 7738.4 | 7679.0 | 7649.3 | 7592.0 | 7511.1 | 7491.6 | 7301.2 | 6912.1 | 6431.9 |
| 42.5° | 8041.4 | 8068.1 | 8121.3 | 8086.5 | 8026.1 | 8034.3 | 7871.5 | 7861.2 | 7722.0 | 7428.2 | 7000.2 |
| 45° | 8481.7 | 8520.6 | 8610.7 | 8584.1 | 8571.8 | 8526.8 | 8333.2 | 8324.0 | 8270.8 | 8122.3 | 7705.6 |
| 47.5° | 8961.9 | 9015.1 | 9177.9 | 9183.1 | 9315.1 | 9230.2 | 8967.0 | 8935.3 | 8947.6 | 8953.7 | 8566.7 |
| 50° | 9404.2 | 9462.6 | 9729.8 | 9855.7 | 10167.0 | 10185.4 | 9764.6 | 9735.9 | 9784.1 | 9925.4 | 9570.1 |
| 52.5° | 9757.4 | 9831.2 | 10164.9 | 10554.0 | 11087.5 | 11239.0 | 10746.5 | 10725.0 | 10760.8 | 11004.5 | 10704.5 |
| 55° | 10016.5 | 10096.3 | 10459.8 | 11168.3 | 12020.2 | 12287.4 | 11876.9 | 11856.4 | 11878.9 | 12189.1 | 11938.3 |
| 57.5° | 10076.9 | 10096.3 | 10623.6 | 11582.0 | 12807.5 | 13449.5 | 13260.1 | 13219.1 | 13108.6 | 13378.9 | 13300.0 |
| 60° | 9793.3 | 9871.1 | 10488.5 | 11727.4 | 13416.7 | 14595.2 | 14705.8 | 14654.6 | 14344.4 | 14565.5 | 14502.0 |
| 62.5° | 9217.9 | 9357.1 | 9983.7 | 11506.2 | 13655.3 | 15531.0 | 16123.8 | 16062.4 | 15528.0 | 15671.3 | 15366.2 |
| 65° | 8278.0 | 8337.3 | 8995.7 | 10743.4 | 13352.2 | 16130.0 | 17388.3 | 17357.6 | 16684.9 | 16460.7 | 15525.9 |
| 67.5° | 6596.8 | 6708.4 | 7267.4 | 9149.3 | 12112.3 | 16059.3 | 18366.1 | 18363.0 | 17440.5 | 16753.5 | 14959.7 |
| 69° | 5211.5 | 5327.2 | 5859.6 | 7536.7 | 10717.8 | 15413.3 | 18529.9 | 18565.8 | 17653.5 | 16575.4 | 14150.9 |
| 70° | 4154.9 | 4289.0 | 4654.5 | 6348.0 | 9480.0 | 14561.4 | 18393.8 | 18458.3 | 17612.6 | 16281.5 | 13404.5 |
| 72.5° | 1768.2 | 1876.7 | 2136.8 | 3272.3 | 5777.7 | 10873.5 | 16818.0 | 17061.7 | 16663.4 | 14901.4 | 11078.2 |
| 75° | 772.0 | 805.8 | 923.5 | 1334.1 | 2564.8 | 5917.9 | 13175.1 | 13625.6 | 14248.1 | 12595.6 | 8252.4 |
| 77.5° | 565.2 | 579.5 | 644.0 | 783.3 | 1150.8 | 2235.1 | 8472.5 | 8734.6 | 10275.5 | 9165.7 | 5062.0 |
| 80° | 437.2 | 447.4 | 497.6 | 575.4 | 751.5 | 904.1 | 3864.1 | 4089.3 | 5777.7 | 4707.7 | 2108.1 |
| 82.5° | 348.1 | 355.3 | 390.1 | 423.9 | 519.1 | 547.8 | 1282.9 | 1423.2 | 2132.7 | 1300.3 | 558.0 |
| 85° | 323.5 | 331.7 | 344.0 | 309.2 | 332.8 | 321.5 | 554.9 | 580.5 | 644.0 | 510.9 | 233.4 |
| 87.5° | 146.4 | 173.0 | 340.9 | 240.6 | 177.1 | 141.3 | 227.3 | 237.5 | 267.2 | 268.3 | 103.4 |
| 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° | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 | 3885.6 |
| 2.5° | 3894.8 | 3891.7 | 3896.8 | 3884.5 | 3899.9 | 3898.9 | 3893.8 | 3895.8 | 3906.1 | 3905.0 | 3906.1 |
| 5° | 3918.3 | 3916.3 | 3922.4 | 3913.2 | 3931.6 | 3937.8 | 3938.8 | 3948.0 | 3959.3 | 3962.4 | 3962.4 |
| 7.5° | 3977.7 | 3977.7 | 3980.8 | 3968.5 | 3980.8 | 3979.8 | 3974.6 | 3983.9 | 3995.1 | 3996.2 | 3995.1 |
| 10° | 4080.1 | 4081.1 | 4076.0 | 4044.3 | 4034.0 | 4006.4 | 3980.8 | 3981.8 | 3996.2 | 4007.4 | 4010.5 |
| 12.5° | 4209.1 | 4205.0 | 4182.5 | 4124.1 | 4081.1 | 4024.8 | 3998.2 | 3997.2 | 4011.5 | 4020.7 | 4023.8 |
| 15° | 4356.6 | 4345.3 | 4286.9 | 4191.7 | 4115.9 | 4060.7 | 4017.7 | 4007.4 | 3999.2 | 3989.0 | 3990.0 |
| 17.5° | 4495.8 | 4470.2 | 4372.9 | 4240.9 | 4161.0 | 4087.3 | 4004.3 | 3937.8 | 3891.7 | 3865.1 | 3856.9 |
| 20° | 4637.1 | 4586.9 | 4446.7 | 4286.9 | 4185.6 | 4051.4 | 3891.7 | 3756.6 | 3672.6 | 3633.7 | 3626.5 |
| 22.5° | 4766.1 | 4685.2 | 4515.3 | 4335.1 | 4166.1 | 3930.6 | 3679.8 | 3483.2 | 3366.5 | 3314.3 | 3318.4 |
| 25° | 4892.0 | 4779.4 | 4586.9 | 4368.8 | 4067.8 | 3717.7 | 3384.9 | 3143.3 | 3008.1 | 2949.8 | 2947.7 |
| 27.5° | 5002.6 | 4874.6 | 4664.7 | 4341.2 | 3884.5 | 3414.6 | 3035.8 | 2800.3 | 2687.6 | 2637.5 | 2629.3 |
| 30° | 5129.6 | 4994.4 | 4768.1 | 4235.7 | 3616.3 | 3064.4 | 2694.8 | 2529.0 | 2449.1 | 2398.9 | 2389.7 |
| 32.5° | 5284.2 | 5157.2 | 4853.1 | 4044.3 | 3273.3 | 2698.9 | 2428.6 | 2312.9 | 2240.2 | 2183.9 | 2173.7 |
| 35° | 5509.4 | 5372.2 | 4874.6 | 3769.9 | 2896.5 | 2410.2 | 2233.1 | 2114.3 | 2016.0 | 1943.3 | 1936.1 |
| 37.5° | 5792.0 | 5641.5 | 4825.5 | 3414.6 | 2531.0 | 2222.8 | 2070.3 | 1923.8 | 1795.9 | 1693.5 | 1677.1 |
| 40° | 6199.5 | 5972.2 | 4689.3 | 3005.0 | 2261.7 | 2078.4 | 1911.6 | 1744.7 | 1586.0 | 1466.2 | 1442.6 |
| 42.5° | 6688.9 | 6360.3 | 4480.4 | 2597.5 | 2064.1 | 1932.0 | 1753.9 | 1547.1 | 1395.5 | 1310.5 | 1298.3 |
| 45° | 7311.4 | 6763.7 | 4190.7 | 2241.2 | 1869.6 | 1785.6 | 1583.9 | 1393.5 | 1299.3 | 1236.8 | 1226.6 |
| 47.5° | 8022.0 | 7216.2 | 3886.6 | 1951.5 | 1704.7 | 1648.4 | 1447.7 | 1324.9 | 1250.1 | 1201.0 | 1191.8 |
| 50° | 8895.4 | 7727.1 | 3564.1 | 1714.0 | 1538.9 | 1483.6 | 1383.2 | 1287.0 | 1227.6 | 1189.7 | 1180.5 |
| 52.5° | 9880.3 | 8303.6 | 3331.7 | 1526.6 | 1401.7 | 1361.7 | 1349.5 | 1266.5 | 1218.4 | 1189.7 | 1180.5 |
| 55° | 10941.0 | 8890.2 | 3080.8 | 1368.9 | 1282.9 | 1294.2 | 1326.9 | 1268.6 | 1235.8 | 1201.0 | 1187.7 |
| 57.5° | 12002.8 | 9496.4 | 2801.3 | 1235.8 | 1188.7 | 1244.0 | 1311.6 | 1272.7 | 1245.0 | 1211.2 | 1198.9 |
| 60° | 12842.4 | 9880.3 | 2368.2 | 1124.2 | 1114.0 | 1188.7 | 1274.7 | 1242.0 | 1206.1 | 1207.1 | 1205.1 |
| 62.5° | 13234.5 | 9859.8 | 1890.1 | 1024.9 | 1039.2 | 1114.0 | 1215.3 | 1193.8 | 1164.1 | 1204.1 | 1207.1 |
| 65° | 13014.4 | 9368.4 | 1471.3 | 934.8 | 959.4 | 1036.2 | 1153.9 | 1170.3 | 1180.5 | 1257.3 | 1267.5 |
| 67.5° | 12090.8 | 8412.1 | 1139.6 | 856.0 | 886.7 | 982.9 | 1160.0 | 1274.7 | 1288.0 | 1368.9 | 1367.9 |
| 69° | 11135.6 | 7515.2 | 990.1 | 815.0 | 850.8 | 996.2 | 1239.9 | 1341.3 | 1291.1 | 1377.1 | 1364.8 |
| 70° | 10334.9 | 6805.6 | 910.2 | 787.4 | 834.5 | 1019.8 | 1293.1 | 1340.2 | 1275.7 | 1349.5 | 1329.0 |
| 72.5° | 7959.5 | 4896.1 | 772.0 | 736.2 | 779.2 | 975.7 | 1308.5 | 1310.5 | 1239.9 | 1254.2 | 1219.4 |
| 75° | 5459.3 | 3094.1 | 673.7 | 666.5 | 695.2 | 879.5 | 1259.4 | 1252.2 | 1146.7 | 1126.3 | 1097.6 |
| 77.5° | 3010.2 | 1571.6 | 572.3 | 600.0 | 619.4 | 779.2 | 1144.7 | 1134.4 | 1047.4 | 1004.4 | 994.2 |
| 80° | 1161.1 | 688.0 | 483.3 | 533.4 | 545.7 | 674.7 | 1003.4 | 994.2 | 921.5 | 866.2 | 850.8 |
| 82.5° | 438.2 | 360.4 | 399.3 | 461.8 | 457.7 | 557.0 | 849.8 | 844.7 | 774.0 | 693.2 | 668.6 |
| 85° | 202.7 | 216.0 | 316.4 | 380.9 | 351.2 | 412.6 | 679.8 | 689.1 | 603.1 | 506.8 | 506.8 |
| 87.5° | 86.0 | 120.8 | 224.2 | 287.7 | 236.5 | 278.5 | 498.6 | 476.1 | 437.2 | 303.1 | 284.6 |
| 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)