

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: P383181

Luminaire Tested: **GAN-SA5A-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22183.9 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

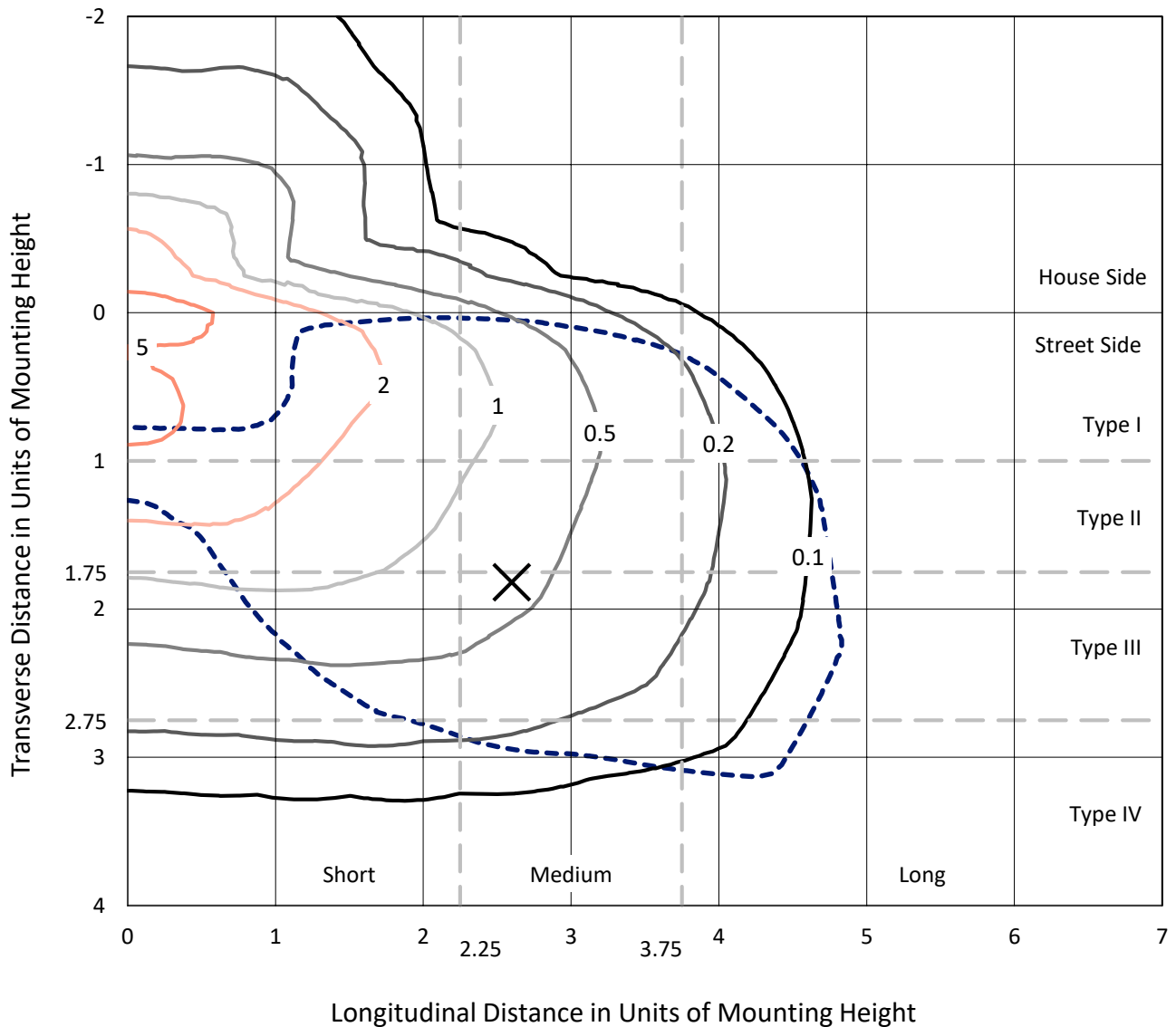
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

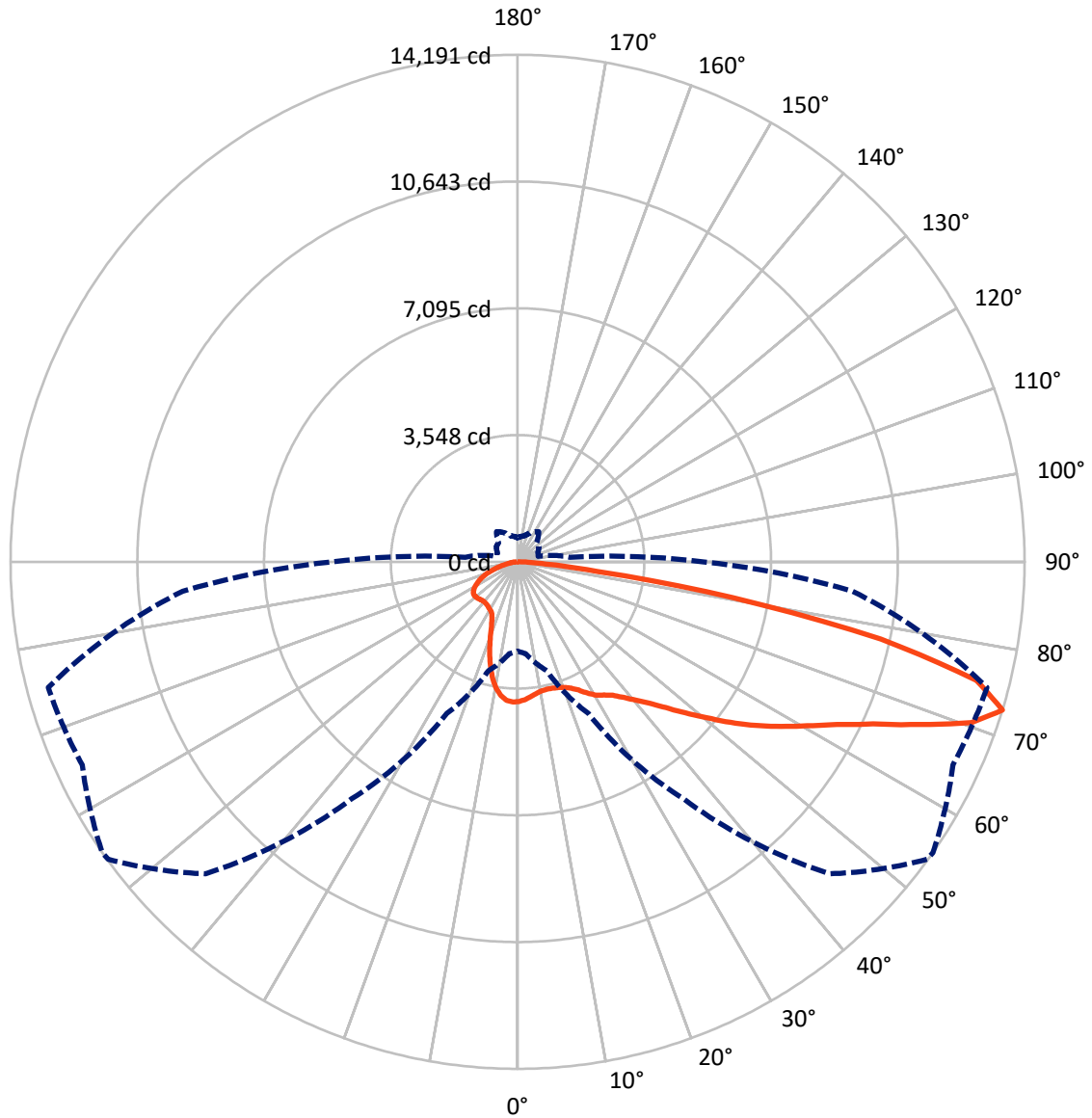
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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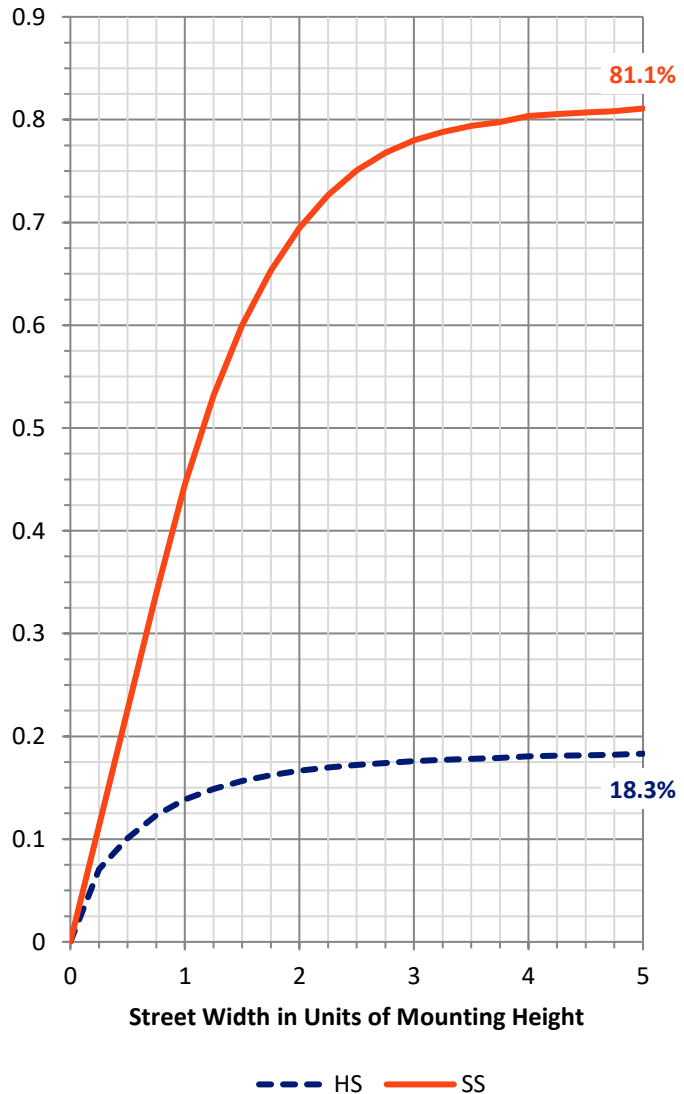
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4123.3 | 0.0 | 4123.3 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 18060.6 | 0.0 | 18060.6 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 22183.9 | 0.0 | 22183.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 354.1 | 1.6 |
| 10°-20° | 942.6 | 4.2 |
| 20°-30° | 1554.2 | 7.0 |
| 30°-40° | 2299.0 | 10.4 |
| 40°-50° | 3208.9 | 14.5 |
| 50°-60° | 4178.1 | 18.8 |
| 60°-70° | 5134.8 | 23.1 |
| 70°-80° | 4025.1 | 18.1 |
| 80°-90° | 487.1 | 2.2 |
| 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° | 22183.9 | 100.0 |
| 0°-180° | 22183.9 | 100.0 |

Coefficient of Utilization

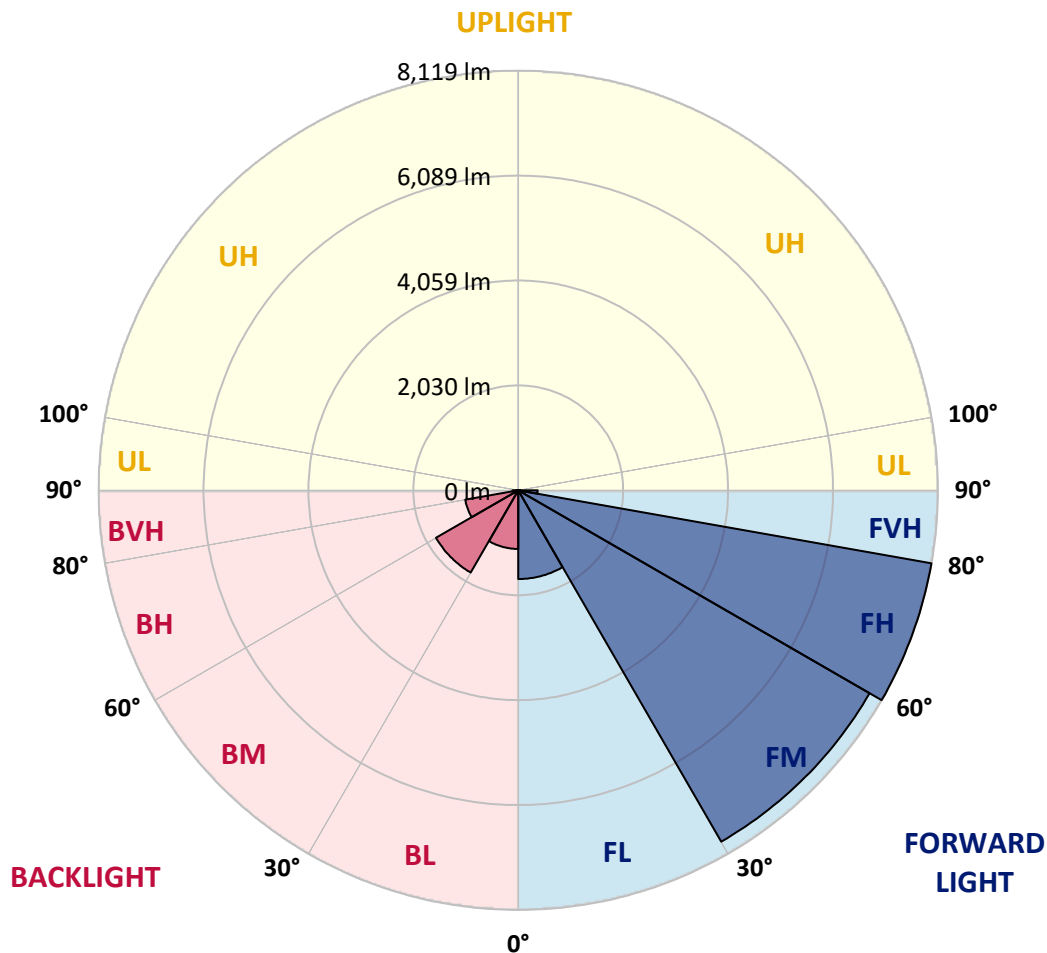


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1716.4 | 7.7 | | | |
| FM (30°-60°) | 7849.1 | 35.4 | | | |
| FH (60°-80°) | 8118.5 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 376.6 | 1.7 | | | G3/500 |
| BL (0°-30°) | 1134.5 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 1837.0 | 8.3 | B2/2500 | | |
| BH (60°-80°) | 1041.3 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 110.5 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 |
| 2.5° | 3785.3 | 3776.4 | 3787.7 | 3803.3 | 3820.6 | 3843.8 | 3857.4 | 3863.3 | 3886.5 | 3895.5 | 3915.0 |
| 5° | 3610.0 | 3605.6 | 3624.3 | 3651.3 | 3689.5 | 3743.4 | 3786.8 | 3795.1 | 3856.6 | 3900.0 | 3939.7 |
| 7.5° | 3482.7 | 3482.7 | 3504.4 | 3536.6 | 3579.3 | 3652.0 | 3713.4 | 3724.7 | 3828.8 | 3922.5 | 3996.0 |
| 10° | 3381.5 | 3385.2 | 3410.8 | 3449.0 | 3499.2 | 3576.3 | 3658.0 | 3670.8 | 3821.3 | 3974.9 | 4091.8 |
| 12.5° | 3314.1 | 3323.1 | 3346.3 | 3380.8 | 3443.0 | 3536.6 | 3640.0 | 3657.3 | 3837.0 | 4049.9 | 4207.2 |
| 15° | 3356.8 | 3371.7 | 3374.1 | 3388.2 | 3422.7 | 3524.6 | 3650.5 | 3668.5 | 3870.8 | 4126.3 | 4338.3 |
| 17.5° | 3544.1 | 3549.4 | 3526.1 | 3496.2 | 3479.7 | 3544.8 | 3681.9 | 3700.7 | 3911.3 | 4202.0 | 4464.3 |
| 20° | 3828.8 | 3825.9 | 3775.7 | 3694.7 | 3610.8 | 3621.3 | 3733.6 | 3753.2 | 3966.0 | 4268.6 | 4590.1 |
| 22.5° | 4188.5 | 4178.0 | 4100.9 | 3951.7 | 3808.6 | 3748.6 | 3824.4 | 3840.9 | 4048.4 | 4363.8 | 4725.0 |
| 25° | 4624.6 | 4601.4 | 4499.5 | 4299.4 | 4088.8 | 3934.5 | 3960.8 | 3976.4 | 4168.3 | 4470.2 | 4848.6 |
| 27.5° | 5084.7 | 5061.4 | 4931.8 | 4689.8 | 4409.6 | 4169.0 | 4148.7 | 4162.2 | 4304.6 | 4548.9 | 4940.0 |
| 30° | 5565.7 | 5540.9 | 5422.5 | 5151.4 | 4749.7 | 4411.8 | 4324.2 | 4329.4 | 4400.5 | 4591.6 | 5015.0 |
| 32.5° | 6049.0 | 6025.7 | 5893.2 | 5578.4 | 5119.1 | 4672.5 | 4450.7 | 4444.0 | 4458.2 | 4635.8 | 5099.7 |
| 35° | 6539.0 | 6548.0 | 6392.9 | 6044.4 | 5528.2 | 4962.5 | 4600.6 | 4586.4 | 4554.9 | 4726.5 | 5219.6 |
| 37.5° | 7063.5 | 7057.5 | 6856.7 | 6492.5 | 5956.0 | 5277.2 | 4815.6 | 4813.4 | 4704.8 | 4898.1 | 5407.5 |
| 40° | 7414.2 | 7417.9 | 7295.8 | 6951.1 | 6388.4 | 5625.6 | 5091.4 | 5086.2 | 4943.8 | 5155.1 | 5654.1 |
| 42.5° | 7551.3 | 7576.0 | 7607.5 | 7388.7 | 6840.9 | 6029.4 | 5420.3 | 5412.9 | 5277.2 | 5523.7 | 5944.1 |
| 45° | 7561.0 | 7610.5 | 7805.3 | 7777.6 | 7299.5 | 6491.8 | 5840.7 | 5819.7 | 5722.3 | 6013.8 | 6290.3 |
| 47.5° | 7477.1 | 7528.0 | 7851.7 | 8009.1 | 7709.4 | 6979.6 | 6332.2 | 6315.7 | 6231.8 | 6626.7 | 6664.9 |
| 50° | 7293.6 | 7342.3 | 7755.9 | 8122.3 | 8046.5 | 7448.7 | 6898.7 | 6855.2 | 6810.3 | 7334.7 | 7093.5 |
| 52.5° | 6949.6 | 7043.2 | 7627.7 | 8149.2 | 8248.1 | 7865.2 | 7494.3 | 7465.9 | 7490.6 | 8081.7 | 7522.8 |
| 55° | 6135.2 | 6240.1 | 7297.3 | 8126.7 | 8397.2 | 8215.1 | 8090.0 | 8088.5 | 8216.6 | 8865.5 | 7983.6 |
| 57.5° | 5678.8 | 5753.0 | 6624.4 | 8088.5 | 8574.1 | 8562.8 | 8679.7 | 8693.9 | 8943.4 | 9718.9 | 8466.2 |
| 60° | 5421.0 | 5499.0 | 6283.5 | 7946.9 | 8848.3 | 9012.4 | 9281.4 | 9309.9 | 9682.2 | 10663.8 | 9046.8 |
| 62.5° | 5186.6 | 5272.0 | 6072.2 | 7658.4 | 9171.3 | 9655.3 | 10002.2 | 10027.6 | 10464.4 | 11634.8 | 9608.1 |
| 65° | 4785.6 | 4882.3 | 5762.7 | 7468.9 | 9465.0 | 10493.7 | 10918.6 | 10935.8 | 11362.9 | 12652.4 | 10037.4 |
| 67.5° | 4219.3 | 4307.7 | 5179.0 | 7050.0 | 9682.2 | 11512.0 | 12136.9 | 12146.6 | 12253.8 | 13371.0 | 10256.9 |
| 70° | 3557.6 | 3591.3 | 4347.3 | 6185.3 | 9425.2 | 12464.3 | 13472.1 | 13474.4 | 13066.0 | 13831.1 | 10220.9 |
| 72.5° | 2499.6 | 2579.0 | 3156.0 | 4682.2 | 8099.7 | 12348.2 | 14165.2 | 14190.6 | 13443.6 | 13598.7 | 9404.3 |
| 75° | 1533.0 | 1617.0 | 1979.6 | 2837.5 | 5138.6 | 9711.5 | 13087.8 | 13264.6 | 12735.6 | 12124.9 | 7682.4 |
| 77.5° | 1025.0 | 1056.5 | 1291.8 | 1654.4 | 2328.0 | 5587.4 | 10062.1 | 10394.8 | 10579.9 | 8842.2 | 4913.1 |
| 80° | 571.7 | 631.7 | 856.5 | 1028.1 | 1035.5 | 2220.2 | 6033.3 | 6111.1 | 5886.4 | 3520.9 | 1515.8 |
| 82.5° | 302.8 | 335.6 | 571.7 | 603.9 | 565.0 | 743.3 | 2248.6 | 2250.8 | 1880.7 | 944.1 | 450.3 |
| 85° | 234.6 | 262.2 | 391.9 | 368.6 | 288.5 | 329.7 | 741.8 | 782.2 | 639.9 | 386.6 | 146.9 |
| 87.5° | 116.9 | 145.3 | 266.0 | 233.8 | 113.2 | 94.4 | 265.2 | 283.2 | 252.5 | 151.4 | 53.2 |
| 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° | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 | 3912.8 |
| 2.5° | 3922.5 | 3929.3 | 3937.5 | 3928.5 | 3925.5 | 3913.5 | 3893.3 | 3888.7 | 3878.3 | 3879.1 | 3885.0 |
| 5° | 3956.9 | 3968.2 | 3963.7 | 3929.3 | 3888.0 | 3830.3 | 3770.4 | 3719.5 | 3685.8 | 3683.4 | 3681.2 |
| 7.5° | 4022.9 | 4030.4 | 3995.2 | 3897.0 | 3781.6 | 3648.2 | 3522.4 | 3412.3 | 3345.6 | 3329.1 | 3325.3 |
| 10° | 4126.3 | 4124.8 | 4028.1 | 3830.3 | 3600.3 | 3362.0 | 3159.7 | 3006.8 | 2917.7 | 2891.5 | 2884.7 |
| 12.5° | 4241.7 | 4224.5 | 4039.4 | 3709.0 | 3344.1 | 3013.6 | 2757.4 | 2587.3 | 2494.4 | 2464.4 | 2456.9 |
| 15° | 4360.9 | 4318.1 | 4011.7 | 3527.6 | 3029.4 | 2638.2 | 2369.2 | 2211.9 | 2161.7 | 2145.2 | 2142.2 |
| 17.5° | 4471.7 | 4389.3 | 3932.2 | 3281.8 | 2670.5 | 2264.3 | 2054.5 | 1991.6 | 2003.6 | 2025.3 | 2026.0 |
| 20° | 4580.3 | 4437.2 | 3804.9 | 2971.6 | 2292.1 | 1956.3 | 1885.2 | 1931.7 | 1988.6 | 2032.8 | 2038.8 |
| 22.5° | 4687.5 | 4471.0 | 3640.8 | 2613.5 | 1953.4 | 1783.3 | 1833.5 | 1918.1 | 1983.4 | 2031.3 | 2039.5 |
| 25° | 4777.4 | 4479.3 | 3414.5 | 2231.3 | 1718.1 | 1718.1 | 1808.8 | 1888.9 | 1953.4 | 2000.6 | 2008.8 |
| 27.5° | 4810.4 | 4423.7 | 3095.3 | 1877.7 | 1599.7 | 1688.2 | 1774.3 | 1841.0 | 1895.7 | 1945.9 | 1954.9 |
| 30° | 4823.2 | 4321.1 | 2726.6 | 1593.7 | 1551.0 | 1655.9 | 1727.8 | 1784.8 | 1836.5 | 1883.7 | 1892.0 |
| 32.5° | 4825.4 | 4197.5 | 2335.5 | 1432.6 | 1517.3 | 1622.2 | 1670.2 | 1720.4 | 1775.8 | 1794.5 | 1797.5 |
| 35° | 4839.6 | 4051.4 | 1923.4 | 1350.2 | 1485.8 | 1590.7 | 1628.9 | 1664.9 | 1575.0 | 1581.8 | 1587.7 |
| 37.5° | 4880.8 | 3906.7 | 1578.7 | 1303.8 | 1465.6 | 1574.2 | 1620.0 | 1489.5 | 1419.1 | 1402.6 | 1400.4 |
| 40° | 4958.0 | 3752.4 | 1323.3 | 1266.3 | 1458.2 | 1582.5 | 1562.3 | 1390.7 | 1269.3 | 1178.6 | 1165.2 |
| 42.5° | 5065.2 | 3586.1 | 1159.9 | 1241.6 | 1463.4 | 1622.2 | 1482.1 | 1295.5 | 1093.9 | 1035.5 | 1028.1 |
| 45° | 5185.8 | 3411.5 | 1071.5 | 1224.3 | 1481.3 | 1652.9 | 1465.6 | 1168.9 | 1012.3 | 968.1 | 964.3 |
| 47.5° | 5302.6 | 3197.9 | 1025.7 | 1216.9 | 1506.0 | 1628.2 | 1395.9 | 1129.9 | 973.3 | 950.1 | 952.3 |
| 50° | 5436.8 | 3005.4 | 998.1 | 1208.6 | 1527.8 | 1612.4 | 1317.2 | 1109.7 | 958.4 | 986.8 | 1016.8 |
| 52.5° | 5550.0 | 2806.1 | 973.3 | 1192.1 | 1536.0 | 1584.7 | 1297.0 | 1113.5 | 958.4 | 1013.1 | 1041.5 |
| 55° | 5684.0 | 2655.5 | 944.9 | 1157.6 | 1520.3 | 1506.0 | 1282.7 | 1135.9 | 969.6 | 935.1 | 938.1 |
| 57.5° | 5857.1 | 2606.0 | 913.4 | 1103.7 | 1467.8 | 1391.5 | 1276.0 | 1157.6 | 962.8 | 941.1 | 948.6 |
| 60° | 6096.9 | 2658.5 | 900.6 | 1033.3 | 1386.1 | 1301.5 | 1276.8 | 1146.4 | 915.6 | 878.2 | 878.9 |
| 62.5° | 6325.5 | 2716.9 | 899.9 | 989.0 | 1285.8 | 1221.4 | 1259.5 | 1109.7 | 891.7 | 869.9 | 878.2 |
| 65° | 6400.4 | 2657.7 | 863.9 | 939.6 | 1172.6 | 1125.4 | 1228.1 | 1070.7 | 873.7 | 840.7 | 839.2 |
| 67.5° | 6300.0 | 2474.1 | 791.3 | 859.4 | 1043.0 | 1013.8 | 1186.9 | 1024.2 | 845.2 | 818.2 | 813.7 |
| 70° | 6001.8 | 2064.3 | 701.4 | 753.8 | 895.4 | 887.9 | 1121.7 | 970.3 | 807.0 | 783.7 | 764.2 |
| 72.5° | 5199.2 | 1470.8 | 591.2 | 627.1 | 729.0 | 753.1 | 1031.8 | 899.9 | 753.1 | 702.9 | 672.9 |
| 75° | 4270.1 | 1088.7 | 485.5 | 493.1 | 553.7 | 618.9 | 908.2 | 817.4 | 689.3 | 603.9 | 580.7 |
| 77.5° | 2615.0 | 666.1 | 386.6 | 389.7 | 397.1 | 493.8 | 747.8 | 725.3 | 608.4 | 503.5 | 487.0 |
| 80° | 846.7 | 363.4 | 279.5 | 293.7 | 271.3 | 361.9 | 578.5 | 617.4 | 522.2 | 421.1 | 403.1 |
| 82.5° | 322.2 | 212.0 | 188.8 | 198.6 | 188.1 | 242.8 | 421.8 | 494.6 | 427.9 | 346.2 | 281.7 |
| 85° | 155.8 | 119.9 | 111.6 | 125.1 | 116.2 | 124.4 | 269.8 | 364.1 | 324.5 | 225.5 | 209.8 |
| 87.5° | 55.4 | 53.2 | 42.7 | 57.7 | 49.5 | 44.2 | 82.4 | 183.6 | 214.3 | 155.1 | 138.6 |
| 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)