

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: P191988

Luminaire Tested: **GAN-AF-10-LED-U-SL3-7050-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL3-7050-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64636 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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: 28.75 FT

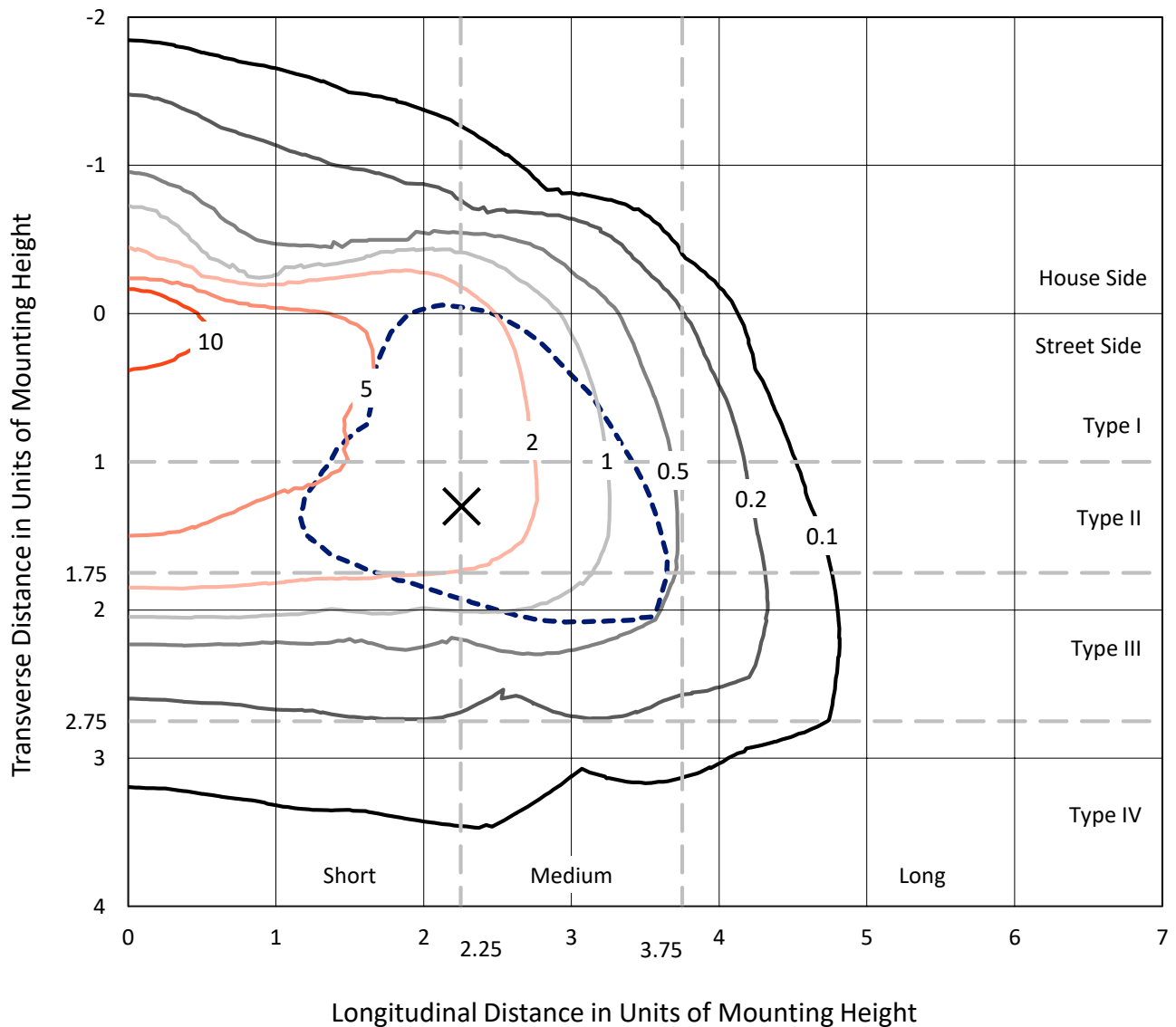


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

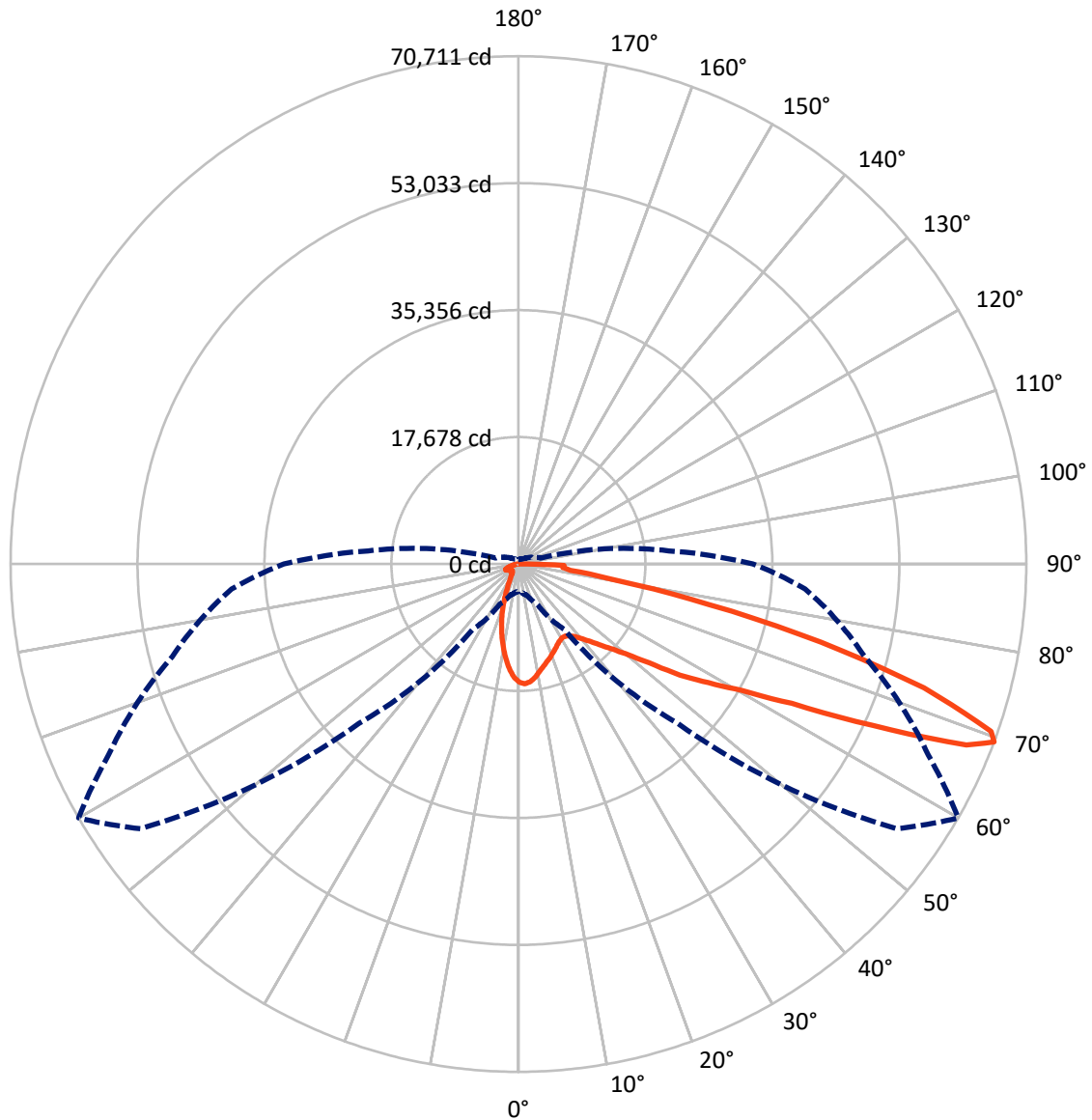


Based on 30 foot mounting height. Maximum calculated value = 18.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9195.7 | 0.0 | 9195.7 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 55440.3 | 0.0 | 55440.3 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 64636.0 | 0.0 | 64636.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1392.6 | 2.2 |
| 10°-20° | 2967.1 | 4.6 |
| 20°-30° | 3780.6 | 5.8 |
| 30°-40° | 5197.3 | 8.0 |
| 40°-50° | 8433.2 | 13.0 |
| 50°-60° | 13524.6 | 20.9 |
| 60°-70° | 18000.2 | 27.8 |
| 70°-80° | 9718.7 | 15.0 |
| 80°-90° | 1621.6 | 2.5 |
| 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° | 64636.0 | 100.0 |
| 0°-180° | 64636.0 | 100.0 |

Coefficient of Utilization



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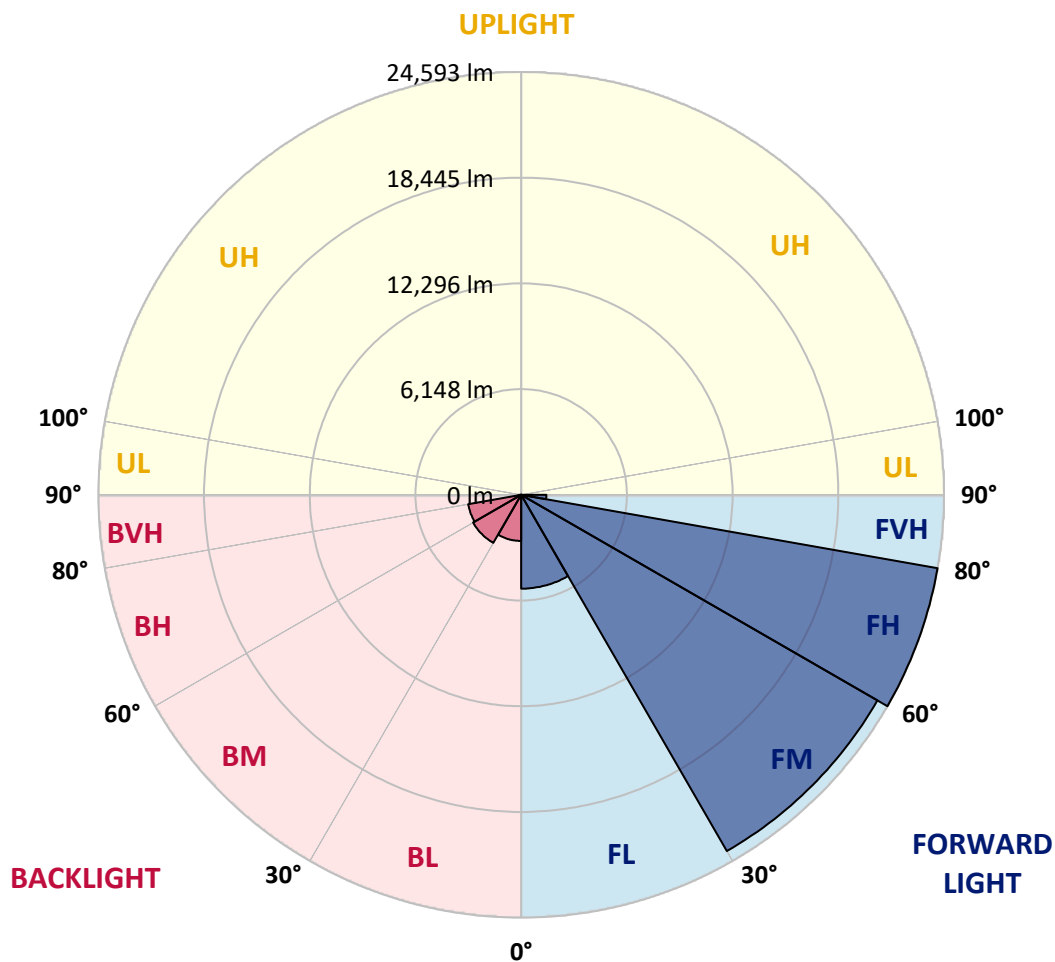
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5457.6 | 8.4 | | | |
| FM | (30°-60°) | 23924.5 | 37.0 | | | |
| FH | (60°-80°) | 24592.8 | 38.0 | | | G5 |
| FVH | (80°-90°) | 1465.5 | 2.3 | | | G5 |
| BL | (0°-30°) | 2682.7 | 4.2 | B4/5000 | | |
| BM | (30°-60°) | 3230.6 | 5.0 | B3/5000 | | |
| BH | (60°-80°) | 3126.2 | 4.8 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 156.2 | 0.2 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 |
| 2.5° | 16807.4 | 16844.9 | 16829.3 | 16819.9 | 16848.0 | 16804.3 | 16713.8 | 16685.7 | 16642.0 | 16538.9 | 16364.1 |
| 5° | 16176.7 | 16289.1 | 16282.9 | 16367.2 | 16507.7 | 16545.2 | 16504.6 | 16510.8 | 16429.6 | 16301.6 | 16011.3 |
| 7.5° | 15087.0 | 15133.9 | 15158.9 | 15343.1 | 15599.1 | 15805.2 | 15980.0 | 16036.2 | 15998.8 | 15889.5 | 15514.8 |
| 10° | 13963.0 | 14000.5 | 14059.8 | 14275.2 | 14600.0 | 14884.1 | 15215.1 | 15405.5 | 15486.7 | 15468.0 | 15049.6 |
| 12.5° | 12998.2 | 13035.7 | 13113.7 | 13357.3 | 13744.4 | 14094.1 | 14575.0 | 14812.3 | 15005.9 | 15121.4 | 14671.8 |
| 15° | 12133.3 | 12214.5 | 12289.4 | 12570.5 | 13004.5 | 13463.4 | 14006.7 | 14306.5 | 14606.2 | 14865.4 | 14337.7 |
| 17.5° | 11458.9 | 11540.1 | 11583.8 | 11839.8 | 12301.9 | 12864.0 | 13500.9 | 13853.7 | 14228.4 | 14653.0 | 14006.7 |
| 20° | 11068.6 | 11106.1 | 11087.4 | 11231.0 | 11646.3 | 12242.6 | 12998.2 | 13407.2 | 13860.0 | 14453.2 | 13675.8 |
| 22.5° | 10959.3 | 10962.5 | 10893.8 | 10878.2 | 11146.7 | 11649.4 | 12461.2 | 12957.6 | 13513.4 | 14322.1 | 13391.6 |
| 25° | 11224.7 | 11215.4 | 11028.0 | 10875.0 | 10903.1 | 11196.6 | 11942.9 | 12520.5 | 13223.0 | 14294.0 | 13173.1 |
| 27.5° | 11814.9 | 11843.0 | 11565.1 | 11277.8 | 10993.7 | 10984.3 | 11549.5 | 12158.3 | 12985.7 | 14422.0 | 13079.4 |
| 30° | 12642.3 | 12689.1 | 12392.5 | 12027.2 | 11493.3 | 11053.0 | 11396.5 | 11942.9 | 12839.0 | 14687.4 | 13063.8 |
| 32.5° | 13547.7 | 13597.7 | 13372.9 | 12988.8 | 12289.4 | 11477.6 | 11502.6 | 11961.6 | 12832.7 | 15058.9 | 13169.9 |
| 35° | 14512.5 | 14568.7 | 14453.2 | 14128.5 | 13351.0 | 12261.3 | 11908.5 | 12264.5 | 13035.7 | 15627.2 | 13454.1 |
| 37.5° | 15589.7 | 15677.2 | 15708.4 | 15399.3 | 14568.7 | 13294.8 | 12573.6 | 12839.0 | 13494.7 | 16417.2 | 13975.5 |
| 40° | 17141.5 | 17263.3 | 17253.9 | 16810.6 | 15964.4 | 14690.5 | 13600.8 | 13669.5 | 14209.7 | 17472.5 | 14809.2 |
| 42.5° | 20114.0 | 20139.0 | 19361.5 | 18396.7 | 17500.6 | 16158.0 | 14812.3 | 14756.1 | 15196.3 | 18808.9 | 16036.2 |
| 45° | 23895.1 | 23792.1 | 22062.3 | 20198.3 | 19105.5 | 17844.1 | 16389.1 | 16114.3 | 16448.4 | 20438.7 | 17572.4 |
| 47.5° | 27033.0 | 26795.7 | 24610.1 | 22037.3 | 20804.0 | 19676.9 | 18240.6 | 17759.8 | 17944.0 | 22287.1 | 19558.2 |
| 50° | 28122.7 | 27944.8 | 26133.8 | 23567.3 | 22412.0 | 21912.4 | 20519.9 | 19839.2 | 19889.2 | 24491.5 | 21884.3 |
| 52.5° | 27888.6 | 27863.6 | 26655.2 | 24575.8 | 23917.0 | 24260.4 | 23748.4 | 22827.3 | 22340.2 | 26939.4 | 24394.7 |
| 55° | 27335.9 | 27389.0 | 26951.9 | 25749.8 | 25637.4 | 26527.2 | 27966.6 | 27285.9 | 25771.6 | 29409.1 | 26989.3 |
| 57.5° | 25415.7 | 25553.1 | 26514.7 | 27226.6 | 28406.9 | 29730.7 | 31363.7 | 31170.1 | 29465.3 | 32078.7 | 30074.2 |
| 60° | 20476.2 | 20794.6 | 23373.7 | 26939.4 | 31257.5 | 35397.7 | 36128.4 | 35678.7 | 33274.6 | 35391.5 | 34148.8 |
| 62.5° | 14347.1 | 14678.0 | 17744.1 | 23323.7 | 30789.2 | 41798.5 | 44646.0 | 42707.1 | 38744.9 | 40271.7 | 39422.4 |
| 65° | 7680.9 | 7840.1 | 10181.9 | 16183.0 | 25993.3 | 43119.2 | 57094.7 | 54144.1 | 47406.2 | 46288.4 | 43934.2 |
| 67.5° | 4237.0 | 4324.4 | 5220.5 | 8171.1 | 16648.2 | 37970.5 | 65025.4 | 67254.8 | 58231.3 | 50294.3 | 43113.0 |
| 69° | 3831.1 | 3912.3 | 4499.3 | 6188.4 | 11140.4 | 31394.9 | 64251.1 | 70711.2 | 62977.2 | 49897.8 | 40078.1 |
| 70° | 3746.8 | 3821.7 | 4349.4 | 5704.5 | 9017.3 | 25877.8 | 61656.4 | 69827.5 | 64107.5 | 48477.1 | 37430.4 |
| 72.5° | 3372.1 | 3453.3 | 3965.3 | 5123.7 | 7705.9 | 12901.4 | 48839.3 | 59039.9 | 58203.2 | 42032.7 | 28391.2 |
| 75° | 3144.2 | 3219.1 | 4087.1 | 5017.6 | 7378.0 | 8164.9 | 32197.4 | 43512.6 | 42785.1 | 29402.9 | 15308.7 |
| 77.5° | 1345.7 | 1339.5 | 1895.2 | 4246.4 | 7487.3 | 7905.7 | 17300.8 | 27182.9 | 24800.6 | 12567.3 | 4396.2 |
| 80° | 899.2 | 883.6 | 899.2 | 1248.9 | 6866.0 | 7949.4 | 9064.1 | 13797.5 | 10422.3 | 3203.5 | 2166.9 |
| 82.5° | 774.3 | 761.8 | 789.9 | 761.8 | 2413.6 | 9073.5 | 7705.9 | 7337.5 | 4955.1 | 1820.3 | 1074.1 |
| 85° | 521.4 | 499.6 | 680.7 | 683.8 | 1139.6 | 8061.8 | 8680.0 | 6197.8 | 4009.1 | 1080.3 | 530.8 |
| 87.5° | 249.8 | 243.5 | 396.5 | 484.0 | 668.2 | 3275.3 | 9738.5 | 6350.8 | 4043.4 | 552.7 | 252.9 |
| 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° | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 | 16470.2 |
| 2.5° | 16311.0 | 16183.0 | 16058.1 | 15908.2 | 15752.1 | 15577.3 | 15489.8 | 15402.4 | 15380.5 | 15355.6 | 15268.1 |
| 5° | 15861.4 | 15680.3 | 15368.1 | 15024.6 | 14662.4 | 14309.6 | 14041.1 | 13872.5 | 13744.4 | 13678.9 | 13563.4 |
| 7.5° | 15280.6 | 15015.2 | 14468.8 | 13875.6 | 13266.7 | 12711.0 | 12230.1 | 11927.3 | 11640.0 | 11505.7 | 11352.8 |
| 10° | 14728.0 | 14331.4 | 13482.2 | 12607.9 | 11733.7 | 10893.8 | 10103.8 | 9544.9 | 9048.5 | 8770.6 | 8573.9 |
| 12.5° | 14253.4 | 13710.1 | 12533.0 | 11349.6 | 10150.7 | 8954.8 | 7771.5 | 6841.0 | 6063.5 | 5654.5 | 5445.3 |
| 15° | 13791.3 | 13135.6 | 11630.6 | 10128.8 | 8589.5 | 6962.8 | 5407.9 | 4352.5 | 3709.3 | 3453.3 | 3365.9 |
| 17.5° | 13372.9 | 12533.0 | 10725.2 | 8898.6 | 6978.4 | 5011.3 | 3634.4 | 3053.6 | 2807.0 | 2722.7 | 2694.6 |
| 20° | 12920.2 | 11924.1 | 9785.3 | 7612.2 | 5298.6 | 3503.2 | 2838.2 | 2582.2 | 2482.2 | 2457.3 | 2444.8 |
| 22.5° | 12483.0 | 11324.7 | 8886.1 | 6235.3 | 3806.1 | 2703.9 | 2438.5 | 2332.4 | 2316.8 | 2338.6 | 2338.6 |
| 25° | 12111.5 | 10787.6 | 7915.1 | 4795.9 | 2794.5 | 2276.2 | 2182.5 | 2157.5 | 2216.8 | 2298.0 | 2313.6 |
| 27.5° | 11833.6 | 10347.4 | 6881.6 | 3540.7 | 2226.2 | 1979.6 | 1976.4 | 2017.0 | 2163.8 | 2319.9 | 2351.1 |
| 30° | 11643.1 | 9929.0 | 5776.3 | 2554.1 | 1867.1 | 1742.3 | 1792.2 | 1879.6 | 2095.1 | 2316.8 | 2376.1 |
| 32.5° | 11546.3 | 9619.9 | 4624.2 | 1976.4 | 1598.6 | 1529.9 | 1614.2 | 1720.4 | 1932.7 | 2138.8 | 2216.8 |
| 35° | 11621.3 | 9391.9 | 3537.6 | 1648.6 | 1411.3 | 1358.2 | 1445.6 | 1548.7 | 1673.6 | 1761.0 | 1820.3 |
| 37.5° | 11902.3 | 9301.4 | 2669.6 | 1476.9 | 1283.3 | 1233.3 | 1302.0 | 1361.3 | 1411.3 | 1436.3 | 1464.4 |
| 40° | 12508.0 | 9398.2 | 2138.8 | 1389.4 | 1211.5 | 1149.0 | 1177.1 | 1199.0 | 1230.2 | 1255.2 | 1267.7 |
| 42.5° | 13401.0 | 9688.6 | 1917.1 | 1355.1 | 1174.0 | 1083.4 | 1077.2 | 1086.6 | 1127.2 | 1174.0 | 1183.4 |
| 45° | 14649.9 | 10200.6 | 1901.5 | 1376.9 | 1155.3 | 1030.4 | 1002.3 | 1014.8 | 1077.2 | 1149.0 | 1161.5 |
| 47.5° | 16245.4 | 10981.2 | 2026.4 | 1442.5 | 1170.9 | 1002.3 | 955.4 | 971.0 | 1049.1 | 1145.9 | 1161.5 |
| 50° | 18178.1 | 12070.9 | 2235.6 | 1539.3 | 1239.6 | 1008.5 | 939.8 | 949.2 | 1030.4 | 1136.5 | 1152.1 |
| 52.5° | 20460.6 | 13616.4 | 2463.5 | 1633.0 | 1311.4 | 1049.1 | 952.3 | 930.5 | 1005.4 | 1099.1 | 1117.8 |
| 55° | 22999.0 | 15599.1 | 2697.7 | 1717.3 | 1348.8 | 1099.1 | 977.3 | 905.5 | 958.6 | 1036.6 | 1052.2 |
| 57.5° | 26115.1 | 18371.7 | 3103.6 | 1798.5 | 1373.8 | 1133.4 | 1002.3 | 880.5 | 899.2 | 955.4 | 967.9 |
| 60° | 30333.3 | 22293.4 | 3818.6 | 1932.7 | 1430.0 | 1145.9 | 999.1 | 858.6 | 839.9 | 871.1 | 877.4 |
| 62.5° | 35388.4 | 26552.2 | 4415.0 | 2101.3 | 1523.7 | 1155.3 | 980.4 | 843.0 | 789.9 | 789.9 | 796.2 |
| 65° | 38388.9 | 27691.8 | 4084.0 | 2241.8 | 1601.7 | 1145.9 | 958.6 | 827.4 | 752.5 | 718.1 | 721.3 |
| 67.5° | 35844.2 | 24354.1 | 3500.1 | 2269.9 | 1598.6 | 1102.2 | 924.2 | 799.3 | 715.0 | 661.9 | 658.8 |
| 69° | 32656.3 | 21013.2 | 3237.8 | 2195.0 | 1523.7 | 1046.0 | 880.5 | 768.1 | 686.9 | 630.7 | 627.6 |
| 70° | 30086.7 | 18974.3 | 3066.1 | 2113.8 | 1442.5 | 1005.4 | 846.1 | 740.0 | 665.1 | 612.0 | 605.7 |
| 72.5° | 21875.0 | 12433.1 | 2619.6 | 1817.2 | 1189.6 | 843.0 | 730.6 | 649.4 | 593.2 | 562.0 | 555.8 |
| 75° | 10931.2 | 5929.3 | 2126.3 | 1473.7 | 911.7 | 674.4 | 599.5 | 543.3 | 515.2 | 508.9 | 505.8 |
| 77.5° | 3590.7 | 2716.4 | 1520.6 | 1099.1 | 677.5 | 527.7 | 484.0 | 443.4 | 437.1 | 455.9 | 449.6 |
| 80° | 1973.3 | 1579.9 | 964.8 | 727.5 | 462.1 | 387.2 | 380.9 | 359.1 | 368.4 | 399.7 | 393.4 |
| 82.5° | 1005.4 | 821.2 | 596.4 | 437.1 | 312.2 | 277.9 | 302.9 | 290.4 | 302.9 | 331.0 | 327.8 |
| 85° | 496.4 | 449.6 | 377.8 | 265.4 | 206.1 | 178.0 | 215.4 | 224.8 | 231.1 | 252.9 | 252.9 |
| 87.5° | 287.3 | 265.4 | 199.8 | 124.9 | 103.0 | 93.7 | 124.9 | 121.8 | 143.6 | 156.1 | 153.0 |
| 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)