

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: P192918

Luminaire Tested: **GAN-AF-10-LED-U-SL3-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192918
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-SL3-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA 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: 56986.4 lumens
Efficiency: N/A
Efficacy: 102.1 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

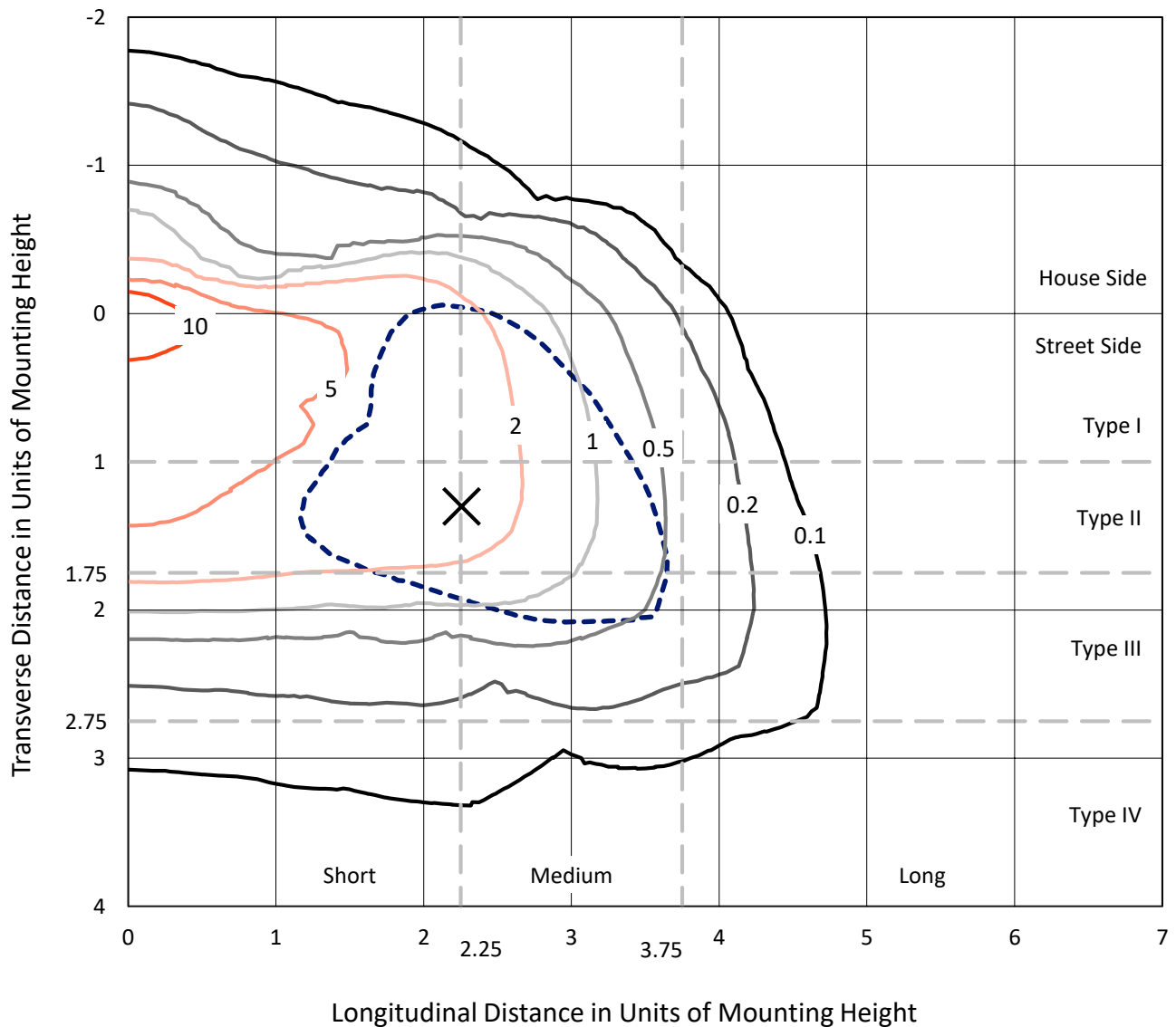
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

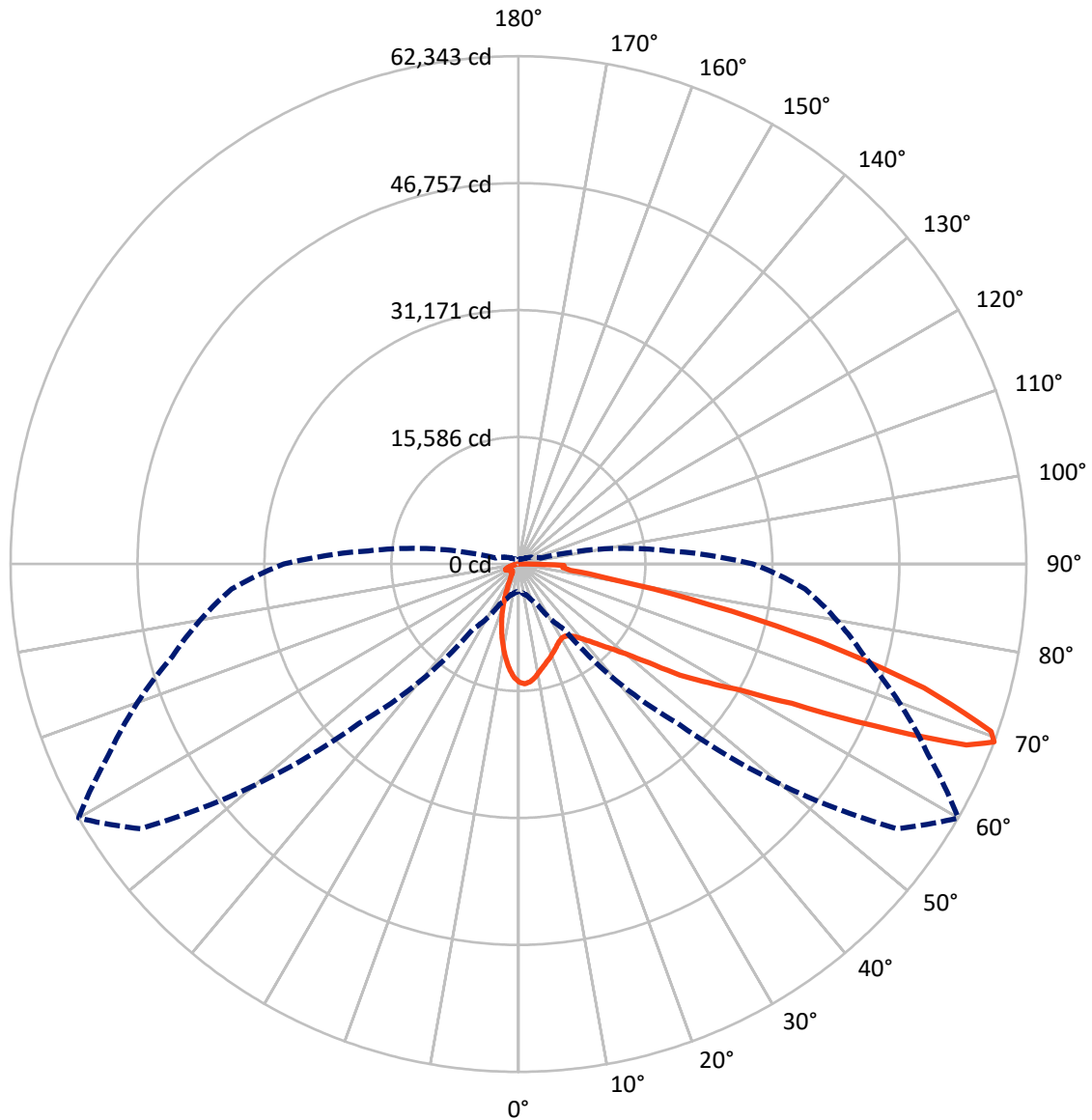
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.1 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 | 8107.4 | 0.0 | 8107.4 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 48879.0 | 0.0 | 48879.0 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 56986.4 | 0.0 | 56986.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1227.8 | 2.2 |
| 10°-20° | 2615.9 | 4.6 |
| 20°-30° | 3333.1 | 5.8 |
| 30°-40° | 4582.2 | 8.0 |
| 40°-50° | 7435.1 | 13.0 |
| 50°-60° | 11924.0 | 20.9 |
| 60°-70° | 15869.9 | 27.8 |
| 70°-80° | 8568.5 | 15.0 |
| 80°-90° | 1429.7 | 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° | 56986.4 | 100.0 |
| 0°-180° | 56986.4 | 100.0 |

Coefficient of Utilization



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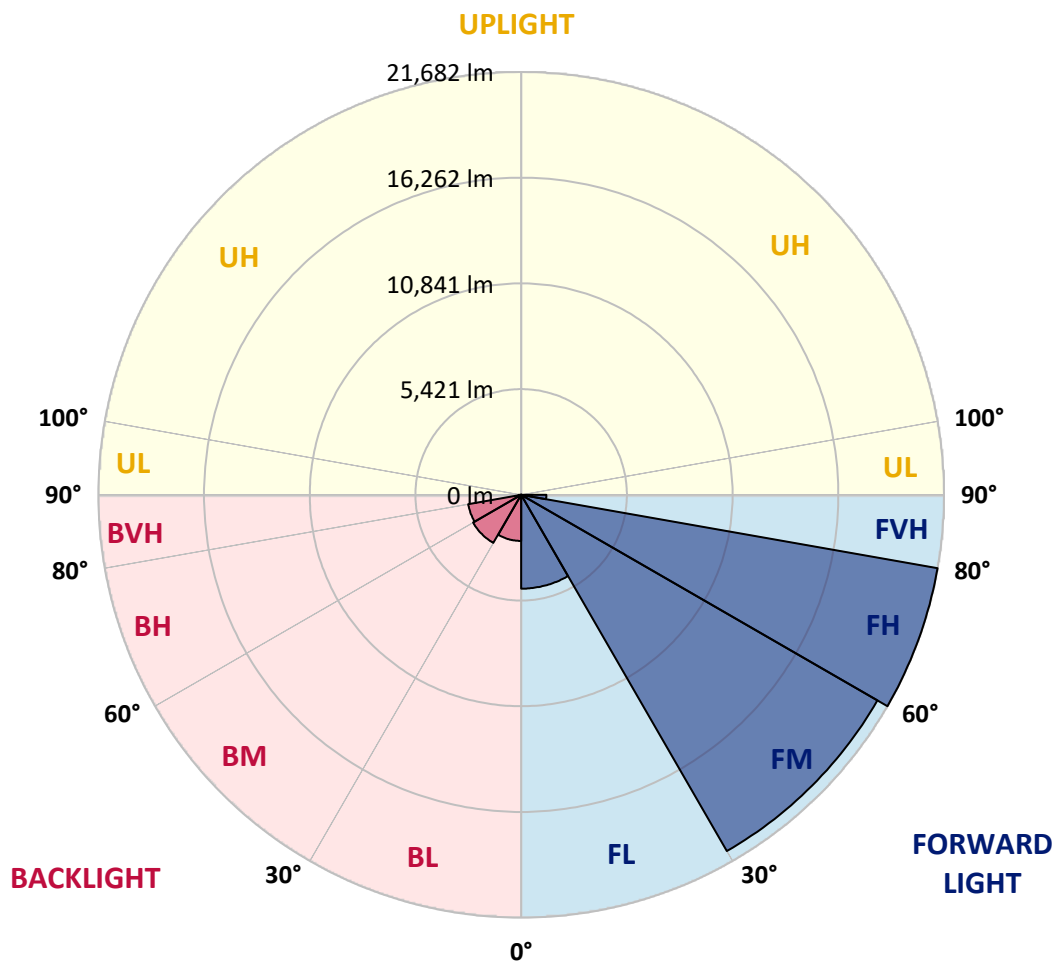
CATALOG NUMBER: GAN-AF-10-LED-U-SL3-7030-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4811.7 | 8.4 | | | |
| FM | (30°-60°) | 21093.0 | 37.0 | | | |
| FH | (60°-80°) | 21682.2 | 38.0 | | | G5 |
| FVH | (80°-90°) | 1292.0 | 2.3 | | | G5 |
| BL | (0°-30°) | 2365.2 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 2848.3 | 5.0 | B3/5000 | | |
| BH | (60°-80°) | 2756.2 | 4.8 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 137.7 | 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° | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 |
| 2.5° | 14818.3 | 14851.3 | 14837.5 | 14829.3 | 14854.2 | 14815.5 | 14735.7 | 14710.8 | 14672.4 | 14581.5 | 14427.3 |
| 5° | 14262.2 | 14361.4 | 14355.8 | 14430.2 | 14554.0 | 14587.1 | 14551.2 | 14556.7 | 14485.1 | 14372.3 | 14116.3 |
| 7.5° | 13301.6 | 13342.7 | 13364.8 | 13527.3 | 13753.0 | 13934.6 | 14088.8 | 14138.3 | 14105.4 | 14009.0 | 13678.6 |
| 10° | 12310.5 | 12343.6 | 12395.8 | 12585.8 | 12872.1 | 13122.6 | 13414.5 | 13582.2 | 13653.9 | 13637.3 | 13268.5 |
| 12.5° | 11459.8 | 11492.9 | 11561.7 | 11776.4 | 12117.8 | 12426.2 | 12850.1 | 13059.2 | 13229.8 | 13331.9 | 12935.4 |
| 15° | 10697.3 | 10768.9 | 10835.0 | 11082.7 | 11465.3 | 11870.0 | 12349.0 | 12613.3 | 12877.7 | 13106.0 | 12640.9 |
| 17.5° | 10102.7 | 10174.3 | 10212.9 | 10438.6 | 10846.0 | 11341.5 | 11903.0 | 12214.1 | 12544.5 | 12918.9 | 12349.0 |
| 20° | 9758.6 | 9791.7 | 9775.2 | 9901.8 | 10267.9 | 10793.7 | 11459.8 | 11820.5 | 12219.7 | 12742.7 | 12057.2 |
| 22.5° | 9662.4 | 9665.1 | 9604.6 | 9590.8 | 9827.5 | 10270.7 | 10986.3 | 11424.1 | 11914.0 | 12627.1 | 11806.8 |
| 25° | 9896.2 | 9888.1 | 9722.9 | 9587.9 | 9612.7 | 9871.5 | 10529.5 | 11038.7 | 11658.1 | 12602.3 | 11614.0 |
| 27.5° | 10416.6 | 10441.4 | 10196.4 | 9943.1 | 9692.6 | 9684.3 | 10182.6 | 10719.4 | 11448.8 | 12715.1 | 11531.4 |
| 30° | 11146.1 | 11187.4 | 10925.8 | 10603.7 | 10133.0 | 9745.0 | 10047.7 | 10529.5 | 11319.5 | 12949.2 | 11517.7 |
| 32.5° | 11944.3 | 11988.4 | 11790.1 | 11451.6 | 10835.0 | 10119.3 | 10141.3 | 10545.9 | 11314.1 | 13276.7 | 11611.3 |
| 35° | 12795.1 | 12844.5 | 12742.7 | 12456.4 | 11770.9 | 10810.2 | 10499.2 | 10813.0 | 11492.9 | 13777.7 | 11861.8 |
| 37.5° | 13744.7 | 13821.8 | 13849.2 | 13576.8 | 12844.5 | 11721.5 | 11085.6 | 11319.5 | 11897.6 | 14474.2 | 12321.5 |
| 40° | 15112.8 | 15220.3 | 15211.9 | 14821.0 | 14075.0 | 12951.9 | 11991.2 | 12051.8 | 12528.0 | 15404.7 | 13056.5 |
| 42.5° | 17733.6 | 17755.5 | 17070.1 | 16219.4 | 15429.4 | 14245.7 | 13059.2 | 13009.7 | 13397.8 | 16582.9 | 14138.3 |
| 45° | 21067.2 | 20976.2 | 19451.2 | 17807.8 | 16844.4 | 15732.2 | 14449.4 | 14207.2 | 14501.8 | 18019.8 | 15492.8 |
| 47.5° | 23833.7 | 23624.5 | 21697.5 | 19429.2 | 18341.9 | 17348.0 | 16081.9 | 15658.0 | 15820.3 | 19649.4 | 17243.6 |
| 50° | 24794.4 | 24637.5 | 23040.9 | 20778.1 | 19759.5 | 19319.1 | 18091.3 | 17491.2 | 17535.3 | 21592.9 | 19294.3 |
| 52.5° | 24587.9 | 24566.0 | 23500.6 | 21667.2 | 21086.4 | 21389.2 | 20937.8 | 20125.7 | 19696.2 | 23751.1 | 21507.5 |
| 55° | 24100.7 | 24147.5 | 23762.1 | 22702.3 | 22603.2 | 23387.7 | 24656.7 | 24056.7 | 22721.5 | 25928.6 | 23795.1 |
| 57.5° | 22407.8 | 22528.8 | 23376.7 | 24004.4 | 25045.0 | 26212.1 | 27651.8 | 27481.1 | 25978.1 | 28282.2 | 26514.9 |
| 60° | 18052.8 | 18333.6 | 20607.4 | 23751.1 | 27558.3 | 31208.4 | 31852.6 | 31456.2 | 29336.5 | 31203.0 | 30107.3 |
| 62.5° | 12649.1 | 12940.8 | 15644.2 | 20563.3 | 27145.4 | 36851.6 | 39362.2 | 37652.7 | 34159.5 | 35505.6 | 34756.8 |
| 65° | 6771.9 | 6912.3 | 8976.8 | 14267.7 | 22917.0 | 38016.1 | 50337.6 | 47736.3 | 41795.7 | 40810.2 | 38734.6 |
| 67.5° | 3735.6 | 3812.6 | 4602.6 | 7204.0 | 14677.9 | 33476.7 | 57329.7 | 59295.2 | 51339.7 | 44342.0 | 38010.5 |
| 69° | 3377.6 | 3449.2 | 3966.7 | 5456.1 | 9822.0 | 27679.3 | 56647.0 | 62342.6 | 55523.8 | 43992.3 | 35334.9 |
| 70° | 3303.4 | 3369.4 | 3834.7 | 5029.3 | 7950.0 | 22815.2 | 54359.4 | 61563.4 | 56520.4 | 42739.9 | 33000.4 |
| 72.5° | 2973.1 | 3044.6 | 3496.1 | 4517.4 | 6793.8 | 11374.6 | 43059.2 | 52052.5 | 51314.8 | 37058.1 | 25031.2 |
| 75° | 2772.0 | 2838.1 | 3603.4 | 4423.7 | 6504.9 | 7198.5 | 28386.7 | 38362.9 | 37721.5 | 25923.1 | 13496.9 |
| 77.5° | 1186.4 | 1181.0 | 1670.9 | 3743.8 | 6601.2 | 6970.0 | 15253.2 | 23965.8 | 21865.4 | 11080.0 | 3876.0 |
| 80° | 792.7 | 779.0 | 792.7 | 1101.2 | 6053.4 | 7008.7 | 7991.3 | 12164.6 | 9188.8 | 2824.4 | 1910.4 |
| 82.5° | 682.7 | 671.7 | 696.4 | 671.7 | 2128.0 | 7999.6 | 6793.8 | 6469.0 | 4368.7 | 1604.9 | 947.0 |
| 85° | 459.8 | 440.5 | 600.2 | 602.9 | 1004.7 | 7107.8 | 7652.7 | 5464.3 | 3534.5 | 952.4 | 467.9 |
| 87.5° | 220.2 | 214.7 | 349.6 | 426.6 | 589.1 | 2887.7 | 8585.9 | 5599.2 | 3564.9 | 487.3 | 223.0 |
| 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° | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 | 14521.0 |
| 2.5° | 14380.6 | 14267.7 | 14157.6 | 14025.5 | 13887.8 | 13733.7 | 13656.7 | 13579.5 | 13560.2 | 13538.2 | 13461.2 |
| 5° | 13984.2 | 13824.6 | 13549.2 | 13246.5 | 12927.1 | 12616.0 | 12379.3 | 12230.7 | 12117.8 | 12060.0 | 11958.1 |
| 7.5° | 13472.2 | 13238.2 | 12756.4 | 12233.4 | 11696.6 | 11206.6 | 10782.7 | 10515.6 | 10262.4 | 10144.0 | 10009.1 |
| 10° | 12984.9 | 12635.3 | 11886.6 | 11115.8 | 10345.0 | 9604.6 | 8908.0 | 8415.2 | 7977.6 | 7732.6 | 7559.2 |
| 12.5° | 12566.5 | 12087.6 | 11049.7 | 10006.4 | 8949.3 | 7895.0 | 6851.7 | 6031.3 | 5345.9 | 4985.3 | 4800.9 |
| 15° | 12159.1 | 11581.1 | 10254.2 | 8930.1 | 7573.0 | 6138.7 | 4767.8 | 3837.4 | 3270.3 | 3044.6 | 2967.5 |
| 17.5° | 11790.1 | 11049.7 | 9455.9 | 7845.5 | 6152.5 | 4418.2 | 3204.2 | 2692.2 | 2474.7 | 2400.4 | 2375.7 |
| 20° | 11391.1 | 10512.9 | 8627.2 | 6711.4 | 4671.5 | 3088.6 | 2502.2 | 2276.5 | 2188.5 | 2166.5 | 2155.4 |
| 22.5° | 11005.6 | 9984.3 | 7834.4 | 5497.4 | 3355.7 | 2383.9 | 2149.9 | 2056.4 | 2042.6 | 2061.8 | 2061.8 |
| 25° | 10678.1 | 9510.9 | 6978.3 | 4228.4 | 2463.8 | 2006.8 | 1924.2 | 1902.2 | 1954.4 | 2026.1 | 2039.9 |
| 27.5° | 10433.0 | 9122.7 | 6067.1 | 3121.6 | 1962.8 | 1745.3 | 1742.4 | 1778.3 | 1907.6 | 2045.4 | 2072.8 |
| 30° | 10265.1 | 8753.9 | 5092.7 | 2251.9 | 1646.2 | 1536.0 | 1580.1 | 1657.1 | 1847.1 | 2042.6 | 2094.8 |
| 32.5° | 10179.8 | 8481.4 | 4076.9 | 1742.4 | 1409.5 | 1349.0 | 1423.2 | 1516.7 | 1704.0 | 1885.7 | 1954.4 |
| 35° | 10245.9 | 8280.4 | 3119.0 | 1453.4 | 1244.3 | 1197.5 | 1274.5 | 1365.4 | 1475.5 | 1552.6 | 1604.9 |
| 37.5° | 10493.7 | 8200.6 | 2353.7 | 1302.1 | 1131.4 | 1087.3 | 1147.9 | 1200.2 | 1244.3 | 1266.4 | 1291.0 |
| 40° | 11027.6 | 8285.9 | 1885.7 | 1225.1 | 1068.1 | 1013.1 | 1037.9 | 1057.1 | 1084.6 | 1106.6 | 1117.6 |
| 42.5° | 11815.0 | 8541.9 | 1690.2 | 1194.8 | 1035.0 | 955.3 | 949.7 | 957.9 | 993.7 | 1035.0 | 1043.3 |
| 45° | 12916.1 | 8993.3 | 1676.5 | 1214.0 | 1018.6 | 908.4 | 883.7 | 894.7 | 949.7 | 1013.1 | 1024.1 |
| 47.5° | 14322.8 | 9681.6 | 1786.6 | 1271.8 | 1032.3 | 883.7 | 842.4 | 856.1 | 925.0 | 1010.3 | 1024.1 |
| 50° | 16026.8 | 10642.3 | 1971.0 | 1357.1 | 1092.8 | 889.2 | 828.6 | 836.8 | 908.4 | 1002.0 | 1015.8 |
| 52.5° | 18039.0 | 12005.0 | 2172.0 | 1439.7 | 1156.2 | 925.0 | 839.5 | 820.3 | 886.4 | 969.0 | 985.5 |
| 55° | 20277.1 | 13753.0 | 2378.5 | 1514.0 | 1189.2 | 969.0 | 861.6 | 798.3 | 845.1 | 914.0 | 927.7 |
| 57.5° | 23024.4 | 16197.4 | 2736.3 | 1585.6 | 1211.2 | 999.2 | 883.7 | 776.3 | 792.7 | 842.4 | 853.4 |
| 60° | 26743.4 | 19654.9 | 3366.8 | 1704.0 | 1260.8 | 1010.3 | 880.8 | 757.0 | 740.4 | 768.0 | 773.5 |
| 62.5° | 31200.2 | 23409.8 | 3892.5 | 1852.6 | 1343.4 | 1018.6 | 864.4 | 743.3 | 696.4 | 696.4 | 702.0 |
| 65° | 33845.6 | 24414.5 | 3600.6 | 1976.5 | 1412.1 | 1010.3 | 845.1 | 729.6 | 663.4 | 633.1 | 635.9 |
| 67.5° | 31602.0 | 21471.7 | 3085.9 | 2001.3 | 1409.5 | 971.8 | 814.8 | 704.7 | 630.4 | 583.6 | 580.8 |
| 69° | 28791.5 | 18526.3 | 2854.6 | 1935.2 | 1343.4 | 922.1 | 776.3 | 677.2 | 605.7 | 556.0 | 553.3 |
| 70° | 26526.0 | 16728.6 | 2703.3 | 1863.6 | 1271.8 | 886.4 | 746.0 | 652.4 | 586.4 | 539.5 | 534.1 |
| 72.5° | 19286.1 | 10961.7 | 2309.6 | 1602.2 | 1048.8 | 743.3 | 644.2 | 572.6 | 523.1 | 495.5 | 490.0 |
| 75° | 9637.5 | 5227.5 | 1874.7 | 1299.3 | 803.8 | 594.6 | 528.5 | 479.0 | 454.2 | 448.7 | 446.0 |
| 77.5° | 3165.7 | 2395.0 | 1340.6 | 969.0 | 597.3 | 465.2 | 426.6 | 390.9 | 385.3 | 401.8 | 396.4 |
| 80° | 1739.7 | 1392.9 | 850.6 | 641.4 | 407.4 | 341.3 | 335.9 | 316.6 | 324.8 | 352.4 | 346.9 |
| 82.5° | 886.4 | 724.0 | 525.7 | 385.3 | 275.4 | 245.0 | 267.0 | 256.0 | 267.0 | 291.8 | 289.0 |
| 85° | 437.7 | 396.4 | 333.1 | 234.1 | 181.7 | 156.9 | 189.9 | 198.2 | 203.7 | 223.0 | 223.0 |
| 87.5° | 253.3 | 234.1 | 176.1 | 110.2 | 90.8 | 82.6 | 110.2 | 107.4 | 126.6 | 137.6 | 134.9 |
| 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)