

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: P192878

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48681.6 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - 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

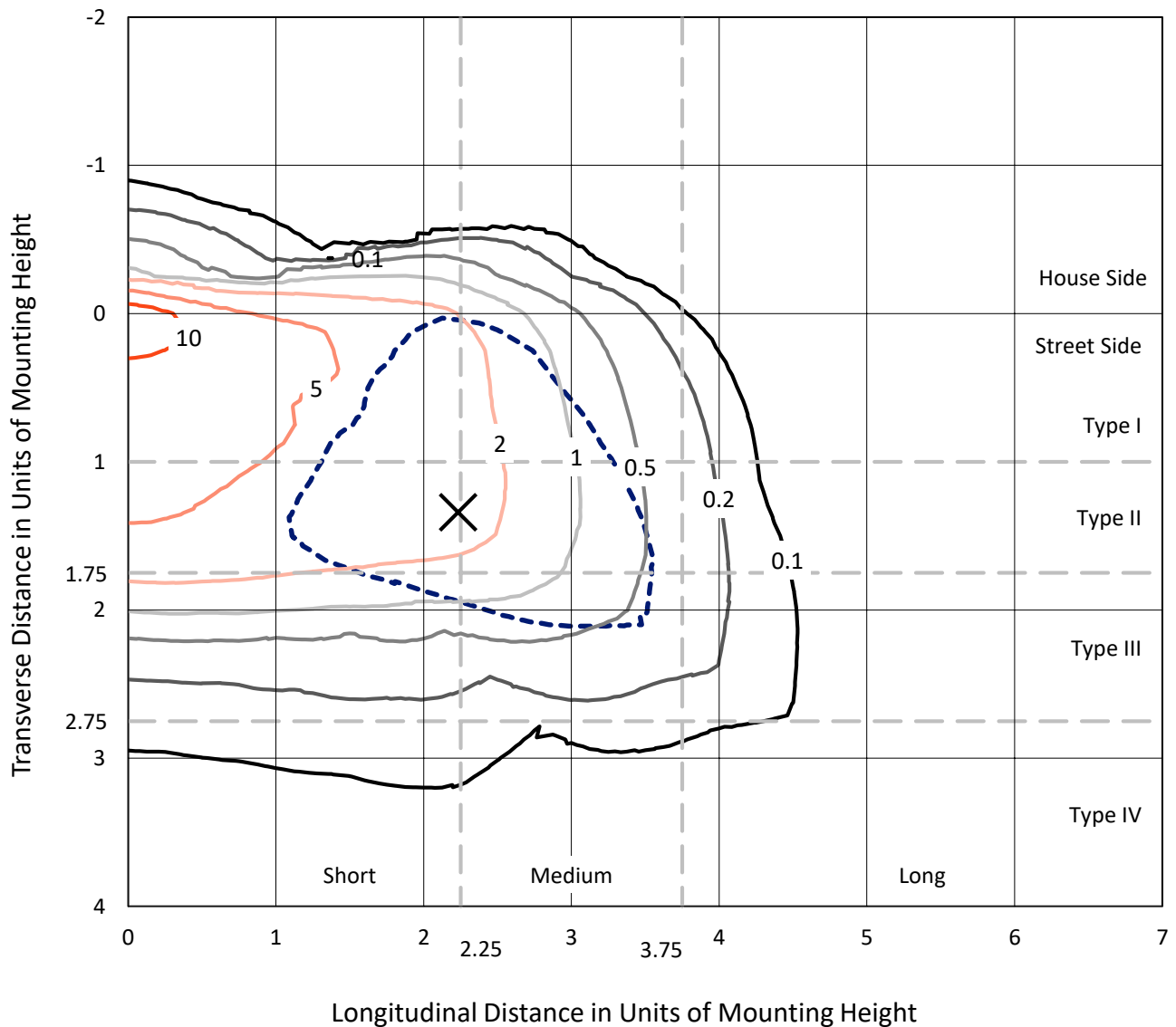


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

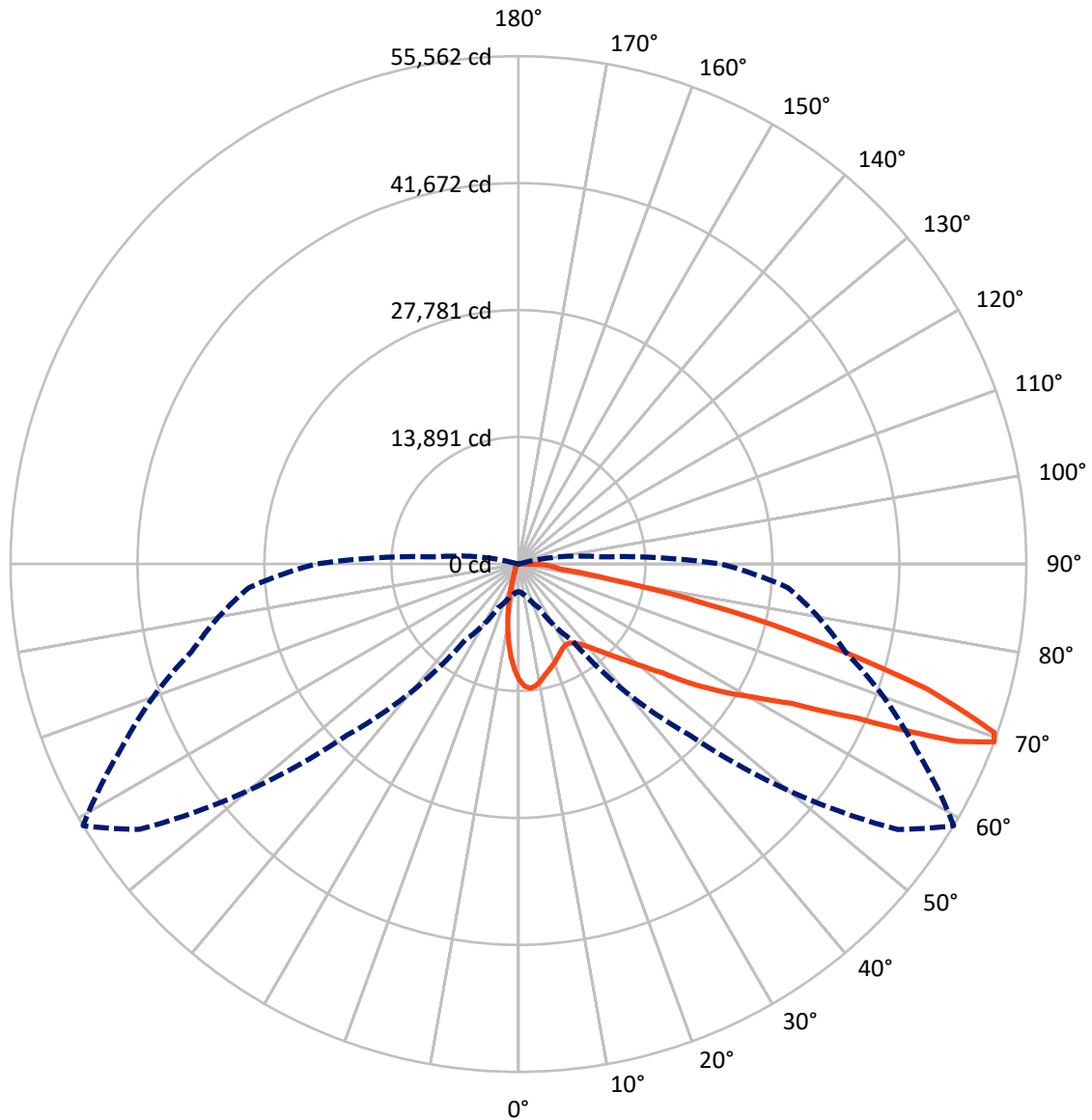


Based on 30 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3964.5 | 0.0 | 3964.5 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 44717.1 | 0.0 | 44717.1 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 48681.6 | 0.0 | 48681.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1028.5 | 2.1 |
| 10°-20° | 2125.2 | 4.4 |
| 20°-30° | 2859.8 | 5.9 |
| 30°-40° | 4152.2 | 8.5 |
| 40°-50° | 6913.7 | 14.2 |
| 50°-60° | 10785.2 | 22.2 |
| 60°-70° | 13345.8 | 27.4 |
| 70°-80° | 6763.5 | 13.9 |
| 80°-90° | 707.7 | 1.5 |
| 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° | 48681.6 | 100.0 |
| 0°-180° | 48681.6 | 100.0 |



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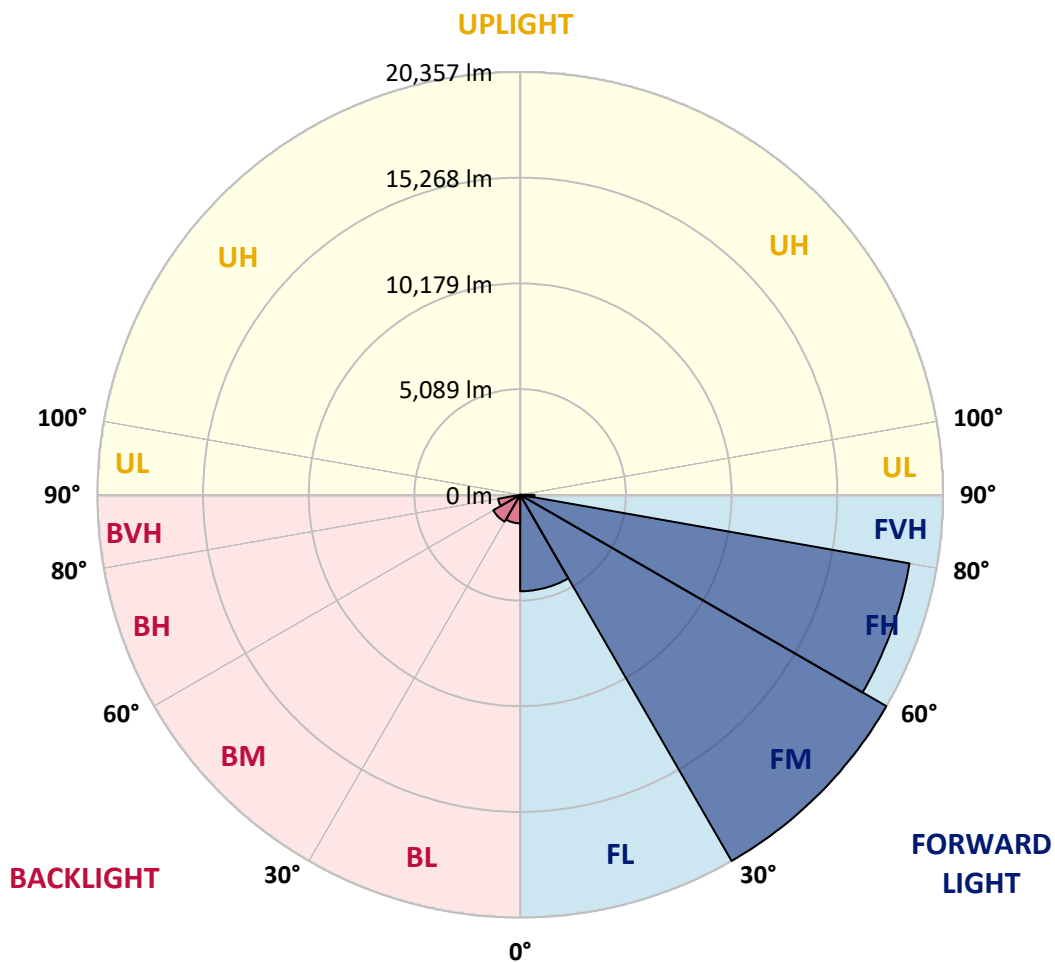
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4641.3 | 9.5 | | | |
| FM | (30°-60°) | 20357.2 | 41.8 | | | |
| FH | (60°-80°) | 19032.7 | 39.1 | | | G5 |
| FVH | (80°-90°) | 685.9 | 1.4 | | | G4/750 |
| BL | (0°-30°) | 1372.2 | 2.8 | B3/2500 | | |
| BM | (30°-60°) | 1493.8 | 3.1 | B2/2500 | | |
| BH | (60°-80°) | 1076.7 | 2.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 21.8 | 0.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 |
| 2.5° | 13887.8 | 13882.4 | 13821.9 | 13794.3 | 13744.7 | 13640.2 | 13477.6 | 13392.4 | 13254.7 | 13015.2 | 12693.2 |
| 5° | 13761.2 | 13827.3 | 13863.2 | 13865.9 | 13901.6 | 13863.2 | 13717.2 | 13645.6 | 13455.8 | 13070.2 | 12492.1 |
| 7.5° | 12902.3 | 12927.1 | 13028.9 | 13117.1 | 13287.8 | 13450.2 | 13502.5 | 13472.2 | 13359.3 | 12946.4 | 12178.4 |
| 10° | 11982.9 | 12007.7 | 12128.9 | 12244.4 | 12475.7 | 12726.2 | 12990.5 | 13045.5 | 13092.3 | 12770.2 | 11875.6 |
| 12.5° | 11190.2 | 11214.9 | 11338.8 | 11490.1 | 11760.0 | 12068.2 | 12478.4 | 12569.3 | 12775.8 | 12602.3 | 11633.4 |
| 15° | 10507.5 | 10518.5 | 10639.5 | 10826.7 | 11148.9 | 11545.2 | 12010.5 | 12156.4 | 12472.9 | 12484.0 | 11421.4 |
| 17.5° | 9926.6 | 9954.2 | 10028.5 | 10207.3 | 10559.7 | 11049.7 | 11592.1 | 11801.2 | 12172.9 | 12384.9 | 11214.9 |
| 20° | 9571.4 | 9599.0 | 9596.2 | 9695.3 | 10012.0 | 10535.0 | 11173.6 | 11424.1 | 11875.6 | 12283.0 | 11030.5 |
| 22.5° | 9502.8 | 9502.8 | 9431.0 | 9417.3 | 9604.6 | 10042.2 | 10738.6 | 11044.3 | 11608.6 | 12238.9 | 10901.2 |
| 25° | 9747.7 | 9736.6 | 9557.7 | 9411.8 | 9420.2 | 9681.6 | 10317.5 | 10680.8 | 11382.8 | 12269.3 | 10832.3 |
| 27.5° | 10265.2 | 10251.5 | 10025.7 | 9747.7 | 9524.6 | 9522.0 | 9998.2 | 10389.0 | 11203.9 | 12412.4 | 10859.9 |
| 30° | 10980.9 | 10975.4 | 10730.5 | 10380.8 | 9976.1 | 9604.6 | 9888.1 | 10243.2 | 11088.2 | 12671.2 | 10923.0 |
| 32.5° | 11762.8 | 11754.4 | 11570.0 | 11201.1 | 10689.2 | 9976.1 | 10003.7 | 10301.0 | 11121.3 | 13015.2 | 11077.2 |
| 35° | 12591.2 | 12577.5 | 12497.7 | 12175.7 | 11611.3 | 10661.6 | 10383.6 | 10614.7 | 11330.5 | 13530.0 | 11380.1 |
| 37.5° | 13488.7 | 13502.5 | 13560.2 | 13251.9 | 12660.1 | 11622.4 | 11019.5 | 11176.3 | 11751.7 | 14229.3 | 11872.8 |
| 40° | 14812.9 | 14810.1 | 14829.3 | 14424.6 | 13854.8 | 12797.7 | 11908.6 | 11958.2 | 12456.4 | 15156.9 | 12621.6 |
| 42.5° | 17216.0 | 17048.0 | 16538.8 | 15713.0 | 15140.4 | 14141.1 | 13028.9 | 12976.7 | 13318.0 | 16304.9 | 13670.4 |
| 45° | 20445.0 | 20087.2 | 18765.9 | 17182.9 | 16450.7 | 15655.2 | 14408.1 | 14240.2 | 14457.7 | 17683.9 | 14964.2 |
| 47.5° | 23222.6 | 22851.0 | 20981.8 | 18713.5 | 17841.0 | 17092.1 | 16024.1 | 15721.2 | 15792.8 | 19228.3 | 16604.9 |
| 50° | 24166.8 | 23985.1 | 22352.7 | 20045.9 | 19187.0 | 18900.8 | 17898.8 | 17529.8 | 17428.0 | 21014.8 | 18507.1 |
| 52.5° | 23839.3 | 23825.5 | 22738.2 | 20910.2 | 20420.2 | 20772.6 | 20257.9 | 19831.2 | 19456.8 | 22897.8 | 20442.3 |
| 55° | 23313.4 | 23382.2 | 22895.1 | 21667.3 | 21650.9 | 22482.1 | 23484.1 | 23129.0 | 22044.3 | 24943.2 | 22110.5 |
| 57.5° | 21862.8 | 22157.2 | 22807.0 | 23098.7 | 23775.9 | 24626.5 | 26170.9 | 26380.1 | 25097.3 | 26509.5 | 23495.1 |
| 60° | 17739.0 | 18385.9 | 20511.1 | 23305.2 | 26514.9 | 28634.6 | 29413.6 | 29592.6 | 27602.2 | 27811.5 | 25364.3 |
| 62.5° | 12591.2 | 13251.9 | 15946.9 | 20673.5 | 26556.2 | 33900.8 | 34244.8 | 33542.8 | 30360.6 | 29741.3 | 28587.8 |
| 65° | 6683.8 | 7193.1 | 9395.3 | 14922.9 | 23024.4 | 35122.9 | 42693.2 | 40601.1 | 35227.6 | 33537.3 | 32752.7 |
| 67.5° | 3418.9 | 3573.1 | 4448.5 | 7303.2 | 15828.6 | 31197.5 | 50266.2 | 51738.8 | 43615.3 | 37303.2 | 32551.8 |
| 69° | 3025.3 | 3116.2 | 3697.0 | 5279.9 | 10135.8 | 26424.2 | 50635.0 | 55562.4 | 48006.2 | 36989.4 | 29581.6 |
| 70° | 2929.0 | 3008.8 | 3537.4 | 4778.9 | 7922.6 | 22160.1 | 49222.8 | 55226.6 | 49129.2 | 35794.7 | 27362.8 |
| 72.5° | 2485.7 | 2554.6 | 3149.2 | 4222.8 | 6438.7 | 11000.2 | 39984.4 | 46797.6 | 44086.1 | 29818.3 | 19806.4 |
| 75° | 1662.7 | 1888.4 | 3022.5 | 3958.6 | 5990.1 | 6248.9 | 26360.8 | 33818.2 | 31415.0 | 20112.0 | 10317.5 |
| 77.5° | 399.2 | 429.4 | 853.4 | 3149.2 | 5478.0 | 5500.1 | 13557.6 | 21023.1 | 17147.1 | 7168.3 | 2439.0 |
| 80° | 214.7 | 206.5 | 239.5 | 624.9 | 5101.0 | 5161.5 | 6103.0 | 10204.6 | 6122.3 | 1189.2 | 803.8 |
| 82.5° | 151.5 | 143.1 | 154.2 | 261.5 | 1604.9 | 4701.8 | 4415.5 | 4619.2 | 2538.1 | 456.9 | 360.7 |
| 85° | 55.0 | 52.3 | 85.3 | 236.8 | 503.8 | 2703.3 | 4536.7 | 3809.9 | 2056.4 | 209.2 | 264.3 |
| 87.5° | 19.2 | 16.5 | 33.0 | 129.4 | 154.2 | 1150.7 | 2799.5 | 2879.4 | 809.3 | 126.6 | 123.9 |
| 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° | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 | 12671.2 |
| 2.5° | 12558.3 | 12387.6 | 12073.8 | 11751.7 | 11454.4 | 11096.6 | 10917.6 | 10741.4 | 10667.1 | 10639.5 | 10510.2 |
| 5° | 12194.9 | 11905.9 | 11239.7 | 10570.8 | 9954.2 | 9298.9 | 8866.7 | 8519.9 | 8316.2 | 8217.1 | 8060.2 |
| 7.5° | 11729.6 | 11256.2 | 10245.9 | 9213.7 | 8252.9 | 7305.9 | 6603.9 | 6064.4 | 5692.7 | 5513.9 | 5351.4 |
| 10° | 11278.2 | 10647.9 | 9210.9 | 7804.2 | 6499.4 | 5244.1 | 4275.1 | 3573.1 | 3124.4 | 2918.0 | 2785.8 |
| 12.5° | 10873.6 | 10056.0 | 8211.6 | 6430.6 | 4792.6 | 3322.7 | 2337.2 | 1778.3 | 1500.2 | 1404.0 | 1357.1 |
| 15° | 10512.9 | 9510.9 | 7267.4 | 5125.7 | 3245.5 | 1899.5 | 1277.4 | 1087.3 | 1043.3 | 1043.3 | 1037.9 |
| 17.5° | 10171.6 | 8976.8 | 6356.2 | 3900.7 | 2037.0 | 1161.7 | 971.8 | 947.0 | 947.0 | 957.9 | 957.9 |
| 20° | 9844.0 | 8467.6 | 5475.3 | 2799.5 | 1282.8 | 922.1 | 878.1 | 872.7 | 878.1 | 891.9 | 891.9 |
| 22.5° | 9563.3 | 8005.1 | 4652.3 | 1921.5 | 952.5 | 831.4 | 809.3 | 801.1 | 803.8 | 812.2 | 817.6 |
| 25° | 9354.0 | 7614.3 | 3876.0 | 1302.1 | 820.3 | 757.0 | 732.2 | 718.5 | 707.5 | 707.5 | 713.0 |
| 27.5° | 9221.9 | 7283.9 | 3124.4 | 947.0 | 737.7 | 688.3 | 649.6 | 627.5 | 602.9 | 589.1 | 594.6 |
| 30° | 9125.6 | 6970.0 | 2419.8 | 773.5 | 660.7 | 611.1 | 561.6 | 525.7 | 490.0 | 473.5 | 479.0 |
| 32.5° | 9089.8 | 6716.8 | 1808.6 | 682.7 | 591.8 | 536.8 | 476.3 | 429.4 | 390.9 | 377.2 | 379.9 |
| 35° | 9186.1 | 6515.9 | 1324.1 | 616.7 | 536.8 | 467.9 | 399.2 | 346.9 | 316.6 | 308.3 | 311.1 |
| 37.5° | 9439.4 | 6408.5 | 991.0 | 561.6 | 487.3 | 410.2 | 333.1 | 283.5 | 264.3 | 264.3 | 267.0 |
| 40° | 9918.3 | 6405.8 | 795.5 | 523.1 | 443.1 | 355.1 | 275.4 | 239.5 | 228.5 | 234.1 | 236.8 |
| 42.5° | 10617.6 | 6551.6 | 693.7 | 487.3 | 404.7 | 302.7 | 228.5 | 203.7 | 200.9 | 206.5 | 209.2 |
| 45° | 11572.7 | 6818.7 | 638.6 | 456.9 | 363.4 | 253.3 | 192.8 | 176.1 | 176.1 | 184.4 | 187.2 |
| 47.5° | 12742.7 | 7209.6 | 591.8 | 426.6 | 322.1 | 212.0 | 165.2 | 154.2 | 156.9 | 165.2 | 167.9 |
| 50° | 14152.2 | 7702.3 | 545.1 | 393.7 | 291.8 | 176.1 | 143.1 | 134.9 | 137.6 | 148.7 | 151.5 |
| 52.5° | 15757.1 | 8365.8 | 506.5 | 363.4 | 253.3 | 145.9 | 121.2 | 115.6 | 121.2 | 132.1 | 134.9 |
| 55° | 17133.4 | 8960.4 | 459.8 | 338.6 | 203.7 | 121.2 | 99.1 | 99.1 | 104.6 | 118.3 | 121.2 |
| 57.5° | 18457.5 | 9582.5 | 418.5 | 291.8 | 159.6 | 96.3 | 82.6 | 85.3 | 93.6 | 107.4 | 110.2 |
| 60° | 20401.0 | 10636.8 | 368.9 | 245.0 | 121.2 | 77.0 | 68.9 | 71.6 | 82.6 | 96.3 | 99.1 |
| 62.5° | 23701.6 | 12241.7 | 319.4 | 203.7 | 93.6 | 60.5 | 55.0 | 60.5 | 74.3 | 90.8 | 93.6 |
| 65° | 26680.1 | 12894.1 | 261.5 | 170.7 | 71.6 | 46.8 | 46.8 | 55.0 | 71.6 | 88.1 | 90.8 |
| 67.5° | 25020.2 | 10854.3 | 203.7 | 134.9 | 55.0 | 35.8 | 38.6 | 52.3 | 68.9 | 88.1 | 90.8 |
| 69° | 22126.9 | 8875.0 | 173.4 | 107.4 | 46.8 | 33.0 | 35.8 | 52.3 | 68.9 | 85.3 | 88.1 |
| 70° | 19872.5 | 7493.1 | 154.2 | 90.8 | 41.3 | 33.0 | 35.8 | 49.6 | 68.9 | 85.3 | 88.1 |
| 72.5° | 13309.8 | 4046.6 | 123.9 | 66.1 | 38.6 | 30.3 | 30.3 | 49.6 | 66.1 | 82.6 | 85.3 |
| 75° | 5720.3 | 1117.6 | 99.1 | 46.8 | 33.0 | 27.6 | 27.6 | 46.8 | 63.3 | 79.9 | 85.3 |
| 77.5° | 1046.0 | 283.5 | 79.9 | 41.3 | 33.0 | 27.6 | 24.8 | 44.0 | 60.5 | 77.0 | 79.9 |
| 80° | 415.6 | 140.4 | 63.3 | 35.8 | 30.3 | 24.8 | 22.1 | 41.3 | 57.8 | 74.3 | 77.0 |
| 82.5° | 250.5 | 79.9 | 52.3 | 33.0 | 30.3 | 22.1 | 19.2 | 35.8 | 55.0 | 71.6 | 74.3 |
| 85° | 203.7 | 55.0 | 41.3 | 33.0 | 27.6 | 22.1 | 16.5 | 33.0 | 49.6 | 68.9 | 71.6 |
| 87.5° | 99.1 | 38.6 | 38.6 | 30.3 | 27.6 | 22.1 | 16.5 | 30.3 | 46.8 | 66.1 | 68.9 |
| 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)