

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: P319321

Luminaire Tested: **GAN-SA7B-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36061 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

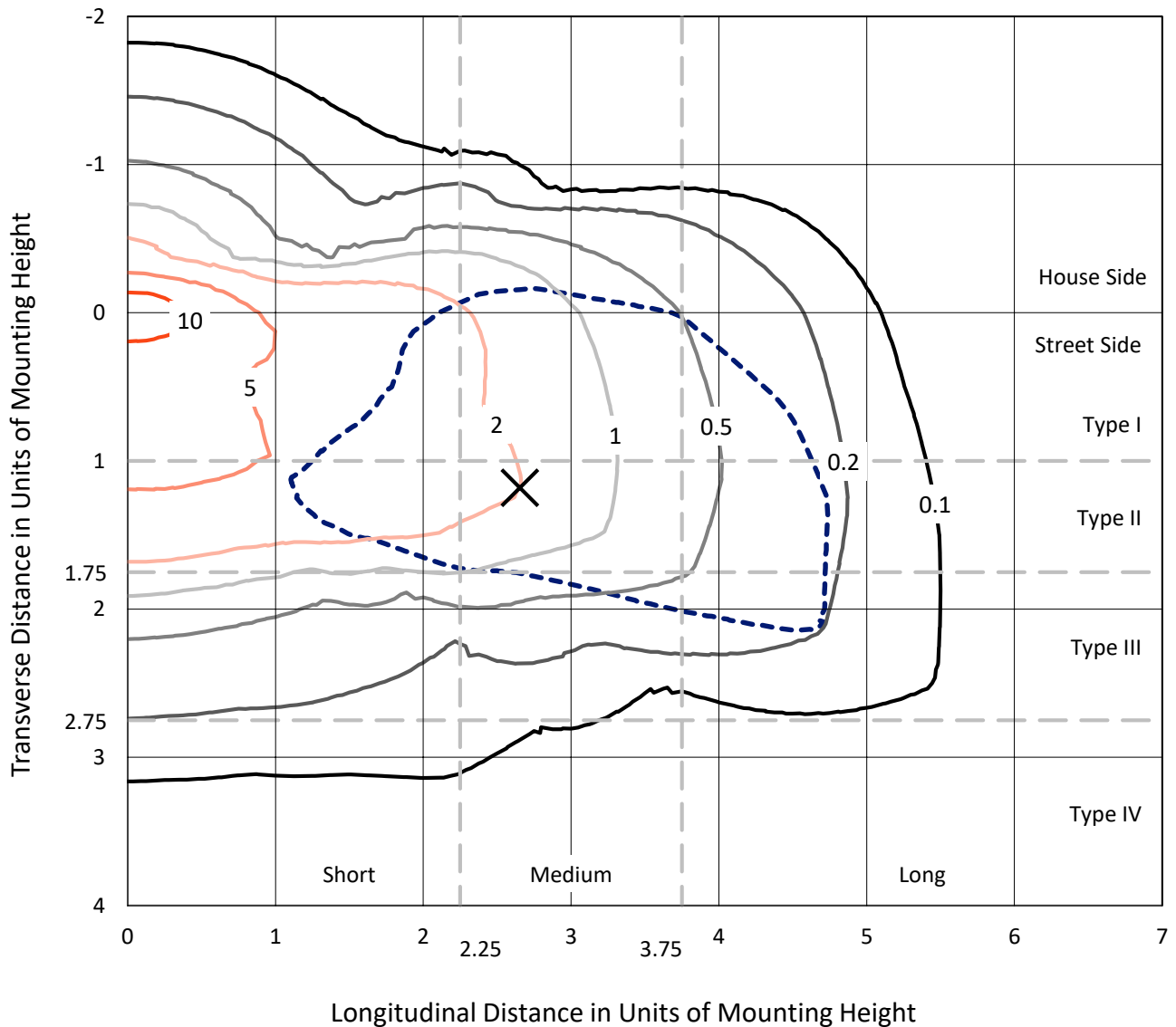
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

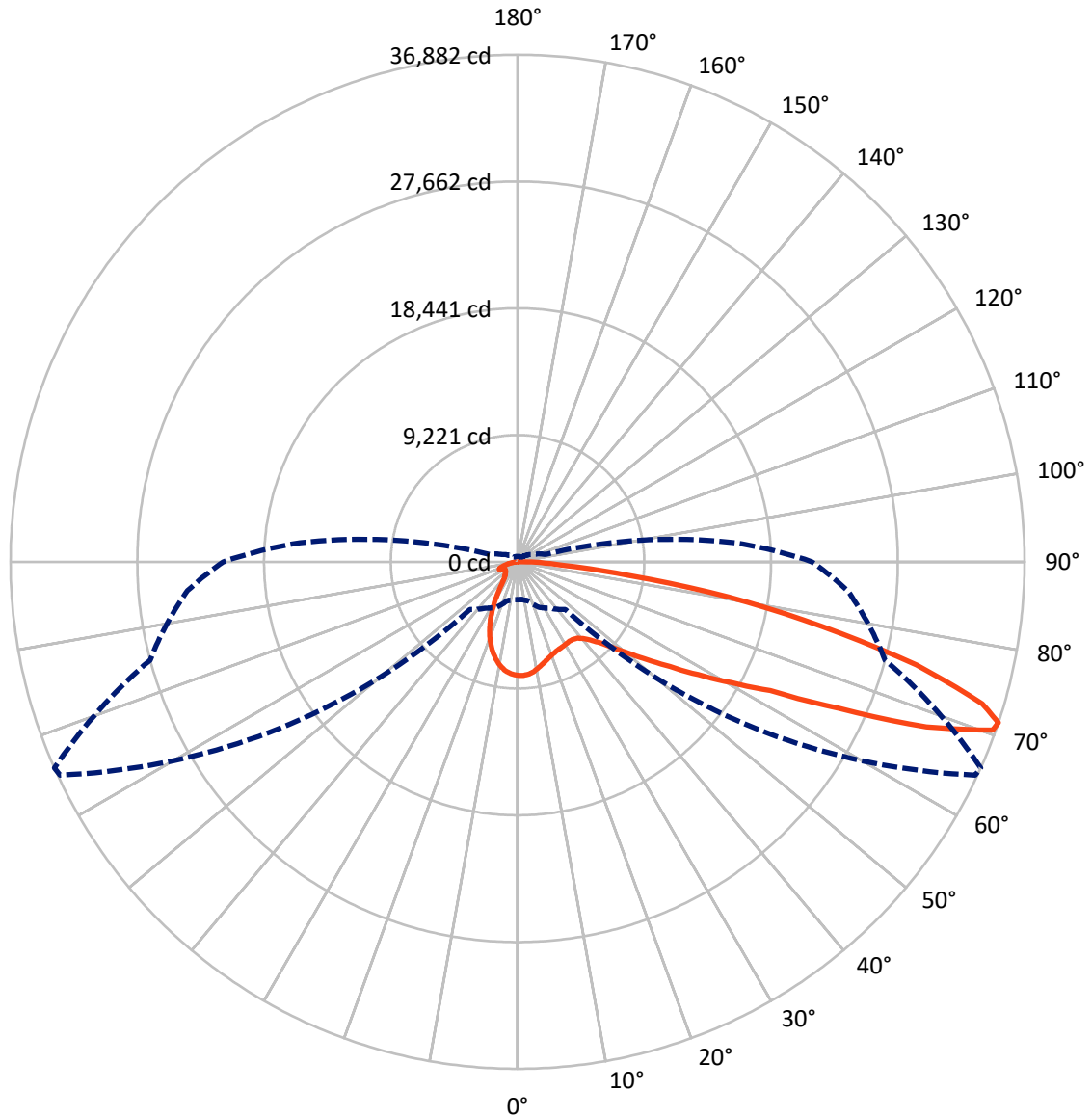
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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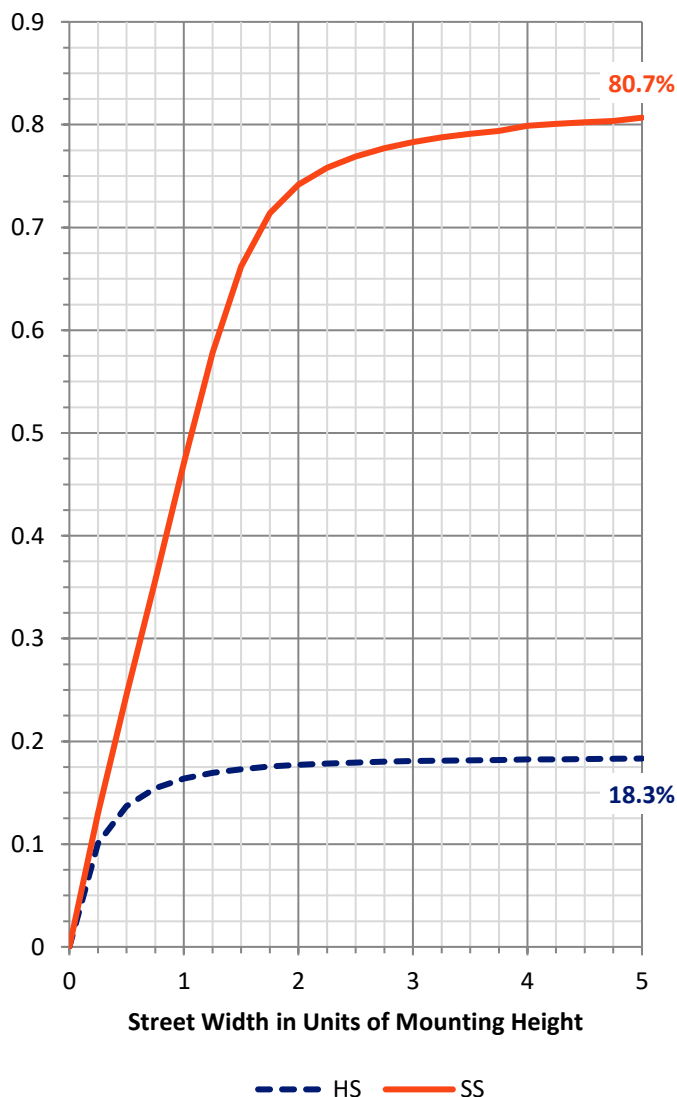
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6683.1 | 0.0 | 6683.1 |
| | % Fixture | 18.5 | 0.0 | 18.5 |
| Street Side | Lumens | 29377.9 | 0.0 | 29377.9 |
| | % Fixture | 81.5 | 0.0 | 81.5 |
| Total | Lumens | 36061.0 | 0.0 | 36061.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 727.1 | 2.0 |
| 10°-20° | 1744.0 | 4.8 |
| 20°-30° | 2342.7 | 6.5 |
| 30°-40° | 3081.7 | 8.5 |
| 40°-50° | 4483.1 | 12.4 |
| 50°-60° | 7003.1 | 19.4 |
| 60°-70° | 8772.5 | 24.3 |
| 70°-80° | 6691.5 | 18.6 |
| 80°-90° | 1215.1 | 3.4 |
| 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° | 36061.0 | 100.0 |
| 0°-180° | 36061.0 | 100.0 |

Coefficient of Utilization

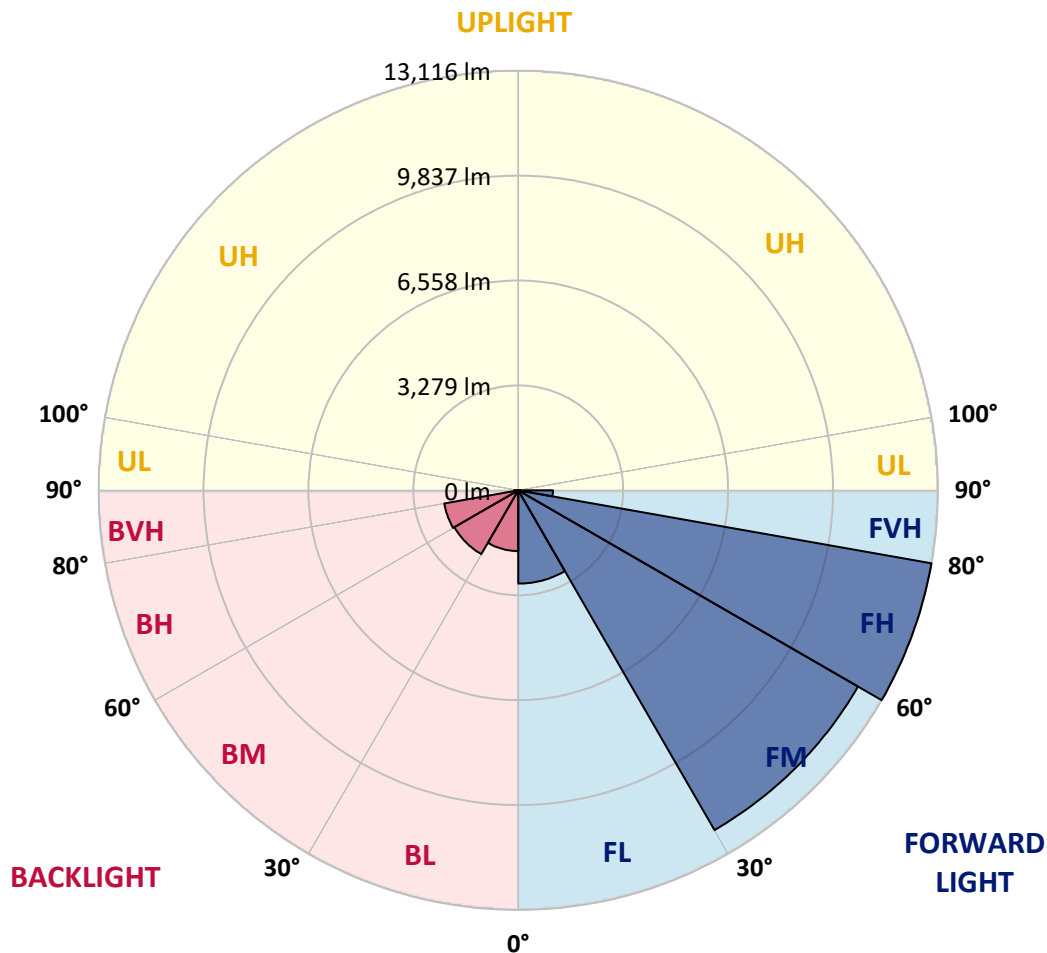


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2916.0 | 8.1 | | | |
| FM (30°-60°) | 12262.5 | 34.0 | | | |
| FH (60°-80°) | 13115.8 | 36.4 | | | G5 |
| FVH (80°-90°) | 1083.6 | 3.0 | | | G5 |
| BL (0°-30°) | 1897.8 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 2305.5 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 2348.3 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 131.5 | 0.4 | | | G2/225 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 |
| 2.5° | 8107.7 | 8095.3 | 8132.6 | 8171.2 | 8186.2 | 8211.1 | 8248.4 | 8269.6 | 8268.3 | 8272.1 | 8259.6 |
| 5° | 7569.9 | 7553.7 | 7628.4 | 7689.4 | 7806.4 | 7938.4 | 8099.0 | 8213.6 | 8216.1 | 8280.8 | 8298.2 |
| 7.5° | 7060.7 | 7049.4 | 7135.4 | 7233.7 | 7369.4 | 7571.1 | 7831.3 | 8077.9 | 8092.8 | 8268.3 | 8329.4 |
| 10° | 6652.3 | 6649.8 | 6733.2 | 6840.3 | 6998.4 | 7223.8 | 7522.6 | 7883.6 | 7906.0 | 8208.6 | 8334.3 |
| 12.5° | 6333.5 | 6338.5 | 6410.7 | 6532.8 | 6699.6 | 6934.9 | 7258.6 | 7665.7 | 7701.9 | 8114.0 | 8305.7 |
| 15° | 6098.2 | 6118.2 | 6176.7 | 6299.9 | 6464.3 | 6703.3 | 7035.8 | 7464.0 | 7518.8 | 8008.1 | 8289.5 |
| 17.5° | 5963.8 | 5986.2 | 6027.3 | 6129.4 | 6283.7 | 6514.1 | 6829.1 | 7298.5 | 7348.3 | 7927.2 | 8290.8 |
| 20° | 5923.9 | 5942.6 | 5966.3 | 6028.5 | 6159.2 | 6368.4 | 6666.0 | 7149.1 | 7202.6 | 7862.5 | 8303.2 |
| 22.5° | 6002.4 | 6016.1 | 6018.6 | 6013.6 | 6093.3 | 6263.8 | 6547.7 | 7039.5 | 7096.8 | 7820.1 | 8311.9 |
| 25° | 6170.4 | 6189.1 | 6175.4 | 6129.4 | 6103.2 | 6207.8 | 6486.7 | 6967.3 | 7024.5 | 7789.0 | 8294.5 |
| 27.5° | 6423.2 | 6425.7 | 6414.5 | 6354.7 | 6231.5 | 6214.0 | 6468.0 | 6924.9 | 6979.7 | 7752.9 | 8258.4 |
| 30° | 6766.8 | 6783.0 | 6763.1 | 6682.2 | 6480.5 | 6313.6 | 6490.4 | 6883.9 | 6933.7 | 7706.8 | 8199.9 |
| 32.5° | 7169.0 | 7208.8 | 7207.6 | 7122.9 | 6834.1 | 6536.5 | 6582.6 | 6859.0 | 6897.6 | 7658.3 | 8128.9 |
| 35° | 7586.1 | 7640.8 | 7742.9 | 7706.8 | 7349.5 | 6888.8 | 6759.4 | 6898.8 | 6924.9 | 7652.0 | 8079.1 |
| 37.5° | 8019.3 | 8074.1 | 8284.5 | 8381.6 | 7963.3 | 7393.1 | 7038.2 | 7039.5 | 7051.9 | 7728.0 | 8075.4 |
| 40° | 8472.5 | 8531.1 | 8847.3 | 9100.0 | 8758.9 | 8031.8 | 7487.7 | 7333.3 | 7319.6 | 7914.8 | 8148.8 |
| 42.5° | 9107.5 | 9159.8 | 9539.5 | 9862.0 | 9641.6 | 8849.8 | 8109.0 | 7786.5 | 7757.9 | 8280.8 | 8384.1 |
| 45° | 9910.6 | 9955.4 | 10358.8 | 10703.7 | 10590.4 | 9783.6 | 8889.6 | 8410.3 | 8405.3 | 8890.9 | 8861.0 |
| 47.5° | 10865.5 | 10900.4 | 11262.7 | 11596.4 | 11637.4 | 10858.0 | 9870.7 | 9372.7 | 9291.8 | 9727.5 | 9599.3 |
| 50° | 11860.3 | 11898.9 | 12145.4 | 12504.0 | 12809.0 | 12296.1 | 11133.2 | 10551.8 | 10443.4 | 10831.9 | 10645.1 |
| 52.5° | 12518.9 | 12570.0 | 12784.1 | 13238.6 | 14126.3 | 13872.3 | 12626.0 | 11981.1 | 11816.7 | 12170.3 | 12027.1 |
| 55° | 12225.1 | 12339.6 | 12667.1 | 13395.4 | 15179.6 | 16280.2 | 14467.4 | 13648.2 | 13462.7 | 13756.5 | 13671.8 |
| 57.5° | 10889.2 | 11046.0 | 11493.0 | 12617.3 | 15327.8 | 18401.8 | 17251.4 | 15611.6 | 15480.9 | 15396.2 | 15434.8 |
| 60° | 8447.6 | 8598.3 | 9152.3 | 10617.7 | 14295.6 | 19950.6 | 21440.9 | 18032.0 | 17842.7 | 17042.2 | 17077.0 |
| 62.5° | 5978.7 | 5902.8 | 6282.5 | 7354.5 | 11616.3 | 20132.4 | 26208.2 | 21269.1 | 20646.6 | 18780.3 | 18627.1 |
| 65° | 4559.4 | 4541.9 | 4712.5 | 5053.6 | 7035.8 | 17957.3 | 29048.2 | 26710.0 | 25737.6 | 20824.6 | 20463.6 |
| 67.5° | 3746.3 | 3715.2 | 3883.3 | 4380.1 | 4530.7 | 11585.1 | 29110.4 | 33022.3 | 32067.4 | 23369.5 | 22587.6 |
| 70° | 3080.2 | 3045.4 | 3202.3 | 3843.5 | 4187.1 | 5875.4 | 24500.0 | 36718.9 | 36667.8 | 26591.7 | 24191.2 |
| 71° | 2761.5 | 2736.6 | 2924.6 | 3636.8 | 4113.6 | 4896.8 | 21153.3 | 36728.8 | 36882.0 | 27682.3 | 24096.6 |
| 72.5° | 2248.6 | 2257.3 | 2456.5 | 3237.1 | 4058.8 | 4324.0 | 15546.9 | 35016.9 | 35340.6 | 28722.0 | 23236.3 |
| 75° | 1494.1 | 1501.5 | 1763.0 | 2490.1 | 3935.6 | 4230.7 | 8544.7 | 29383.1 | 29978.2 | 28099.4 | 21203.1 |
| 77.5° | 1003.5 | 1001.0 | 1179.1 | 1708.2 | 3428.9 | 4230.7 | 5010.1 | 21976.3 | 22629.9 | 22358.5 | 16346.2 |
| 80° | 691.0 | 686.0 | 811.8 | 1179.1 | 2595.9 | 4281.7 | 3873.3 | 15401.2 | 15599.2 | 12074.5 | 6643.6 |
| 82.5° | 423.3 | 427.1 | 530.4 | 832.9 | 1766.7 | 3853.4 | 3656.7 | 8397.8 | 8182.4 | 3386.5 | 1659.6 |
| 85° | 242.8 | 241.5 | 338.7 | 564.0 | 1134.2 | 3252.1 | 3565.8 | 3614.4 | 3315.6 | 1019.7 | 600.1 |
| 87.5° | 87.2 | 93.4 | 181.8 | 312.5 | 649.9 | 2264.7 | 3025.5 | 1880.0 | 1694.5 | 460.7 | 271.4 |
| 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° | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 | 8260.9 |
| 2.5° | 8250.9 | 8258.4 | 8249.7 | 8199.9 | 8157.5 | 8089.1 | 8050.5 | 7996.9 | 7980.7 | 7973.3 | 7993.2 |
| 5° | 8282.0 | 8284.5 | 8211.1 | 8080.3 | 7933.4 | 7760.4 | 7635.9 | 7482.7 | 7410.5 | 7379.4 | 7399.3 |
| 7.5° | 8310.7 | 8299.5 | 8138.9 | 7888.6 | 7617.2 | 7315.9 | 7048.2 | 6802.9 | 6659.7 | 6601.2 | 6606.2 |
| 10° | 8314.4 | 8267.1 | 8009.4 | 7622.2 | 7201.3 | 6759.4 | 6348.5 | 5970.0 | 5730.9 | 5575.3 | 5622.6 |
| 12.5° | 8275.8 | 8196.1 | 7818.9 | 7277.3 | 6693.4 | 6090.8 | 5535.5 | 4967.7 | 4626.6 | 4468.5 | 4473.4 |
| 15° | 8245.9 | 8101.5 | 7584.8 | 6871.4 | 6087.0 | 5289.0 | 4530.7 | 3863.4 | 3499.8 | 3338.0 | 3262.0 |
| 17.5° | 8221.0 | 7999.4 | 7313.4 | 6414.5 | 5371.1 | 4358.9 | 3447.5 | 2852.4 | 2653.2 | 2605.9 | 2586.0 |
| 20° | 8186.2 | 7891.1 | 7010.9 | 5885.3 | 4555.6 | 3318.0 | 2517.5 | 2223.7 | 2224.9 | 2279.7 | 2287.1 |
| 22.5° | 8137.6 | 7767.8 | 6688.4 | 5291.4 | 3680.4 | 2416.6 | 1973.4 | 1888.7 | 1974.6 | 2079.2 | 2097.9 |
| 25° | 8065.4 | 7622.2 | 6329.8 | 4635.3 | 2806.3 | 1857.6 | 1685.8 | 1682.1 | 1786.6 | 1896.2 | 1912.4 |
| 27.5° | 7963.3 | 7431.7 | 5931.4 | 3930.6 | 2068.0 | 1578.7 | 1510.2 | 1536.4 | 1613.6 | 1693.3 | 1699.5 |
| 30° | 7826.4 | 7210.1 | 5491.9 | 3187.3 | 1621.0 | 1405.7 | 1398.2 | 1421.8 | 1469.2 | 1525.2 | 1530.2 |
| 32.5° | 7675.7 | 6984.7 | 5022.5 | 2467.7 | 1388.2 | 1312.3 | 1319.7 | 1331.0 | 1353.4 | 1375.8 | 1380.8 |
| 35° | 7538.8 | 6754.4 | 4541.9 | 1875.0 | 1277.4 | 1251.3 | 1246.3 | 1243.8 | 1246.3 | 1238.8 | 1240.1 |
| 37.5° | 7450.4 | 6563.9 | 4041.4 | 1492.8 | 1213.9 | 1197.7 | 1182.8 | 1164.1 | 1143.0 | 1130.5 | 1133.0 |
| 40° | 7418.0 | 6421.9 | 3534.7 | 1289.9 | 1161.6 | 1150.4 | 1121.8 | 1081.9 | 1057.0 | 1049.6 | 1049.6 |
| 42.5° | 7505.1 | 6348.5 | 3045.4 | 1187.8 | 1118.1 | 1099.4 | 1052.1 | 1006.0 | 987.3 | 986.1 | 984.8 |
| 45° | 7771.6 | 6378.4 | 2579.7 | 1131.7 | 1078.2 | 1042.1 | 979.9 | 941.3 | 928.8 | 931.3 | 930.0 |
| 47.5° | 8249.7 | 6566.4 | 2181.3 | 1094.4 | 1038.4 | 991.1 | 921.3 | 890.2 | 875.3 | 875.3 | 876.5 |
| 50° | 9062.7 | 7005.9 | 1863.8 | 1063.3 | 1004.8 | 943.7 | 879.0 | 840.4 | 820.5 | 819.2 | 819.2 |
| 52.5° | 10246.7 | 7792.7 | 1665.9 | 1037.1 | 967.4 | 901.4 | 836.7 | 788.1 | 764.5 | 759.5 | 757.0 |
| 55° | 11730.8 | 8920.8 | 1611.1 | 1019.7 | 917.6 | 855.3 | 785.6 | 737.1 | 710.9 | 699.7 | 698.5 |
| 57.5° | 13390.5 | 10292.8 | 1719.4 | 998.5 | 866.6 | 800.6 | 729.6 | 683.5 | 656.1 | 642.4 | 641.2 |
| 60° | 15070.0 | 11790.6 | 2161.4 | 968.6 | 824.2 | 740.8 | 672.3 | 630.0 | 602.6 | 587.7 | 585.2 |
| 62.5° | 16752.1 | 13369.3 | 3064.1 | 966.2 | 794.3 | 683.5 | 613.8 | 577.7 | 551.6 | 535.4 | 531.6 |
| 65° | 18649.5 | 15097.4 | 4090.0 | 1032.1 | 784.4 | 631.2 | 554.0 | 525.4 | 503.0 | 488.1 | 486.8 |
| 67.5° | 20828.4 | 17048.4 | 3991.6 | 1167.9 | 818.0 | 583.9 | 498.0 | 475.6 | 459.4 | 447.0 | 445.7 |
| 70° | 21850.5 | 16743.4 | 2481.4 | 1263.7 | 865.3 | 537.9 | 444.5 | 428.3 | 415.8 | 407.1 | 403.4 |
| 71° | 21422.3 | 15898.0 | 2080.5 | 1252.5 | 860.3 | 517.9 | 423.3 | 410.9 | 398.4 | 390.9 | 387.2 |
| 72.5° | 20254.4 | 14498.6 | 1735.6 | 1165.4 | 804.3 | 481.8 | 395.9 | 383.5 | 372.3 | 363.6 | 361.1 |
| 75° | 18175.2 | 12948.5 | 1389.5 | 931.3 | 641.2 | 407.1 | 347.4 | 333.7 | 325.0 | 320.0 | 315.0 |
| 77.5° | 13360.6 | 9240.7 | 1074.5 | 735.8 | 471.9 | 332.4 | 296.3 | 286.4 | 277.6 | 270.2 | 266.4 |
| 80° | 5118.4 | 3579.5 | 723.4 | 549.1 | 346.1 | 262.7 | 239.0 | 234.1 | 225.4 | 220.4 | 220.4 |
| 82.5° | 1378.3 | 1069.5 | 386.0 | 332.4 | 231.6 | 191.7 | 183.0 | 180.5 | 173.1 | 163.1 | 164.3 |
| 85° | 557.8 | 471.9 | 216.6 | 183.0 | 141.9 | 113.3 | 123.3 | 124.5 | 115.8 | 103.3 | 104.6 |
| 87.5° | 245.3 | 200.5 | 120.8 | 80.9 | 62.3 | 43.6 | 56.0 | 56.0 | 51.0 | 42.3 | 38.6 |
| 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)