

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: P654454

Luminaire Tested: **GLAN-SA6B-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6B-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20433.8 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

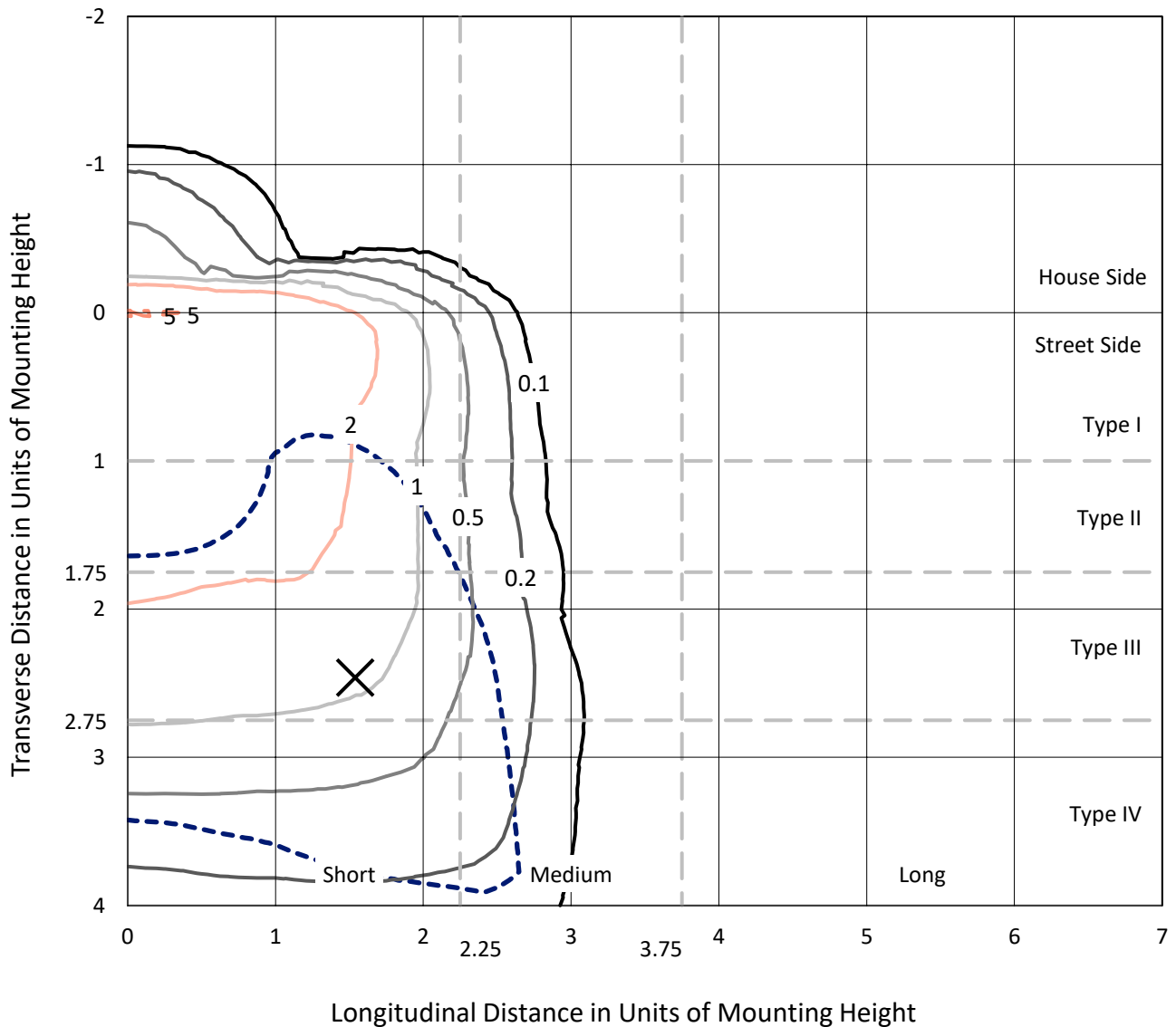
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

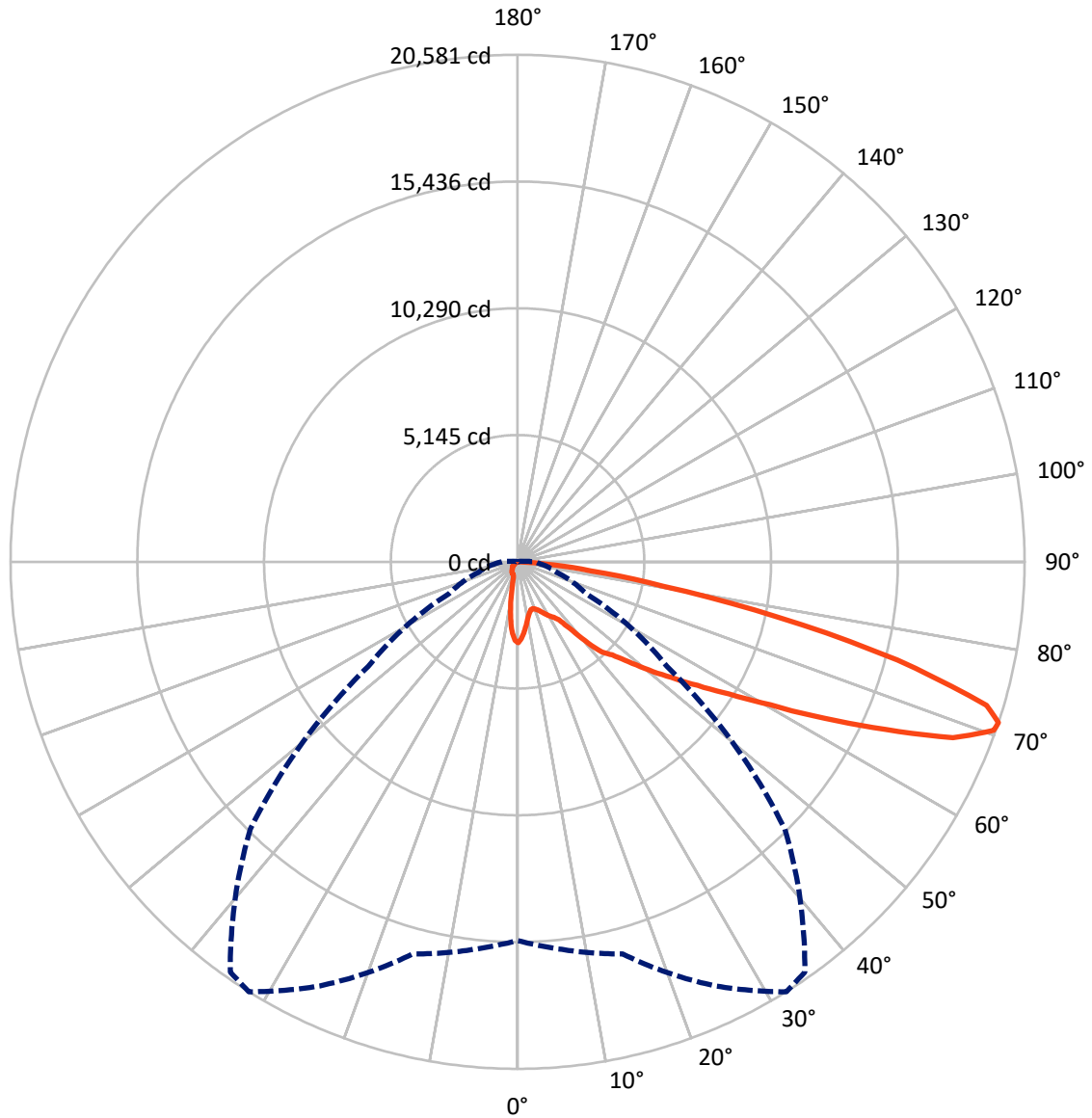
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1711.6 | 0.0 | 1711.6 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 18722.2 | 0.0 | 18722.2 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 20433.8 | 0.0 | 20433.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 267.2 | 1.3 |
| 10°-20° | 579.9 | 2.8 |
| 20°-30° | 902.2 | 4.4 |
| 30°-40° | 1503.0 | 7.4 |
| 40°-50° | 2795.8 | 13.7 |
| 50°-60° | 4488.8 | 22.0 |
| 60°-70° | 6037.7 | 29.5 |
| 70°-80° | 3582.2 | 17.5 |
| 80°-90° | 276.9 | 1.4 |
| 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° | 20433.8 | 100.0 |
| 0°-180° | 20433.8 | 100.0 |

Coefficient of Utilization

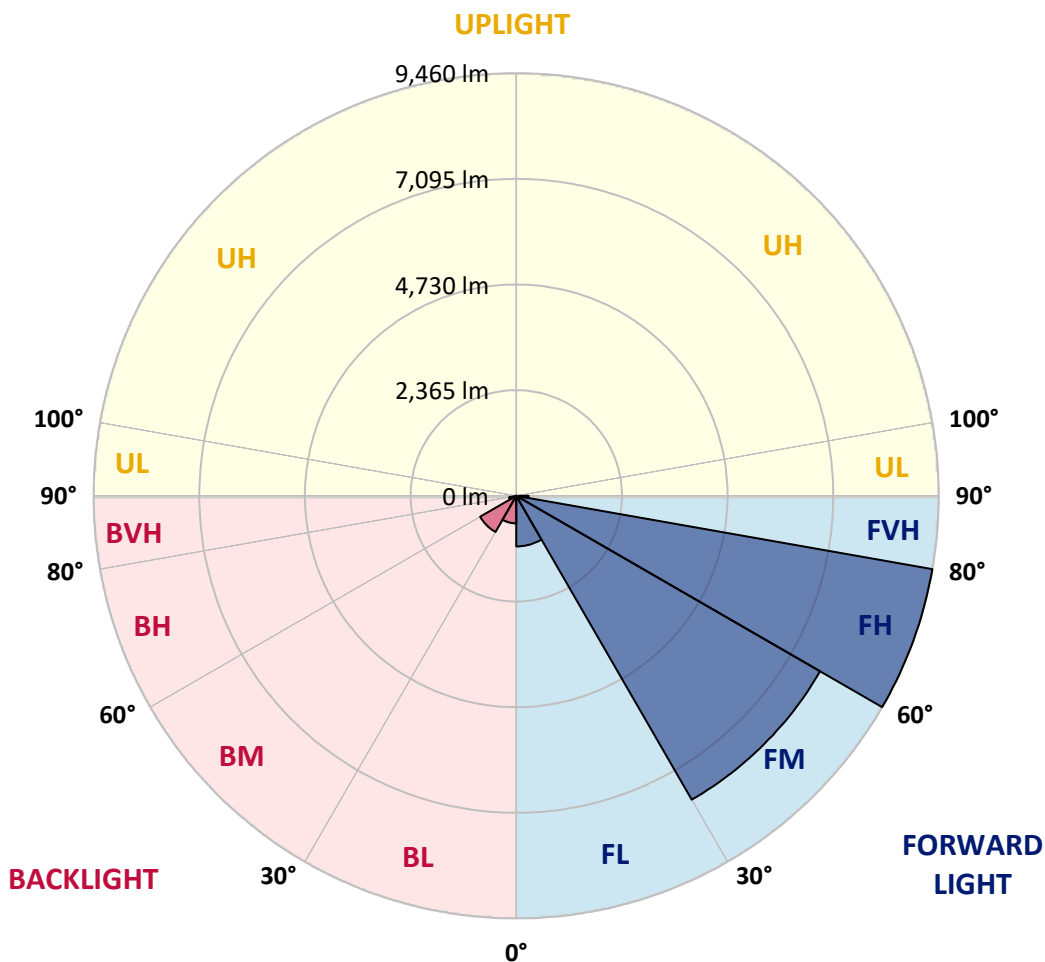


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1132.6 | 5.5 | | | |
| FM (30°-60°) | 7854.0 | 38.4 | | | |
| FH (60°-80°) | 9459.8 | 46.3 | | | G4/12000 |
| FVH (80°-90°) | 275.8 | 1.3 | | | G3/500 |
| BL (0°-30°) | 616.7 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 933.7 | 4.6 | B1/1000 | | |
| BH (60°-80°) | 160.1 | 0.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| 0° | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 |
| 2.5° | 3047.6 | 3079.0 | 3074.4 | 3085.3 | 3112.0 | 3123.0 | 3152.7 | 3185.7 | 3231.2 | 3262.6 | 3282.9 |
| 5° | 2729.2 | 2752.8 | 2755.9 | 2810.8 | 2837.4 | 2867.3 | 2955.1 | 3050.8 | 3157.5 | 3242.1 | 3298.7 |
| 7.5° | 2388.9 | 2401.4 | 2426.5 | 2498.7 | 2566.1 | 2595.9 | 2729.2 | 2895.5 | 3063.3 | 3221.8 | 3323.7 |
| 10° | 2108.1 | 2122.2 | 2167.7 | 2244.5 | 2307.3 | 2346.6 | 2531.6 | 2740.2 | 2975.5 | 3210.8 | 3359.8 |
| 12.5° | 1948.1 | 1956.0 | 1973.2 | 2042.2 | 2122.2 | 2164.6 | 2363.8 | 2602.2 | 2904.9 | 3215.5 | 3420.9 |
| 15° | 1937.2 | 1934.0 | 1913.6 | 1941.9 | 2014.0 | 2057.9 | 2252.5 | 2508.1 | 2842.2 | 3231.2 | 3493.1 |
| 17.5° | 1995.2 | 1987.4 | 1938.7 | 1938.7 | 1998.3 | 2034.4 | 2205.4 | 2457.9 | 2810.8 | 3267.3 | 3595.1 |
| 20° | 2084.6 | 2072.1 | 1992.0 | 1985.8 | 2043.8 | 2081.5 | 2233.6 | 2461.0 | 2817.1 | 3334.7 | 3731.5 |
| 22.5° | 2197.5 | 2183.4 | 2062.6 | 2065.7 | 2128.5 | 2166.2 | 2315.2 | 2517.4 | 2856.3 | 3417.8 | 3877.4 |
| 25° | 2345.0 | 2329.2 | 2186.5 | 2180.3 | 2246.1 | 2279.1 | 2436.0 | 2617.9 | 2911.2 | 3521.4 | 4068.8 |
| 27.5° | 2541.0 | 2508.1 | 2337.1 | 2327.7 | 2398.3 | 2440.7 | 2581.8 | 2752.8 | 3008.4 | 3664.1 | 4326.0 |
| 30° | 2702.6 | 2666.5 | 2503.4 | 2478.3 | 2553.5 | 2586.5 | 2732.4 | 2934.8 | 3199.8 | 3913.5 | 4682.1 |
| 32.5° | 2914.3 | 2861.0 | 2669.7 | 2603.7 | 2683.7 | 2726.1 | 2950.4 | 3273.5 | 3483.7 | 4177.0 | 5105.5 |
| 35° | 3391.2 | 3358.2 | 3124.5 | 2894.0 | 2889.3 | 2942.6 | 3272.0 | 3615.5 | 3775.4 | 4588.0 | 5682.8 |
| 37.5° | 4073.5 | 4049.9 | 3802.1 | 3493.1 | 3403.7 | 3378.6 | 3662.6 | 3991.9 | 4241.3 | 5152.6 | 6354.1 |
| 40° | 4865.6 | 4810.7 | 4583.3 | 4321.3 | 4205.3 | 4131.5 | 4123.7 | 4551.9 | 4849.9 | 5919.6 | 7053.7 |
| 42.5° | 5433.4 | 5333.0 | 5056.9 | 5038.1 | 5013.0 | 4936.2 | 4713.5 | 5370.6 | 5635.7 | 6744.7 | 7801.9 |
| 45° | 6029.5 | 5877.2 | 5466.3 | 5395.8 | 5386.4 | 5381.6 | 5604.3 | 6340.0 | 6492.2 | 7638.7 | 8570.5 |
| 47.5° | 6492.2 | 6371.3 | 6034.2 | 6002.8 | 6042.0 | 6148.6 | 6782.3 | 7368.9 | 7337.6 | 8435.6 | 9215.1 |
| 50° | 7108.6 | 7017.6 | 6642.7 | 6702.3 | 6904.7 | 7078.8 | 8110.9 | 8490.5 | 8032.5 | 9063.0 | 9684.1 |
| 52.5° | 7836.4 | 7668.6 | 7320.3 | 7481.9 | 7792.5 | 8082.6 | 9521.0 | 9472.4 | 8520.3 | 9535.1 | 10033.9 |
| 55° | 8466.9 | 8347.7 | 8228.5 | 8396.4 | 8860.6 | 9223.0 | 10794.7 | 10208.0 | 8874.7 | 9914.7 | 10187.6 |
| 57.5° | 9533.5 | 9505.3 | 9383.0 | 9553.9 | 10117.0 | 10493.5 | 11935.0 | 10778.9 | 9102.1 | 10112.4 | 10007.2 |
| 60° | 11111.5 | 11066.0 | 10838.6 | 11056.5 | 11790.7 | 12382.0 | 12985.9 | 11291.9 | 9153.9 | 10035.5 | 9488.1 |
| 62.5° | 13009.4 | 12854.1 | 12659.6 | 12981.2 | 13988.2 | 14248.6 | 13975.6 | 11596.1 | 8961.0 | 9423.7 | 8236.3 |
| 65° | 14781.8 | 14621.9 | 14626.5 | 15304.2 | 16400.5 | 16577.8 | 15130.0 | 11550.6 | 8396.4 | 7891.3 | 6074.9 |
| 67.5° | 16138.6 | 16112.0 | 16303.3 | 17625.6 | 19059.2 | 18936.9 | 16162.2 | 10869.9 | 6722.7 | 5115.0 | 3228.0 |
| 70° | 16207.6 | 16259.4 | 16808.4 | 19040.4 | 20496.0 | 20301.5 | 16074.3 | 8835.5 | 4191.1 | 2352.8 | 1272.1 |
| 71° | 15373.1 | 15721.4 | 16480.6 | 18996.5 | 20580.7 | 20328.1 | 15334.0 | 7400.3 | 3074.4 | 1640.7 | 917.6 |
| 72.5° | 13100.3 | 13283.8 | 14924.6 | 17878.1 | 19910.9 | 19371.3 | 13456.4 | 5187.1 | 1968.5 | 1003.8 | 527.1 |
| 75° | 7215.3 | 7667.0 | 9994.7 | 14025.8 | 15925.3 | 15451.6 | 8769.6 | 2464.1 | 981.9 | 549.0 | 218.0 |
| 77.5° | 3435.1 | 3347.3 | 4876.5 | 8341.5 | 10797.8 | 10772.7 | 4418.5 | 1094.8 | 572.6 | 371.7 | 109.8 |
| 80° | 981.9 | 1104.2 | 1866.5 | 3965.2 | 5994.9 | 6060.8 | 1697.1 | 528.6 | 396.9 | 290.1 | 56.4 |
| 82.5° | 296.5 | 302.8 | 685.4 | 1753.7 | 2981.8 | 2810.8 | 636.8 | 269.8 | 285.4 | 230.6 | 33.0 |
| 85° | 51.7 | 64.3 | 202.3 | 618.0 | 1137.2 | 862.7 | 160.0 | 128.6 | 188.2 | 152.1 | 18.8 |
| 87.5° | 3.1 | 4.7 | 67.4 | 70.6 | 100.4 | 58.0 | 28.3 | 18.8 | 40.8 | 40.8 | 11.0 |
| 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° | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 | 3286.0 |
| 2.5° | 3297.1 | 3306.5 | 3300.2 | 3286.0 | 3262.6 | 3234.3 | 3196.6 | 3165.3 | 3138.6 | 3124.5 | 3141.8 |
| 5° | 3317.4 | 3330.0 | 3298.7 | 3228.0 | 3121.4 | 3005.3 | 2873.5 | 2771.6 | 2691.6 | 2666.5 | 2657.1 |
| 7.5° | 3348.8 | 3356.7 | 3272.0 | 3115.1 | 2889.3 | 2614.8 | 2374.7 | 2172.4 | 2015.5 | 1968.5 | 1899.5 |
| 10° | 3389.6 | 3384.9 | 3224.9 | 2933.2 | 2536.3 | 2123.8 | 1752.1 | 1476.0 | 1267.4 | 1192.1 | 1185.8 |
| 12.5° | 3452.3 | 3427.2 | 3165.3 | 2685.3 | 2116.0 | 1576.4 | 1116.8 | 873.6 | 741.9 | 698.0 | 688.6 |
| 15° | 3530.8 | 3471.1 | 3071.2 | 2395.2 | 1620.3 | 1017.9 | 688.6 | 614.9 | 597.6 | 594.5 | 591.3 |
| 17.5° | 3623.3 | 3529.2 | 2947.3 | 2039.1 | 1138.7 | 660.4 | 575.7 | 574.1 | 575.7 | 572.6 | 571.0 |
| 20° | 3748.8 | 3590.4 | 2799.9 | 1617.2 | 752.9 | 556.8 | 549.0 | 549.0 | 550.5 | 549.0 | 549.0 |
| 22.5° | 3882.1 | 3662.6 | 2617.9 | 1234.4 | 567.8 | 528.6 | 527.1 | 530.2 | 533.3 | 531.8 | 531.8 |
| 25° | 4046.8 | 3756.7 | 2377.9 | 845.5 | 508.2 | 505.1 | 506.6 | 512.9 | 519.1 | 520.7 | 519.1 |
| 27.5° | 4285.2 | 3872.7 | 2120.7 | 581.9 | 465.8 | 469.0 | 484.7 | 500.4 | 509.8 | 511.3 | 511.3 |
| 30° | 4553.4 | 4001.3 | 1785.0 | 472.1 | 431.3 | 431.3 | 450.2 | 480.0 | 500.4 | 503.5 | 505.1 |
| 32.5° | 4898.5 | 4150.3 | 1413.2 | 425.0 | 398.4 | 395.3 | 412.5 | 448.6 | 486.3 | 497.2 | 497.2 |
| 35° | 5325.1 | 4326.0 | 1050.9 | 395.3 | 374.9 | 367.0 | 376.4 | 406.3 | 454.9 | 486.3 | 489.4 |
| 37.5° | 5825.5 | 4492.3 | 768.6 | 368.6 | 352.9 | 342.0 | 348.2 | 371.7 | 411.0 | 458.0 | 470.5 |
| 40° | 6288.2 | 4639.7 | 574.1 | 346.7 | 330.9 | 323.1 | 327.8 | 338.8 | 371.7 | 415.6 | 423.5 |
| 42.5° | 6793.3 | 4754.2 | 456.4 | 323.1 | 309.0 | 305.9 | 305.9 | 310.6 | 332.5 | 357.6 | 359.2 |
| 45° | 7296.8 | 4795.0 | 382.7 | 294.9 | 285.4 | 288.6 | 287.0 | 283.9 | 293.3 | 290.1 | 290.1 |
| 47.5° | 7656.0 | 4746.4 | 316.8 | 268.2 | 268.2 | 272.9 | 265.1 | 254.1 | 249.4 | 230.6 | 232.1 |
| 50° | 7902.3 | 4569.2 | 260.4 | 236.8 | 249.4 | 255.7 | 240.0 | 222.7 | 205.5 | 185.1 | 180.4 |
| 52.5° | 8004.2 | 4253.9 | 213.4 | 196.0 | 221.2 | 229.0 | 210.2 | 189.8 | 163.2 | 145.9 | 141.2 |
| 55° | 7938.4 | 3864.9 | 177.3 | 160.0 | 186.6 | 196.0 | 177.3 | 153.7 | 123.9 | 105.1 | 101.9 |
| 57.5° | 7648.1 | 3400.6 | 150.5 | 127.1 | 149.0 | 155.2 | 142.7 | 117.7 | 87.8 | 69.0 | 69.0 |
| 60° | 7146.2 | 2920.6 | 122.4 | 100.4 | 111.3 | 120.8 | 108.2 | 84.7 | 59.6 | 42.4 | 39.2 |
| 62.5° | 6128.3 | 2371.6 | 98.8 | 78.5 | 78.5 | 86.3 | 75.3 | 61.1 | 37.7 | 22.0 | 20.4 |
| 65° | 4424.8 | 1626.6 | 78.5 | 58.0 | 56.4 | 56.4 | 47.1 | 40.8 | 22.0 | 9.4 | 6.3 |
| 67.5° | 2404.6 | 917.6 | 62.7 | 43.9 | 39.2 | 37.7 | 29.8 | 23.5 | 9.4 | 1.6 | 0.0 |
| 70° | 945.8 | 352.9 | 48.6 | 29.8 | 25.1 | 23.5 | 15.7 | 11.0 | 6.3 | 0.0 | 0.0 |
| 71° | 641.5 | 243.1 | 42.4 | 25.1 | 20.4 | 17.2 | 12.5 | 9.4 | 4.7 | 0.0 | 0.0 |
| 72.5° | 367.0 | 150.5 | 33.0 | 18.8 | 15.7 | 12.5 | 9.4 | 6.3 | 4.7 | 0.0 | 0.0 |
| 75° | 160.0 | 76.9 | 20.4 | 14.1 | 11.0 | 7.8 | 6.3 | 4.7 | 1.6 | 0.0 | 0.0 |
| 77.5° | 81.6 | 42.4 | 14.1 | 11.0 | 6.3 | 4.7 | 3.1 | 1.6 | 0.0 | 0.0 | 0.0 |
| 80° | 45.5 | 22.0 | 9.4 | 6.3 | 4.7 | 3.1 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 25.1 | 12.5 | 4.7 | 3.1 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 15.7 | 7.8 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.8 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 |
| 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)