

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: P321567

Luminaire Tested: **GAN-SA3C-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15125 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

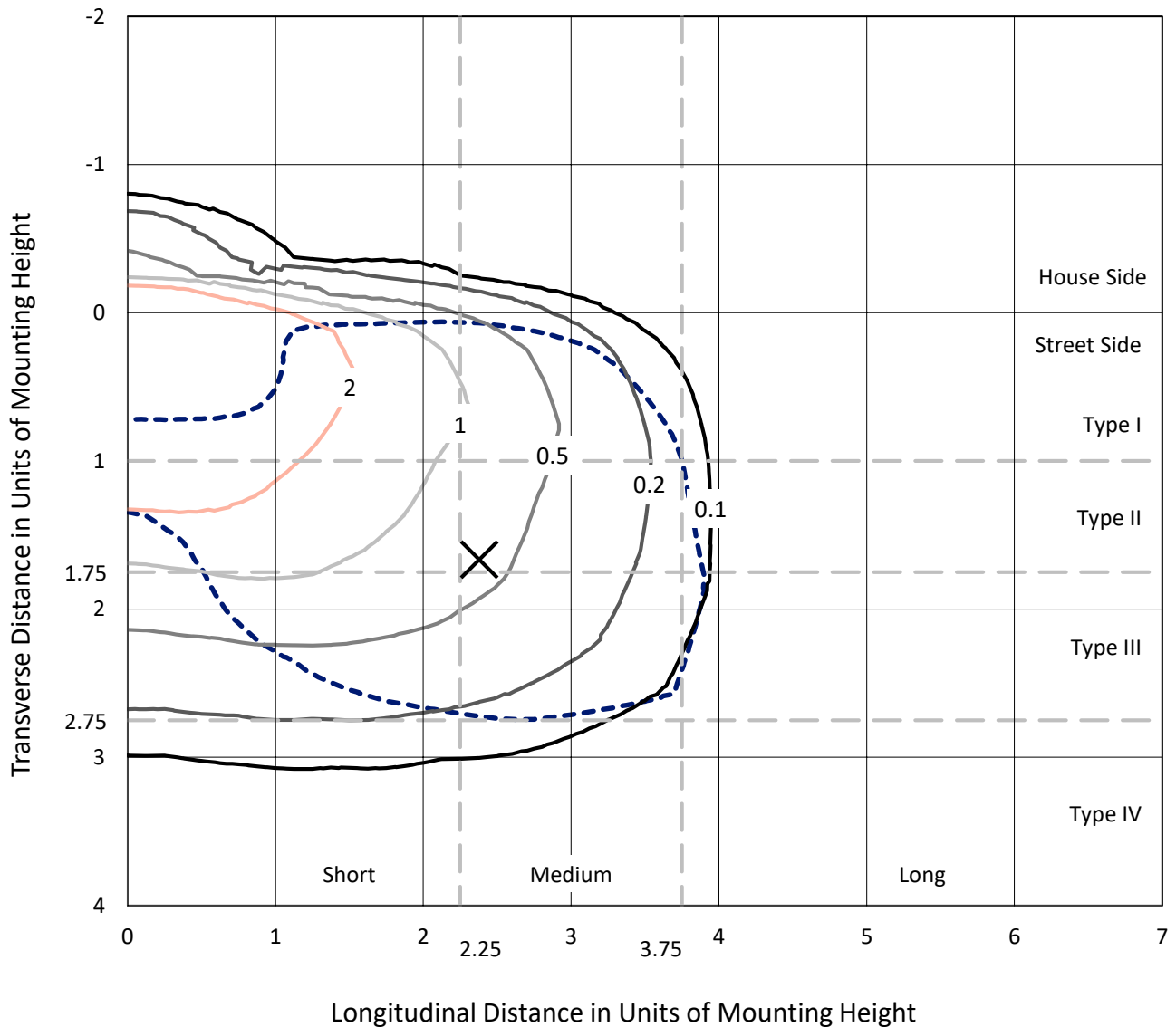
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

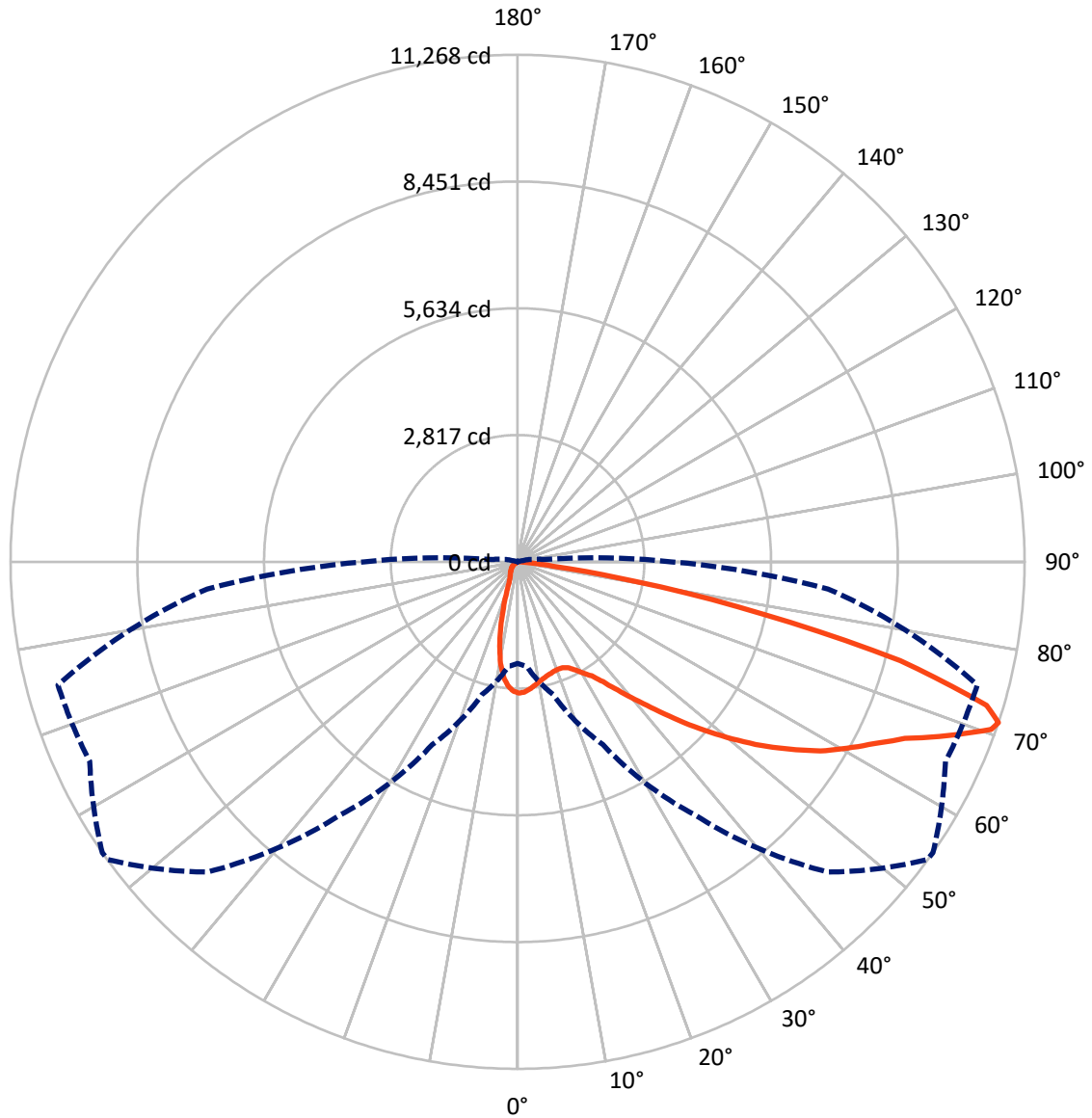
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1197.5 | 0.0 | 1197.5 |
| | % Fixture | 7.9 | 0.0 | 7.9 |
| Street Side | Lumens | 13927.5 | 0.0 | 13927.5 |
| | % Fixture | 92.1 | 0.0 | 92.1 |
| Total | Lumens | 15125.0 | 0.0 | 15125.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 248.7 | 1.6 |
| 10°-20° | 561.5 | 3.7 |
| 20°-30° | 902.3 | 6.0 |
| 30°-40° | 1533.1 | 10.1 |
| 40°-50° | 2379.5 | 15.7 |
| 50°-60° | 3199.2 | 21.2 |
| 60°-70° | 3913.6 | 25.9 |
| 70°-80° | 2288.2 | 15.1 |
| 80°-90° | 98.9 | 0.7 |
| 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° | 15125.0 | 100.0 |
| 0°-180° | 15125.0 | 100.0 |

Coefficient of Utilization

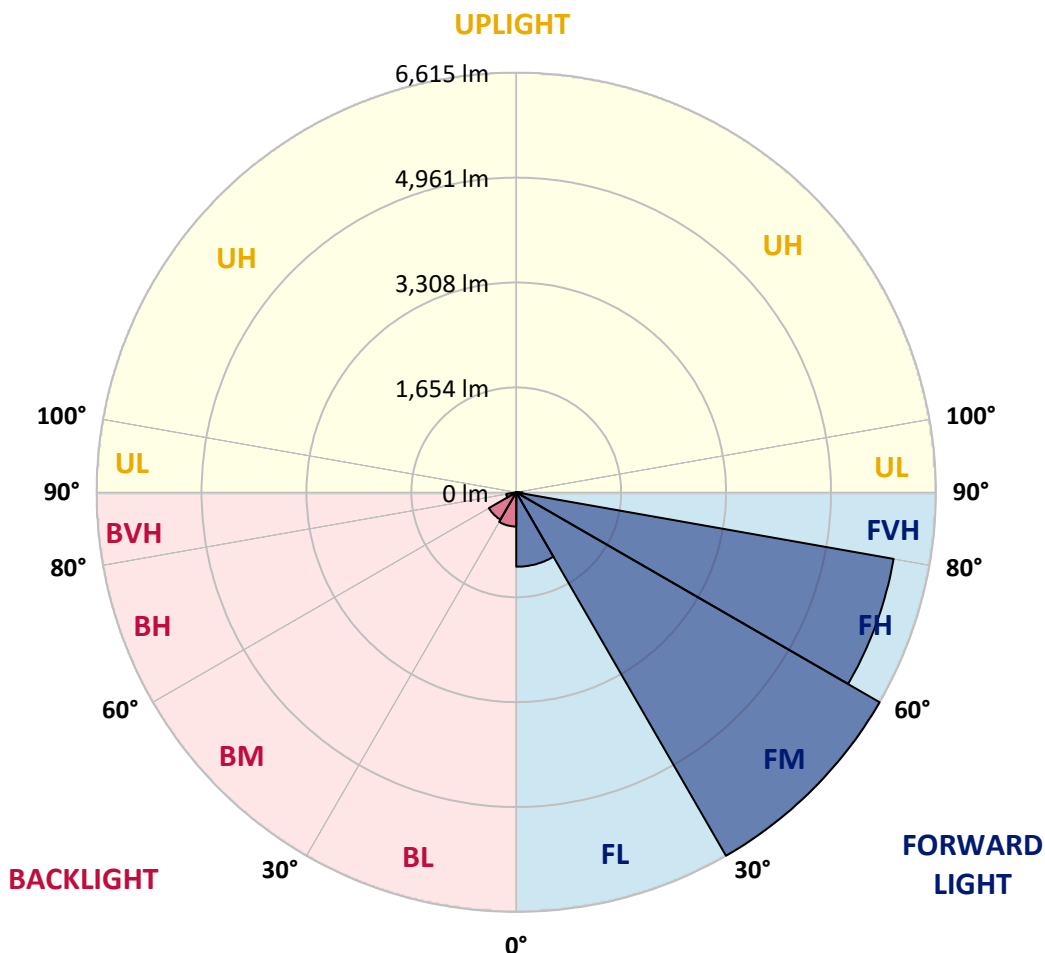


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1173.5 | 7.8 | | | |
| FM (30°-60°) | 6615.2 | 43.7 | | | |
| FH (60°-80°) | 6041.4 | 39.9 | | | G3/7500 |
| FVH (80°-90°) | 97.4 | 0.6 | | | G1/100 |
| BL (0°-30°) | 539.0 | 3.6 | B2/1000 | | |
| BM (30°-60°) | 496.5 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 160.4 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.6 | 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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0° | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 |
| 2.5° | 2831.3 | 2834.7 | 2847.0 | 2852.4 | 2865.3 | 2887.0 | 2897.9 | 2898.6 | 2916.2 | 2923.0 | 2928.5 |
| 5° | 2631.0 | 2651.4 | 2671.7 | 2693.5 | 2732.9 | 2785.2 | 2836.8 | 2841.5 | 2898.6 | 2940.7 | 2963.1 |
| 7.5° | 2458.5 | 2476.8 | 2501.3 | 2535.9 | 2591.6 | 2673.8 | 2760.0 | 2770.2 | 2878.2 | 2974.0 | 3024.2 |
| 10° | 2281.2 | 2296.2 | 2331.5 | 2382.4 | 2459.2 | 2569.2 | 2685.3 | 2702.3 | 2859.9 | 3018.8 | 3107.1 |
| 12.5° | 2091.8 | 2100.6 | 2143.4 | 2216.7 | 2329.5 | 2469.4 | 2622.2 | 2644.6 | 2848.3 | 3070.4 | 3204.9 |
| 15° | 1947.8 | 1951.9 | 1992.6 | 2068.7 | 2197.7 | 2379.7 | 2573.3 | 2600.4 | 2851.0 | 3132.2 | 3311.5 |
| 17.5° | 1911.1 | 1913.1 | 1934.9 | 1987.2 | 2101.3 | 2299.6 | 2534.6 | 2567.8 | 2859.2 | 3192.6 | 3418.8 |
| 20° | 2059.8 | 2045.6 | 2023.2 | 2015.0 | 2063.9 | 2251.4 | 2511.5 | 2548.8 | 2870.0 | 3246.3 | 3515.2 |
| 22.5° | 2468.0 | 2425.9 | 2332.8 | 2208.6 | 2133.2 | 2254.7 | 2517.6 | 2554.9 | 2904.7 | 3312.2 | 3626.6 |
| 25° | 3073.8 | 3015.4 | 2857.1 | 2612.7 | 2377.7 | 2352.5 | 2568.5 | 2606.5 | 2971.9 | 3391.0 | 3733.2 |
| 27.5° | 3763.1 | 3705.4 | 3511.8 | 3162.8 | 2762.1 | 2546.1 | 2685.3 | 2720.6 | 3071.8 | 3460.9 | 3814.7 |
| 30° | 4423.2 | 4406.9 | 4178.8 | 3782.1 | 3245.6 | 2859.9 | 2836.1 | 2866.0 | 3145.8 | 3503.0 | 3879.3 |
| 32.5° | 4982.9 | 4957.1 | 4773.7 | 4387.9 | 3799.1 | 3236.8 | 3013.3 | 3022.2 | 3201.5 | 3557.3 | 3963.5 |
| 35° | 5501.7 | 5469.8 | 5308.8 | 4944.1 | 4366.9 | 3697.2 | 3286.4 | 3273.5 | 3323.0 | 3666.7 | 4085.7 |
| 37.5° | 5954.7 | 5983.9 | 5805.3 | 5458.3 | 4876.2 | 4176.0 | 3654.5 | 3615.7 | 3513.2 | 3844.6 | 4263.0 |
| 40° | 6333.7 | 6333.7 | 6240.6 | 5951.3 | 5426.3 | 4671.1 | 4070.8 | 4019.8 | 3799.1 | 4119.0 | 4487.8 |
| 42.5° | 6470.2 | 6499.4 | 6534.0 | 6370.3 | 5918.7 | 5185.9 | 4534.6 | 4481.7 | 4201.8 | 4508.1 | 4771.6 |
| 45° | 6478.3 | 6524.5 | 6701.8 | 6701.1 | 6363.6 | 5697.3 | 5057.6 | 5032.4 | 4718.0 | 5008.0 | 5123.4 |
| 47.5° | 6363.6 | 6421.3 | 6713.3 | 6879.0 | 6716.0 | 6173.4 | 5629.4 | 5598.2 | 5324.5 | 5620.6 | 5491.5 |
| 50° | 6186.3 | 6250.1 | 6589.7 | 6949.0 | 6955.8 | 6587.7 | 6231.8 | 6184.9 | 5992.1 | 6320.8 | 5871.9 |
| 52.5° | 5869.1 | 5992.7 | 6479.0 | 6965.3 | 7113.3 | 6945.6 | 6805.0 | 6784.6 | 6739.1 | 6995.2 | 6174.7 |
| 55° | 5190.7 | 5327.9 | 6201.2 | 6970.7 | 7259.3 | 7262.7 | 7342.2 | 7347.6 | 7439.3 | 7625.4 | 6400.2 |
| 57.5° | 4870.1 | 4947.5 | 5716.3 | 6996.5 | 7476.0 | 7622.7 | 7889.6 | 7931.7 | 8073.6 | 8223.7 | 6657.6 |
| 60° | 4668.4 | 4760.1 | 5477.3 | 6961.2 | 7816.2 | 8094.7 | 8396.9 | 8411.2 | 8563.3 | 8841.1 | 7006.0 |
| 62.5° | 4507.5 | 4597.8 | 5326.5 | 6825.4 | 8198.6 | 8662.4 | 8892.7 | 8894.0 | 9008.1 | 9576.6 | 7402.0 |
| 65° | 4110.2 | 4186.2 | 5021.6 | 6672.6 | 8451.2 | 9224.1 | 9468.6 | 9459.8 | 9552.8 | 10352.1 | 7861.7 |
| 67.5° | 3535.6 | 3594.0 | 4398.8 | 6093.3 | 8356.2 | 9734.8 | 10337.9 | 10308.7 | 10195.9 | 11022.5 | 8042.4 |
| 70° | 2733.5 | 2754.6 | 3467.0 | 5077.9 | 7465.1 | 9931.1 | 11178.0 | 11163.0 | 10590.5 | 10902.3 | 7380.2 |
| 71° | 2259.5 | 2328.8 | 3055.5 | 4481.7 | 6868.2 | 9749.7 | 11259.5 | 11268.3 | 10491.4 | 10574.9 | 6924.5 |
| 72.5° | 1312.1 | 1371.2 | 2214.7 | 3441.9 | 5831.1 | 8993.2 | 10837.1 | 10900.9 | 10028.2 | 9618.7 | 5914.6 |
| 75° | 281.2 | 300.9 | 821.1 | 1665.9 | 3207.6 | 6303.1 | 8553.8 | 8781.3 | 8173.5 | 6543.5 | 3564.8 |
| 77.5° | 195.6 | 211.2 | 351.8 | 755.9 | 1060.1 | 3114.5 | 5313.6 | 5570.3 | 4883.0 | 2459.2 | 1141.0 |
| 80° | 154.8 | 172.5 | 274.4 | 373.5 | 286.6 | 1004.4 | 2489.1 | 2645.9 | 1628.6 | 548.7 | 192.2 |
| 82.5° | 86.3 | 102.6 | 213.9 | 201.7 | 110.0 | 190.8 | 696.8 | 787.8 | 326.0 | 110.7 | 45.5 |
| 85° | 25.1 | 30.6 | 137.9 | 146.7 | 46.9 | 36.7 | 118.8 | 147.4 | 61.8 | 29.2 | 20.4 |
| 87.5° | 0.0 | 0.0 | 66.6 | 56.4 | 13.6 | 5.4 | 10.9 | 12.2 | 12.2 | 12.2 | 13.6 |
| 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° | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 | 2916.9 |
| 2.5° | 2928.5 | 2933.2 | 2916.2 | 2893.8 | 2870.0 | 2840.8 | 2810.3 | 2786.5 | 2785.8 | 2774.3 | 2762.7 |
| 5° | 2964.5 | 2961.7 | 2914.9 | 2843.6 | 2759.3 | 2671.7 | 2588.2 | 2493.8 | 2462.6 | 2423.9 | 2411.0 |
| 7.5° | 3031.0 | 3012.0 | 2912.8 | 2756.6 | 2571.9 | 2388.5 | 2199.1 | 2008.2 | 1926.7 | 1853.4 | 1840.5 |
| 10° | 3114.5 | 3078.5 | 2899.9 | 2626.2 | 2287.3 | 1949.1 | 1663.2 | 1403.8 | 1289.7 | 1202.1 | 1198.0 |
| 12.5° | 3201.5 | 3146.5 | 2863.9 | 2429.3 | 1914.5 | 1439.1 | 1109.7 | 854.4 | 759.3 | 698.2 | 703.6 |
| 15° | 3292.5 | 3210.3 | 2786.5 | 2163.7 | 1490.0 | 976.6 | 681.9 | 531.8 | 493.7 | 478.1 | 482.2 |
| 17.5° | 3385.5 | 3254.4 | 2678.5 | 1843.9 | 1071.0 | 630.2 | 472.0 | 429.9 | 429.9 | 433.3 | 434.7 |
| 20° | 3466.3 | 3278.2 | 2519.6 | 1485.3 | 726.0 | 459.1 | 412.9 | 406.8 | 410.2 | 415.6 | 416.3 |
| 22.5° | 3546.5 | 3279.6 | 2312.5 | 1121.9 | 508.0 | 402.1 | 393.2 | 390.5 | 392.5 | 398.7 | 399.3 |
| 25° | 3611.7 | 3263.3 | 2053.0 | 798.0 | 405.4 | 379.0 | 374.9 | 373.5 | 374.9 | 382.4 | 382.4 |
| 27.5° | 3638.2 | 3204.2 | 1736.6 | 561.0 | 363.3 | 353.2 | 351.8 | 353.2 | 355.2 | 360.6 | 361.3 |
| 30° | 3640.9 | 3101.0 | 1391.6 | 406.1 | 329.4 | 318.5 | 321.2 | 326.0 | 324.0 | 322.6 | 324.0 |
| 32.5° | 3647.7 | 2981.4 | 1055.4 | 334.1 | 300.9 | 283.9 | 280.5 | 280.5 | 272.3 | 267.6 | 264.9 |
| 35° | 3670.1 | 2840.8 | 765.4 | 300.2 | 271.7 | 252.0 | 239.1 | 224.1 | 208.5 | 200.3 | 198.3 |
| 37.5° | 3705.4 | 2693.5 | 548.1 | 277.8 | 245.8 | 223.4 | 199.0 | 172.5 | 150.1 | 144.0 | 144.0 |
| 40° | 3769.9 | 2541.3 | 405.4 | 260.1 | 225.5 | 197.6 | 161.0 | 126.3 | 105.9 | 102.6 | 102.6 |
| 42.5° | 3871.8 | 2381.1 | 323.3 | 244.5 | 207.8 | 171.1 | 122.9 | 91.7 | 76.7 | 74.7 | 74.0 |
| 45° | 3977.7 | 2204.5 | 282.5 | 229.5 | 188.8 | 140.6 | 91.0 | 67.9 | 59.1 | 57.0 | 57.0 |
| 47.5° | 4083.7 | 2016.4 | 262.8 | 215.3 | 170.5 | 109.3 | 67.9 | 53.7 | 49.6 | 49.6 | 50.3 |
| 50° | 4173.3 | 1820.1 | 248.6 | 199.7 | 146.7 | 82.9 | 53.7 | 45.5 | 44.1 | 46.9 | 47.5 |
| 52.5° | 4195.7 | 1627.2 | 230.9 | 180.0 | 117.5 | 63.2 | 44.1 | 40.1 | 40.1 | 40.1 | 40.1 |
| 55° | 4182.2 | 1477.8 | 207.8 | 155.5 | 86.9 | 50.3 | 38.0 | 35.3 | 34.6 | 34.6 | 34.6 |
| 57.5° | 4228.3 | 1389.5 | 166.4 | 120.9 | 62.5 | 40.7 | 33.3 | 31.2 | 29.9 | 29.2 | 29.2 |
| 60° | 4321.4 | 1331.8 | 118.8 | 86.9 | 46.9 | 34.0 | 28.5 | 26.5 | 24.4 | 23.1 | 23.1 |
| 62.5° | 4445.0 | 1281.5 | 88.3 | 64.5 | 36.0 | 27.2 | 23.8 | 21.7 | 19.0 | 17.7 | 17.7 |
| 65° | 4540.1 | 1191.9 | 67.2 | 48.2 | 27.2 | 21.7 | 18.3 | 17.7 | 13.6 | 12.2 | 11.5 |
| 67.5° | 4394.7 | 994.9 | 54.3 | 35.3 | 20.4 | 17.0 | 14.3 | 13.6 | 8.1 | 6.8 | 6.8 |
| 70° | 3769.2 | 692.7 | 43.5 | 25.8 | 14.9 | 13.6 | 11.5 | 8.8 | 6.1 | 5.4 | 5.4 |
| 71° | 3418.1 | 578.6 | 39.4 | 21.7 | 12.9 | 12.9 | 10.9 | 7.5 | 5.4 | 4.8 | 4.8 |
| 72.5° | 2839.5 | 410.9 | 33.3 | 17.0 | 11.5 | 13.6 | 11.5 | 6.8 | 5.4 | 4.8 | 4.1 |
| 75° | 1648.3 | 171.8 | 23.1 | 11.5 | 8.8 | 16.3 | 14.9 | 6.1 | 4.1 | 3.4 | 3.4 |
| 77.5° | 495.8 | 63.2 | 12.9 | 7.5 | 6.8 | 14.3 | 17.0 | 5.4 | 2.0 | 0.7 | 0.7 |
| 80° | 90.3 | 27.2 | 8.1 | 4.8 | 4.8 | 8.8 | 12.9 | 2.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 31.9 | 13.6 | 4.8 | 2.7 | 2.0 | 4.1 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 18.3 | 9.5 | 2.7 | 1.4 | 0.0 | 0.7 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 12.2 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)