

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: P321877

Luminaire Tested: **GAN-SA3B-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11303 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

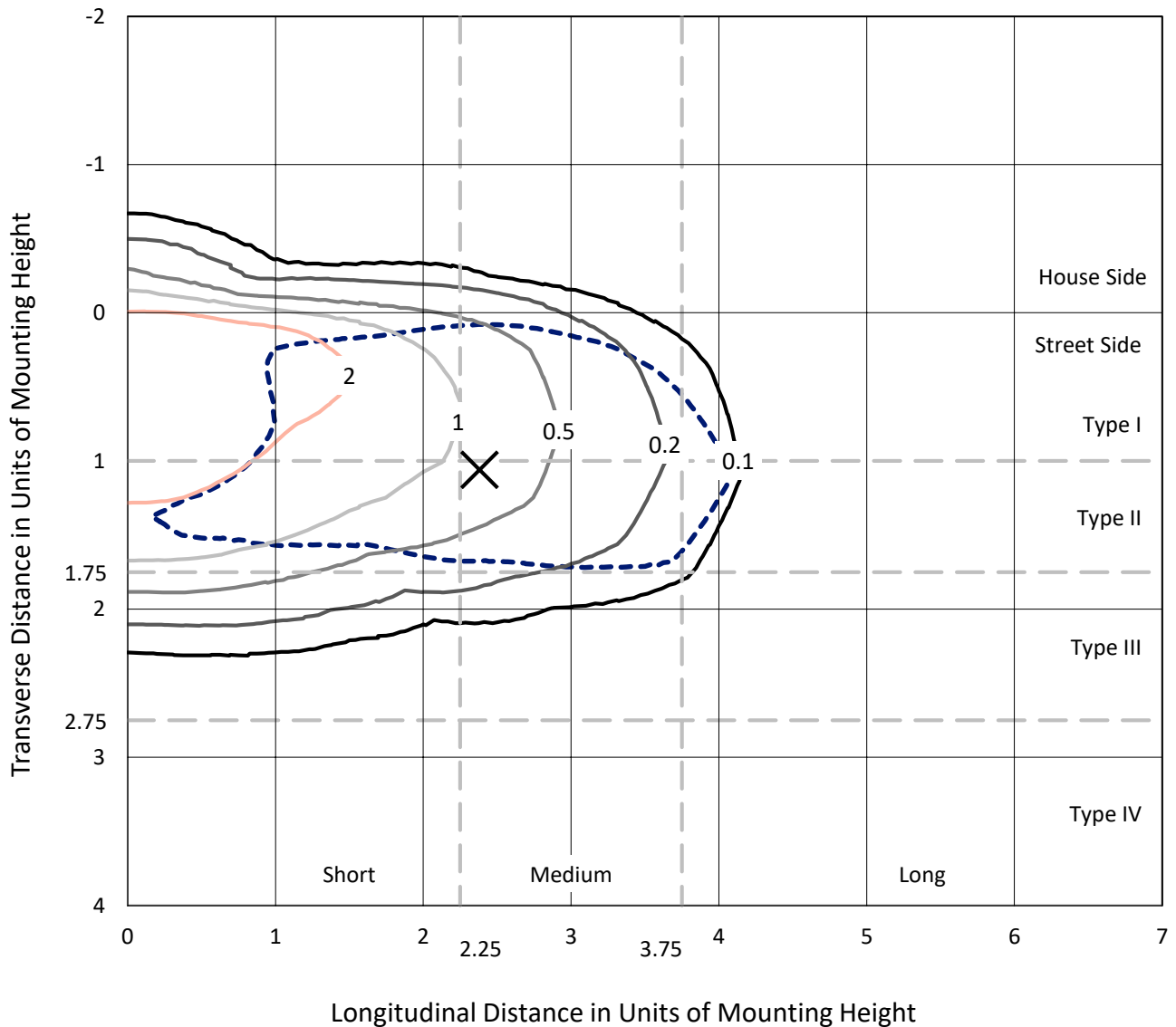
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

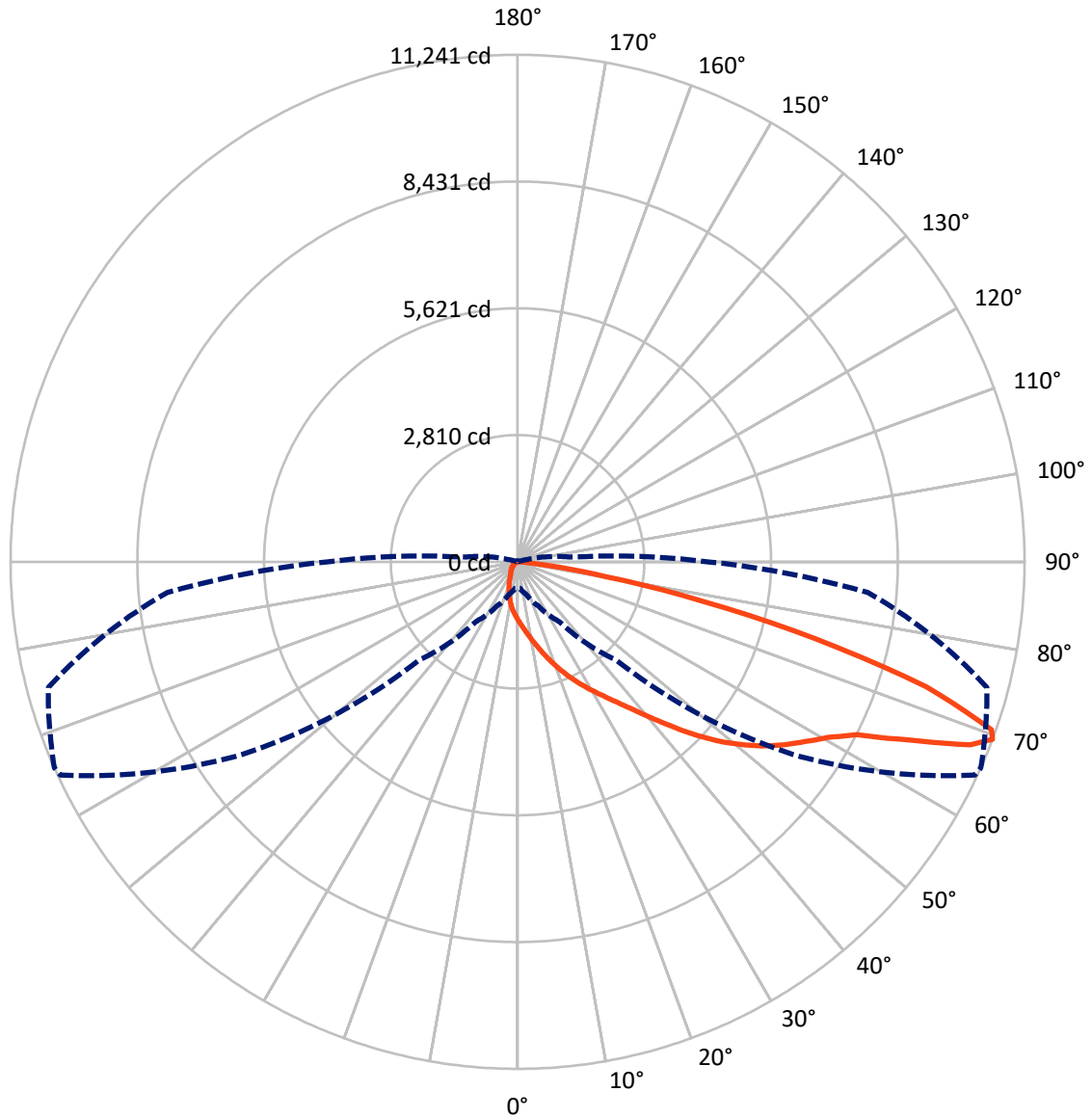
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 678.0 | 0.0 | 678.0 |
| | % Fixture | 6.0 | 0.0 | 6.0 |
| Street Side | Lumens | 10625.0 | 0.0 | 10625.0 |
| | % Fixture | 94.0 | 0.0 | 94.0 |
| Total | Lumens | 11303.0 | 0.0 | 11303.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 124.3 | 1.1 |
| 10°-20° | 370.1 | 3.3 |
| 20°-30° | 644.4 | 5.7 |
| 30°-40° | 1130.6 | 10.0 |
| 40°-50° | 1892.5 | 16.7 |
| 50°-60° | 2781.7 | 24.6 |
| 60°-70° | 2856.1 | 25.3 |
| 70°-80° | 1410.0 | 12.5 |
| 80°-90° | 93.2 | 0.8 |
| 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° | 11303.0 | 100.0 |
| 0°-180° | 11303.0 | 100.0 |

Coefficient of Utilization

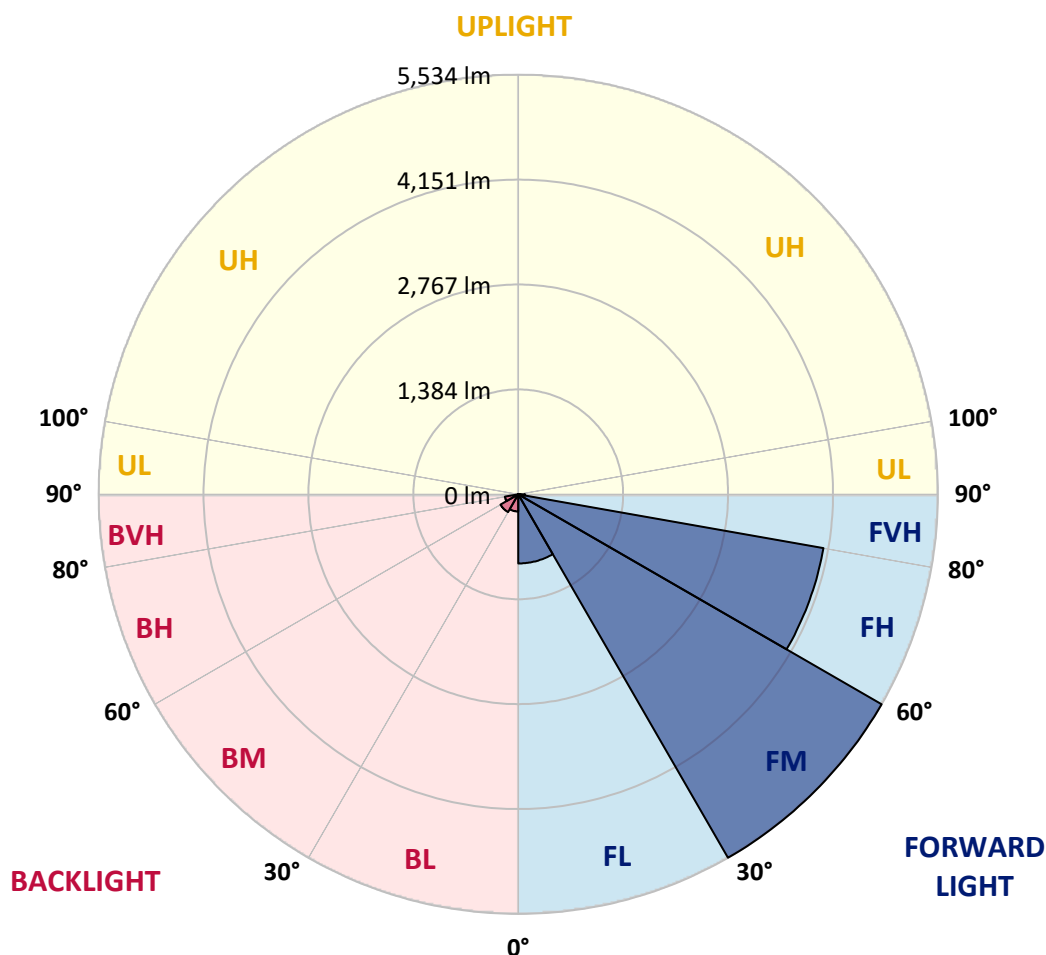


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 912.0 | 8.1 | | | |
| FM (30°-60°) | 5534.5 | 49.0 | | | |
| FH (60°-80°) | 4087.5 | 36.2 | | | G2/5000 |
| FVH (80°-90°) | 91.0 | 0.8 | | | G1/100 |
| BL (0°-30°) | 226.8 | 2.0 | B1/500 | | |
| BM (30°-60°) | 270.3 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 178.7 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 |
| 2.5° | 1513.9 | 1507.5 | 1504.8 | 1493.0 | 1472.6 | 1457.0 | 1427.0 | 1392.1 | 1385.6 | 1351.8 | 1310.5 |
| 5° | 1710.4 | 1705.1 | 1701.3 | 1684.7 | 1663.7 | 1624.5 | 1569.8 | 1504.8 | 1492.5 | 1428.0 | 1345.4 |
| 7.5° | 1847.3 | 1857.0 | 1857.0 | 1846.3 | 1820.0 | 1790.4 | 1723.3 | 1634.7 | 1619.2 | 1520.4 | 1392.1 |
| 10° | 1927.3 | 1939.1 | 1948.3 | 1957.4 | 1953.6 | 1941.8 | 1878.5 | 1778.6 | 1759.8 | 1628.8 | 1446.3 |
| 12.5° | 1934.8 | 1946.7 | 1972.4 | 2010.5 | 2047.6 | 2074.4 | 2034.7 | 1938.1 | 1916.6 | 1754.5 | 1510.7 |
| 15° | 1893.0 | 1905.3 | 1945.0 | 2019.1 | 2108.8 | 2187.2 | 2200.1 | 2114.7 | 2092.7 | 1904.2 | 1591.3 |
| 17.5° | 1820.0 | 1828.0 | 1884.9 | 1987.5 | 2128.1 | 2272.0 | 2349.8 | 2304.2 | 2283.8 | 2075.5 | 1680.9 |
| 20° | 1765.7 | 1771.6 | 1821.6 | 1931.6 | 2116.3 | 2325.1 | 2491.6 | 2505.5 | 2484.1 | 2259.1 | 1778.1 |
| 22.5° | 1858.6 | 1869.3 | 1871.0 | 1923.0 | 2084.1 | 2351.4 | 2616.1 | 2703.6 | 2687.5 | 2454.0 | 1873.6 |
| 25° | 2112.5 | 2124.9 | 2084.1 | 2051.9 | 2111.5 | 2363.3 | 2723.0 | 2906.6 | 2893.7 | 2663.9 | 1969.7 |
| 27.5° | 2448.1 | 2461.0 | 2408.4 | 2312.3 | 2254.8 | 2407.8 | 2818.0 | 3112.7 | 3112.2 | 2886.2 | 2073.4 |
| 30° | 2777.7 | 2790.6 | 2736.9 | 2640.8 | 2508.7 | 2534.0 | 2900.1 | 3328.5 | 3331.8 | 3115.4 | 2183.4 |
| 32.5° | 3123.5 | 3139.6 | 3084.3 | 2960.8 | 2822.8 | 2751.9 | 3015.5 | 3545.4 | 3563.7 | 3381.1 | 2307.4 |
| 35° | 3516.4 | 3518.6 | 3440.7 | 3311.4 | 3152.4 | 3043.5 | 3200.8 | 3788.6 | 3832.1 | 3710.2 | 2464.7 |
| 37.5° | 3901.9 | 3917.5 | 3853.6 | 3649.6 | 3503.6 | 3380.1 | 3476.2 | 4092.5 | 4154.2 | 4112.4 | 2670.3 |
| 40° | 4187.5 | 4220.3 | 4211.1 | 3991.0 | 3852.5 | 3764.5 | 3818.2 | 4453.8 | 4532.2 | 4580.5 | 2929.6 |
| 42.5° | 4366.8 | 4391.5 | 4433.4 | 4300.8 | 4175.2 | 4189.7 | 4221.9 | 4874.7 | 4971.3 | 5114.1 | 3227.6 |
| 45° | 4572.4 | 4584.3 | 4619.1 | 4560.6 | 4475.8 | 4621.8 | 4650.3 | 5348.7 | 5450.2 | 5688.0 | 3558.3 |
| 47.5° | 4823.7 | 4851.6 | 4861.3 | 4807.6 | 4768.9 | 5004.1 | 5063.1 | 5779.8 | 5922.1 | 6302.7 | 3908.3 |
| 50° | 5143.7 | 5151.2 | 5167.8 | 5132.9 | 5094.3 | 5332.6 | 5433.6 | 6232.4 | 6361.8 | 6919.6 | 4253.5 |
| 52.5° | 5456.6 | 5483.5 | 5541.5 | 5519.5 | 5503.9 | 5612.3 | 5763.7 | 6640.4 | 6784.8 | 7433.9 | 4598.2 |
| 55° | 5546.8 | 5569.9 | 5770.2 | 5907.1 | 6033.8 | 5957.0 | 6079.4 | 7006.0 | 7162.3 | 7893.5 | 4930.0 |
| 57.5° | 5186.6 | 5233.3 | 5580.1 | 5936.6 | 6462.2 | 6492.8 | 6513.2 | 7381.3 | 7521.4 | 8245.6 | 5275.2 |
| 60° | 4276.1 | 4285.2 | 4854.3 | 5465.8 | 6391.3 | 6960.4 | 7146.7 | 7784.5 | 7902.0 | 8573.7 | 5688.6 |
| 62.5° | 2719.7 | 2812.6 | 3437.0 | 4300.3 | 5641.9 | 6892.8 | 7912.8 | 8394.4 | 8437.3 | 8967.2 | 6281.3 |
| 65° | 1295.4 | 1355.6 | 1805.5 | 2656.9 | 4086.6 | 6026.8 | 8441.6 | 9497.6 | 9516.9 | 9747.2 | 7073.1 |
| 67.5° | 717.2 | 746.2 | 960.4 | 1430.2 | 2389.0 | 4262.1 | 8227.9 | 10804.3 | 10822.6 | 10543.9 | 7767.8 |
| 69° | 561.0 | 585.7 | 754.3 | 1078.0 | 1619.7 | 3063.3 | 7445.7 | 11187.1 | 11241.3 | 10772.1 | 7792.5 |
| 70° | 476.2 | 500.4 | 649.6 | 910.5 | 1302.4 | 2367.0 | 6627.5 | 11092.1 | 11149.5 | 10750.6 | 7608.4 |
| 72.5° | 291.5 | 305.5 | 432.7 | 641.0 | 872.9 | 1190.8 | 4087.1 | 9380.6 | 9477.7 | 9861.6 | 6539.0 |
| 75° | 196.5 | 204.0 | 270.6 | 442.4 | 624.4 | 613.1 | 2123.3 | 6612.0 | 6822.4 | 7671.2 | 4829.6 |
| 77.5° | 140.7 | 147.6 | 181.5 | 286.1 | 437.5 | 404.8 | 961.5 | 4109.1 | 4154.2 | 4600.9 | 2633.8 |
| 80° | 80.0 | 86.4 | 128.3 | 170.2 | 296.9 | 270.0 | 382.2 | 1962.8 | 1985.3 | 1973.0 | 879.4 |
| 82.5° | 41.9 | 47.2 | 70.3 | 112.2 | 190.6 | 176.6 | 158.9 | 657.1 | 660.3 | 549.2 | 192.7 |
| 85° | 8.1 | 9.7 | 34.9 | 76.8 | 98.2 | 76.8 | 65.0 | 154.1 | 157.3 | 139.0 | 47.8 |
| 87.5° | 0.0 | 0.5 | 14.0 | 17.2 | 19.3 | 19.9 | 20.9 | 30.1 | 32.2 | 43.5 | 12.9 |
| 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° | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 |
| 2.5° | 1292.2 | 1272.9 | 1235.9 | 1192.9 | 1159.6 | 1126.9 | 1101.1 | 1074.3 | 1064.6 | 1059.8 | 1059.2 |
| 5° | 1305.1 | 1264.3 | 1185.9 | 1105.4 | 1039.4 | 977.1 | 932.5 | 890.1 | 870.3 | 861.1 | 857.4 |
| 7.5° | 1326.6 | 1261.1 | 1134.9 | 1012.0 | 917.0 | 839.1 | 777.4 | 731.2 | 708.1 | 698.5 | 694.7 |
| 10° | 1351.8 | 1256.8 | 1075.3 | 913.2 | 791.9 | 711.3 | 650.1 | 604.5 | 579.3 | 568.5 | 563.2 |
| 12.5° | 1381.3 | 1249.3 | 1006.6 | 813.3 | 685.0 | 604.5 | 530.4 | 474.0 | 445.1 | 432.7 | 426.8 |
| 15° | 1417.8 | 1241.8 | 934.7 | 719.4 | 591.1 | 492.8 | 411.8 | 373.7 | 367.7 | 365.6 | 366.1 |
| 17.5° | 1453.8 | 1229.9 | 856.3 | 626.5 | 492.3 | 384.9 | 343.6 | 341.4 | 342.5 | 342.5 | 342.5 |
| 20° | 1486.0 | 1203.1 | 770.9 | 547.1 | 398.4 | 324.8 | 316.2 | 312.5 | 309.8 | 307.6 | 304.9 |
| 22.5° | 1511.3 | 1167.1 | 688.8 | 468.1 | 325.3 | 297.4 | 284.0 | 272.2 | 262.5 | 256.1 | 252.9 |
| 25° | 1528.4 | 1119.4 | 613.6 | 392.4 | 292.6 | 270.6 | 246.4 | 226.6 | 211.5 | 202.4 | 198.6 |
| 27.5° | 1541.3 | 1067.8 | 546.5 | 328.6 | 270.0 | 239.4 | 207.8 | 184.1 | 168.6 | 160.5 | 157.3 |
| 30° | 1550.5 | 1009.3 | 487.5 | 288.8 | 244.8 | 206.7 | 172.9 | 149.8 | 138.5 | 134.2 | 132.1 |
| 32.5° | 1559.0 | 944.3 | 431.6 | 270.0 | 221.2 | 176.6 | 145.0 | 127.2 | 120.3 | 114.9 | 113.3 |
| 35° | 1580.5 | 884.2 | 378.5 | 250.2 | 197.0 | 150.9 | 124.6 | 111.7 | 104.7 | 101.5 | 100.4 |
| 37.5° | 1631.5 | 839.6 | 327.5 | 229.8 | 172.9 | 130.5 | 109.0 | 99.9 | 93.4 | 90.2 | 89.1 |
| 40° | 1713.7 | 817.1 | 284.5 | 207.8 | 149.2 | 114.9 | 98.8 | 90.2 | 83.2 | 78.4 | 77.3 |
| 42.5° | 1834.5 | 820.3 | 254.5 | 185.8 | 130.5 | 102.5 | 89.1 | 78.9 | 71.4 | 67.1 | 66.0 |
| 45° | 1981.0 | 843.9 | 233.5 | 164.3 | 114.9 | 92.9 | 78.4 | 67.6 | 60.7 | 56.9 | 55.8 |
| 47.5° | 2139.9 | 882.1 | 216.4 | 145.0 | 102.5 | 83.8 | 67.6 | 56.4 | 50.5 | 47.2 | 46.7 |
| 50° | 2307.4 | 919.1 | 198.6 | 126.2 | 91.8 | 74.6 | 56.9 | 46.7 | 41.9 | 39.2 | 38.1 |
| 52.5° | 2477.1 | 962.1 | 182.5 | 109.0 | 82.7 | 63.9 | 47.2 | 38.1 | 34.4 | 32.2 | 31.1 |
| 55° | 2659.6 | 994.3 | 167.0 | 95.6 | 73.5 | 54.2 | 39.2 | 31.7 | 28.5 | 25.8 | 25.2 |
| 57.5° | 2874.4 | 1044.2 | 150.9 | 82.7 | 62.8 | 45.1 | 32.2 | 25.2 | 22.5 | 19.9 | 19.3 |
| 60° | 3164.3 | 1102.7 | 133.7 | 73.0 | 51.5 | 37.0 | 26.3 | 20.4 | 17.2 | 15.0 | 14.5 |
| 62.5° | 3546.5 | 1167.7 | 112.2 | 63.9 | 41.9 | 30.1 | 20.9 | 16.1 | 12.3 | 9.7 | 9.7 |
| 65° | 4031.3 | 1273.4 | 91.8 | 53.7 | 34.4 | 24.7 | 16.1 | 11.8 | 7.0 | 4.3 | 4.3 |
| 67.5° | 4314.2 | 1291.7 | 74.1 | 44.0 | 27.9 | 20.9 | 13.4 | 8.1 | 2.1 | 0.5 | 0.0 |
| 69° | 4223.5 | 1185.9 | 62.8 | 37.6 | 24.2 | 19.9 | 12.3 | 5.9 | 1.1 | 0.0 | 0.0 |
| 70° | 4052.8 | 1084.5 | 55.3 | 33.3 | 22.0 | 18.8 | 11.8 | 4.3 | 1.1 | 0.0 | 0.0 |
| 72.5° | 3348.9 | 772.0 | 41.9 | 24.7 | 16.1 | 16.6 | 10.7 | 2.7 | 1.1 | 0.0 | 0.0 |
| 75° | 2439.5 | 469.2 | 30.1 | 17.2 | 10.2 | 12.3 | 7.5 | 1.1 | 0.5 | 0.0 | 0.0 |
| 77.5° | 1357.2 | 221.2 | 18.8 | 9.7 | 6.4 | 7.5 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 440.8 | 60.1 | 8.6 | 5.4 | 3.8 | 4.3 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 81.6 | 17.2 | 4.8 | 2.7 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 17.7 | 7.0 | 2.7 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.9 | 2.1 | 0.5 | 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)