

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: P321226

Luminaire Tested: **GAN-SA2A-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7009 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

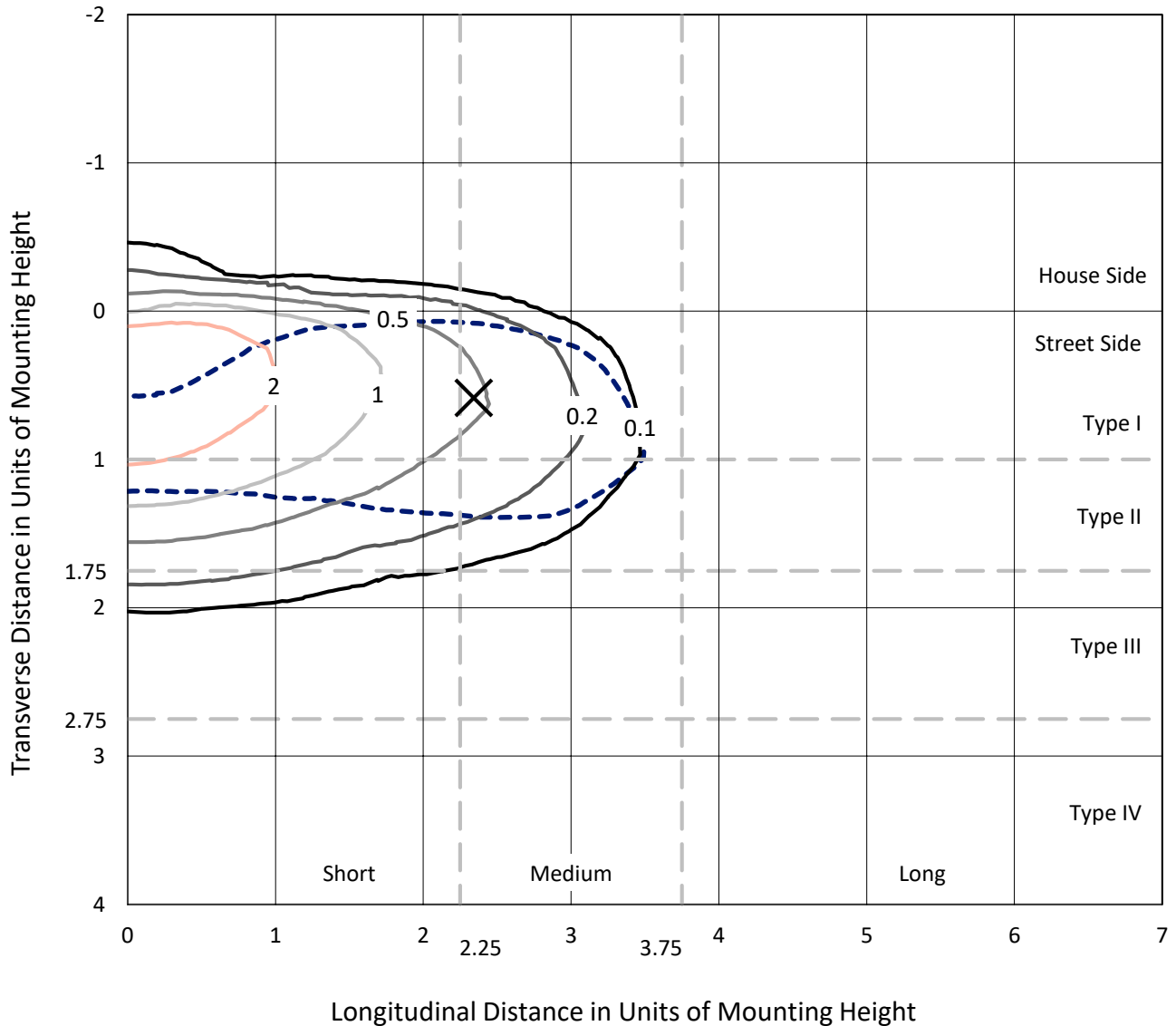
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

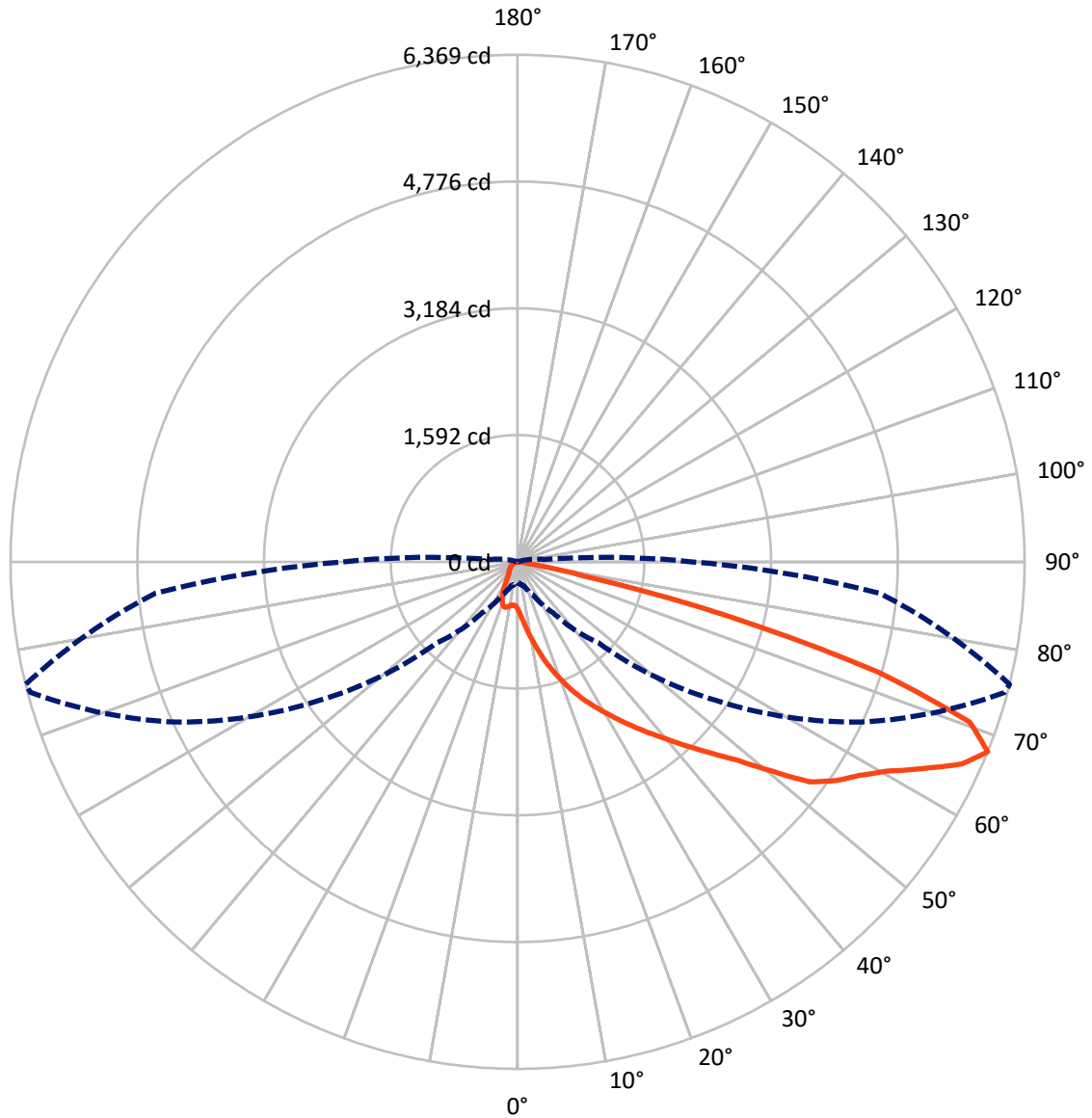
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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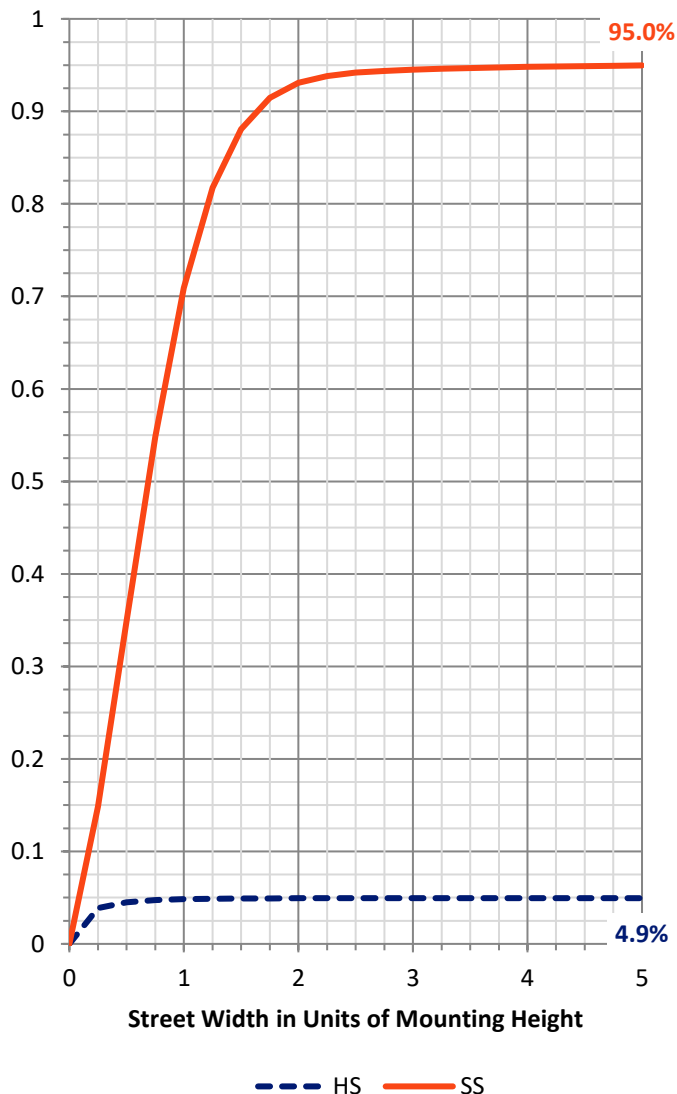
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 348.0 | 0.0 | 348.0 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 6661.0 | 0.0 | 6661.0 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 7009.0 | 0.0 | 7009.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.9 | 1.1 |
| 10°-20° | 293.1 | 4.2 |
| 20°-30° | 596.3 | 8.5 |
| 30°-40° | 1035.0 | 14.8 |
| 40°-50° | 1462.4 | 20.9 |
| 50°-60° | 1658.4 | 23.7 |
| 60°-70° | 1375.5 | 19.6 |
| 70°-80° | 498.2 | 7.1 |
| 80°-90° | 16.2 | 0.2 |
| 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° | 7009.0 | 100.0 |
| 0°-180° | 7009.0 | 100.0 |

Coefficient of Utilization

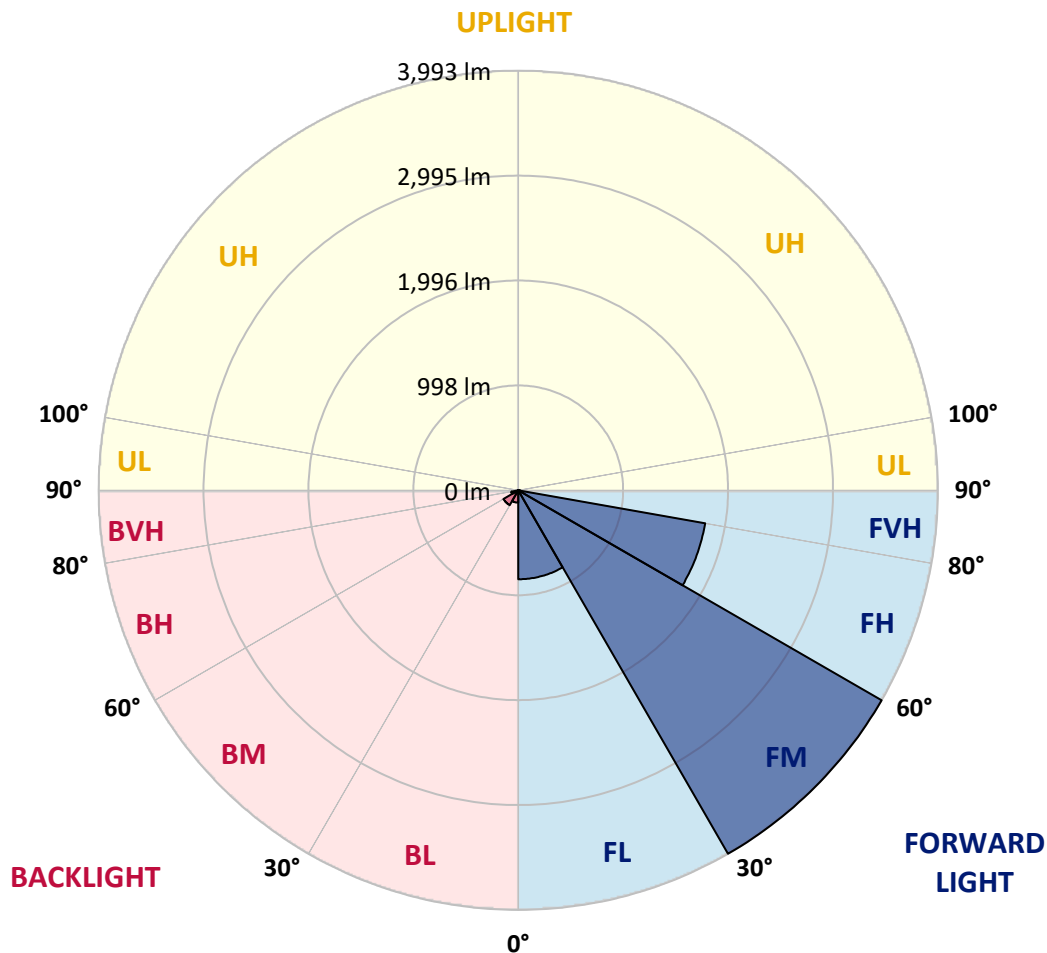


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 846.0 | 12.1 | | | |
| FM (30°-60°) | 3992.9 | 57.0 | | | |
| FH (60°-80°) | 1806.5 | 25.8 | | | G2/5000 |
| FVH (80°-90°) | 15.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 117.4 | 1.7 | B1/500 | | |
| BM (30°-60°) | 162.9 | 2.3 | B0/220 | | |
| BH (60°-80°) | 67.3 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.5 | 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° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 |
| 2.5° | 887.5 | 867.6 | 872.2 | 859.3 | 836.0 | 788.0 | 747.2 | 708.5 | 663.4 | 661.8 | 624.7 |
| 5° | 1196.8 | 1179.9 | 1177.8 | 1151.7 | 1109.3 | 1027.9 | 948.7 | 858.4 | 757.6 | 750.3 | 671.3 |
| 7.5° | 1477.5 | 1464.0 | 1459.1 | 1428.1 | 1349.1 | 1269.9 | 1166.7 | 1034.0 | 876.5 | 863.0 | 734.3 |
| 10° | 1693.1 | 1686.7 | 1687.9 | 1665.8 | 1598.2 | 1524.5 | 1389.1 | 1219.8 | 1011.3 | 990.4 | 809.9 |
| 12.5° | 1856.5 | 1858.0 | 1869.1 | 1855.6 | 1817.8 | 1763.1 | 1618.5 | 1417.9 | 1160.6 | 1132.0 | 896.1 |
| 15° | 1976.6 | 1984.2 | 2004.5 | 2021.4 | 2018.6 | 1971.3 | 1838.7 | 1619.1 | 1319.0 | 1287.4 | 992.3 |
| 17.5° | 2054.3 | 2062.9 | 2092.3 | 2129.8 | 2164.2 | 2153.2 | 2051.2 | 1813.2 | 1479.4 | 1442.8 | 1095.2 |
| 20° | 2122.4 | 2132.6 | 2164.2 | 2213.7 | 2277.8 | 2291.7 | 2224.7 | 2001.4 | 1639.4 | 1594.8 | 1201.4 |
| 22.5° | 2270.2 | 2269.9 | 2289.2 | 2318.1 | 2379.2 | 2414.8 | 2372.4 | 2176.2 | 1797.5 | 1751.1 | 1309.8 |
| 25° | 2537.3 | 2527.2 | 2520.5 | 2497.7 | 2511.2 | 2533.4 | 2509.7 | 2339.6 | 1956.6 | 1909.6 | 1419.8 |
| 27.5° | 2854.9 | 2861.0 | 2806.4 | 2745.3 | 2698.0 | 2675.2 | 2636.5 | 2491.0 | 2109.5 | 2057.9 | 1527.3 |
| 30° | 3190.0 | 3191.8 | 3127.3 | 3049.3 | 2945.2 | 2858.9 | 2791.9 | 2635.6 | 2266.8 | 2210.6 | 1631.7 |
| 32.5° | 3492.2 | 3480.2 | 3416.3 | 3310.0 | 3178.6 | 3081.5 | 2942.4 | 2797.2 | 2433.2 | 2378.9 | 1747.8 |
| 35° | 3731.7 | 3717.6 | 3639.9 | 3543.1 | 3406.8 | 3309.1 | 3141.7 | 2958.4 | 2608.3 | 2555.2 | 1864.2 |
| 37.5° | 3906.8 | 3890.2 | 3810.3 | 3710.8 | 3593.2 | 3536.4 | 3373.0 | 3133.8 | 2799.3 | 2742.2 | 1986.7 |
| 40° | 3967.6 | 3953.1 | 3903.1 | 3830.3 | 3735.7 | 3722.8 | 3618.4 | 3335.5 | 3007.2 | 2946.4 | 2125.5 |
| 42.5° | 3931.3 | 3917.2 | 3899.4 | 3874.8 | 3835.5 | 3847.8 | 3849.9 | 3565.6 | 3238.2 | 3178.3 | 2278.8 |
| 45° | 3787.6 | 3775.0 | 3793.4 | 3829.4 | 3878.2 | 3939.0 | 4061.2 | 3812.8 | 3496.1 | 3432.3 | 2456.0 |
| 47.5° | 3576.0 | 3566.8 | 3617.8 | 3707.4 | 3850.2 | 4017.9 | 4254.4 | 4072.6 | 3785.8 | 3726.5 | 2677.1 |
| 50° | 3275.0 | 3273.5 | 3375.5 | 3539.1 | 3758.7 | 4056.0 | 4454.0 | 4368.0 | 4188.1 | 4125.7 | 2984.5 |
| 52.5° | 2806.4 | 2809.4 | 3010.0 | 3272.0 | 3598.1 | 4030.2 | 4582.4 | 4747.6 | 4656.1 | 4591.3 | 3250.8 |
| 55° | 2360.1 | 2378.6 | 2520.8 | 2898.5 | 3351.8 | 3934.4 | 4626.6 | 4924.8 | 4914.4 | 4853.0 | 3398.8 |
| 57.5° | 1923.1 | 1956.6 | 2093.6 | 2446.4 | 2992.2 | 3713.6 | 4602.4 | 5001.6 | 5106.6 | 5059.6 | 3594.1 |
| 60° | 1449.6 | 1464.9 | 1622.8 | 1952.6 | 2530.6 | 3310.7 | 4426.4 | 5043.4 | 5369.5 | 5337.0 | 3877.6 |
| 62.5° | 922.3 | 960.6 | 1100.7 | 1418.9 | 1970.4 | 2751.1 | 4129.7 | 5042.8 | 5698.4 | 5716.3 | 4243.3 |
| 65° | 485.8 | 530.7 | 605.0 | 879.3 | 1354.1 | 2126.1 | 3683.5 | 4995.5 | 6102.0 | 6126.9 | 4529.3 |
| 67.5° | 262.0 | 274.9 | 314.2 | 456.4 | 785.3 | 1440.3 | 3027.8 | 4762.1 | 6335.7 | 6368.6 | 4569.2 |
| 70° | 191.6 | 198.7 | 213.4 | 252.4 | 395.3 | 836.6 | 2209.4 | 4232.9 | 6034.4 | 6022.1 | 4059.7 |
| 72.5° | 147.1 | 158.2 | 169.2 | 184.9 | 227.3 | 446.5 | 1375.5 | 3314.6 | 4814.9 | 4733.8 | 3034.6 |
| 75° | 116.1 | 117.9 | 133.6 | 147.7 | 170.4 | 254.3 | 610.8 | 1930.5 | 2938.7 | 2746.8 | 1573.6 |
| 77.5° | 92.7 | 94.0 | 103.2 | 115.5 | 137.0 | 167.1 | 189.2 | 759.5 | 938.2 | 837.2 | 341.5 |
| 80° | 55.0 | 58.0 | 76.8 | 89.1 | 113.6 | 105.3 | 69.1 | 164.9 | 146.5 | 132.7 | 57.4 |
| 82.5° | 30.7 | 33.2 | 43.3 | 70.3 | 79.2 | 50.4 | 34.4 | 44.5 | 34.4 | 33.5 | 16.3 |
| 85° | 0.0 | 1.5 | 27.9 | 43.6 | 32.2 | 11.1 | 14.4 | 14.7 | 10.1 | 9.5 | 6.4 |
| 87.5° | 0.0 | 0.0 | 8.6 | 8.3 | 1.2 | 1.8 | 3.4 | 4.9 | 4.0 | 4.0 | 3.4 |
| 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° | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 | 594.6 |
| 2.5° | 606.2 | 589.7 | 558.3 | 527.6 | 501.8 | 480.6 | 461.6 | 453.9 | 447.8 | 446.8 | 441.9 |
| 5° | 633.3 | 599.8 | 539.9 | 490.8 | 457.9 | 434.6 | 414.6 | 402.3 | 392.8 | 389.1 | 385.7 |
| 7.5° | 674.1 | 623.4 | 537.4 | 480.9 | 441.6 | 402.3 | 365.5 | 325.5 | 300.7 | 291.1 | 285.6 |
| 10° | 723.9 | 654.8 | 546.7 | 478.2 | 409.4 | 326.5 | 265.3 | 214.7 | 194.1 | 187.3 | 185.5 |
| 12.5° | 781.9 | 693.8 | 562.6 | 461.0 | 340.6 | 231.9 | 183.0 | 165.8 | 161.2 | 159.1 | 159.1 |
| 15° | 848.5 | 736.5 | 574.0 | 411.2 | 251.8 | 175.4 | 158.5 | 150.5 | 145.6 | 142.8 | 143.1 |
| 17.5° | 916.7 | 778.2 | 568.5 | 339.1 | 185.8 | 156.0 | 143.4 | 134.8 | 128.1 | 125.3 | 124.7 |
| 20° | 985.5 | 816.9 | 537.8 | 252.4 | 157.2 | 141.6 | 127.5 | 117.9 | 111.2 | 108.4 | 107.8 |
| 22.5° | 1056.8 | 849.8 | 483.7 | 185.2 | 141.3 | 125.6 | 111.8 | 102.3 | 95.8 | 93.4 | 92.1 |
| 25° | 1126.2 | 876.5 | 408.2 | 149.9 | 126.2 | 110.6 | 97.4 | 88.4 | 82.6 | 80.2 | 79.8 |
| 27.5° | 1191.0 | 893.4 | 320.6 | 132.4 | 113.0 | 97.0 | 85.1 | 77.1 | 72.2 | 70.3 | 70.0 |
| 30° | 1249.3 | 894.9 | 237.1 | 119.5 | 101.3 | 85.4 | 74.3 | 67.3 | 63.0 | 61.1 | 60.5 |
| 32.5° | 1308.3 | 882.0 | 172.6 | 107.8 | 90.6 | 75.2 | 64.5 | 59.0 | 55.9 | 54.4 | 54.4 |
| 35° | 1363.9 | 852.2 | 134.5 | 97.7 | 80.2 | 65.4 | 56.8 | 52.8 | 51.0 | 49.4 | 49.4 |
| 37.5° | 1418.2 | 809.5 | 114.2 | 88.8 | 70.3 | 57.1 | 50.1 | 47.6 | 46.1 | 44.5 | 44.5 |
| 40° | 1473.5 | 755.8 | 103.8 | 80.5 | 62.3 | 50.7 | 44.5 | 42.4 | 40.8 | 39.6 | 39.3 |
| 42.5° | 1541.4 | 693.8 | 97.0 | 72.8 | 55.3 | 44.8 | 39.3 | 36.9 | 35.6 | 34.4 | 33.8 |
| 45° | 1620.0 | 640.3 | 91.5 | 65.1 | 49.4 | 39.9 | 34.1 | 31.6 | 29.8 | 28.3 | 27.9 |
| 47.5° | 1733.3 | 601.6 | 84.1 | 56.8 | 43.9 | 34.7 | 29.5 | 26.7 | 24.0 | 22.4 | 22.1 |
| 50° | 1878.0 | 569.7 | 74.6 | 49.4 | 38.4 | 29.5 | 24.6 | 21.2 | 18.7 | 17.2 | 17.2 |
| 52.5° | 1949.8 | 527.9 | 66.0 | 43.0 | 32.2 | 24.9 | 20.0 | 16.0 | 14.7 | 13.2 | 13.2 |
| 55° | 1978.7 | 496.0 | 57.4 | 36.5 | 26.7 | 20.6 | 15.7 | 12.3 | 11.4 | 10.4 | 10.1 |
| 57.5° | 2059.8 | 486.8 | 50.1 | 31.0 | 22.1 | 16.3 | 12.0 | 9.2 | 8.6 | 7.4 | 7.4 |
| 60° | 2190.3 | 491.4 | 43.3 | 26.4 | 17.8 | 12.6 | 8.9 | 7.1 | 6.4 | 5.2 | 5.2 |
| 62.5° | 2331.3 | 485.5 | 36.5 | 22.7 | 13.8 | 9.2 | 6.1 | 5.2 | 5.2 | 3.1 | 2.8 |
| 65° | 2358.3 | 432.4 | 31.3 | 18.7 | 10.7 | 6.8 | 4.0 | 3.4 | 4.6 | 0.6 | 0.0 |
| 67.5° | 2188.8 | 335.4 | 27.0 | 14.4 | 8.0 | 5.2 | 3.1 | 1.5 | 4.0 | 0.0 | 0.0 |
| 70° | 1750.2 | 213.1 | 21.8 | 10.4 | 6.1 | 4.3 | 2.5 | 0.6 | 3.1 | 0.0 | 0.0 |
| 72.5° | 1237.7 | 123.8 | 17.2 | 7.4 | 5.2 | 3.4 | 1.8 | 0.0 | 1.8 | 0.0 | 0.0 |
| 75° | 625.9 | 66.0 | 10.7 | 5.5 | 4.0 | 2.5 | 1.2 | 0.0 | 0.3 | 0.0 | 0.0 |
| 77.5° | 135.4 | 30.7 | 6.8 | 4.0 | 2.8 | 1.5 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 29.5 | 13.5 | 4.3 | 2.5 | 1.5 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 10.7 | 7.1 | 2.1 | 1.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.8 | 3.7 | 1.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.1 | 1.2 | 0.3 | 0.3 | 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)