

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: P321896

Luminaire Tested: **GAN-SA2D-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321896
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-SA2D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 10285 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

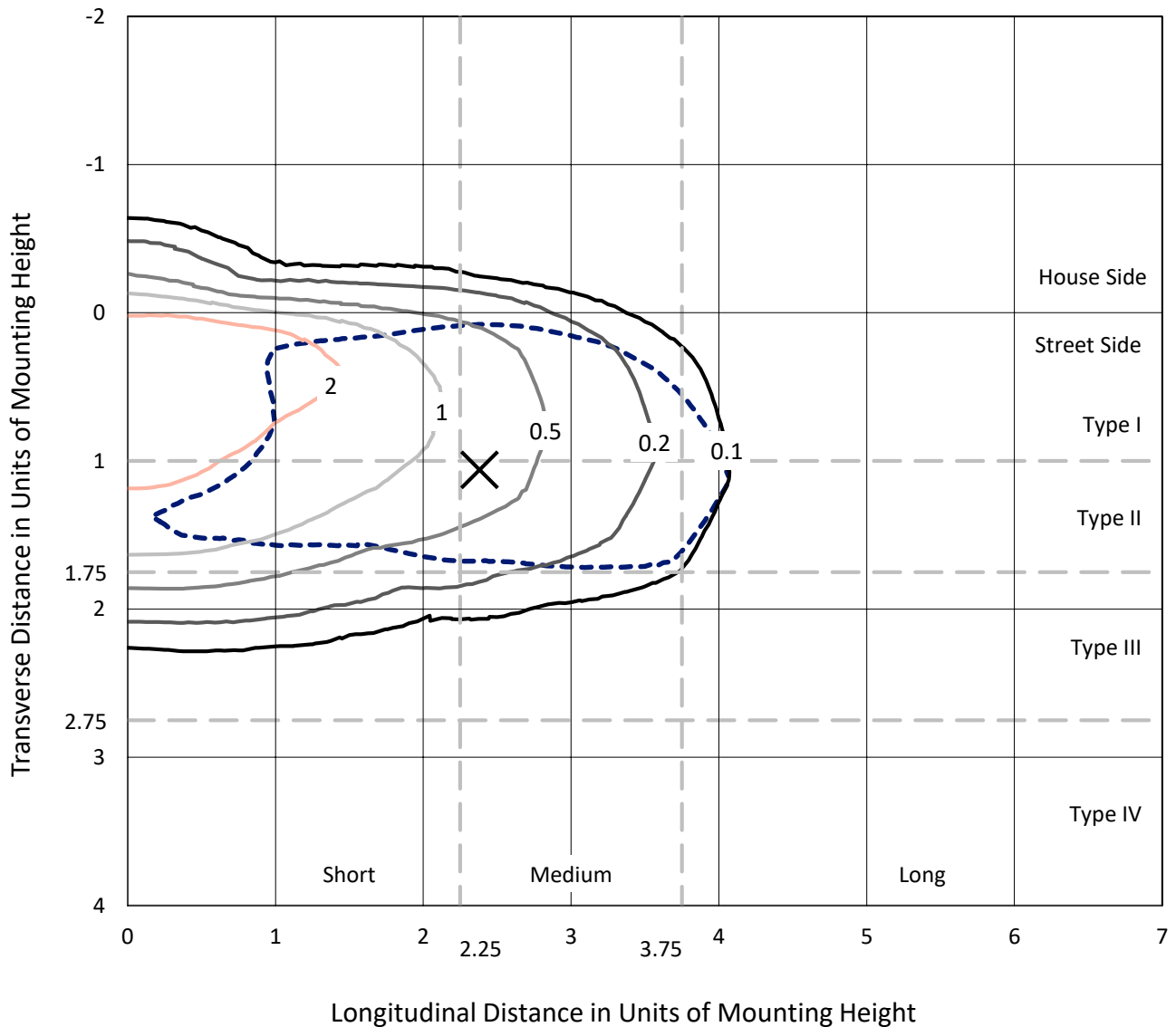
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

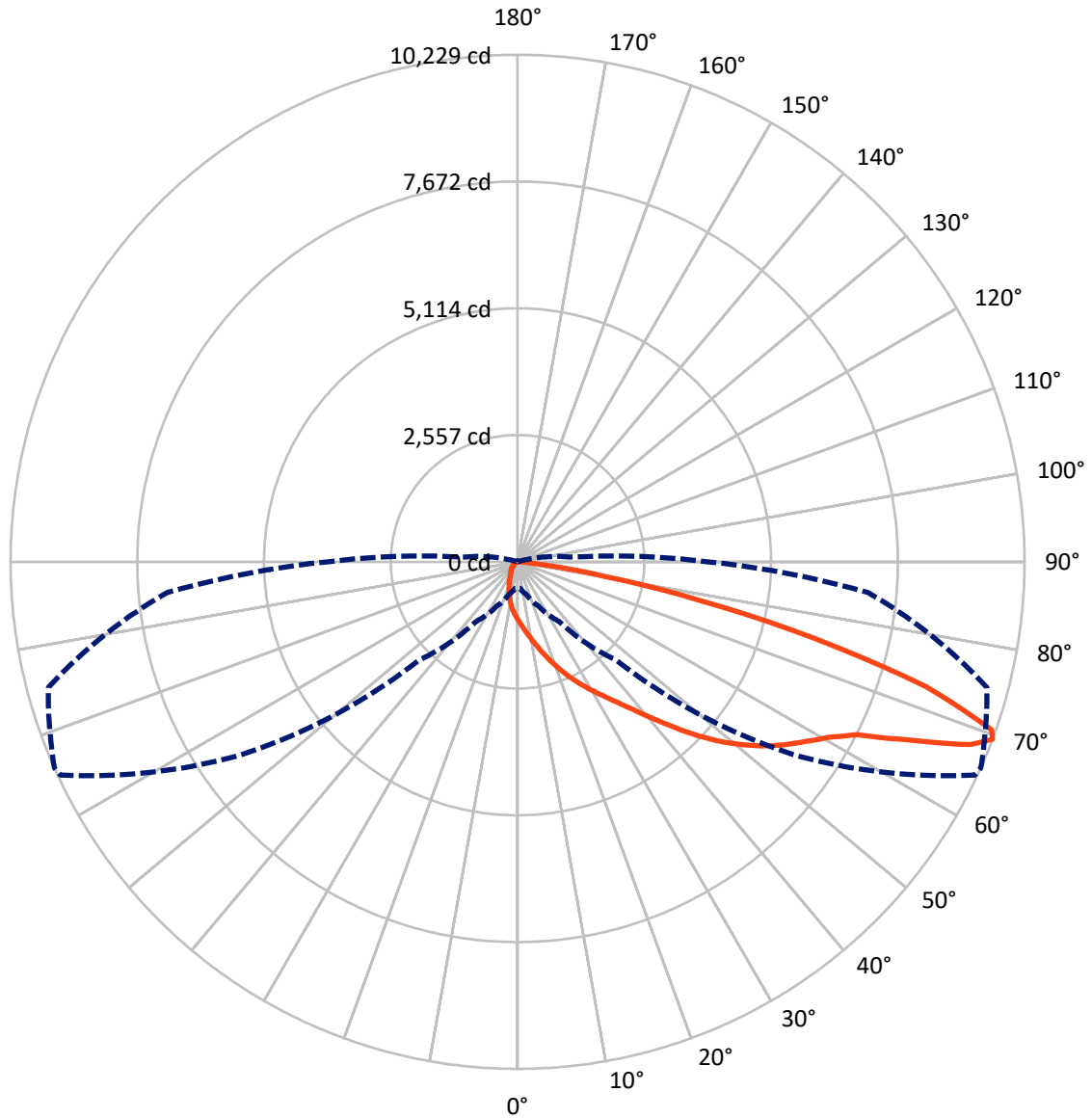
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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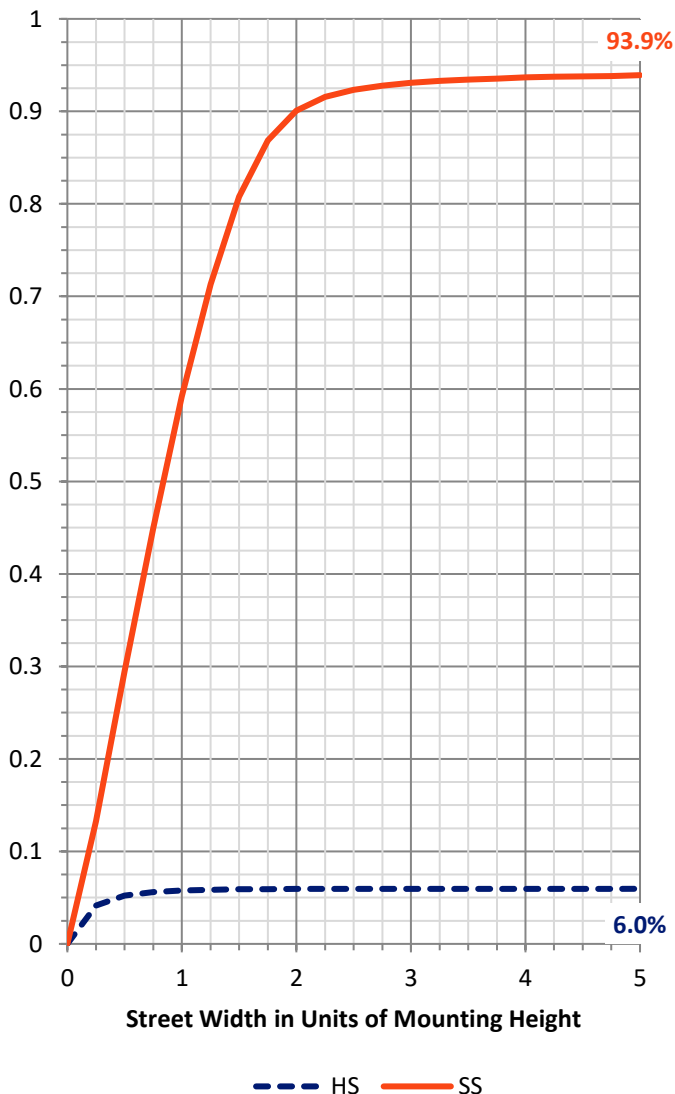
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 617.0 | 0.0 | 617.0 |
| | % Fixture | 6.0 | 0.0 | 6.0 |
| Street Side | Lumens | 9668.0 | 0.0 | 9668.0 |
| | % Fixture | 94.0 | 0.0 | 94.0 |
| Total | Lumens | 10285.0 | 0.0 | 10285.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 113.1 | 1.1 |
| 10°-20° | 336.7 | 3.3 |
| 20°-30° | 586.4 | 5.7 |
| 30°-40° | 1028.8 | 10.0 |
| 40°-50° | 1722.0 | 16.7 |
| 50°-60° | 2531.2 | 24.6 |
| 60°-70° | 2598.9 | 25.3 |
| 70°-80° | 1283.0 | 12.5 |
| 80°-90° | 84.8 | 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° | 10285.0 | 100.0 |
| 0°-180° | 10285.0 | 100.0 |

Coefficient of Utilization

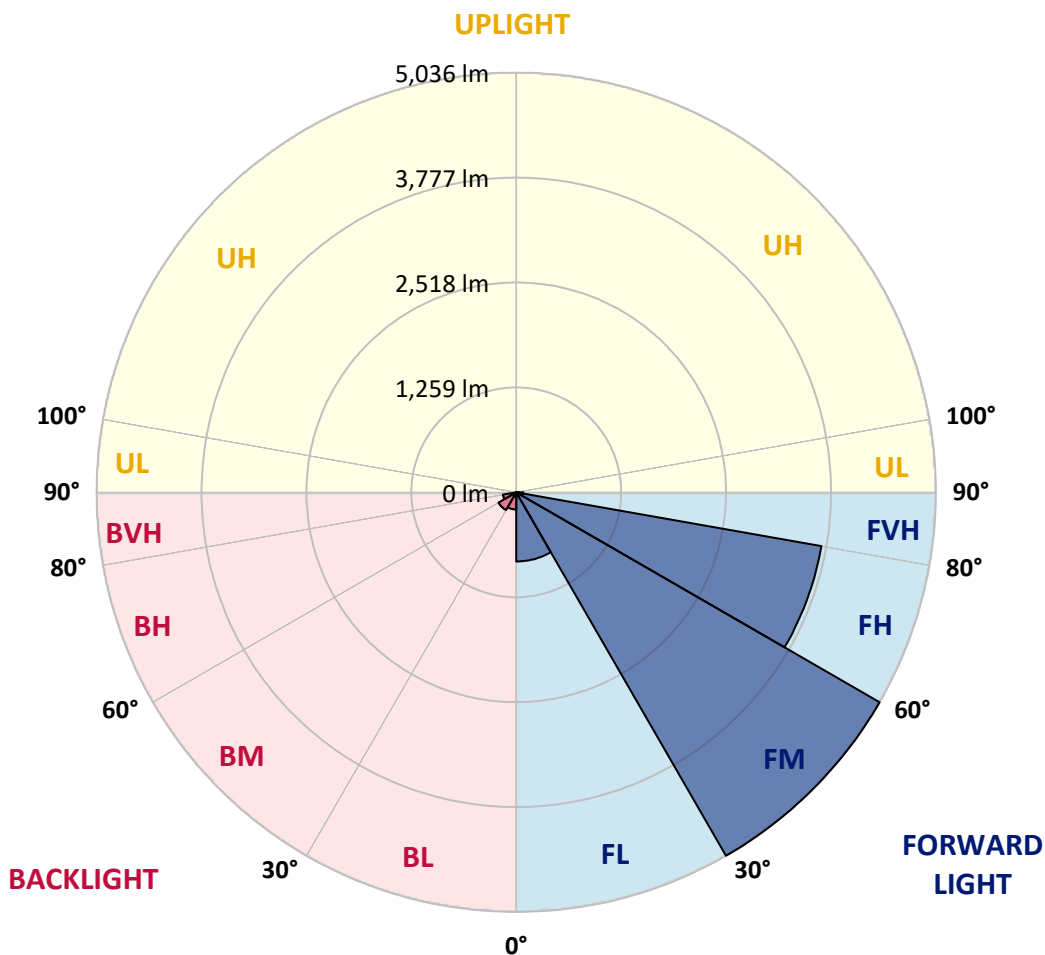


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 829.9 | 8.1 | | | |
| FM (30°-60°) | 5036.0 | 49.0 | | | |
| FH (60°-80°) | 3719.3 | 36.2 | | | G2/5000 |
| FVH (80°-90°) | 82.8 | 0.8 | | | G1/100 |
| BL (0°-30°) | 206.3 | 2.0 | B1/500 | | |
| BM (30°-60°) | 246.0 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 162.6 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: 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° | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 |
| 2.5° | 1377.6 | 1371.7 | 1369.3 | 1358.5 | 1340.0 | 1325.8 | 1298.5 | 1266.7 | 1260.8 | 1230.1 | 1192.4 |
| 5° | 1556.4 | 1551.5 | 1548.1 | 1532.9 | 1513.9 | 1478.2 | 1428.4 | 1369.3 | 1358.1 | 1299.4 | 1224.2 |
| 7.5° | 1681.0 | 1689.8 | 1689.8 | 1680.0 | 1656.0 | 1629.2 | 1568.1 | 1487.5 | 1473.3 | 1383.5 | 1266.7 |
| 10° | 1753.7 | 1764.5 | 1772.8 | 1781.1 | 1777.7 | 1766.9 | 1709.3 | 1618.4 | 1601.3 | 1482.1 | 1316.0 |
| 12.5° | 1760.6 | 1771.3 | 1794.8 | 1829.5 | 1863.2 | 1887.6 | 1851.4 | 1763.5 | 1744.0 | 1596.4 | 1374.7 |
| 15° | 1722.5 | 1733.7 | 1769.9 | 1837.3 | 1918.9 | 1990.2 | 2001.9 | 1924.2 | 1904.2 | 1732.7 | 1447.9 |
| 17.5° | 1656.0 | 1663.4 | 1715.2 | 1808.5 | 1936.4 | 2067.4 | 2138.2 | 2096.7 | 2078.1 | 1888.6 | 1529.5 |
| 20° | 1606.7 | 1612.1 | 1657.5 | 1757.7 | 1925.7 | 2115.7 | 2267.2 | 2279.9 | 2260.3 | 2055.6 | 1617.9 |
| 22.5° | 1691.2 | 1701.0 | 1702.5 | 1749.8 | 1896.4 | 2139.7 | 2380.5 | 2460.1 | 2445.5 | 2233.0 | 1704.9 |
| 25° | 1922.3 | 1933.5 | 1896.4 | 1867.1 | 1921.3 | 2150.4 | 2477.7 | 2644.8 | 2633.1 | 2424.0 | 1792.3 |
| 27.5° | 2227.6 | 2239.3 | 2191.4 | 2104.0 | 2051.7 | 2191.0 | 2564.2 | 2832.4 | 2831.9 | 2626.2 | 1886.6 |
| 30° | 2527.5 | 2539.3 | 2490.4 | 2403.0 | 2282.8 | 2305.8 | 2638.9 | 3028.8 | 3031.7 | 2834.8 | 1986.8 |
| 32.5° | 2842.1 | 2856.8 | 2806.5 | 2694.1 | 2568.6 | 2504.1 | 2744.0 | 3226.1 | 3242.7 | 3076.6 | 2099.6 |
| 35° | 3199.7 | 3201.7 | 3130.9 | 3013.1 | 2868.5 | 2769.4 | 2912.5 | 3447.4 | 3487.0 | 3376.1 | 2242.7 |
| 37.5° | 3550.5 | 3564.6 | 3506.5 | 3320.9 | 3188.0 | 3075.6 | 3163.1 | 3723.9 | 3780.1 | 3742.0 | 2429.8 |
| 40° | 3810.4 | 3840.2 | 3831.9 | 3631.6 | 3505.5 | 3425.4 | 3474.3 | 4052.7 | 4124.0 | 4168.0 | 2665.8 |
| 42.5° | 3973.5 | 3996.0 | 4034.1 | 3913.4 | 3799.1 | 3812.3 | 3841.6 | 4435.7 | 4523.6 | 4653.5 | 2936.9 |
| 45° | 4160.6 | 4171.4 | 4203.1 | 4149.9 | 4072.7 | 4205.6 | 4231.5 | 4867.0 | 4959.3 | 5175.7 | 3237.8 |
| 47.5° | 4389.2 | 4414.7 | 4423.4 | 4374.6 | 4339.4 | 4553.4 | 4607.1 | 5259.3 | 5388.7 | 5735.1 | 3556.3 |
| 50° | 4680.4 | 4687.2 | 4702.4 | 4670.6 | 4635.5 | 4852.4 | 4944.2 | 5671.1 | 5788.8 | 6296.4 | 3870.5 |
| 52.5° | 4965.2 | 4989.6 | 5042.4 | 5022.4 | 5008.2 | 5106.9 | 5244.6 | 6042.4 | 6173.8 | 6764.4 | 4184.1 |
| 55° | 5047.3 | 5068.3 | 5250.5 | 5375.1 | 5490.3 | 5420.5 | 5531.9 | 6375.0 | 6517.2 | 7182.5 | 4486.0 |
| 57.5° | 4719.5 | 4762.0 | 5077.6 | 5401.9 | 5880.2 | 5908.0 | 5926.6 | 6716.5 | 6844.0 | 7503.0 | 4800.1 |
| 60° | 3891.0 | 3899.3 | 4417.1 | 4973.5 | 5815.7 | 6333.5 | 6503.0 | 7083.4 | 7190.4 | 7801.5 | 5176.2 |
| 62.5° | 2474.8 | 2559.3 | 3127.4 | 3913.0 | 5133.7 | 6272.0 | 7200.1 | 7638.3 | 7677.4 | 8159.6 | 5715.5 |
| 65° | 1178.8 | 1233.5 | 1642.9 | 2417.6 | 3718.5 | 5484.0 | 7681.3 | 8642.2 | 8659.8 | 8869.4 | 6436.1 |
| 67.5° | 652.6 | 679.0 | 873.9 | 1301.4 | 2173.9 | 3878.3 | 7486.9 | 9831.2 | 9847.8 | 9594.3 | 7068.2 |
| 69° | 510.5 | 533.0 | 686.4 | 980.9 | 1473.8 | 2787.4 | 6775.1 | 10179.5 | 10228.9 | 9801.9 | 7090.7 |
| 70° | 433.3 | 455.3 | 591.1 | 828.5 | 1185.1 | 2153.8 | 6030.6 | 10093.1 | 10145.3 | 9782.4 | 6923.1 |
| 72.5° | 265.3 | 278.0 | 393.7 | 583.3 | 794.3 | 1083.5 | 3719.0 | 8535.7 | 8624.1 | 8973.4 | 5950.0 |
| 75° | 178.8 | 185.6 | 246.2 | 402.5 | 568.1 | 557.9 | 1932.1 | 6016.5 | 6208.0 | 6980.3 | 4394.6 |
| 77.5° | 128.0 | 134.3 | 165.1 | 260.4 | 398.1 | 368.3 | 874.9 | 3739.0 | 3780.1 | 4186.5 | 2396.6 |
| 80° | 72.8 | 78.6 | 116.8 | 154.9 | 270.1 | 245.7 | 347.8 | 1786.0 | 1806.5 | 1795.3 | 800.2 |
| 82.5° | 38.1 | 43.0 | 64.0 | 102.1 | 173.4 | 160.7 | 144.6 | 597.9 | 600.9 | 499.7 | 175.4 |
| 85° | 7.3 | 8.8 | 31.8 | 69.9 | 89.4 | 69.9 | 59.1 | 140.2 | 143.1 | 126.5 | 43.5 |
| 87.5° | 0.0 | 0.5 | 12.7 | 15.6 | 17.6 | 18.1 | 19.1 | 27.4 | 29.3 | 39.6 | 11.7 |
| 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° | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 | 1170.5 |
| 2.5° | 1175.8 | 1158.3 | 1124.5 | 1085.5 | 1055.2 | 1025.4 | 1001.9 | 977.5 | 968.7 | 964.3 | 963.8 |
| 5° | 1187.6 | 1150.4 | 1079.1 | 1005.8 | 945.8 | 889.1 | 848.5 | 809.9 | 791.9 | 783.6 | 780.1 |
| 7.5° | 1207.1 | 1147.5 | 1032.7 | 920.8 | 834.4 | 763.5 | 707.4 | 665.3 | 644.3 | 635.5 | 632.1 |
| 10° | 1230.1 | 1143.6 | 978.5 | 831.0 | 720.5 | 647.3 | 591.6 | 550.1 | 527.1 | 517.3 | 512.4 |
| 12.5° | 1256.9 | 1136.8 | 916.0 | 740.1 | 623.3 | 550.1 | 482.6 | 431.4 | 405.0 | 393.7 | 388.4 |
| 15° | 1290.2 | 1129.9 | 850.5 | 654.6 | 537.8 | 448.5 | 374.7 | 340.0 | 334.6 | 332.7 | 333.2 |
| 17.5° | 1322.9 | 1119.2 | 779.2 | 570.1 | 448.0 | 350.3 | 312.6 | 310.7 | 311.7 | 311.7 | 311.7 |
| 20° | 1352.2 | 1094.7 | 701.5 | 497.8 | 362.5 | 295.5 | 287.7 | 284.3 | 281.9 | 279.9 | 277.5 |
| 22.5° | 1375.2 | 1062.0 | 626.8 | 426.0 | 296.0 | 270.6 | 258.4 | 247.7 | 238.9 | 233.0 | 230.1 |
| 25° | 1390.8 | 1018.5 | 558.4 | 357.1 | 266.2 | 246.2 | 224.2 | 206.2 | 192.5 | 184.2 | 180.7 |
| 27.5° | 1402.5 | 971.6 | 497.3 | 299.0 | 245.7 | 217.9 | 189.1 | 167.6 | 153.4 | 146.1 | 143.1 |
| 30° | 1410.8 | 918.4 | 443.6 | 262.8 | 222.8 | 188.1 | 157.3 | 136.3 | 126.0 | 122.1 | 120.2 |
| 32.5° | 1418.6 | 859.3 | 392.8 | 245.7 | 201.3 | 160.7 | 131.9 | 115.8 | 109.4 | 104.5 | 103.1 |
| 35° | 1438.2 | 804.6 | 344.4 | 227.6 | 179.3 | 137.3 | 113.3 | 101.6 | 95.3 | 92.3 | 91.4 |
| 37.5° | 1484.6 | 764.0 | 298.0 | 209.1 | 157.3 | 118.7 | 99.2 | 90.9 | 85.0 | 82.1 | 81.1 |
| 40° | 1559.3 | 743.5 | 258.9 | 189.1 | 135.8 | 104.5 | 89.9 | 82.1 | 75.7 | 71.3 | 70.3 |
| 42.5° | 1669.2 | 746.4 | 231.6 | 169.0 | 118.7 | 93.3 | 81.1 | 71.8 | 65.0 | 61.1 | 60.1 |
| 45° | 1802.6 | 767.9 | 212.5 | 149.5 | 104.5 | 84.5 | 71.3 | 61.6 | 55.2 | 51.8 | 50.8 |
| 47.5° | 1947.2 | 802.6 | 196.9 | 131.9 | 93.3 | 76.2 | 61.6 | 51.3 | 45.9 | 43.0 | 42.5 |
| 50° | 2099.6 | 836.3 | 180.7 | 114.8 | 83.5 | 67.9 | 51.8 | 42.5 | 38.1 | 35.7 | 34.7 |
| 52.5° | 2254.0 | 875.4 | 166.1 | 99.2 | 75.2 | 58.1 | 43.0 | 34.7 | 31.3 | 29.3 | 28.3 |
| 55° | 2420.1 | 904.7 | 151.9 | 87.0 | 66.9 | 49.3 | 35.7 | 28.8 | 25.9 | 23.4 | 23.0 |
| 57.5° | 2615.5 | 950.1 | 137.3 | 75.2 | 57.2 | 41.0 | 29.3 | 23.0 | 20.5 | 18.1 | 17.6 |
| 60° | 2879.3 | 1003.4 | 121.6 | 66.4 | 46.9 | 33.7 | 23.9 | 18.6 | 15.6 | 13.7 | 13.2 |
| 62.5° | 3227.1 | 1062.5 | 102.1 | 58.1 | 38.1 | 27.4 | 19.1 | 14.7 | 11.2 | 8.8 | 8.8 |
| 65° | 3668.2 | 1158.7 | 83.5 | 48.9 | 31.3 | 22.5 | 14.7 | 10.7 | 6.4 | 3.9 | 3.9 |
| 67.5° | 3925.7 | 1175.4 | 67.4 | 40.1 | 25.4 | 19.1 | 12.2 | 7.3 | 2.0 | 0.5 | 0.0 |
| 69° | 3843.1 | 1079.1 | 57.2 | 34.2 | 22.0 | 18.1 | 11.2 | 5.4 | 1.0 | 0.0 | 0.0 |
| 70° | 3687.7 | 986.8 | 50.3 | 30.3 | 20.0 | 17.1 | 10.7 | 3.9 | 1.0 | 0.0 | 0.0 |
| 72.5° | 3047.3 | 702.5 | 38.1 | 22.5 | 14.7 | 15.1 | 9.8 | 2.4 | 1.0 | 0.0 | 0.0 |
| 75° | 2219.8 | 427.0 | 27.4 | 15.6 | 9.3 | 11.2 | 6.8 | 1.0 | 0.5 | 0.0 | 0.0 |
| 77.5° | 1234.9 | 201.3 | 17.1 | 8.8 | 5.9 | 6.8 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 401.1 | 54.7 | 7.8 | 4.9 | 3.4 | 3.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 74.3 | 15.6 | 4.4 | 2.4 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 16.1 | 6.4 | 2.4 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.4 | 2.0 | 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)