

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: P192030

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL4-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7624 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

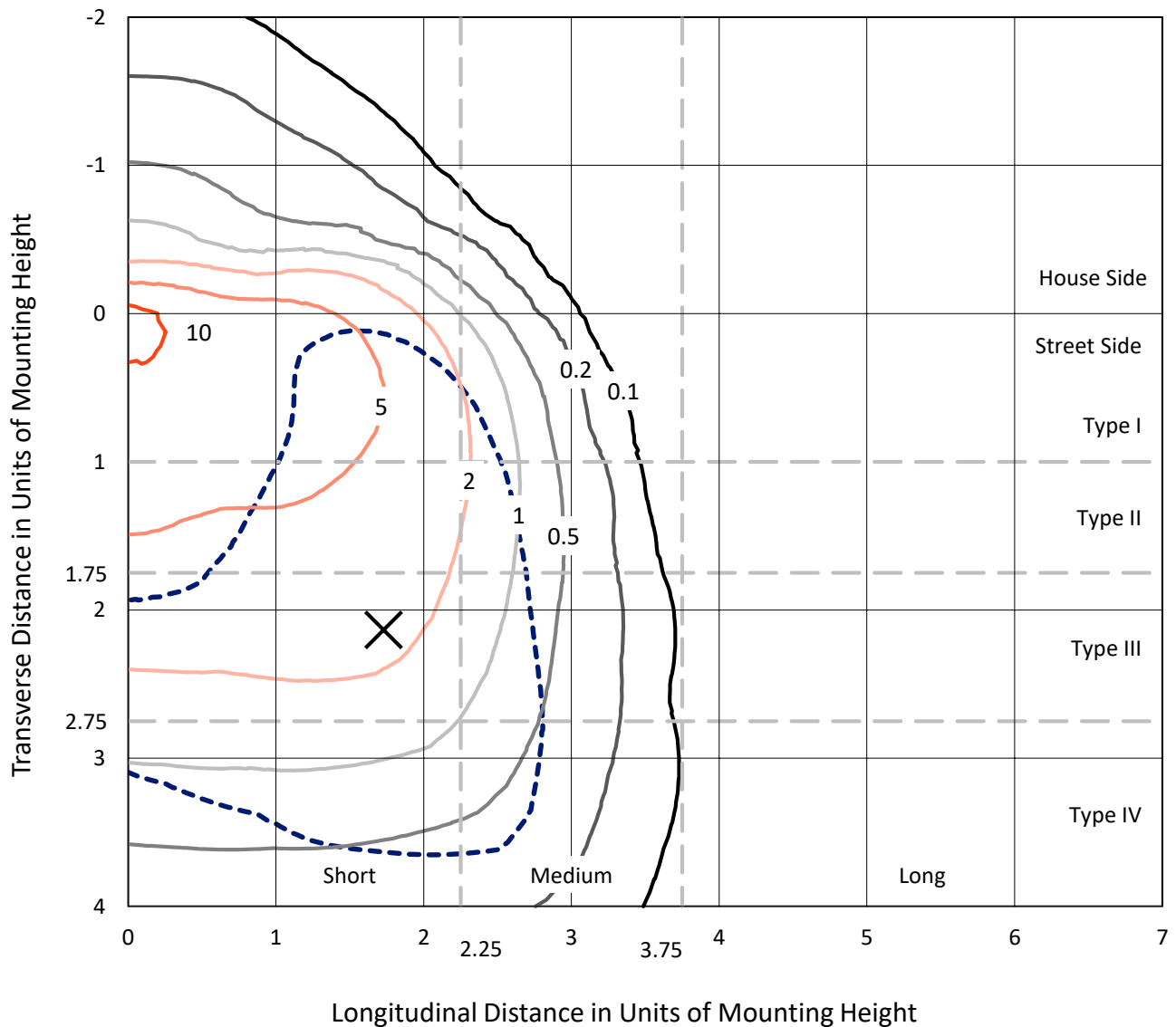
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

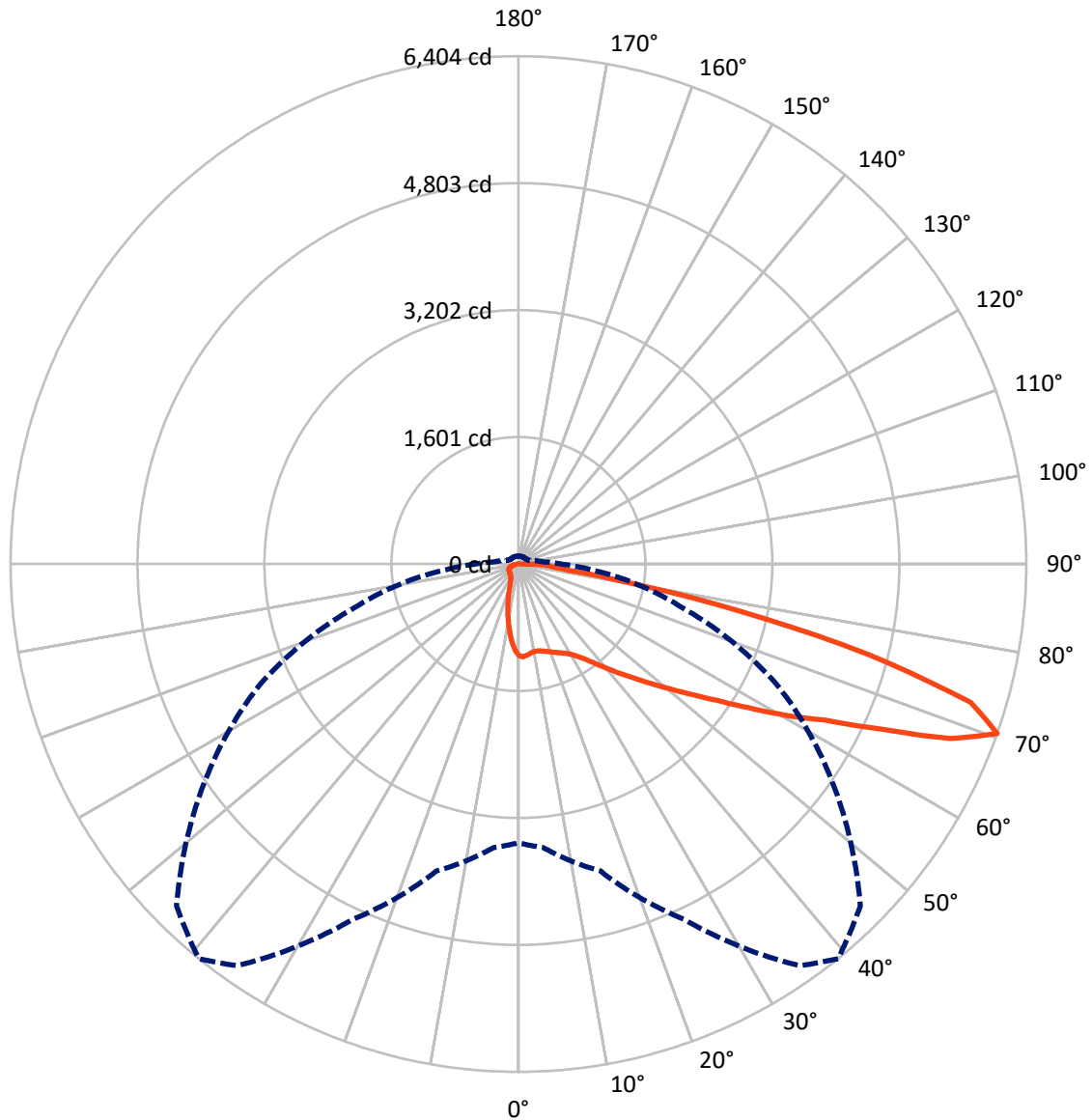
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 867.1 | 0.0 | 867.1 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 6756.9 | 0.0 | 6756.9 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 7624.0 | 0.0 | 7624.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.3 | 1.3 |
| 10°-20° | 248.3 | 3.3 |
| 20°-30° | 386.6 | 5.1 |
| 30°-40° | 602.2 | 7.9 |
| 40°-50° | 1011.1 | 13.3 |
| 50°-60° | 1606.1 | 21.1 |
| 60°-70° | 2142.4 | 28.1 |
| 70°-80° | 1293.8 | 17.0 |
| 80°-90° | 234.2 | 3.1 |
| 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° | 7624.0 | 100.0 |
| 0°-180° | 7624.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P192030

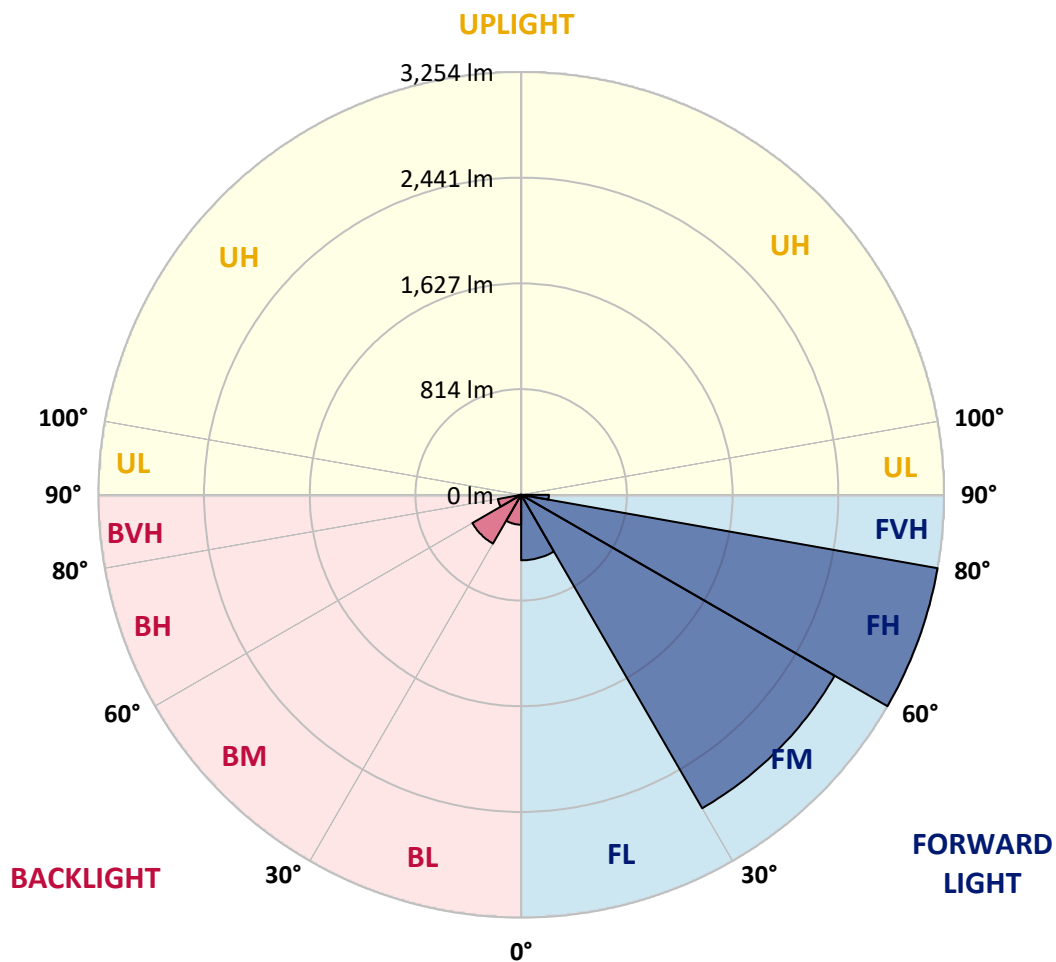
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 504.2 | 6.6 | | | |
| FM | (30°-60°) | 2785.5 | 36.5 | | | |
| FH | (60°-80°) | 3254.1 | 42.7 | | | G2/5000 |
| FVH | (80°-90°) | 213.1 | 2.8 | | | G2/225 |
| BL | (0°-30°) | 230.0 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 433.9 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 182.0 | 2.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 21.1 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P192030

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 |
| 2.5° | 1179.9 | 1179.5 | 1176.4 | 1174.1 | 1172.2 | 1171.4 | 1172.9 | 1167.1 | 1162.1 | 1155.9 | 1149.3 |
| 5° | 1171.0 | 1170.6 | 1165.6 | 1160.9 | 1156.3 | 1154.7 | 1154.3 | 1143.9 | 1137.7 | 1128.4 | 1116.0 |
| 7.5° | 1161.3 | 1159.4 | 1152.8 | 1145.0 | 1136.9 | 1133.0 | 1129.1 | 1115.6 | 1108.6 | 1099.3 | 1085.0 |
| 10° | 1151.2 | 1148.9 | 1142.7 | 1135.0 | 1127.2 | 1121.4 | 1114.8 | 1101.6 | 1094.3 | 1087.3 | 1070.6 |
| 12.5° | 1140.8 | 1138.8 | 1137.3 | 1133.8 | 1128.4 | 1123.3 | 1118.3 | 1107.1 | 1099.3 | 1091.2 | 1071.8 |
| 15° | 1139.2 | 1138.4 | 1141.9 | 1144.3 | 1141.2 | 1138.1 | 1132.6 | 1122.9 | 1114.8 | 1106.7 | 1081.5 |
| 17.5° | 1151.6 | 1151.2 | 1160.2 | 1166.4 | 1164.8 | 1159.4 | 1152.0 | 1141.2 | 1134.6 | 1127.6 | 1096.2 |
| 20° | 1178.8 | 1180.7 | 1191.6 | 1199.7 | 1191.9 | 1184.2 | 1172.2 | 1157.1 | 1153.6 | 1150.5 | 1111.3 |
| 22.5° | 1229.9 | 1231.9 | 1239.6 | 1242.7 | 1222.6 | 1211.3 | 1194.7 | 1175.3 | 1172.9 | 1175.3 | 1129.5 |
| 25° | 1309.8 | 1307.8 | 1306.7 | 1295.0 | 1258.2 | 1240.8 | 1219.5 | 1199.3 | 1200.5 | 1210.9 | 1155.1 |
| 27.5° | 1415.6 | 1405.1 | 1388.9 | 1354.0 | 1295.4 | 1276.1 | 1250.1 | 1231.5 | 1238.8 | 1259.0 | 1193.5 |
| 30° | 1525.3 | 1513.7 | 1476.1 | 1419.1 | 1344.3 | 1323.0 | 1293.9 | 1273.0 | 1292.3 | 1324.1 | 1244.7 |
| 32.5° | 1626.9 | 1625.3 | 1570.3 | 1497.0 | 1411.7 | 1393.1 | 1364.0 | 1340.4 | 1371.8 | 1420.2 | 1321.4 |
| 35° | 1737.7 | 1741.2 | 1675.3 | 1587.3 | 1502.8 | 1483.4 | 1462.5 | 1444.7 | 1486.5 | 1553.2 | 1432.7 |
| 37.5° | 1856.3 | 1863.3 | 1785.4 | 1686.2 | 1606.7 | 1598.6 | 1586.2 | 1578.4 | 1643.1 | 1735.4 | 1588.1 |
| 40° | 2014.9 | 2007.9 | 1899.7 | 1797.8 | 1734.2 | 1733.8 | 1730.0 | 1739.3 | 1847.0 | 1973.4 | 1787.7 |
| 42.5° | 2184.6 | 2164.1 | 2021.1 | 1917.6 | 1874.2 | 1887.3 | 1895.1 | 1933.1 | 2092.4 | 2262.6 | 2031.1 |
| 45° | 2367.6 | 2321.5 | 2147.0 | 2044.3 | 2029.6 | 2057.5 | 2083.9 | 2166.4 | 2381.2 | 2591.6 | 2297.8 |
| 47.5° | 2513.7 | 2469.2 | 2277.3 | 2177.3 | 2209.4 | 2251.7 | 2302.5 | 2433.1 | 2704.4 | 2931.6 | 2561.0 |
| 50° | 2628.9 | 2599.8 | 2408.7 | 2332.3 | 2407.5 | 2472.6 | 2555.6 | 2735.1 | 3040.9 | 3262.6 | 2804.8 |
| 52.5° | 2740.5 | 2718.8 | 2541.3 | 2491.3 | 2640.1 | 2730.0 | 2842.8 | 3059.1 | 3385.9 | 3588.2 | 3009.9 |
| 55° | 2841.3 | 2825.8 | 2683.9 | 2689.3 | 2913.8 | 3030.8 | 3172.7 | 3428.1 | 3761.9 | 3878.6 | 3183.5 |
| 57.5° | 2954.8 | 2935.1 | 2846.7 | 2937.8 | 3265.3 | 3417.3 | 3601.8 | 3842.9 | 4114.6 | 4136.7 | 3315.7 |
| 60° | 3069.2 | 3052.1 | 3027.3 | 3224.6 | 3711.9 | 3871.6 | 4046.4 | 4244.9 | 4472.4 | 4337.1 | 3308.0 |
| 62.5° | 3168.4 | 3170.4 | 3214.2 | 3525.8 | 4149.1 | 4334.0 | 4547.2 | 4743.3 | 4796.1 | 4372.0 | 3063.4 |
| 65° | 3336.7 | 3367.3 | 3497.9 | 3952.2 | 4764.7 | 5012.0 | 5273.6 | 5242.2 | 4885.6 | 4046.0 | 2538.9 |
| 67.5° | 3536.7 | 3590.5 | 3855.3 | 4520.5 | 5542.6 | 5870.9 | 5972.1 | 5355.0 | 4527.0 | 3289.0 | 1809.8 |
| 70° | 3516.5 | 3590.5 | 4009.6 | 4944.1 | 6183.7 | 6403.9 | 6096.9 | 4846.4 | 3594.8 | 2148.6 | 961.3 |
| 72.5° | 3122.7 | 3228.5 | 3695.2 | 4749.9 | 5981.8 | 5962.4 | 5293.0 | 3613.0 | 2135.8 | 862.8 | 375.6 |
| 75° | 2380.0 | 2487.0 | 2888.6 | 3752.6 | 4727.8 | 4565.0 | 3755.7 | 1995.9 | 810.5 | 342.7 | 236.8 |
| 77.5° | 1369.1 | 1452.0 | 1762.1 | 2301.3 | 2999.4 | 2832.4 | 2090.4 | 887.7 | 394.6 | 238.8 | 184.9 |
| 80° | 764.4 | 810.5 | 998.9 | 1167.5 | 1469.9 | 1347.4 | 935.3 | 551.6 | 294.6 | 173.3 | 142.6 |
| 82.5° | 604.3 | 645.4 | 807.8 | 736.5 | 671.4 | 619.4 | 537.2 | 491.1 | 235.3 | 109.3 | 85.3 |
| 85° | 527.9 | 567.1 | 683.8 | 579.9 | 458.6 | 420.6 | 436.5 | 483.4 | 183.0 | 65.9 | 72.9 |
| 87.5° | 489.2 | 541.5 | 609.3 | 446.9 | 357.0 | 316.3 | 402.7 | 529.9 | 58.9 | 41.1 | 29.5 |
| 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° | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 | 1157.4 |
| 2.5° | 1143.5 | 1137.3 | 1127.2 | 1118.3 | 1104.3 | 1097.0 | 1088.8 | 1083.0 | 1078.4 | 1074.5 | 1080.7 |
| 5° | 1108.2 | 1096.6 | 1075.3 | 1052.4 | 1025.3 | 1003.9 | 986.1 | 969.4 | 957.8 | 950.1 | 955.5 |
| 7.5° | 1074.9 | 1055.9 | 1022.5 | 981.1 | 934.6 | 895.0 | 862.5 | 833.8 | 814.0 | 801.2 | 806.3 |
| 10° | 1055.9 | 1032.2 | 980.7 | 915.6 | 847.0 | 785.3 | 734.2 | 690.0 | 659.3 | 641.9 | 644.6 |
| 12.5° | 1051.2 | 1020.6 | 949.3 | 859.7 | 765.9 | 680.3 | 608.2 | 546.9 | 503.9 | 481.4 | 482.2 |
| 15° | 1054.7 | 1015.6 | 919.8 | 806.3 | 687.6 | 579.5 | 489.6 | 415.1 | 365.1 | 339.6 | 339.2 |
| 17.5° | 1060.5 | 1011.7 | 888.8 | 748.5 | 608.2 | 482.6 | 382.2 | 309.3 | 265.1 | 244.6 | 243.0 |
| 20° | 1066.7 | 1005.5 | 853.9 | 686.1 | 525.6 | 392.7 | 299.2 | 242.3 | 214.4 | 203.1 | 202.3 |
| 22.5° | 1075.7 | 1000.1 | 817.9 | 620.2 | 444.6 | 319.8 | 246.1 | 207.8 | 193.0 | 187.2 | 186.4 |
| 25° | 1090.0 | 997.4 | 779.5 | 551.6 | 371.7 | 267.5 | 214.4 | 190.7 | 182.2 | 178.3 | 177.9 |
| 27.5° | 1114.0 | 1001.2 | 743.5 | 484.9 | 312.4 | 232.2 | 196.5 | 182.2 | 176.0 | 172.5 | 172.1 |
| 30° | 1145.0 | 1013.2 | 705.5 | 421.7 | 266.3 | 208.2 | 185.7 | 176.4 | 171.3 | 167.8 | 167.8 |
| 32.5° | 1196.6 | 1033.4 | 665.5 | 367.1 | 233.3 | 191.5 | 177.5 | 171.3 | 167.1 | 164.4 | 164.0 |
| 35° | 1272.6 | 1071.4 | 628.3 | 321.7 | 209.7 | 179.5 | 170.6 | 165.9 | 162.8 | 161.3 | 161.3 |
| 37.5° | 1383.0 | 1131.5 | 595.4 | 289.2 | 195.4 | 171.3 | 164.0 | 160.5 | 158.5 | 158.5 | 158.5 |
| 40° | 1531.5 | 1214.4 | 568.6 | 267.5 | 187.2 | 165.5 | 158.9 | 156.2 | 155.0 | 155.4 | 155.4 |
| 42.5° | 1714.8 | 1322.2 | 550.8 | 252.3 | 183.3 | 162.0 | 155.4 | 153.1 | 151.9 | 151.6 | 151.9 |
| 45° | 1923.8 | 1444.7 | 548.9 | 241.1 | 179.5 | 159.7 | 153.1 | 150.8 | 148.5 | 146.9 | 146.9 |
| 47.5° | 2126.9 | 1569.1 | 564.8 | 237.2 | 175.2 | 157.0 | 151.2 | 148.8 | 145.4 | 141.9 | 141.9 |
| 50° | 2306.4 | 1674.9 | 586.1 | 238.8 | 173.7 | 153.1 | 148.1 | 146.9 | 141.5 | 137.6 | 137.2 |
| 52.5° | 2449.0 | 1756.3 | 603.5 | 243.4 | 175.2 | 150.4 | 144.2 | 144.6 | 138.8 | 134.5 | 134.1 |
| 55° | 2563.3 | 1809.8 | 598.9 | 248.1 | 178.7 | 148.8 | 140.7 | 141.5 | 136.8 | 132.6 | 132.6 |
| 57.5° | 2613.4 | 1790.0 | 547.3 | 244.2 | 181.4 | 149.2 | 138.0 | 141.1 | 137.2 | 133.3 | 133.3 |
| 60° | 2506.0 | 1614.4 | 450.8 | 227.1 | 177.9 | 148.1 | 136.8 | 142.6 | 142.3 | 138.4 | 138.0 |
| 62.5° | 2181.2 | 1300.1 | 349.6 | 202.0 | 165.9 | 142.3 | 133.7 | 142.3 | 146.5 | 145.4 | 145.0 |
| 65° | 1681.1 | 926.0 | 267.1 | 174.8 | 149.6 | 132.6 | 125.6 | 133.3 | 139.2 | 140.7 | 140.3 |
| 67.5° | 1091.2 | 567.5 | 205.8 | 149.2 | 131.4 | 121.3 | 115.1 | 118.6 | 119.8 | 119.8 | 119.0 |
| 70° | 536.5 | 305.4 | 164.0 | 125.6 | 112.8 | 109.3 | 105.8 | 103.9 | 101.9 | 100.4 | 100.4 |
| 72.5° | 264.7 | 199.6 | 134.9 | 106.2 | 97.3 | 95.7 | 95.0 | 92.6 | 91.1 | 89.2 | 88.4 |
| 75° | 195.7 | 162.4 | 114.7 | 89.5 | 83.7 | 82.2 | 83.7 | 81.8 | 81.4 | 79.9 | 79.1 |
| 77.5° | 160.9 | 138.4 | 98.8 | 76.7 | 71.7 | 69.0 | 71.3 | 71.7 | 72.1 | 69.8 | 69.0 |
| 80° | 130.6 | 117.1 | 82.6 | 63.6 | 58.9 | 57.0 | 58.5 | 61.6 | 62.4 | 58.9 | 57.4 |
| 82.5° | 94.2 | 95.7 | 66.7 | 49.6 | 45.7 | 44.2 | 47.3 | 51.2 | 51.9 | 46.9 | 45.7 |
| 85° | 79.1 | 79.9 | 51.2 | 35.3 | 31.4 | 29.1 | 34.1 | 38.0 | 40.7 | 35.7 | 34.5 |
| 87.5° | 32.9 | 46.9 | 29.5 | 19.8 | 17.4 | 15.1 | 18.2 | 20.2 | 24.4 | 22.5 | 22.1 |
| 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)