

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: P268307

Luminaire Tested: **GAN-AF-02-LED-U-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8550.7 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

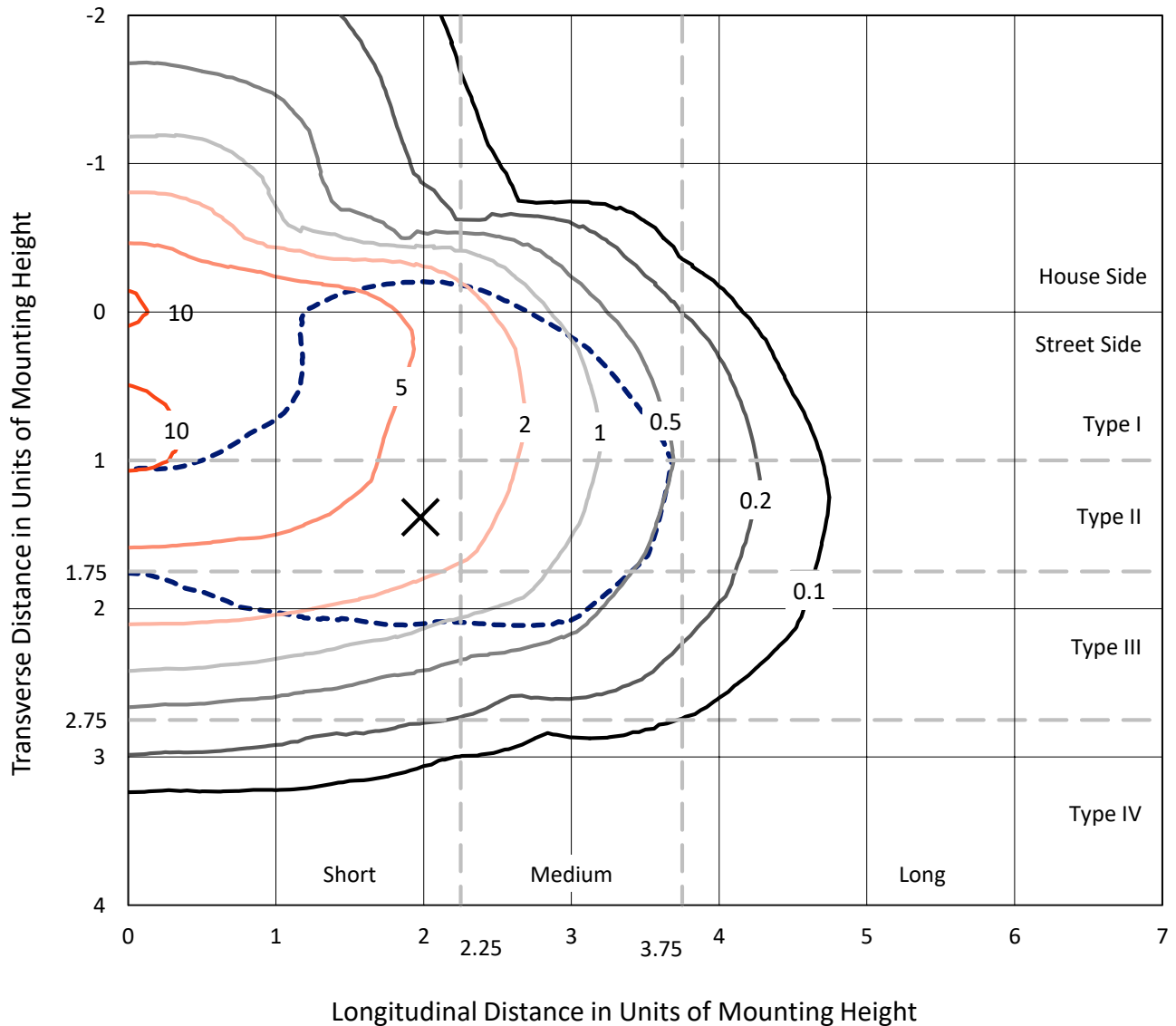
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

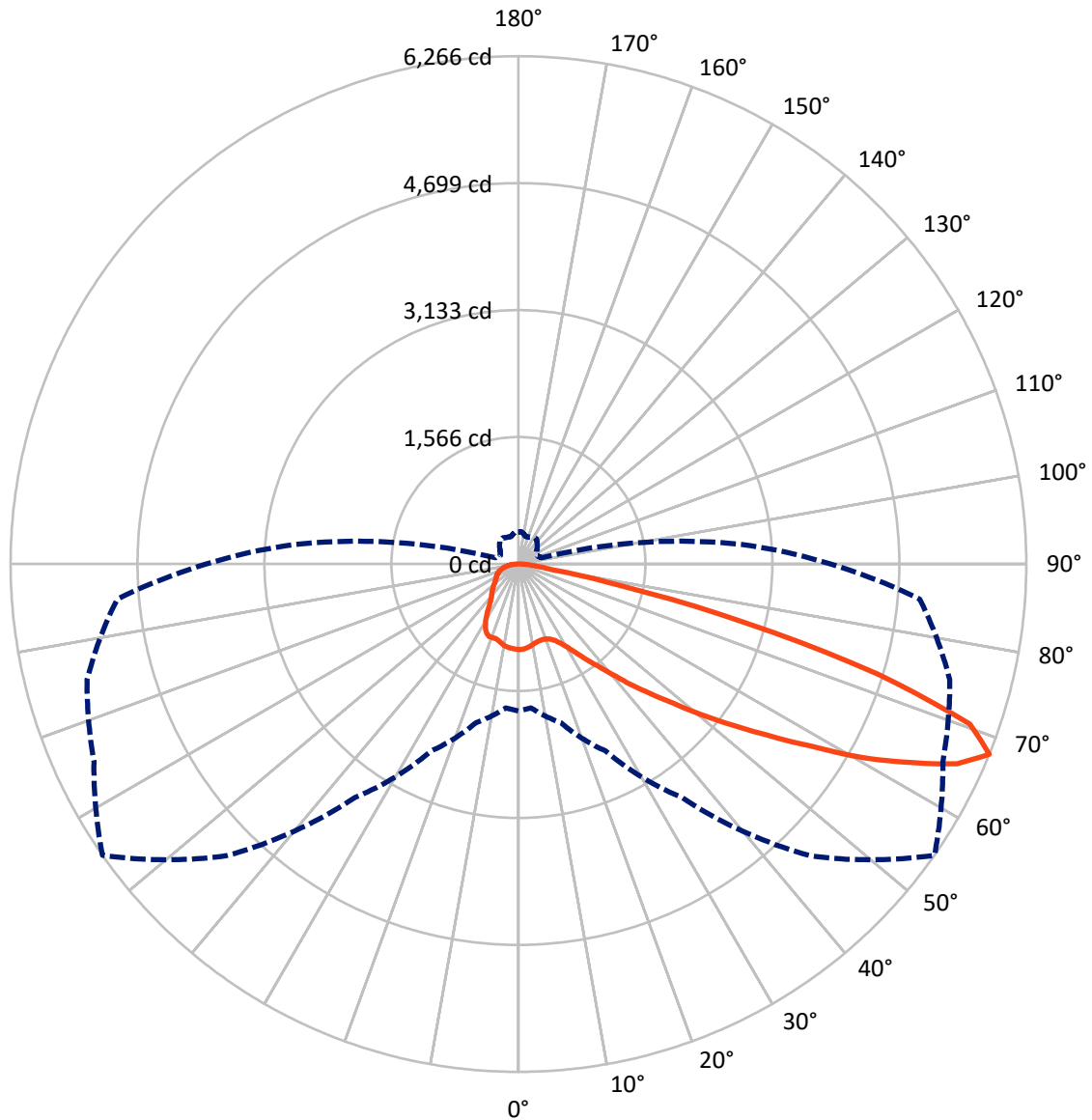
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1847.1 | 0.0 | 1847.1 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 6703.6 | 0.0 | 6703.6 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 8550.7 | 0.0 | 8550.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.4 | 1.2 |
| 10°-20° | 278.7 | 3.3 |
| 20°-30° | 466.9 | 5.5 |
| 30°-40° | 767.8 | 9.0 |
| 40°-50° | 1292.4 | 15.1 |
| 50°-60° | 2034.2 | 23.8 |
| 60°-70° | 2427.6 | 28.4 |
| 70°-80° | 1042.5 | 12.2 |
| 80°-90° | 142.1 | 1.7 |
| 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° | 8550.7 | 100.0 |
| 0°-180° | 8550.7 | 100.0 |

Coefficient of Utilization



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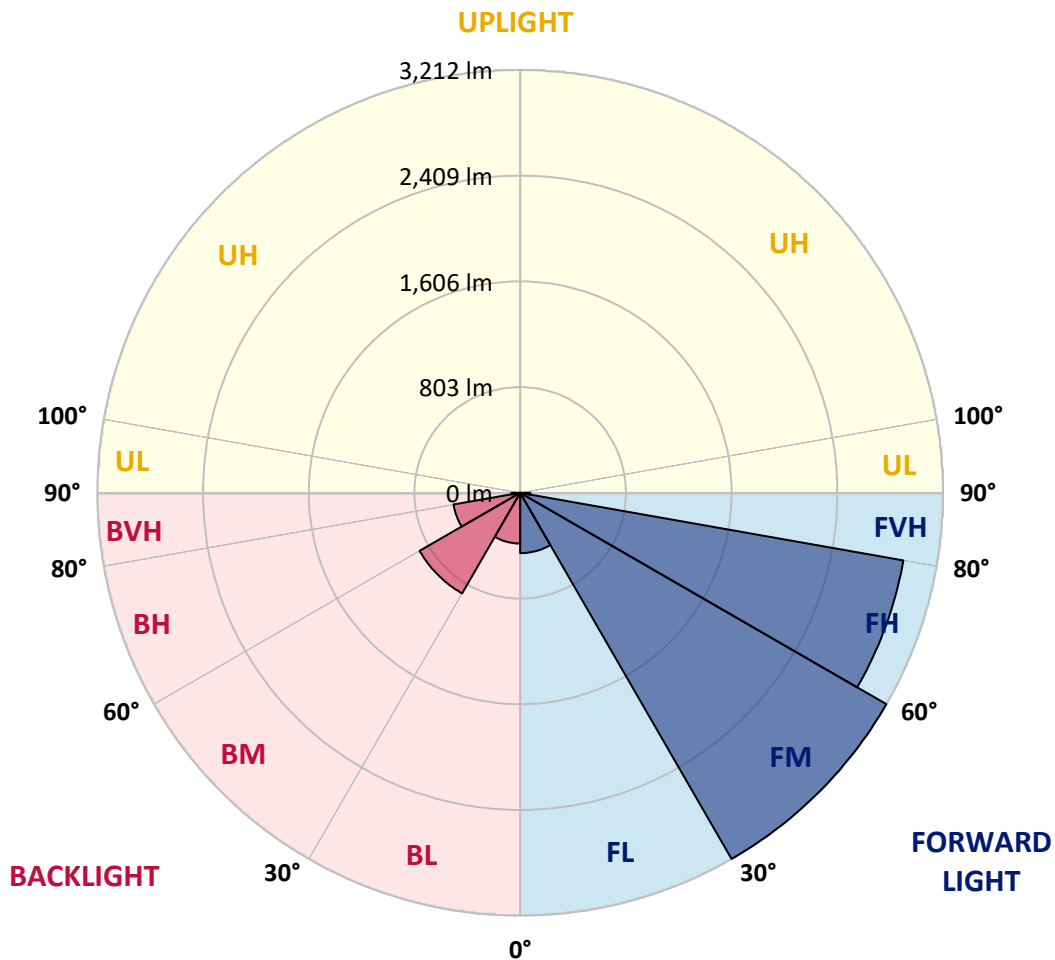
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 458.3 | 5.4 | | | |
| FM (30°-60°) | 3212.3 | 37.6 | | | |
| FH (60°-80°) | 2956.0 | 34.6 | | | G2/5000 |
| FVH (80°-90°) | 76.9 | 0.9 | | | G1/100 |
| BL (0°-30°) | 385.7 | 4.5 | B1/500 | | |
| BM (30°-60°) | 882.2 | 10.3 | B1/1000 | | |
| BH (60°-80°) | 514.0 | 6.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 65.2 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 |
| 2.5° | 1045.3 | 1045.6 | 1046.5 | 1049.8 | 1052.8 | 1051.9 | 1052.4 | 1050.7 | 1050.3 | 1047.9 | 1050.3 |
| 5° | 1032.2 | 1033.3 | 1033.7 | 1039.1 | 1042.5 | 1043.2 | 1042.0 | 1040.0 | 1037.5 | 1034.9 | 1036.3 |
| 7.5° | 1001.9 | 1005.3 | 1005.7 | 1013.1 | 1018.5 | 1025.4 | 1026.0 | 1026.4 | 1025.1 | 1023.3 | 1026.0 |
| 10° | 982.9 | 983.7 | 983.4 | 988.8 | 992.8 | 1000.7 | 1005.3 | 1013.1 | 1016.4 | 1017.2 | 1018.9 |
| 12.5° | 981.7 | 980.9 | 979.6 | 979.6 | 978.4 | 981.7 | 989.9 | 1001.2 | 1008.9 | 1011.4 | 1013.5 |
| 15° | 995.0 | 994.6 | 990.4 | 984.2 | 976.4 | 973.9 | 980.9 | 993.3 | 1003.5 | 1008.9 | 1011.0 |
| 17.5° | 1024.6 | 1022.2 | 1015.5 | 1001.5 | 984.6 | 978.0 | 978.9 | 989.2 | 1001.2 | 1008.2 | 1010.2 |
| 20° | 1079.1 | 1079.1 | 1065.1 | 1038.7 | 1008.5 | 992.8 | 985.4 | 991.5 | 1003.1 | 1012.7 | 1015.5 |
| 22.5° | 1173.4 | 1174.2 | 1150.5 | 1107.3 | 1056.4 | 1023.0 | 1004.5 | 1003.1 | 1016.8 | 1027.5 | 1030.8 |
| 25° | 1306.8 | 1303.4 | 1270.5 | 1208.4 | 1131.2 | 1075.9 | 1043.7 | 1036.3 | 1047.9 | 1059.8 | 1064.0 |
| 27.5° | 1462.0 | 1450.0 | 1410.8 | 1336.0 | 1236.1 | 1155.2 | 1105.6 | 1093.6 | 1104.7 | 1118.4 | 1122.5 |
| 30° | 1615.6 | 1603.2 | 1556.7 | 1474.8 | 1363.7 | 1261.3 | 1190.3 | 1170.9 | 1186.5 | 1206.0 | 1208.4 |
| 32.5° | 1769.3 | 1769.3 | 1717.3 | 1621.9 | 1500.9 | 1388.2 | 1303.0 | 1279.8 | 1305.9 | 1329.4 | 1334.8 |
| 35° | 1953.1 | 1954.0 | 1903.5 | 1788.7 | 1658.6 | 1539.2 | 1445.6 | 1428.6 | 1467.8 | 1484.3 | 1497.1 |
| 37.5° | 2179.0 | 2183.5 | 2118.7 | 1980.0 | 1837.5 | 1711.9 | 1600.4 | 1577.2 | 1616.5 | 1661.5 | 1702.7 |
| 40° | 2423.1 | 2428.8 | 2357.4 | 2186.5 | 2044.0 | 1912.6 | 1791.9 | 1750.3 | 1815.6 | 1901.4 | 1954.7 |
| 42.5° | 2656.0 | 2685.8 | 2616.8 | 2440.9 | 2287.7 | 2151.7 | 2029.5 | 1968.7 | 2050.6 | 2180.2 | 2226.4 |
| 45° | 2992.7 | 3014.1 | 2893.9 | 2734.5 | 2590.4 | 2438.4 | 2276.5 | 2212.4 | 2326.8 | 2490.5 | 2500.0 |
| 47.5° | 3216.9 | 3200.8 | 3139.7 | 3040.6 | 2949.2 | 2807.2 | 2563.6 | 2493.2 | 2645.2 | 2837.7 | 2784.4 |
| 50° | 3336.2 | 3341.2 | 3332.9 | 3338.7 | 3342.1 | 3252.9 | 2915.4 | 2819.2 | 3000.5 | 3233.0 | 3110.3 |
| 52.5° | 3447.8 | 3414.6 | 3441.9 | 3577.4 | 3740.9 | 3707.9 | 3298.2 | 3197.8 | 3381.2 | 3671.6 | 3454.7 |
| 55° | 3445.3 | 3394.9 | 3483.6 | 3722.8 | 4077.5 | 4115.6 | 3728.1 | 3612.5 | 3783.9 | 4141.9 | 3819.9 |
| 57.5° | 3323.4 | 3325.9 | 3462.5 | 3775.7 | 4312.1 | 4498.8 | 4227.1 | 4053.6 | 4211.0 | 4618.5 | 4153.1 |
| 60° | 3155.7 | 3178.5 | 3375.4 | 3767.0 | 4500.1 | 4813.1 | 4839.1 | 4529.0 | 4629.3 | 5051.8 | 4429.1 |
| 62.5° | 2885.3 | 2909.3 | 3180.9 | 3676.9 | 4471.6 | 5115.8 | 5392.5 | 5068.3 | 5066.7 | 5314.6 | 4510.0 |
| 65° | 2458.7 | 2451.6 | 2737.0 | 3340.3 | 4232.5 | 5339.6 | 5942.3 | 5534.5 | 5396.3 | 5318.7 | 4347.3 |
| 67.5° | 1813.0 | 1781.7 | 2026.5 | 2544.1 | 3517.9 | 5089.0 | 6265.7 | 5777.4 | 5508.5 | 4968.9 | 3850.0 |
| 70° | 940.9 | 909.4 | 1107.7 | 1485.5 | 2313.7 | 3971.9 | 5907.6 | 5652.0 | 5260.4 | 4165.1 | 3016.1 |
| 72.5° | 402.4 | 397.0 | 477.4 | 651.7 | 1119.2 | 2290.9 | 4632.2 | 4892.0 | 4513.7 | 3103.3 | 2073.6 |
| 75° | 270.5 | 268.9 | 299.0 | 355.2 | 503.4 | 929.7 | 2898.8 | 3472.5 | 3302.3 | 1924.2 | 1166.3 |
| 77.5° | 212.3 | 210.3 | 228.0 | 255.3 | 326.3 | 366.8 | 1286.6 | 1864.3 | 1725.6 | 837.6 | 510.4 |
| 80° | 166.0 | 164.4 | 175.4 | 190.4 | 234.5 | 231.3 | 423.3 | 741.7 | 574.0 | 321.0 | 248.2 |
| 82.5° | 131.0 | 131.0 | 140.0 | 140.4 | 166.5 | 157.7 | 221.0 | 326.7 | 286.6 | 187.0 | 152.1 |
| 85° | 119.7 | 119.7 | 129.3 | 104.9 | 108.7 | 99.5 | 137.1 | 193.8 | 181.6 | 76.8 | 66.0 |
| 87.5° | 60.2 | 58.7 | 108.7 | 93.0 | 59.1 | 52.9 | 67.0 | 93.8 | 100.8 | 42.5 | 33.1 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 | 1054.4 |
| 2.5° | 1049.4 | 1049.0 | 1049.8 | 1050.3 | 1053.5 | 1058.2 | 1060.2 | 1063.1 | 1064.8 | 1064.0 |
| 5° | 1037.1 | 1037.9 | 1041.1 | 1043.7 | 1049.4 | 1056.9 | 1061.0 | 1064.3 | 1067.1 | 1066.0 |
| 7.5° | 1026.8 | 1028.7 | 1033.7 | 1035.7 | 1039.1 | 1041.1 | 1040.7 | 1042.0 | 1044.5 | 1041.6 |
| 10° | 1021.0 | 1023.3 | 1027.1 | 1024.2 | 1016.4 | 1005.3 | 995.0 | 989.6 | 991.2 | 989.2 |
| 12.5° | 1015.2 | 1018.5 | 1015.5 | 1001.9 | 980.1 | 965.6 | 957.8 | 958.6 | 962.3 | 963.2 |
| 15° | 1011.9 | 1013.1 | 1000.7 | 975.1 | 952.8 | 950.8 | 954.9 | 954.0 | 954.4 | 954.4 |
| 17.5° | 1011.9 | 1008.5 | 985.4 | 959.7 | 950.2 | 946.6 | 933.8 | 917.7 | 910.6 | 908.1 |
| 20° | 1017.2 | 1008.5 | 980.5 | 963.5 | 943.0 | 911.2 | 877.3 | 847.6 | 834.3 | 830.6 |
| 22.5° | 1033.3 | 1018.5 | 994.6 | 965.1 | 906.5 | 853.3 | 799.6 | 764.1 | 740.2 | 736.0 |
| 25° | 1066.0 | 1049.4 | 1022.2 | 943.3 | 848.7 | 772.7 | 711.5 | 671.9 | 647.9 | 644.8 |
| 27.5° | 1122.9 | 1112.2 | 1037.1 | 895.0 | 772.0 | 690.5 | 633.9 | 603.4 | 585.6 | 584.3 |
| 30° | 1208.8 | 1203.5 | 1029.5 | 823.6 | 677.3 | 610.8 | 583.5 | 565.8 | 552.5 | 552.2 |
| 32.5° | 1346.0 | 1302.6 | 1005.3 | 736.4 | 591.1 | 554.3 | 543.0 | 532.3 | 522.0 | 522.0 |
| 35° | 1522.3 | 1382.8 | 959.0 | 643.0 | 538.5 | 522.9 | 508.8 | 491.9 | 478.3 | 477.4 |
| 37.5° | 1729.6 | 1432.3 | 875.9 | 567.9 | 513.8 | 501.9 | 481.1 | 456.0 | 431.9 | 427.9 |
| 40° | 1939.0 | 1447.2 | 759.1 | 521.6 | 498.1 | 480.8 | 455.5 | 425.7 | 402.7 | 401.5 |
| 42.5° | 2131.0 | 1418.7 | 635.2 | 489.8 | 482.4 | 459.3 | 432.9 | 406.5 | 388.2 | 387.8 |
| 45° | 2292.1 | 1344.8 | 531.1 | 459.7 | 466.0 | 439.8 | 416.4 | 394.9 | 380.8 | 377.8 |
| 47.5° | 2443.7 | 1240.2 | 458.0 | 427.9 | 449.3 | 429.1 | 409.3 | 389.1 | 375.4 | 373.3 |
| 50° | 2619.6 | 1127.6 | 406.8 | 397.0 | 434.9 | 425.3 | 415.0 | 393.9 | 371.3 | 368.8 |
| 52.5° | 2832.7 | 1030.0 | 366.8 | 369.7 | 423.7 | 430.4 | 429.8 | 408.0 | 368.3 | 365.2 |
| 55° | 3070.6 | 921.8 | 336.5 | 347.4 | 419.1 | 439.5 | 433.6 | 421.2 | 370.9 | 365.9 |
| 57.5° | 3304.9 | 795.4 | 315.6 | 330.3 | 412.6 | 438.6 | 415.8 | 398.0 | 376.7 | 369.7 |
| 60° | 3480.4 | 625.7 | 299.4 | 315.6 | 398.0 | 425.0 | 396.5 | 372.9 | 375.4 | 370.0 |
| 62.5° | 3491.9 | 483.6 | 280.0 | 302.6 | 376.2 | 411.3 | 383.7 | 361.7 | 380.8 | 375.9 |
| 65° | 3286.7 | 365.5 | 261.4 | 287.5 | 352.8 | 402.7 | 371.3 | 355.5 | 391.9 | 386.6 |
| 67.5° | 2767.0 | 294.0 | 245.7 | 271.7 | 329.1 | 384.6 | 360.1 | 349.8 | 401.8 | 392.4 |
| 70° | 1997.7 | 250.6 | 230.4 | 252.8 | 308.1 | 363.9 | 350.2 | 339.5 | 375.0 | 360.1 |
| 72.5° | 1229.9 | 217.2 | 213.1 | 227.6 | 291.9 | 342.3 | 335.3 | 320.1 | 337.9 | 325.8 |
| 75° | 614.1 | 188.4 | 193.8 | 202.7 | 269.3 | 318.0 | 310.5 | 295.4 | 297.8 | 295.4 |
| 77.5° | 294.0 | 161.1 | 170.9 | 178.0 | 239.9 | 290.3 | 282.4 | 266.7 | 263.9 | 264.3 |
| 80° | 186.3 | 134.7 | 144.2 | 149.1 | 214.3 | 258.2 | 250.3 | 234.5 | 267.6 | 248.2 |
| 82.5° | 116.5 | 109.5 | 111.8 | 121.0 | 186.7 | 224.7 | 214.3 | 200.3 | 241.1 | 190.8 |
| 85° | 64.4 | 76.4 | 79.7 | 87.6 | 143.6 | 187.9 | 177.5 | 159.8 | 143.3 | 140.9 |
| 87.5° | 38.4 | 45.5 | 46.6 | 52.5 | 96.7 | 135.9 | 120.3 | 113.9 | 94.6 | 94.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)