

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: P192049

Luminaire Tested: **GAN-AF-01-LED-U-SL4-7050-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192049
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-01-LED-U-SL4-7050-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE 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: 5922 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

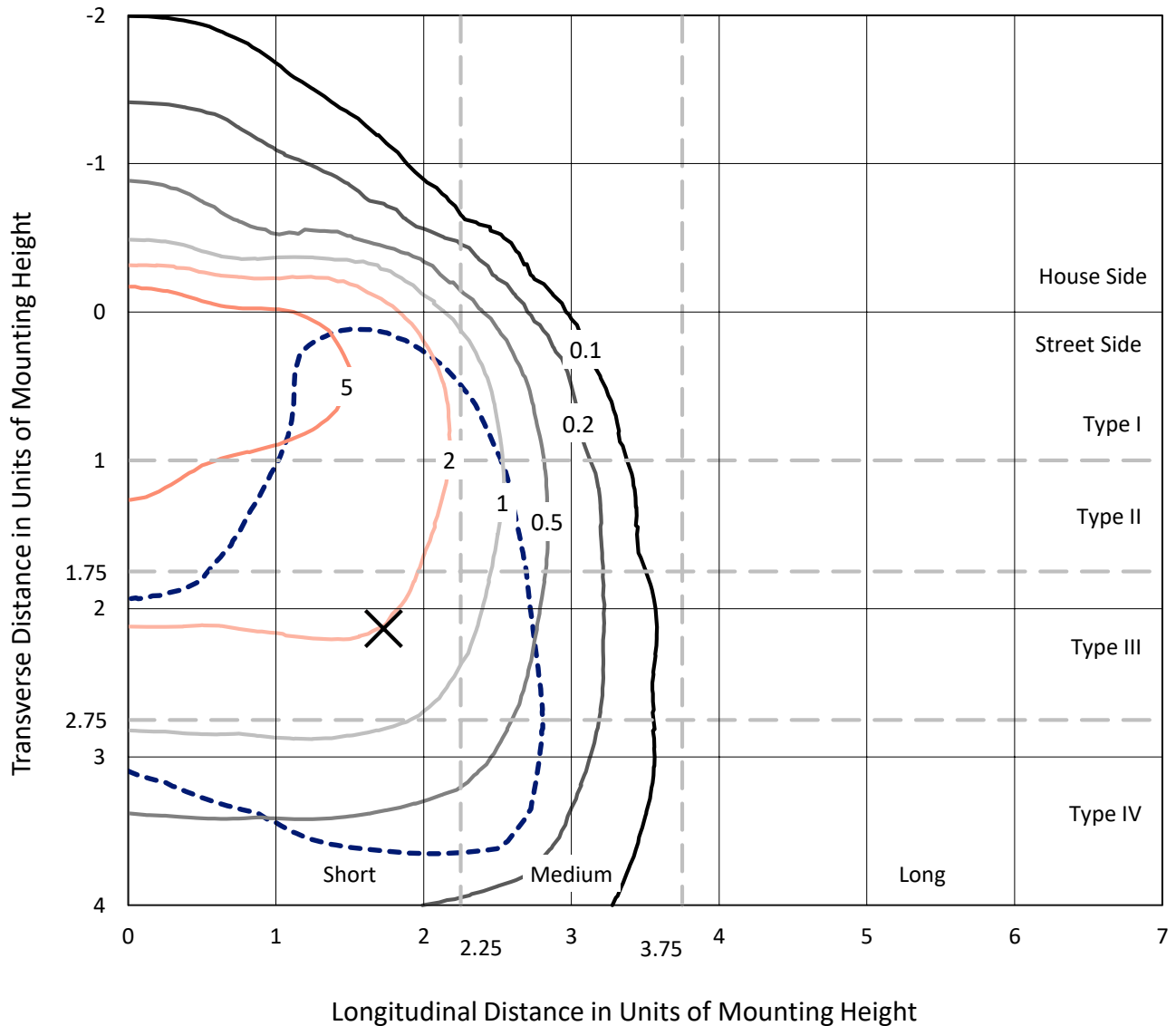
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

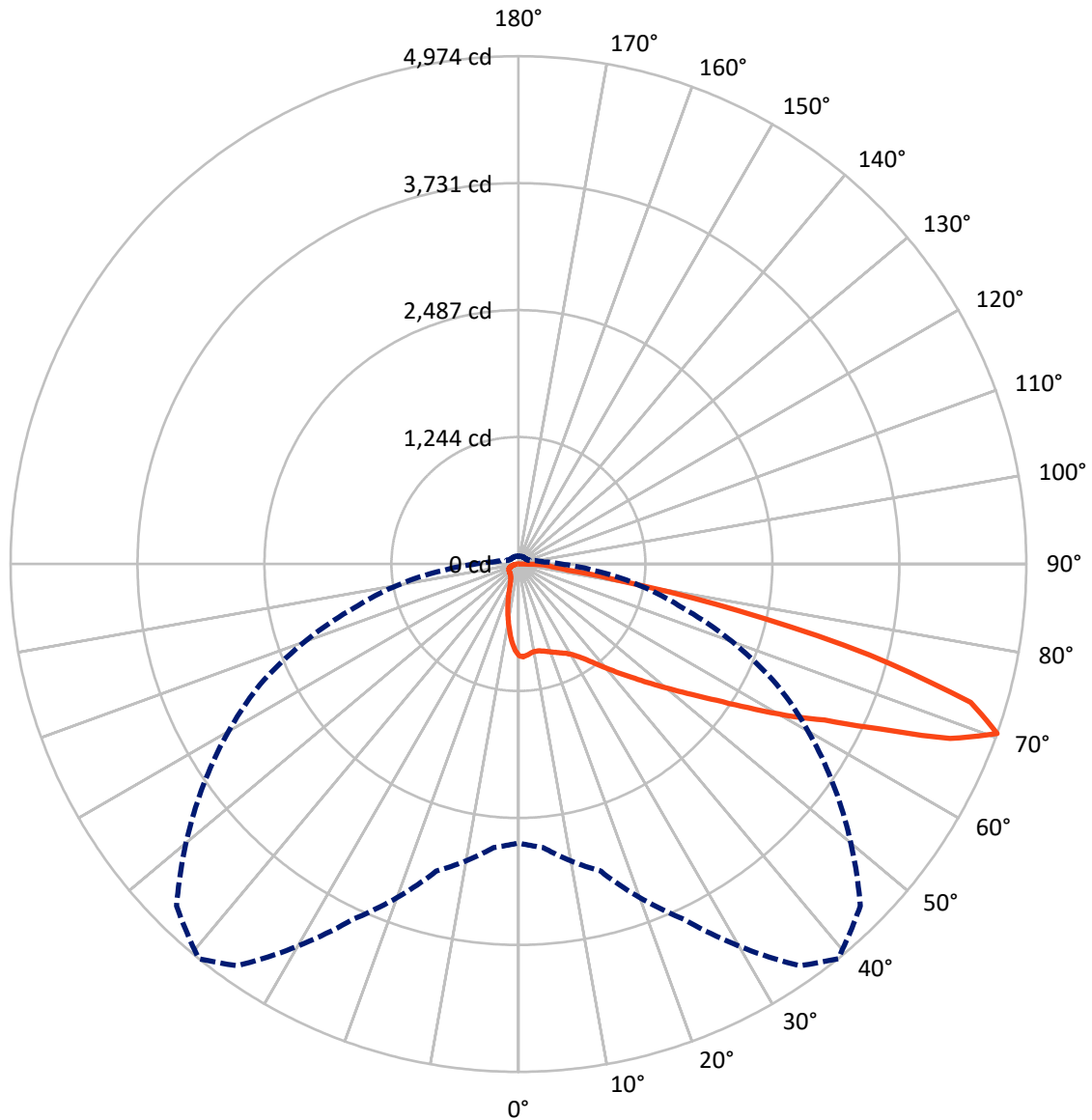
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 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 | 673.5 | 0.0 | 673.5 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 5248.5 | 0.0 | 5248.5 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 5922.0 | 0.0 | 5922.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.2 | 1.3 |
| 10°-20° | 192.9 | 3.3 |
| 20°-30° | 300.3 | 5.1 |
| 30°-40° | 467.8 | 7.9 |
| 40°-50° | 785.3 | 13.3 |
| 50°-60° | 1247.6 | 21.1 |
| 60°-70° | 1664.1 | 28.1 |
| 70°-80° | 1004.9 | 17.0 |
| 80°-90° | 181.9 | 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° | 5922.0 | 100.0 |
| 0°-180° | 5922.0 | 100.0 |



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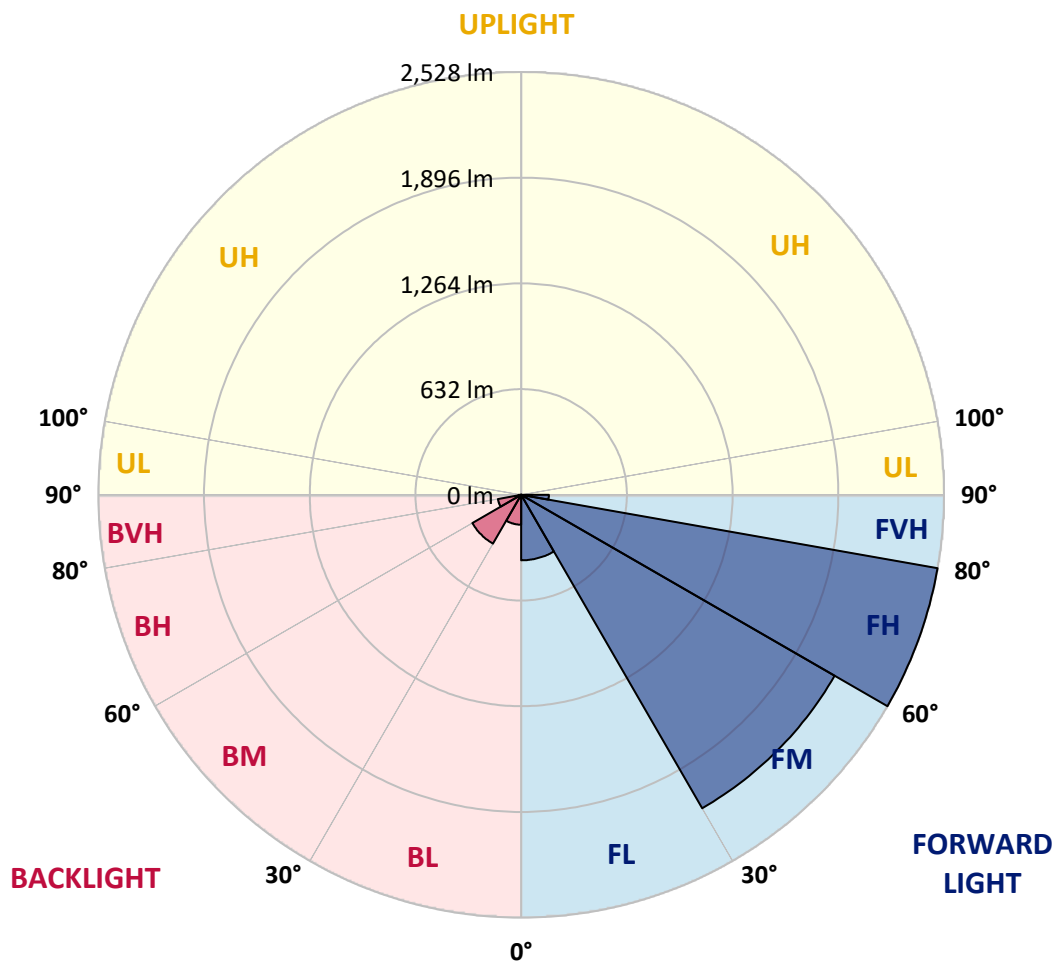
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 391.6 | 6.6 | | | |
| FM | (30°-60°) | 2163.7 | 36.5 | | | |
| FH | (60°-80°) | 2527.7 | 42.7 | | | G2/5000 |
| FVH | (80°-90°) | 165.5 | 2.8 | | | G2/225 |
| BL | (0°-30°) | 178.7 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 337.1 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 141.4 | 2.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 16.4 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 |
| 2.5° | 916.5 | 916.2 | 913.8 | 912.0 | 910.5 | 909.9 | 911.1 | 906.6 | 902.7 | 897.8 | 892.7 |
| 5° | 909.6 | 909.3 | 905.4 | 901.8 | 898.1 | 896.9 | 896.6 | 888.5 | 883.7 | 876.5 | 866.8 |
| 7.5° | 902.1 | 900.6 | 895.4 | 889.4 | 883.1 | 880.1 | 877.1 | 866.5 | 861.1 | 853.9 | 842.7 |
| 10° | 894.2 | 892.4 | 887.6 | 881.6 | 875.6 | 871.1 | 865.9 | 855.7 | 850.0 | 844.6 | 831.6 |
| 12.5° | 886.1 | 884.6 | 883.4 | 880.7 | 876.5 | 872.6 | 868.6 | 859.9 | 853.9 | 847.6 | 832.5 |
| 15° | 884.9 | 884.3 | 887.0 | 888.8 | 886.4 | 884.0 | 879.8 | 872.3 | 865.9 | 859.6 | 840.0 |
| 17.5° | 894.5 | 894.2 | 901.2 | 906.0 | 904.8 | 900.6 | 894.8 | 886.4 | 881.3 | 875.9 | 851.5 |
| 20° | 915.6 | 917.1 | 925.5 | 931.9 | 925.8 | 919.8 | 910.5 | 898.8 | 896.0 | 893.6 | 863.2 |
| 22.5° | 955.4 | 956.9 | 962.9 | 965.3 | 949.6 | 940.9 | 928.0 | 912.9 | 911.1 | 912.9 | 877.4 |
| 25° | 1017.4 | 1015.9 | 1015.0 | 1005.9 | 977.3 | 963.8 | 947.2 | 931.6 | 932.5 | 940.6 | 897.2 |
| 27.5° | 1099.6 | 1091.4 | 1078.8 | 1051.7 | 1006.2 | 991.2 | 971.0 | 956.6 | 962.3 | 977.9 | 927.1 |
| 30° | 1184.8 | 1175.8 | 1146.5 | 1102.3 | 1044.2 | 1027.6 | 1005.0 | 988.8 | 1003.8 | 1028.5 | 966.8 |
| 32.5° | 1263.7 | 1262.5 | 1219.7 | 1162.8 | 1096.6 | 1082.1 | 1059.5 | 1041.2 | 1065.6 | 1103.2 | 1026.4 |
| 35° | 1349.8 | 1352.5 | 1301.3 | 1233.0 | 1167.3 | 1152.3 | 1136.0 | 1122.2 | 1154.7 | 1206.5 | 1112.8 |
| 37.5° | 1441.9 | 1447.3 | 1386.8 | 1309.7 | 1248.0 | 1241.7 | 1232.1 | 1226.0 | 1276.3 | 1348.0 | 1233.6 |
| 40° | 1565.1 | 1559.6 | 1475.6 | 1396.5 | 1347.1 | 1346.8 | 1343.8 | 1351.0 | 1434.7 | 1532.8 | 1388.6 |
| 42.5° | 1696.9 | 1681.0 | 1569.9 | 1489.5 | 1455.8 | 1466.0 | 1472.0 | 1501.5 | 1625.3 | 1757.5 | 1577.7 |
| 45° | 1839.1 | 1803.2 | 1667.7 | 1587.9 | 1576.5 | 1598.2 | 1618.7 | 1682.8 | 1849.6 | 2013.1 | 1784.9 |
| 47.5° | 1952.6 | 1917.9 | 1768.9 | 1691.2 | 1716.2 | 1749.0 | 1788.5 | 1889.9 | 2100.7 | 2277.1 | 1989.3 |
| 50° | 2042.0 | 2019.4 | 1871.0 | 1811.7 | 1870.1 | 1920.6 | 1985.1 | 2124.5 | 2362.0 | 2534.3 | 2178.7 |
| 52.5° | 2128.7 | 2111.8 | 1973.9 | 1935.1 | 2050.7 | 2120.6 | 2208.2 | 2376.2 | 2630.0 | 2787.2 | 2338.0 |
| 55° | 2207.0 | 2194.9 | 2084.7 | 2089.0 | 2263.3 | 2354.2 | 2464.4 | 2662.8 | 2922.1 | 3012.7 | 2472.8 |
| 57.5° | 2295.2 | 2279.8 | 2211.2 | 2282.0 | 2536.4 | 2654.4 | 2797.7 | 2985.0 | 3196.1 | 3213.2 | 2575.5 |
| 60° | 2384.0 | 2370.8 | 2351.5 | 2504.8 | 2883.2 | 3007.3 | 3143.1 | 3297.2 | 3474.0 | 3368.9 | 2569.5 |
| 62.5° | 2461.1 | 2462.6 | 2496.6 | 2738.7 | 3222.9 | 3366.5 | 3532.1 | 3684.4 | 3725.4 | 3396.0 | 2379.5 |
| 65° | 2591.8 | 2615.6 | 2717.0 | 3069.9 | 3701.0 | 3893.1 | 4096.3 | 4071.9 | 3794.9 | 3142.8 | 1972.1 |
| 67.5° | 2747.1 | 2789.0 | 2994.6 | 3511.3 | 4305.3 | 4560.3 | 4638.9 | 4159.5 | 3516.4 | 2554.7 | 1405.8 |
| 70° | 2731.5 | 2789.0 | 3114.5 | 3840.4 | 4803.3 | 4974.3 | 4735.8 | 3764.5 | 2792.3 | 1668.9 | 746.7 |
| 72.5° | 2425.6 | 2507.8 | 2870.3 | 3689.5 | 4646.4 | 4631.3 | 4111.4 | 2806.4 | 1659.0 | 670.2 | 291.8 |
| 75° | 1848.7 | 1931.8 | 2243.7 | 2914.8 | 3672.4 | 3545.9 | 2917.3 | 1550.3 | 629.6 | 266.2 | 184.0 |
| 77.5° | 1063.4 | 1127.9 | 1368.8 | 1787.6 | 2329.8 | 2200.1 | 1623.8 | 689.5 | 306.5 | 185.5 | 143.6 |
| 80° | 593.7 | 629.6 | 775.9 | 906.9 | 1141.7 | 1046.6 | 726.5 | 428.4 | 228.8 | 134.6 | 110.8 |
| 82.5° | 469.4 | 501.3 | 627.5 | 572.1 | 521.5 | 481.1 | 417.3 | 381.5 | 182.8 | 84.9 | 66.2 |
| 85° | 410.1 | 440.5 | 531.1 | 450.4 | 356.2 | 326.7 | 339.0 | 375.5 | 142.1 | 51.2 | 56.6 |
| 87.5° | 380.0 | 420.6 | 473.3 | 347.2 | 277.3 | 245.7 | 312.8 | 411.6 | 45.8 | 31.9 | 22.9 |
| 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° | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 | 899.1 |
| 2.5° | 888.2 | 883.4 | 875.6 | 868.6 | 857.8 | 852.1 | 845.8 | 841.2 | 837.6 | 834.6 | 839.4 |
| 5° | 860.8 | 851.8 | 835.2 | 817.5 | 796.4 | 779.8 | 766.0 | 753.0 | 744.0 | 738.0 | 742.2 |
| 7.5° | 834.9 | 820.2 | 794.3 | 762.1 | 725.9 | 695.2 | 669.9 | 647.6 | 632.3 | 622.4 | 626.3 |
| 10° | 820.2 | 801.8 | 761.8 | 711.2 | 657.9 | 610.0 | 570.3 | 535.9 | 512.2 | 498.6 | 500.7 |
| 12.5° | 816.6 | 792.8 | 737.4 | 667.8 | 595.0 | 528.4 | 472.4 | 424.8 | 391.4 | 374.0 | 374.6 |
| 15° | 819.3 | 788.9 | 714.5 | 626.3 | 534.1 | 450.1 | 380.3 | 322.5 | 283.6 | 263.8 | 263.5 |
| 17.5° | 823.8 | 785.8 | 690.4 | 581.4 | 472.4 | 374.9 | 296.9 | 240.3 | 205.9 | 190.0 | 188.8 |
| 20° | 828.6 | 781.0 | 663.3 | 532.9 | 408.3 | 305.0 | 232.4 | 188.2 | 166.5 | 157.8 | 157.2 |
| 22.5° | 835.5 | 776.8 | 635.3 | 481.7 | 345.3 | 248.4 | 191.2 | 161.4 | 149.9 | 145.4 | 144.8 |
| 25° | 846.7 | 774.7 | 605.5 | 428.4 | 288.7 | 207.8 | 166.5 | 148.1 | 141.5 | 138.5 | 138.2 |
| 27.5° | 865.3 | 777.7 | 577.5 | 376.7 | 242.7 | 180.4 | 152.7 | 141.5 | 136.7 | 134.0 | 133.7 |
| 30° | 889.4 | 787.0 | 548.0 | 327.6 | 206.8 | 161.7 | 144.2 | 137.0 | 133.1 | 130.4 | 130.4 |
| 32.5° | 929.5 | 802.7 | 517.0 | 285.1 | 181.3 | 148.7 | 137.9 | 133.1 | 129.8 | 127.7 | 127.4 |
| 35° | 988.5 | 832.2 | 488.1 | 249.9 | 162.9 | 139.4 | 132.5 | 128.9 | 126.5 | 125.3 | 125.3 |
| 37.5° | 1074.3 | 878.9 | 462.5 | 224.6 | 151.7 | 133.1 | 127.4 | 124.7 | 123.1 | 123.1 | 123.1 |
| 40° | 1189.6 | 943.3 | 441.7 | 207.8 | 145.4 | 128.6 | 123.4 | 121.3 | 120.4 | 120.7 | 120.7 |
| 42.5° | 1332.0 | 1027.0 | 427.8 | 196.0 | 142.4 | 125.9 | 120.7 | 118.9 | 118.0 | 117.7 | 118.0 |
| 45° | 1494.3 | 1122.2 | 426.3 | 187.3 | 139.4 | 124.0 | 118.9 | 117.1 | 115.3 | 114.1 | 114.1 |
| 47.5° | 1652.1 | 1218.8 | 438.7 | 184.3 | 136.1 | 121.9 | 117.4 | 115.6 | 112.9 | 110.2 | 110.2 |
| 50° | 1791.5 | 1301.0 | 455.2 | 185.5 | 134.9 | 118.9 | 115.0 | 114.1 | 109.9 | 106.9 | 106.6 |
| 52.5° | 1902.3 | 1364.2 | 468.8 | 189.1 | 136.1 | 116.8 | 112.0 | 112.3 | 107.8 | 104.5 | 104.2 |
| 55° | 1991.1 | 1405.8 | 465.2 | 192.7 | 138.8 | 115.6 | 109.3 | 109.9 | 106.3 | 103.0 | 103.0 |
| 57.5° | 2029.9 | 1390.4 | 425.1 | 189.7 | 140.9 | 115.9 | 107.2 | 109.6 | 106.6 | 103.6 | 103.6 |
| 60° | 1946.5 | 1254.0 | 350.2 | 176.4 | 138.2 | 115.0 | 106.3 | 110.8 | 110.5 | 107.5 | 107.2 |
| 62.5° | 1694.2 | 1009.9 | 271.6 | 156.9 | 128.9 | 110.5 | 103.9 | 110.5 | 113.8 | 112.9 | 112.6 |
| 65° | 1305.8 | 719.3 | 207.5 | 135.8 | 116.2 | 103.0 | 97.6 | 103.6 | 108.1 | 109.3 | 109.0 |
| 67.5° | 847.6 | 440.8 | 159.9 | 115.9 | 102.1 | 94.2 | 89.4 | 92.1 | 93.0 | 93.0 | 92.4 |
| 70° | 416.7 | 237.3 | 127.4 | 97.6 | 87.6 | 84.9 | 82.2 | 80.7 | 79.2 | 78.0 | 78.0 |
| 72.5° | 205.6 | 155.1 | 104.8 | 82.5 | 75.6 | 74.4 | 73.8 | 72.0 | 70.8 | 69.3 | 68.6 |
| 75° | 152.0 | 126.2 | 89.1 | 69.6 | 65.0 | 63.8 | 65.0 | 63.5 | 63.2 | 62.0 | 61.4 |
| 77.5° | 125.0 | 107.5 | 76.8 | 59.6 | 55.7 | 53.6 | 55.4 | 55.7 | 56.0 | 54.2 | 53.6 |
| 80° | 101.5 | 90.9 | 64.1 | 49.4 | 45.8 | 44.3 | 45.5 | 47.9 | 48.5 | 45.8 | 44.6 |
| 82.5° | 73.2 | 74.4 | 51.8 | 38.5 | 35.5 | 34.3 | 36.7 | 39.7 | 40.3 | 36.4 | 35.5 |
| 85° | 61.4 | 62.0 | 39.7 | 27.4 | 24.4 | 22.6 | 26.5 | 29.5 | 31.6 | 27.7 | 26.8 |
| 87.5° | 25.6 | 36.4 | 22.9 | 15.4 | 13.5 | 11.7 | 14.2 | 15.7 | 19.0 | 17.5 | 17.2 |
| 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)