

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: P147472

Luminaire Tested: **TMU-E04-LED-E-U-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P147472
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-E04-LED-E-U-5MQ-7060
Description: TALON MEDIUM LED AREA LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (84) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13231.7 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

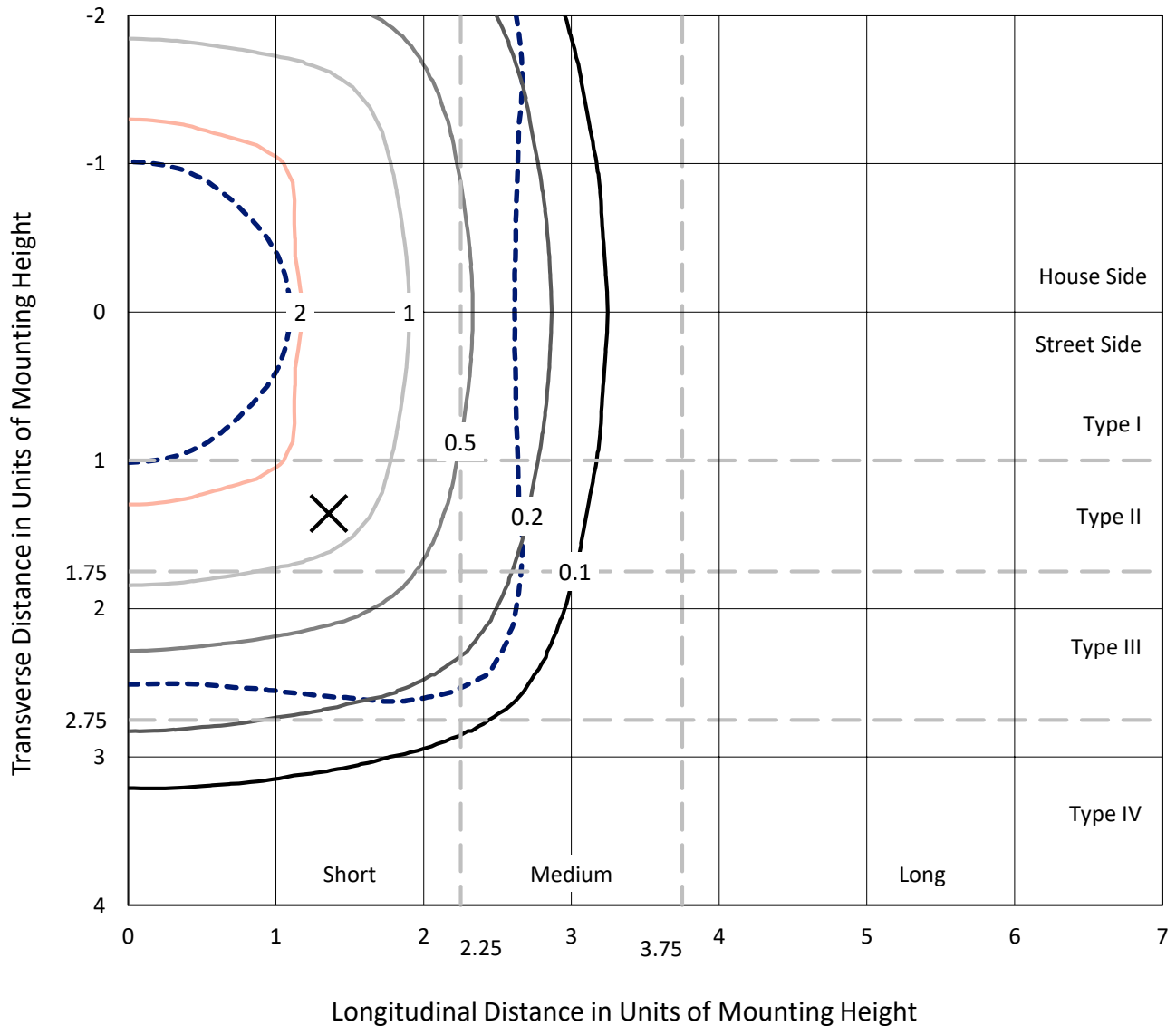
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

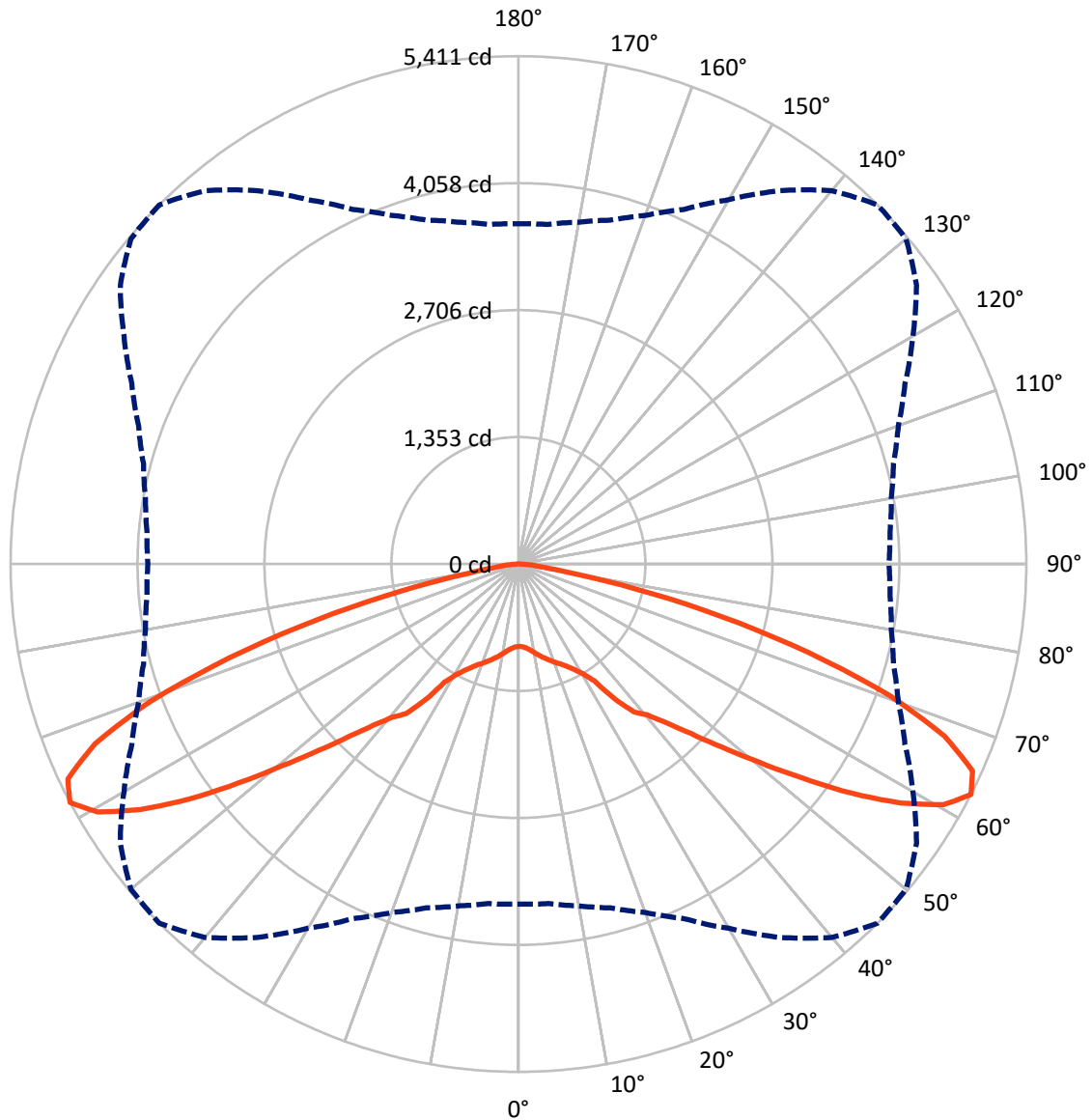


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6615.9 | 0.0 | 6615.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6615.9 | 0.0 | 6615.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13231.7 | 0.0 | 13231.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 88.0 | 0.7 |
| 10°-20° | 297.5 | 2.2 |
| 20°-30° | 575.3 | 4.3 |
| 30°-40° | 1113.9 | 8.4 |
| 40°-50° | 2011.3 | 15.2 |
| 50°-60° | 3497.3 | 26.4 |
| 60°-70° | 3970.3 | 30.0 |
| 70°-80° | 1539.3 | 11.6 |
| 80°-90° | 138.9 | 1.0 |
| 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° | 13231.7 | 100.0 |
| 0°-180° | 13231.7 | 100.0 |

Coefficient of Utilization



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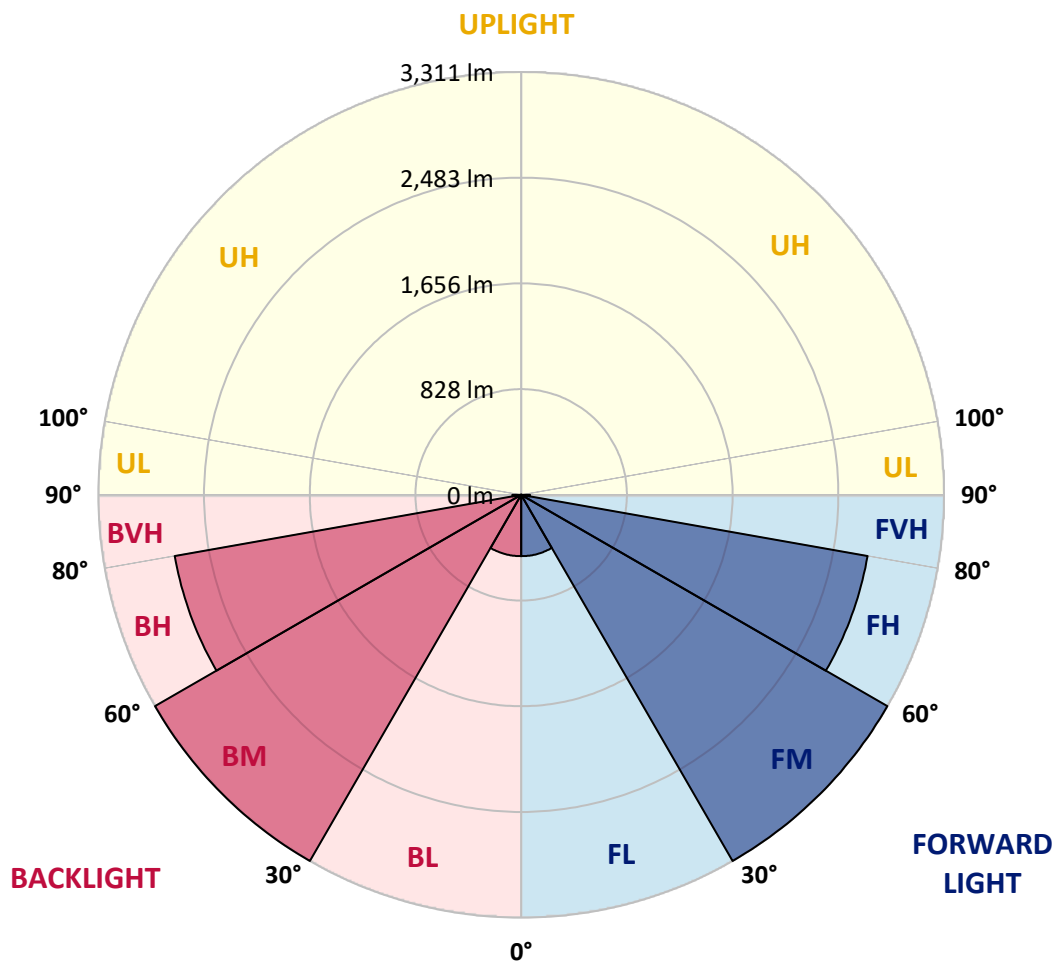
CATALOG NUMBER: TMU-E04-LED-E-U-5MQ-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 480.4 | 3.6 | | | |
| FM | (30°-60°) | 3311.2 | 25.0 | | | |
| FH | (60°-80°) | 2754.8 | 20.8 | | | G2/5000 |
| FVH | (80°-90°) | 69.4 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 480.4 | 3.6 | B1/500 | | |
| BM | (30°-60°) | 3311.2 | 25.0 | B3/5000 | | |
| BH | (60°-80°) | 2754.8 | 20.8 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 69.4 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 878.3 | 878.3 | 878.3 | 878.3 | 878.3 | 878.3 | 878.3 | 878.3 | 878.3 | 878.3 | 878.3 |
| 2.5° | 883.8 | 886.6 | 885.9 | 884.5 | 884.5 | 884.5 | 883.8 | 881.8 | 881.1 | 882.4 | 883.8 |
| 5° | 904.4 | 904.4 | 904.4 | 904.4 | 903.0 | 903.0 | 901.6 | 900.2 | 900.9 | 899.6 | 898.9 |
| 7.5° | 935.8 | 933.8 | 933.8 | 933.0 | 933.1 | 931.7 | 929.6 | 926.9 | 927.6 | 926.9 | 926.2 |
| 10° | 972.8 | 973.4 | 971.4 | 973.4 | 970.0 | 969.4 | 966.6 | 965.2 | 964.6 | 962.5 | 962.5 |
| 12.5° | 1017.2 | 1015.2 | 1015.2 | 1013.8 | 1012.4 | 1011.0 | 1007.0 | 1006.2 | 1003.5 | 1002.2 | 1000.2 |
| 15° | 1059.0 | 1058.2 | 1055.5 | 1052.8 | 1052.1 | 1050.8 | 1045.9 | 1043.2 | 1042.5 | 1039.1 | 1036.4 |
| 17.5° | 1100.6 | 1099.3 | 1095.9 | 1094.5 | 1091.8 | 1089.8 | 1085.6 | 1081.5 | 1079.4 | 1078.1 | 1074.6 |
| 20° | 1145.1 | 1143.8 | 1140.4 | 1137.6 | 1134.2 | 1131.4 | 1125.3 | 1121.9 | 1119.8 | 1117.8 | 1115.0 |
| 22.5° | 1200.6 | 1197.8 | 1192.3 | 1187.6 | 1180.0 | 1177.3 | 1169.1 | 1164.3 | 1160.9 | 1158.2 | 1156.8 |
| 25° | 1260.8 | 1261.4 | 1253.9 | 1247.8 | 1238.8 | 1231.3 | 1221.1 | 1215.6 | 1212.2 | 1209.4 | 1208.8 |
| 27.5° | 1336.0 | 1336.6 | 1329.8 | 1321.0 | 1307.2 | 1299.0 | 1285.4 | 1278.5 | 1276.4 | 1273.8 | 1273.0 |
| 30° | 1455.1 | 1448.8 | 1437.2 | 1422.9 | 1410.6 | 1392.8 | 1372.9 | 1366.1 | 1359.2 | 1357.2 | 1357.2 |
| 32.5° | 1674.0 | 1670.5 | 1661.0 | 1625.4 | 1608.9 | 1572.0 | 1537.2 | 1517.3 | 1494.7 | 1483.8 | 1477.0 |
| 35° | 1827.2 | 1825.8 | 1818.2 | 1806.0 | 1795.6 | 1788.2 | 1767.6 | 1764.2 | 1760.1 | 1760.2 | 1765.6 |
| 37.5° | 1940.0 | 1931.8 | 1930.4 | 1932.5 | 1929.8 | 1931.1 | 1947.6 | 1970.1 | 1989.2 | 1998.8 | 1997.5 |
| 40° | 2107.0 | 2095.3 | 2102.1 | 2097.4 | 2091.2 | 2089.8 | 2095.3 | 2104.2 | 2113.1 | 2113.1 | 2111.0 |
| 42.5° | 2325.1 | 2330.6 | 2333.4 | 2313.6 | 2300.5 | 2297.2 | 2310.1 | 2307.4 | 2316.2 | 2312.8 | 2304.0 |
| 45° | 2649.4 | 2646.0 | 2641.2 | 2617.2 | 2596.8 | 2580.4 | 2583.8 | 2579.0 | 2579.6 | 2574.2 | 2567.4 |
| 47.5° | 2976.4 | 2988.0 | 2968.2 | 2956.6 | 2933.2 | 2921.6 | 2931.2 | 2923.0 | 2938.8 | 2910.0 | 2896.4 |
| 50° | 3293.8 | 3302.0 | 3295.2 | 3278.8 | 3278.8 | 3295.2 | 3306.8 | 3321.8 | 3343.8 | 3310.9 | 3261.6 |
| 52.5° | 3553.8 | 3560.6 | 3570.8 | 3584.6 | 3618.0 | 3653.0 | 3702.2 | 3754.8 | 3796.6 | 3790.4 | 3734.4 |
| 55° | 3712.4 | 3720.6 | 3737.8 | 3785.0 | 3845.2 | 3936.8 | 4048.4 | 4170.8 | 4266.5 | 4313.0 | 4272.0 |
| 57.5° | 3765.8 | 3772.0 | 3818.5 | 3875.2 | 3969.0 | 4105.1 | 4291.8 | 4503.2 | 4687.2 | 4804.2 | 4785.8 |
| 60° | 3753.5 | 3753.5 | 3800.7 | 3878.7 | 4010.0 | 4190.6 | 4454.6 | 4747.5 | 5029.3 | 5204.4 | 5178.4 |
| 62.5° | 3624.2 | 3631.0 | 3698.8 | 3792.5 | 3951.2 | 4167.4 | 4482.0 | 4856.2 | 5193.5 | 5411.0 | 5389.8 |
| 65° | 3341.0 | 3345.8 | 3419.0 | 3530.5 | 3707.7 | 3963.5 | 4307.6 | 4722.1 | 5108.6 | 5318.0 | 5278.3 |
| 67.5° | 2883.4 | 2888.1 | 2947.6 | 3073.5 | 3261.0 | 3528.4 | 3899.9 | 4356.2 | 4734.5 | 4900.0 | 4781.0 |
| 70° | 2293.6 | 2307.4 | 2345.6 | 2479.0 | 2621.4 | 2883.4 | 3225.4 | 3681.7 | 4038.8 | 4195.4 | 4064.1 |
| 72.5° | 1563.1 | 1598.0 | 1644.5 | 1762.8 | 1899.0 | 2116.6 | 2388.8 | 2773.2 | 3059.8 | 3241.1 | 3124.1 |
| 75° | 880.4 | 929.6 | 944.0 | 1033.6 | 1145.8 | 1317.5 | 1516.6 | 1792.2 | 2081.6 | 2228.7 | 2087.8 |
| 77.5° | 380.4 | 420.7 | 438.4 | 480.2 | 567.8 | 639.6 | 760.6 | 946.8 | 1170.4 | 1273.8 | 1104.8 |
| 80° | 187.4 | 197.0 | 204.6 | 217.6 | 242.2 | 265.4 | 322.8 | 404.3 | 496.0 | 519.2 | 413.2 |
| 82.5° | 145.0 | 151.8 | 164.9 | 175.1 | 181.2 | 187.4 | 192.9 | 203.8 | 212.8 | 217.5 | 205.2 |
| 85° | 101.9 | 110.8 | 125.2 | 136.8 | 143.6 | 148.4 | 153.2 | 156.6 | 148.4 | 135.4 | 142.3 |
| 87.5° | 26.6 | 34.9 | 48.6 | 52.6 | 59.5 | 63.0 | 61.6 | 63.6 | 57.4 | 41.8 | 46.6 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 878.3 | 878.3 | 878.3 | 878.3 | 878.3 | 878.3 | 878.3 | 878.3 |
| 2.5° | 883.1 | 882.4 | 883.2 | 883.2 | 883.2 | 882.4 | 882.4 | 882.5 |
| 5° | 898.9 | 898.8 | 899.6 | 898.2 | 898.2 | 898.8 | 898.2 | 897.5 |
| 7.5° | 925.6 | 924.8 | 924.8 | 924.2 | 924.8 | 924.2 | 924.2 | 923.5 |
| 10° | 961.2 | 959.8 | 960.4 | 958.4 | 958.4 | 957.7 | 957.7 | 957.7 |
| 12.5° | 999.4 | 997.4 | 998.0 | 996.0 | 992.6 | 993.3 | 994.0 | 993.3 |
| 15° | 1036.4 | 1034.4 | 1032.2 | 1030.9 | 1028.8 | 1029.5 | 1029.6 | 1028.8 |
| 17.5° | 1074.0 | 1069.9 | 1069.2 | 1067.2 | 1066.4 | 1066.4 | 1066.5 | 1067.1 |
| 20° | 1113.0 | 1110.2 | 1109.6 | 1107.6 | 1106.8 | 1108.8 | 1109.6 | 1108.2 |
| 22.5° | 1154.7 | 1153.4 | 1154.7 | 1153.3 | 1155.4 | 1156.8 | 1157.4 | 1156.1 |
| 25° | 1207.4 | 1206.0 | 1208.0 | 1212.8 | 1215.6 | 1217.0 | 1220.4 | 1219.0 |
| 27.5° | 1275.1 | 1273.8 | 1278.6 | 1285.4 | 1289.5 | 1296.3 | 1299.7 | 1301.1 |
| 30° | 1362.6 | 1368.8 | 1371.6 | 1385.2 | 1388.0 | 1398.9 | 1398.9 | 1403.7 |
| 32.5° | 1489.9 | 1501.6 | 1522.0 | 1543.2 | 1572.7 | 1593.9 | 1593.9 | 1604.8 |
| 35° | 1769.0 | 1773.8 | 1789.5 | 1793.0 | 1799.1 | 1806.0 | 1799.2 | 1804.6 |
| 37.5° | 1983.2 | 1961.9 | 1946.8 | 1925.6 | 1912.6 | 1912.6 | 1914.0 | 1912.7 |
| 40° | 2092.6 | 2084.4 | 2077.6 | 2059.8 | 2057.0 | 2056.3 | 2056.3 | 2059.1 |
| 42.5° | 2288.2 | 2268.4 | 2257.4 | 2242.4 | 2237.6 | 2236.2 | 2235.5 | 2236.9 |
| 45° | 2542.7 | 2510.6 | 2481.2 | 2466.1 | 2453.0 | 2440.8 | 2444.9 | 2444.9 |
| 47.5° | 2838.9 | 2789.0 | 2741.0 | 2715.0 | 2692.5 | 2682.2 | 2675.4 | 2673.3 |
| 50° | 3199.4 | 3129.6 | 3068.0 | 3019.5 | 2986.6 | 2986.0 | 2989.4 | 2967.5 |
| 52.5° | 3641.3 | 3531.2 | 3454.6 | 3388.9 | 3358.1 | 3354.6 | 3343.8 | 3331.4 |
| 55° | 4131.1 | 4000.4 | 3873.9 | 3803.4 | 3763.1 | 3741.2 | 3728.2 | 3707.7 |
| 57.5° | 4636.0 | 4460.1 | 4278.2 | 4165.3 | 4094.2 | 4045.0 | 4018.9 | 4007.3 |
| 60° | 5025.2 | 4785.1 | 4545.0 | 4363.7 | 4245.4 | 4172.2 | 4127.0 | 4108.5 |
| 62.5° | 5178.4 | 4852.8 | 4545.0 | 4306.9 | 4135.9 | 4034.6 | 3973.8 | 3947.1 |
| 65° | 4995.8 | 4610.0 | 4259.7 | 3997.0 | 3806.2 | 3693.3 | 3627.0 | 3598.2 |
| 67.5° | 4485.4 | 4144.8 | 3763.8 | 3502.4 | 3306.1 | 3194.6 | 3122.8 | 3101.6 |
| 70° | 3760.4 | 3412.1 | 3048.2 | 2815.0 | 2639.8 | 2548.8 | 2474.3 | 2465.4 |
| 72.5° | 2825.9 | 2525.6 | 2213.6 | 2020.8 | 1879.8 | 1729.3 | 1691.0 | 1710.2 |
| 75° | 1811.4 | 1530.2 | 1252.6 | 1078.8 | 950.2 | 806.5 | 751.1 | 764.8 |
| 77.5° | 857.8 | 664.2 | 479.6 | 370.8 | 311.2 | 266.1 | 254.5 | 247.6 |
| 80° | 318.1 | 257.9 | 227.8 | 216.2 | 208.0 | 200.4 | 195.0 | 188.8 |
| 82.5° | 205.9 | 201.1 | 195.0 | 192.9 | 186.8 | 177.2 | 159.4 | 151.9 |
| 85° | 153.9 | 153.9 | 145.7 | 146.4 | 141.6 | 129.3 | 112.8 | 104.0 |
| 87.5° | 45.2 | 40.4 | 37.0 | 34.2 | 33.6 | 30.1 | 21.9 | 19.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)