

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: P147487

Luminaire Tested: **TMU-F05-LED-E-U-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P147487
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-F05-LED-E-U-5MQ-7060
Description: TALON MEDIUM LED AREA LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (35) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13653.9 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

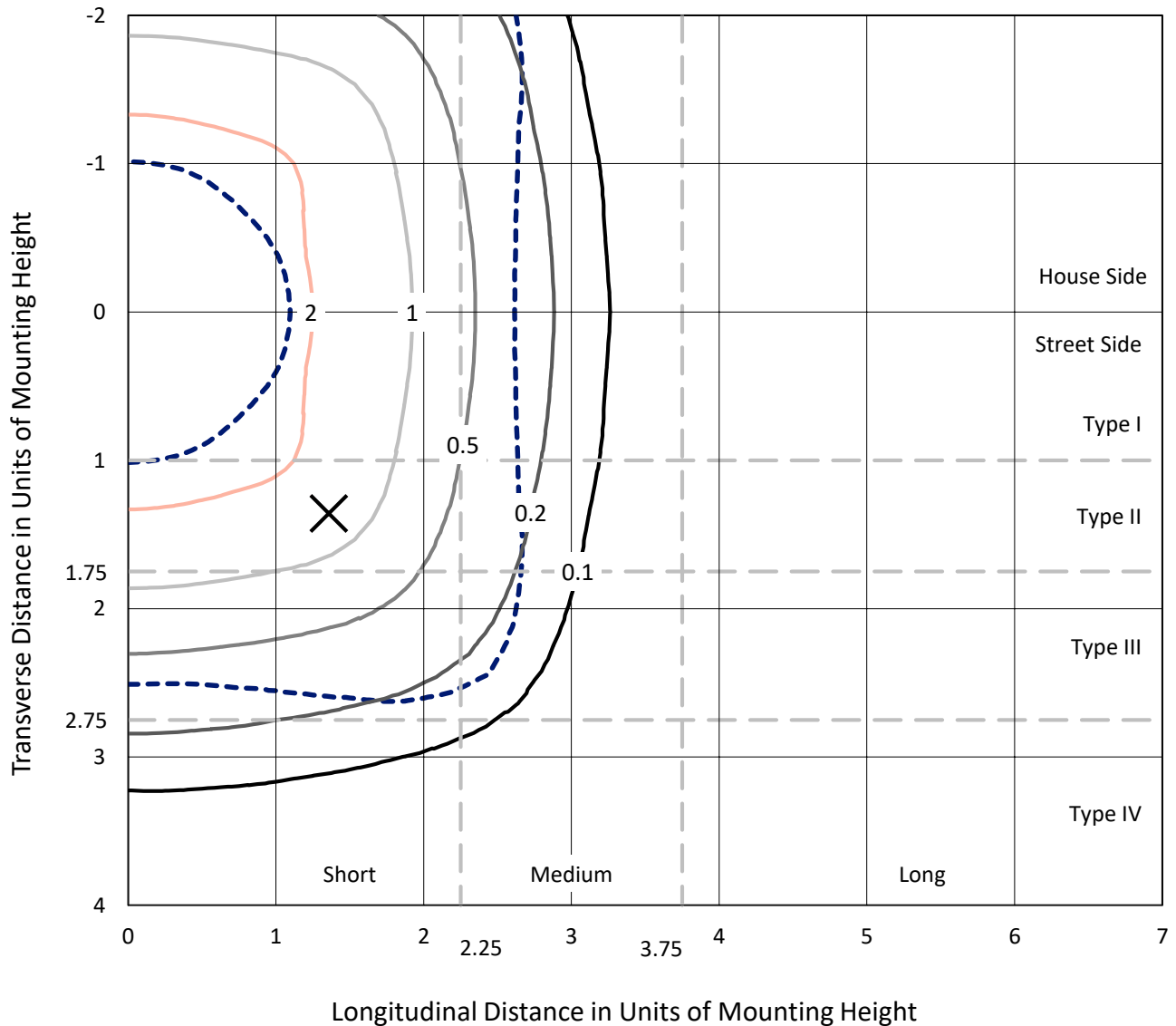
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

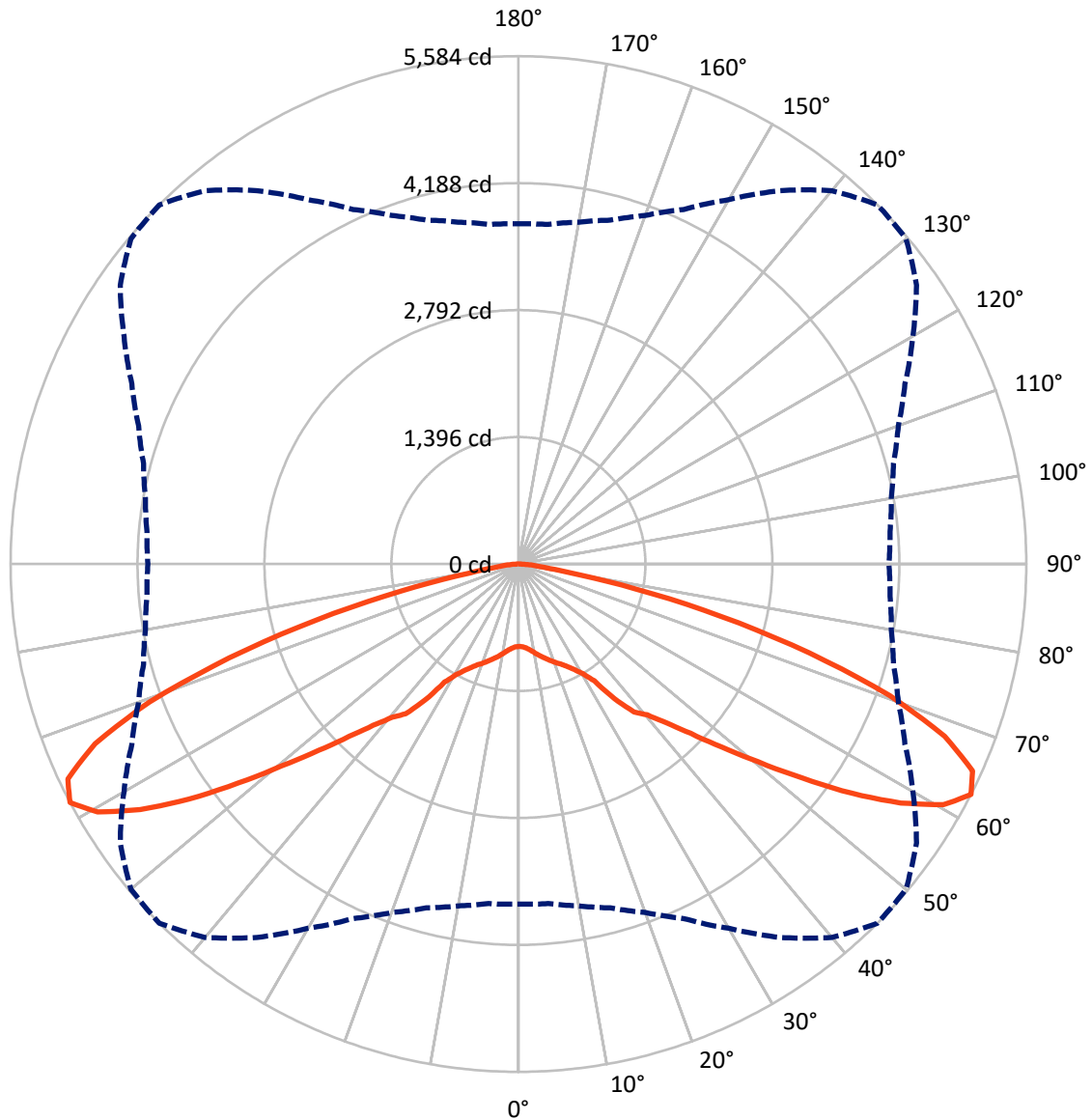
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 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 | 6826.9 | 0.0 | 6826.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6826.9 | 0.0 | 6826.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13653.9 | 0.0 | 13653.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 90.8 | 0.7 |
| 10°-20° | 307.0 | 2.2 |
| 20°-30° | 593.7 | 4.3 |
| 30°-40° | 1149.4 | 8.4 |
| 40°-50° | 2075.4 | 15.2 |
| 50°-60° | 3608.9 | 26.4 |
| 60°-70° | 4097.0 | 30.0 |
| 70°-80° | 1588.4 | 11.6 |
| 80°-90° | 143.3 | 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° | 13653.9 | 100.0 |
| 0°-180° | 13653.9 | 100.0 |

Coefficient of Utilization



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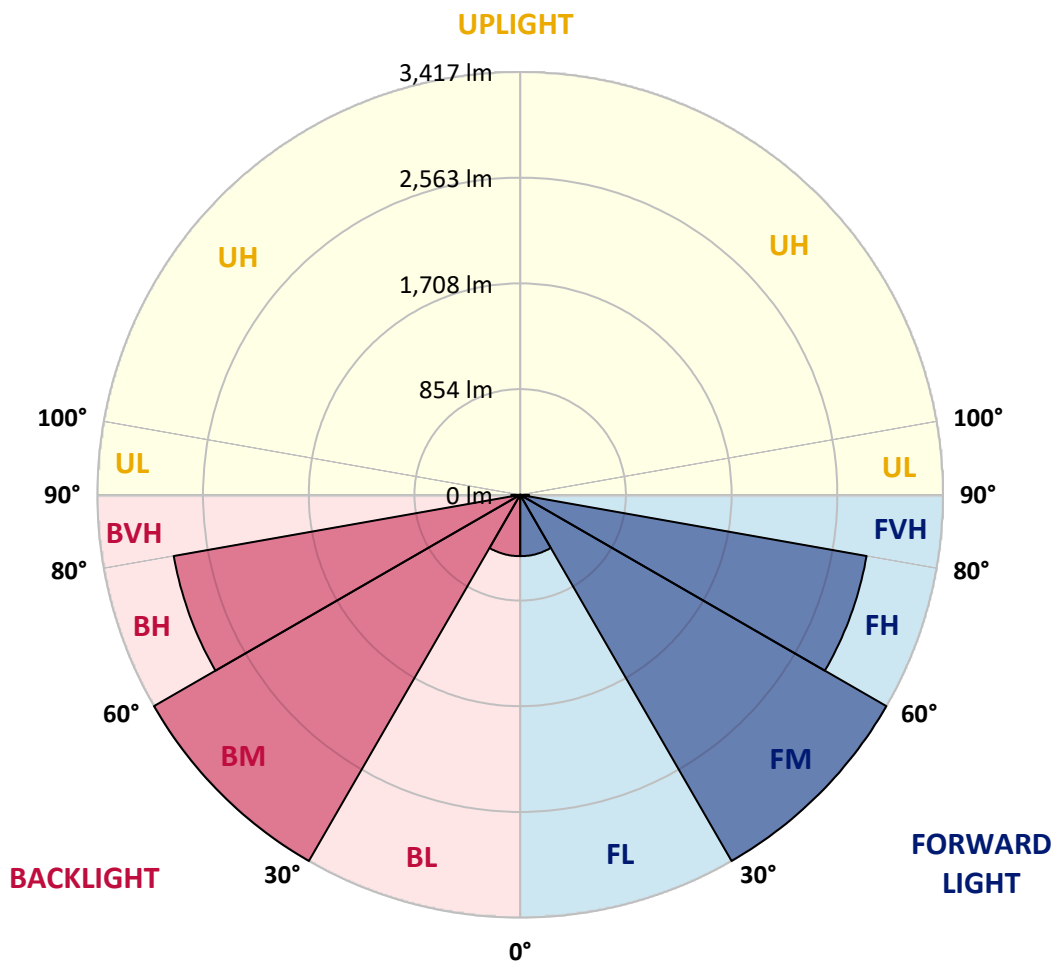
CATALOG NUMBER: TMU-F05-LED-E-U-5MQ-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 495.8 | 3.6 | | | |
| FM | (30°-60°) | 3416.9 | 25.0 | | | |
| FH | (60°-80°) | 2842.7 | 20.8 | | | G2/5000 |
| FVH | (80°-90°) | 71.7 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 495.8 | 3.6 | B1/500 | | |
| BM | (30°-60°) | 3416.9 | 25.0 | B3/5000 | | |
| BH | (60°-80°) | 2842.7 | 20.8 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 71.7 | 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° | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 |
| 2.5° | 912.0 | 914.8 | 914.2 | 912.8 | 912.8 | 912.8 | 912.0 | 909.9 | 909.2 | 910.6 | 912.0 |
| 5° | 933.2 | 933.2 | 933.2 | 933.2 | 931.8 | 931.8 | 930.4 | 929.0 | 929.6 | 928.2 | 927.6 |
| 7.5° | 965.6 | 963.6 | 963.6 | 962.8 | 962.8 | 961.4 | 959.3 | 956.5 | 957.2 | 956.5 | 955.8 |
| 10° | 1003.8 | 1004.5 | 1002.4 | 1004.5 | 1001.0 | 1000.2 | 997.4 | 996.0 | 995.3 | 993.2 | 993.2 |
| 12.5° | 1049.6 | 1047.6 | 1047.6 | 1046.2 | 1044.7 | 1043.3 | 1039.0 | 1038.4 | 1035.6 | 1034.2 | 1032.0 |
| 15° | 1092.7 | 1092.0 | 1089.2 | 1086.4 | 1085.6 | 1084.2 | 1079.3 | 1076.5 | 1075.8 | 1072.2 | 1069.4 |
| 17.5° | 1135.8 | 1134.4 | 1130.8 | 1129.4 | 1126.6 | 1124.5 | 1120.2 | 1116.0 | 1113.9 | 1112.5 | 1108.9 |
| 20° | 1181.7 | 1180.2 | 1176.8 | 1173.9 | 1170.4 | 1167.6 | 1161.2 | 1157.6 | 1155.6 | 1153.4 | 1150.6 |
| 22.5° | 1238.8 | 1236.1 | 1230.4 | 1225.4 | 1217.7 | 1214.8 | 1206.4 | 1201.4 | 1197.9 | 1195.1 | 1193.7 |
| 25° | 1301.0 | 1301.6 | 1293.9 | 1287.6 | 1278.4 | 1270.6 | 1260.0 | 1254.4 | 1250.8 | 1248.0 | 1247.4 |
| 27.5° | 1378.6 | 1379.4 | 1372.2 | 1363.1 | 1349.0 | 1340.5 | 1326.4 | 1319.3 | 1317.2 | 1314.4 | 1313.7 |
| 30° | 1501.4 | 1495.1 | 1483.1 | 1468.3 | 1455.6 | 1437.2 | 1416.8 | 1409.6 | 1402.6 | 1400.5 | 1400.5 |
| 32.5° | 1727.3 | 1723.8 | 1713.9 | 1677.2 | 1660.3 | 1622.2 | 1586.2 | 1565.6 | 1542.4 | 1531.1 | 1524.0 |
| 35° | 1885.4 | 1884.0 | 1876.3 | 1863.6 | 1853.0 | 1845.2 | 1824.0 | 1820.6 | 1816.3 | 1816.3 | 1822.0 |
| 37.5° | 2002.0 | 1993.4 | 1992.0 | 1994.2 | 1991.3 | 1992.8 | 2009.7 | 2033.0 | 2052.8 | 2062.6 | 2061.2 |
| 40° | 2174.1 | 2162.2 | 2169.2 | 2164.3 | 2158.0 | 2156.6 | 2162.2 | 2171.3 | 2180.5 | 2180.5 | 2178.4 |
| 42.5° | 2399.4 | 2405.0 | 2407.8 | 2387.4 | 2374.0 | 2370.4 | 2383.8 | 2381.0 | 2390.2 | 2386.6 | 2377.4 |
| 45° | 2733.9 | 2730.4 | 2725.4 | 2700.8 | 2679.6 | 2662.6 | 2666.2 | 2661.2 | 2662.0 | 2656.3 | 2649.2 |
| 47.5° | 3071.4 | 3083.4 | 3062.9 | 3050.8 | 3026.8 | 3014.9 | 3024.8 | 3016.3 | 3032.5 | 3002.9 | 2988.8 |
| 50° | 3398.9 | 3407.4 | 3400.4 | 3383.4 | 3383.4 | 3400.3 | 3412.3 | 3427.8 | 3450.4 | 3416.6 | 3365.7 |
| 52.5° | 3667.1 | 3674.2 | 3684.8 | 3698.9 | 3733.4 | 3769.5 | 3820.3 | 3874.6 | 3917.7 | 3911.4 | 3853.5 |
| 55° | 3830.9 | 3839.4 | 3857.0 | 3905.8 | 3967.8 | 4062.4 | 4177.5 | 4303.8 | 4402.7 | 4450.7 | 4408.3 |
| 57.5° | 3886.0 | 3892.3 | 3940.3 | 3999.0 | 4095.6 | 4236.1 | 4428.8 | 4647.0 | 4836.8 | 4957.5 | 4938.5 |
| 60° | 3873.2 | 3873.2 | 3922.0 | 4002.4 | 4138.0 | 4324.3 | 4596.8 | 4899.0 | 5189.8 | 5370.5 | 5343.6 |
| 62.5° | 3739.8 | 3746.9 | 3816.8 | 3913.5 | 4077.2 | 4300.3 | 4625.0 | 5011.2 | 5359.2 | 5583.6 | 5561.8 |
| 65° | 3447.6 | 3452.6 | 3528.1 | 3643.2 | 3826.0 | 4090.0 | 4445.0 | 4872.8 | 5271.6 | 5487.6 | 5446.7 |
| 67.5° | 2975.4 | 2980.3 | 3041.7 | 3171.6 | 3365.0 | 3641.0 | 4024.3 | 4495.2 | 4885.5 | 5056.3 | 4933.5 |
| 70° | 2366.8 | 2381.0 | 2420.5 | 2558.2 | 2705.0 | 2975.4 | 3328.3 | 3799.1 | 4167.6 | 4329.2 | 4193.7 |
| 72.5° | 1613.0 | 1649.0 | 1697.0 | 1819.1 | 1959.6 | 2184.0 | 2465.0 | 2861.7 | 3157.4 | 3344.5 | 3223.8 |
| 75° | 908.5 | 959.3 | 974.1 | 1066.6 | 1182.4 | 1359.6 | 1564.9 | 1849.4 | 2148.0 | 2299.8 | 2154.4 |
| 77.5° | 392.4 | 434.2 | 452.4 | 495.6 | 585.9 | 660.0 | 785.0 | 977.0 | 1207.8 | 1314.4 | 1140.0 |
| 80° | 193.4 | 203.3 | 211.1 | 224.4 | 249.9 | 273.9 | 333.2 | 417.2 | 511.8 | 535.8 | 426.4 |
| 82.5° | 149.6 | 156.8 | 170.1 | 180.7 | 187.1 | 193.4 | 199.0 | 210.4 | 219.5 | 224.4 | 211.8 |
| 85° | 105.2 | 114.4 | 129.2 | 141.2 | 148.2 | 153.2 | 158.1 | 161.6 | 153.2 | 139.8 | 146.8 |
| 87.5° | 27.6 | 36.0 | 50.1 | 54.4 | 61.4 | 65.0 | 63.6 | 65.6 | 59.3 | 43.0 | 48.0 |
| 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° | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 |
| 2.5° | 911.4 | 910.6 | 911.3 | 911.3 | 911.3 | 910.6 | 910.6 | 910.6 |
| 5° | 927.6 | 927.6 | 928.2 | 926.8 | 926.8 | 927.6 | 926.8 | 926.1 |
| 7.5° | 955.0 | 954.4 | 954.4 | 953.7 | 954.4 | 953.7 | 953.6 | 953.0 |
| 10° | 991.8 | 990.4 | 991.0 | 989.0 | 989.0 | 988.2 | 988.2 | 988.3 |
| 12.5° | 1031.3 | 1029.2 | 1029.9 | 1027.8 | 1024.2 | 1024.9 | 1025.6 | 1025.0 |
| 15° | 1069.4 | 1067.3 | 1065.2 | 1063.8 | 1061.6 | 1062.4 | 1062.4 | 1061.7 |
| 17.5° | 1108.2 | 1104.0 | 1103.4 | 1101.2 | 1100.5 | 1100.5 | 1100.5 | 1101.2 |
| 20° | 1148.5 | 1145.7 | 1145.0 | 1142.8 | 1142.2 | 1144.2 | 1144.9 | 1143.6 |
| 22.5° | 1191.6 | 1190.2 | 1191.6 | 1190.2 | 1192.2 | 1193.7 | 1194.4 | 1193.0 |
| 25° | 1245.9 | 1244.5 | 1246.6 | 1251.6 | 1254.4 | 1255.8 | 1259.4 | 1257.9 |
| 27.5° | 1315.8 | 1314.4 | 1319.4 | 1326.4 | 1330.6 | 1337.6 | 1341.2 | 1342.6 |
| 30° | 1406.2 | 1412.5 | 1415.3 | 1429.4 | 1432.2 | 1443.6 | 1443.6 | 1448.5 |
| 32.5° | 1537.4 | 1549.4 | 1570.6 | 1592.5 | 1622.8 | 1644.8 | 1644.8 | 1656.0 |
| 35° | 1825.4 | 1830.4 | 1846.6 | 1850.2 | 1856.5 | 1863.6 | 1856.5 | 1862.2 |
| 37.5° | 2046.4 | 2024.5 | 2009.0 | 1987.1 | 1973.7 | 1973.6 | 1975.1 | 1973.7 |
| 40° | 2159.4 | 2150.8 | 2143.8 | 2125.5 | 2122.6 | 2122.0 | 2121.9 | 2124.7 |
| 42.5° | 2361.2 | 2340.8 | 2329.4 | 2314.0 | 2309.0 | 2307.6 | 2306.9 | 2308.3 |
| 45° | 2623.9 | 2590.6 | 2560.2 | 2544.8 | 2531.4 | 2518.6 | 2522.9 | 2522.9 |
| 47.5° | 2929.4 | 2878.0 | 2828.5 | 2801.7 | 2778.4 | 2767.8 | 2760.8 | 2758.6 |
| 50° | 3301.5 | 3229.4 | 3166.0 | 3115.8 | 3082.0 | 3081.2 | 3084.8 | 3062.2 |
| 52.5° | 3757.4 | 3643.8 | 3564.8 | 3497.0 | 3465.2 | 3461.7 | 3450.4 | 3437.7 |
| 55° | 4262.9 | 4128.0 | 3997.5 | 3924.8 | 3883.1 | 3860.6 | 3847.2 | 3826.0 |
| 57.5° | 4783.8 | 4602.4 | 4414.7 | 4298.2 | 4224.8 | 4174.0 | 4147.2 | 4135.1 |
| 60° | 5185.5 | 4937.8 | 4690.0 | 4502.9 | 4380.8 | 4305.3 | 4258.6 | 4239.6 |
| 62.5° | 5343.6 | 5007.6 | 4690.0 | 4444.3 | 4267.8 | 4163.4 | 4100.6 | 4073.0 |
| 65° | 5155.2 | 4757.0 | 4395.6 | 4124.6 | 3927.6 | 3811.1 | 3742.7 | 3713.0 |
| 67.5° | 4628.6 | 4277.0 | 3883.8 | 3614.2 | 3411.6 | 3296.6 | 3222.4 | 3200.5 |
| 70° | 3880.3 | 3521.0 | 3145.5 | 2904.8 | 2724.0 | 2630.2 | 2553.2 | 2544.1 |
| 72.5° | 2916.0 | 2606.2 | 2284.3 | 2085.2 | 1939.8 | 1784.5 | 1745.0 | 1764.7 |
| 75° | 1869.2 | 1579.1 | 1292.4 | 1113.2 | 980.5 | 832.2 | 775.0 | 789.2 |
| 77.5° | 885.2 | 685.4 | 494.8 | 382.6 | 321.2 | 274.6 | 262.6 | 255.5 |
| 80° | 328.2 | 266.1 | 235.0 | 223.1 | 214.6 | 206.8 | 201.1 | 194.8 |
| 82.5° | 212.5 | 207.6 | 201.2 | 199.0 | 192.7 | 182.9 | 164.5 | 156.7 |
| 85° | 158.8 | 158.8 | 150.4 | 151.0 | 146.1 | 133.4 | 116.5 | 107.3 |
| 87.5° | 46.6 | 41.6 | 38.2 | 35.3 | 34.6 | 31.0 | 22.6 | 19.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)