

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: P149066

Luminaire Tested: **TMU-F02-LED-E-U-RW-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149066  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TMU-F02-LED-E-U-RW-7050  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (14) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5292.4 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G1

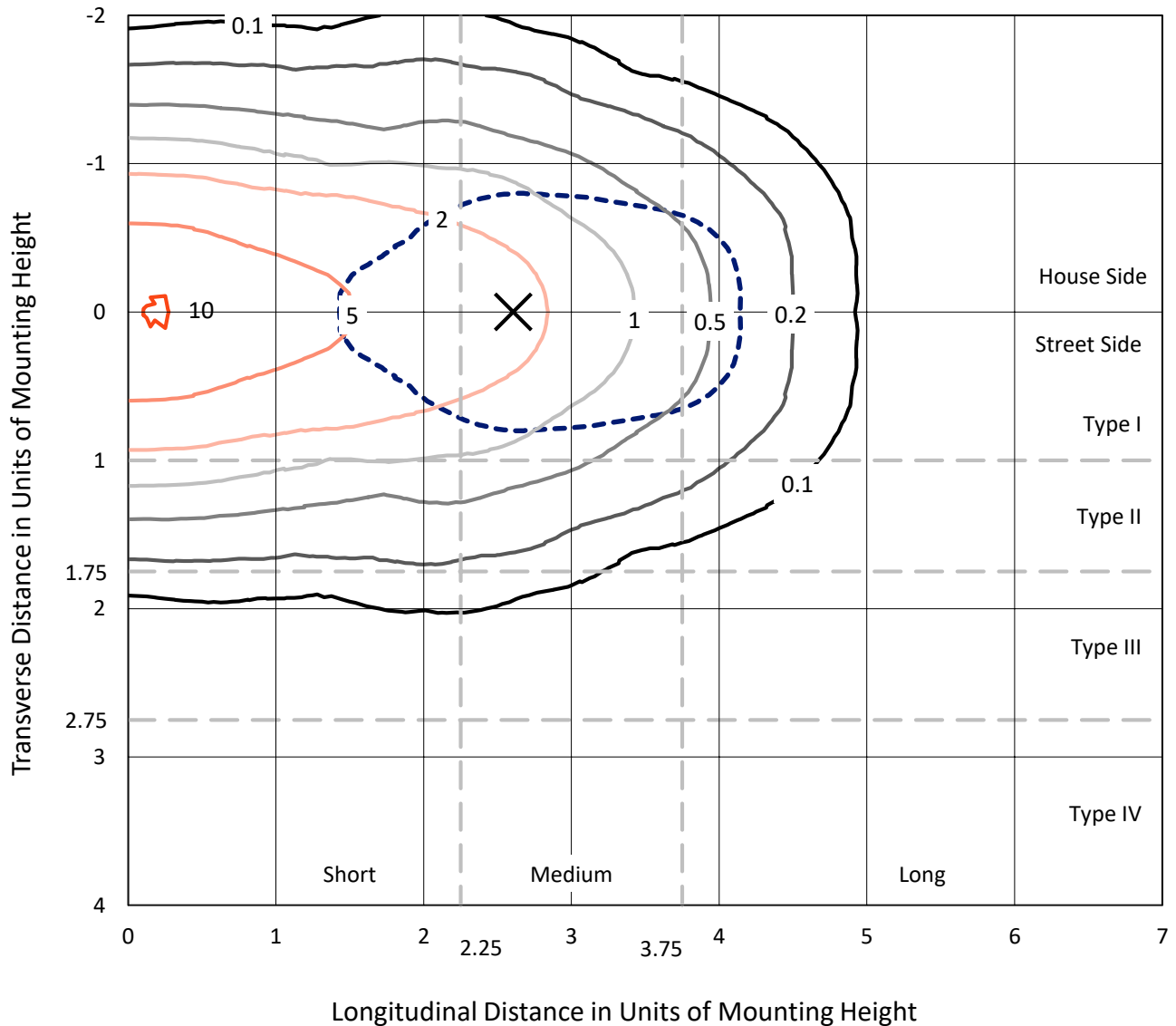
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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 CATALOG NUMBER: TMU-F02-LED-E-U-RW-7050

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

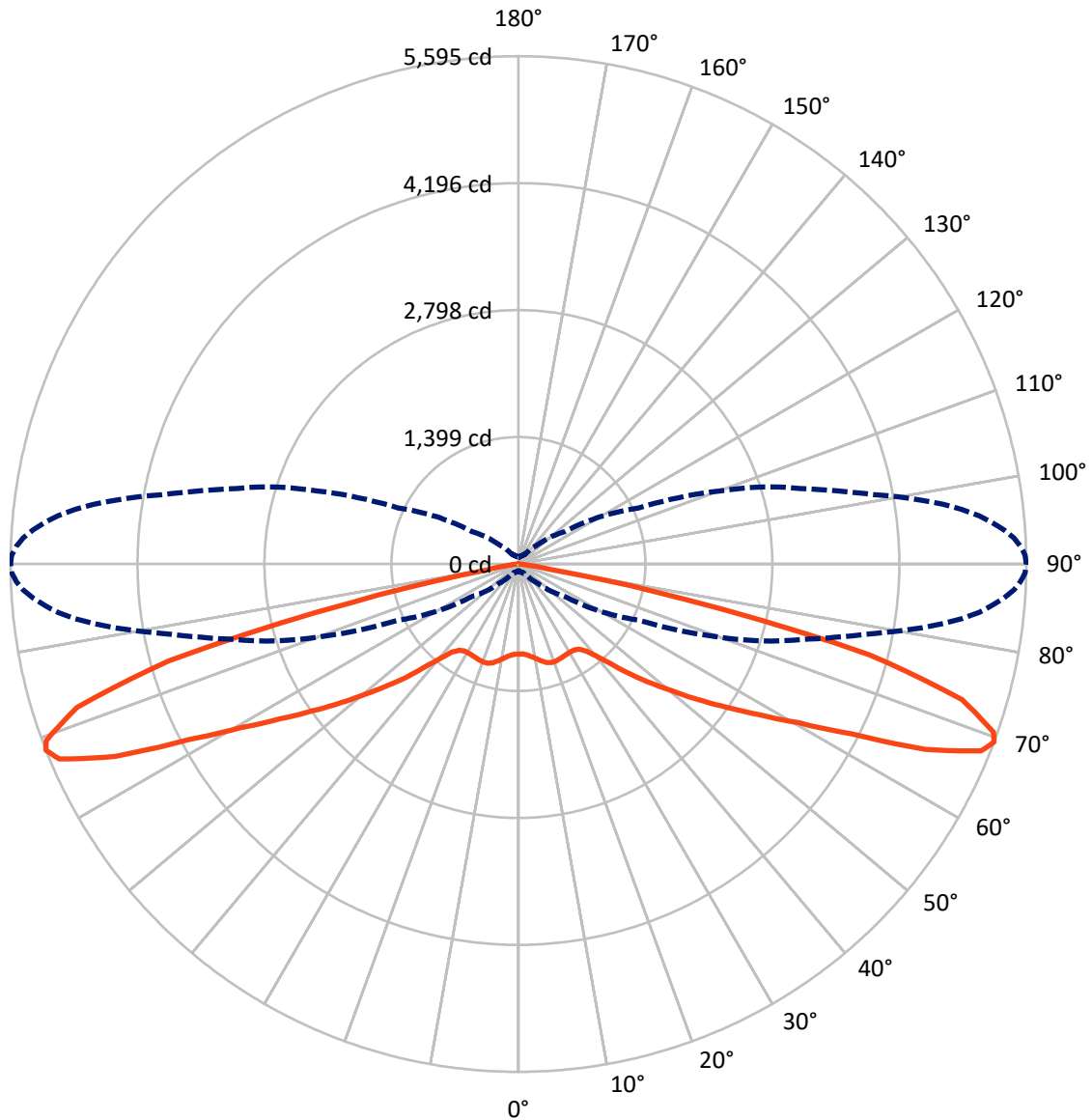


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type V - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2646.2	0.0	2646.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2646.2	0.0	2646.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5292.4	0.0	5292.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.3	1.8
10°-20°	306.8	5.8
20°-30°	497.1	9.4
30°-40°	619.5	11.7
40°-50°	774.2	14.6
50°-60°	956.0	18.1
60°-70°	1187.8	22.4
70°-80°	788.6	14.9
80°-90°	65.1	1.2
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°	5292.4	100.0
0°-180°	5292.4	100.0



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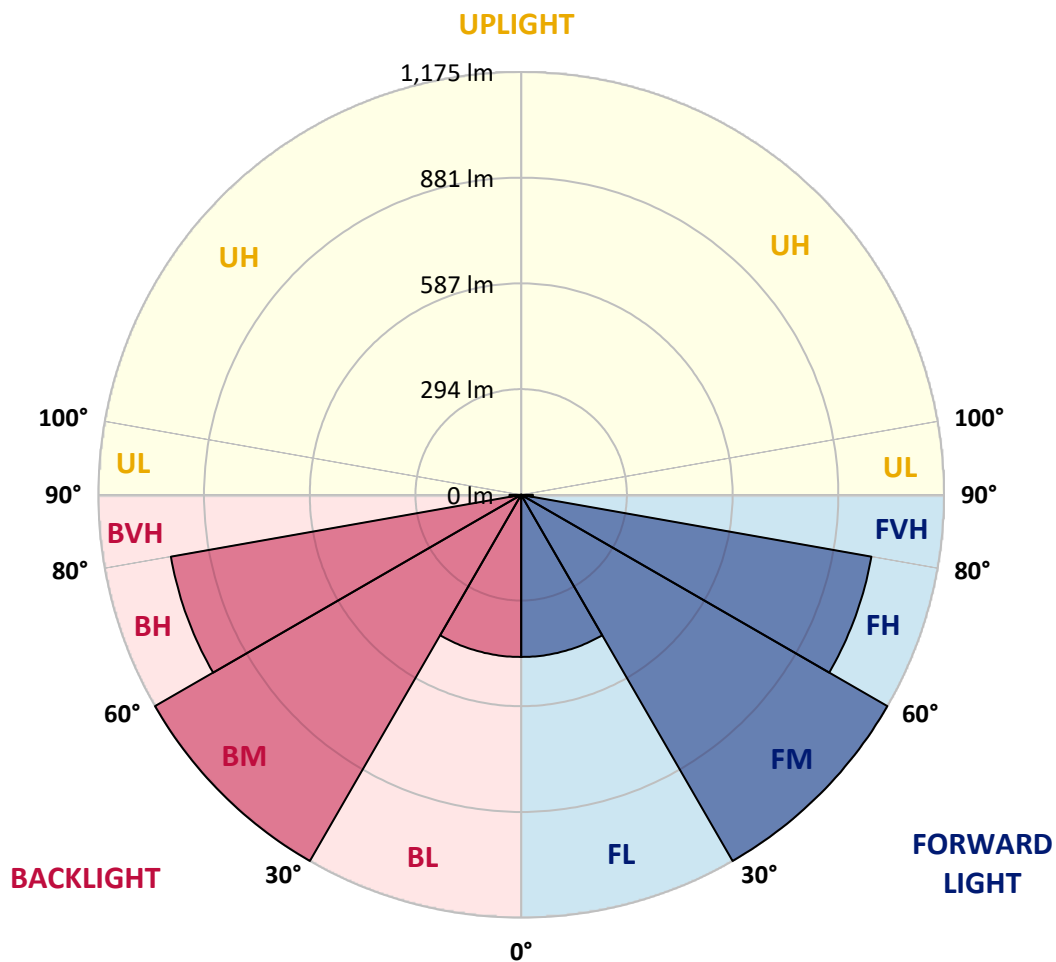
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.6	8.5			
FM	(30°-60°)	1174.9	22.2			
FH	(60°-80°)	988.2	18.7			G1/1800
FVH	(80°-90°)	32.6	0.6			G1/100
BL	(0°-30°)	450.6	8.5	B1/500		
BM	(30°-60°)	1174.9	22.2	B2/2500		
BH	(60°-80°)	988.2	18.7	B2/1000		G1/1800
BVH	(80°-90°)	32.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6
2.5°	996.2	997.0	996.4	997.6	997.3	997.3	996.8	995.6	995.5	995.3	995.2
5°	1005.8	1004.6	1006.3	1008.0	1007.4	1007.7	1007.4	1007.4	1007.3	1007.2	1007.1
7.5°	1015.9	1015.6	1016.8	1021.2	1021.9	1023.6	1025.5	1026.9	1027.0	1027.0	1027.1
10°	1024.7	1025.0	1027.8	1034.2	1037.7	1043.0	1048.4	1052.6	1052.9	1053.2	1053.5
12.5°	1031.8	1032.0	1036.3	1046.4	1054.6	1064.8	1076.4	1082.8	1083.4	1083.9	1084.5
15°	1032.3	1033.2	1040.5	1057.2	1073.5	1090.2	1104.0	1112.8	1113.2	1113.7	1114.1
17.5°	1025.0	1025.5	1038.0	1062.5	1089.9	1115.8	1130.3	1134.2	1134.4	1134.6	1134.7
20°	1005.8	1007.2	1024.7	1061.1	1102.9	1136.8	1151.8	1146.4	1145.8	1145.3	1144.8
22.5°	974.7	974.4	997.3	1046.4	1105.4	1153.2	1166.4	1152.3	1150.6	1149.0	1147.3
25°	924.4	927.8	954.6	1013.4	1091.0	1156.8	1176.9	1155.4	1153.0	1150.6	1148.2
27.5°	870.0	872.0	900.4	963.4	1057.4	1144.1	1182.0	1161.6	1159.0	1156.3	1153.6
30°	806.4	809.0	839.4	905.2	1003.5	1111.4	1180.6	1175.7	1172.6	1169.4	1166.3
32.5°	744.3	747.2	774.6	846.5	946.8	1066.4	1172.1	1195.8	1192.6	1189.4	1186.1
35°	680.0	684.2	717.5	790.3	892.0	1016.5	1159.0	1221.5	1219.7	1218.0	1216.2
37.5°	626.6	627.4	659.6	736.1	841.2	968.8	1141.8	1254.0	1255.3	1256.6	1257.9
40°	567.0	572.3	604.6	685.3	795.1	928.4	1125.5	1298.0	1304.7	1311.5	1318.2
42.5°	513.6	514.2	546.9	630.2	745.2	896.0	1116.4	1351.1	1365.5	1379.9	1394.4
45°	457.4	459.6	489.4	569.8	687.6	857.6	1116.2	1412.4	1435.4	1458.5	1481.5
47.5°	404.3	405.2	436.5	511.4	621.4	803.8	1114.2	1478.2	1509.5	1540.9	1572.3
50°	353.5	352.6	383.4	455.4	556.2	733.6	1097.0	1552.7	1592.3	1631.9	1671.5
52.5°	295.4	299.3	331.2	400.1	497.0	662.2	1046.7	1634.3	1681.7	1729.1	1776.4
55°	238.3	240.0	274.2	338.6	436.8	595.4	959.2	1709.4	1765.3	1821.1	1877.0
57.5°	175.6	180.7	210.6	274.2	375.8	539.3	848.0	1748.4	1816.3	1884.3	1952.2
60°	124.0	127.9	154.4	207.8	308.9	480.3	752.2	1726.6	1814.9	1903.3	1991.6
62.5°	96.6	99.7	120.8	155.6	240.8	421.2	683.6	1656.3	1776.5	1896.6	2016.8
65°	84.7	87.6	106.8	124.5	179.8	361.1	646.0	1582.0	1740.9	1899.8	2058.6
67.5°	76.5	79.9	96.6	109.0	146.6	315.2	636.2	1535.2	1715.1	1895.0	2075.0
69°	72.8	76.2	91.2	101.6	136.1	298.7	619.2	1461.4	1640.3	1819.2	1998.1
70°	70.6	73.4	87.2	98.0	132.7	287.4	591.0	1369.4	1545.1	1720.8	1896.4
72.5°	65.5	66.9	79.1	89.5	123.1	232.4	454.6	1017.0	1169.3	1321.6	1473.9
75°	57.9	59.6	70.8	81.0	96.0	144.3	287.8	629.1	742.8	856.4	970.1
77.5°	50.0	51.4	61.2	77.4	74.6	90.1	172.0	350.1	416.0	482.0	547.9
80°	40.1	41.8	50.6	76.8	61.6	70.0	123.6	244.8	262.6	280.4	298.2
82.5°	29.4	30.8	39.6	62.2	47.2	52.8	94.3	207.5	213.7	219.9	226.1
85°	15.0	15.2	25.1	37.8	29.9	27.4	53.1	142.0	146.0	150.0	153.9
87.5°	2.6	2.6	5.6	6.5	7.4	4.5	6.8	24.2	25.0	25.8	26.5
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):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6
2.5°	995.0	994.9	994.4	994.5	994.8	994.6	995.0	995.1	995.4	994.3	994.1
5°	1007.0	1006.9	1006.8	1006.8	1007.0	1006.9	1007.2	1007.6	1007.5	1006.8	1006.7
7.5°	1027.2	1027.2	1027.5	1027.2	1027.8	1027.5	1027.0	1027.8	1028.5	1028.5	1029.2
10°	1053.9	1054.2	1055.2	1055.0	1056.0	1055.9	1056.0	1057.0	1057.6	1057.8	1058.4
12.5°	1085.1	1085.6	1086.2	1086.7	1087.7	1087.1	1088.5	1089.1	1089.9	1091.6	1090.8
15°	1114.6	1115.0	1116.6	1116.7	1117.6	1118.0	1119.3	1119.8	1120.0	1121.4	1121.6
17.5°	1134.9	1135.1	1135.6	1135.4	1136.2	1135.9	1136.8	1137.2	1138.0	1138.7	1140.0
20°	1144.2	1143.7	1143.4	1143.1	1142.5	1141.6	1141.8	1142.3	1142.4	1143.1	1144.0
22.5°	1145.6	1144.0	1142.3	1141.1	1139.4	1137.9	1136.5	1136.6	1136.7	1136.6	1137.2
25°	1145.8	1143.4	1140.7	1137.5	1135.1	1131.8	1129.2	1128.9	1128.1	1128.2	1128.5
27.5°	1150.9	1148.2	1144.4	1140.7	1135.5	1131.2	1126.9	1125.4	1123.8	1122.9	1122.5
30°	1163.2	1160.0	1155.6	1150.8	1145.2	1138.4	1132.2	1130.3	1128.1	1126.2	1124.6
32.5°	1182.9	1179.7	1174.7	1169.8	1162.3	1155.6	1149.5	1146.4	1143.3	1139.9	1136.8
35°	1214.4	1212.6	1208.2	1203.8	1198.3	1193.1	1187.6	1184.1	1178.9	1176.3	1172.5
37.5°	1259.2	1260.5	1260.4	1261.0	1259.4	1256.8	1252.8	1249.1	1247.5	1240.4	1235.9
40°	1325.0	1331.7	1337.9	1342.7	1346.9	1351.1	1354.8	1352.6	1353.3	1351.4	1348.7
42.5°	1408.8	1423.2	1436.4	1449.6	1459.1	1474.0	1484.4	1487.6	1496.0	1499.3	1505.4
45°	1504.5	1527.6	1549.7	1570.2	1589.2	1610.5	1631.2	1646.6	1663.4	1682.5	1701.6
47.5°	1603.6	1635.0	1667.6	1694.3	1721.8	1753.3	1780.8	1804.0	1834.3	1862.3	1893.2
50°	1711.2	1750.8	1787.9	1820.8	1856.2	1892.5	1930.2	1964.3	2005.2	2050.0	2098.5
52.5°	1823.8	1871.2	1914.2	1955.5	1997.0	2038.6	2078.8	2126.9	2177.3	2236.5	2297.1
55°	1932.8	1988.7	2037.4	2083.3	2130.9	2177.4	2218.8	2283.2	2345.1	2415.8	2494.9
57.5°	2020.2	2088.2	2144.4	2199.0	2252.6	2302.0	2352.9	2425.6	2504.5	2587.1	2687.4
60°	2079.9	2168.2	2240.0	2305.6	2371.4	2433.6	2492.1	2587.1	2681.0	2783.6	2908.4
62.5°	2137.0	2257.2	2350.8	2440.2	2529.0	2608.8	2681.5	2801.0	2923.6	3050.5	3199.0
65°	2217.5	2376.3	2514.2	2638.9	2761.8	2879.1	2987.9	3139.3	3294.1	3461.0	3638.4
67.5°	2254.9	2434.8	2614.4	2782.4	2938.5	3087.0	3226.8	3409.8	3592.0	3785.5	3999.9
69°	2177.0	2355.8	2547.8	2731.3	2903.8	3061.4	3212.6	3399.5	3588.9	3786.5	4002.7
70°	2072.1	2247.7	2441.5	2633.3	2798.3	2962.4	3119.2	3304.6	3496.5	3694.6	3920.9
72.5°	1626.2	1778.4	1967.4	2153.6	2319.1	2483.8	2636.1	2825.8	3019.0	3227.1	3441.4
75°	1083.8	1197.5	1338.3	1511.0	1662.8	1808.3	1955.9	2116.4	2304.8	2476.4	2672.4
77.5°	613.8	679.8	761.6	873.9	982.8	1069.9	1175.2	1250.7	1360.0	1454.5	1554.3
80°	316.0	333.8	358.1	385.1	400.5	398.0	413.6	398.2	401.6	389.0	375.5
82.5°	232.3	238.5	249.5	254.9	254.4	236.6	217.7	191.5	168.4	144.2	121.9
85°	157.9	161.8	164.6	168.7	167.6	159.9	142.8	120.1	97.9	78.6	62.8
87.5°	27.3	28.1	27.9	30.2	30.3	28.1	23.2	19.8	16.7	12.4	8.8
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):**

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6
2.5°	993.9	993.9	994.4	993.9	993.9	993.9	993.6	994.2	993.9	993.0	992.2
5°	1006.8	1006.0	1005.8	1006.4	1006.9	1005.8	1006.6	1007.4	1006.0	1006.3	1005.8
7.5°	1028.6	1028.4	1028.0	1028.6	1028.6	1028.4	1028.6	1027.8	1027.2	1028.1	1028.9
10°	1057.8	1057.4	1058.0	1058.0	1059.1	1058.6	1058.2	1059.2	1058.6	1058.0	1058.3
12.5°	1091.9	1091.0	1092.4	1092.4	1093.2	1093.3	1093.0	1093.3	1093.0	1092.2	1091.6
15°	1122.4	1121.2	1121.6	1123.8	1123.5	1124.1	1124.0	1123.5	1123.2	1123.0	1123.2
17.5°	1140.8	1140.2	1140.2	1141.3	1142.2	1141.8	1141.8	1141.8	1141.6	1141.8	1142.4
20°	1144.1	1144.2	1144.4	1145.6	1146.9	1146.1	1146.1	1146.6	1146.1	1146.6	1146.9
22.5°	1137.6	1138.2	1138.8	1140.2	1140.4	1140.4	1140.4	1140.7	1141.3	1141.3	1141.9
25°	1128.6	1129.2	1130.0	1131.2	1132.3	1132.2	1132.2	1132.8	1132.8	1133.1	1133.4
27.5°	1121.8	1122.4	1123.2	1124.4	1125.8	1125.8	1125.8	1126.3	1126.4	1126.6	1127.2
30°	1122.7	1121.6	1122.4	1123.0	1123.8	1123.8	1123.5	1123.8	1124.1	1124.0	1124.4
32.5°	1134.8	1132.2	1131.4	1131.2	1131.4	1130.6	1130.3	1129.7	1129.2	1129.2	1128.9
35°	1167.0	1163.0	1162.8	1160.5	1158.2	1155.9	1156.3	1154.6	1155.2	1153.7	1152.6
37.5°	1233.0	1228.5	1231.4	1226.6	1223.4	1221.2	1218.6	1215.3	1213.3	1215.8	1215.8
40°	1351.4	1348.2	1347.4	1348.2	1345.4	1346.8	1340.6	1338.9	1335.2	1337.8	1341.2
42.5°	1514.8	1512.8	1523.6	1525.6	1526.7	1528.4	1529.6	1520.2	1519.9	1518.0	1512.3
45°	1716.8	1728.6	1728.0	1741.0	1741.6	1737.6	1739.3	1735.1	1733.4	1727.2	1734.8
47.5°	1924.3	1946.8	1955.4	1958.2	1968.9	1971.4	1961.3	1957.8	1963.8	1953.6	1955.1
50°	2147.0	2171.3	2191.1	2204.4	2212.0	2212.6	2205.0	2203.2	2208.6	2189.4	2198.4
52.5°	2366.2	2402.9	2440.2	2459.9	2474.0	2475.1	2481.0	2474.0	2476.8	2472.4	2481.4
55°	2582.2	2645.7	2689.4	2728.2	2752.7	2773.9	2775.8	2783.4	2784.0	2793.4	2784.1
57.5°	2793.4	2862.6	2938.8	3007.4	3045.5	3069.5	3092.1	3122.9	3129.6	3126.0	3131.9
60°	3042.7	3149.7	3253.4	3332.4	3398.2	3461.2	3495.0	3543.3	3551.0	3571.8	3553.8
62.5°	3357.8	3513.2	3653.8	3760.2	3860.1	3958.1	4032.1	4069.3	4092.0	4135.7	4121.3
65°	3841.2	4027.6	4213.6	4366.1	4506.2	4622.8	4735.2	4788.8	4848.1	4910.2	4921.5
67.5°	4239.4	4470.0	4679.8	4865.6	5035.3	5164.9	5281.8	5374.7	5447.0	5492.8	5496.4
69°	4257.4	4497.2	4725.0	4924.4	5101.4	5239.2	5362.2	5465.6	5535.9	5582.8	5595.2
70°	4171.0	4416.4	4659.2	4860.5	5041.8	5182.7	5313.2	5411.6	5490.2	5537.9	5554.6
72.5°	3685.0	3947.0	4206.5	4383.0	4568.3	4736.0	4840.5	4941.0	5051.7	5066.1	5111.8
75°	2905.0	3125.2	3326.5	3461.4	3616.2	3766.6	3869.2	3895.7	3953.6	4026.4	4000.5
77.5°	1683.4	1751.2	1881.1	1914.4	1886.2	1951.6	1973.4	1927.1	1924.8	1967.5	1882.8
80°	373.0	351.8	378.4	358.6	359.2	359.7	353.8	351.5	355.8	351.5	345.6
82.5°	103.4	100.0	100.6	99.4	101.4	100.0	99.1	101.4	101.0	100.8	102.8
85°	49.7	49.2	48.3	48.0	46.8	45.5	43.2	43.2	44.3	42.7	43.5
87.5°	6.5	6.2	6.2	7.3	6.4	5.4	5.4	5.4	5.0	5.0	5.1
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)